

SCHEME 4A2 – CLASS I & II DNA HLA TYPING TO 2ND FIELD RESOLUTION

METHODOLOGY

SAMPLES 4A2 06-10/2014 DESPATCHED ON 1ST JULY 2014

Lab no.	Date received	Date tested	Method used HLA-A	HLA-B	HLA-C	DRB1	DRB3,4,5	DQA1	DQB1	DPA1	DPB1	IMGT/HLA allele database release used	Source of Primers and Probes			Detection method	Comments
													Commercial Kits	Own Design	Other		
9	02-Jul	various	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SBT/LUM	SSP/LUM		SBT/LUM		SBT	3.16.0	Yes	Yes	Invitrogen, One Lambda	Gel/Fluorescence	
11	03-Jul	15-Jul									SSP		Yes	Yes		Gel	
12	03-Jul	17-Jul	SBT	SBT	SBT	SBT	LUM	LUM	SBT		SBT	3.16.0	Yes	Yes	Life Technologies (SBT), One Lambda (LUM)	Gel (SBT), Fluorescence (LUM)	
15	03-Jul	11-Aug	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT		SBT	3.13.1.0	Yes	Yes	Olerup (SSP), Immucor (LUM), In-house (SBT)	Gel/Fluorescence	
19	03-Jul	04-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM		SBT/LUM	3.11 (LUM), 3.15.02 (SBT)	Yes	Yes	In-house SBT	Fluorescence (Immucor Lifecodes)	
20	02-Jul	03-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP	SSP/SBT	SSP/SBT		SSP/SBT	3.13.1		Yes		Fluorescence	
23	04-Jul	04-Jul				LUM			SSP/LUM		SSP	3.13.1	Yes	Yes	Life Technologies (SSP), One Lambda (LUM)	Gel/Fluorescence	
24	04-Jul	11-Jul	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM		SSP/SBT/LUM		SSP/SBT/LUM	3.15	Yes	Yes	Olerup/Innotrain (SSP), GenDx (SBT), Immucor (LUM)	Gel/Fluorescence	
25	02-Jul	04+09-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM		SBT/LUM	3.16.0	Yes	Yes	Life Technologies (SBT), Genprobe (LUM)	Gel/Fluorescence	
26	02-Jul	02-Jul	SBT/LUM	SSP/SBT/LUM	SBT/LUM	SSP/SBT/LUM			SSP/SBT/LUM		SSP/SBT/LUM	3.15.0.0	Yes	Yes	Biorad (SSP), One Lambda (LUM)	Gel/Fluorescence	
28	02-Jul	7 - 23-Jul									SSP/LUM	3.13	Yes	Yes	Life Technologies, One Lambda	Gel/Fluorescence	
29	02-Jul	10-Jul - 14-Aug	SSP/SSOP/SBT	SSP/SSOP/SBT	SSP/SBT	SSP/SSOP/SBT			SSP/SBT		SSP/SBT	3.16.0	Yes	Yes	Olerup (SSP), BAG (SSOP), Life Technologies (SBT)	Gel/Reverse Dot Blot	
34	02-Jul		SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		Yes	Yes	Innotrain, GenDx, One Lambda	Fluorescence	
35	02-Jul	13-Jul - 8-Aug	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SSP/LUM	SSP/LUM	SBT/LUM		SBT/LUM	Jan-14	Yes	Yes	One Lambda, Invitrogen, Olerup	Gel/Fluorescence	
38	02-Jul	2 - 28-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM	LUM	SSP/LUM	3.16.0	Yes	Yes	One Lambda (SSP/LUM), Rose and in-house (SBT)	Gel/Fluorescence	
39	02-Jul	03-Jul	SSOP/SBT	SSOP/SBT	SSOP/SBT	SSP/SSOP	SSOP	SSP/SSOP	SSP/SSOP	SSP	SSP	3.15.0	Yes	Yes	Invitrogen, One Lambda, SBT excimerator	Gel/Fluorescence	
41	02-Jul	4 - 13-Jul				SSP			LUM		SSP		Yes	Yes	Invitrogen (SSP), One Lambda (LUM)	Gel/Fluorescence	
42	02-Jul	08-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM		SBT/LUM	3.15 and 3.16 (DP locus only)	Yes	Yes	One Lambda, GenDx	Fluorescence	
45	03-Jul	14-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT		SSP/SBT		SSP/SBT	03-Jan	Yes	Yes		Gel	
48	04-Jul	9-Jul - 6-Aug	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM	SSP	SBT/LUM		SBT	3.16	Yes	Yes	Life Technologies, Alpha Biotech	Gel/Fluorescence	
62	05-Jul	8-Jul - 13-Aug	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM		SSP/SBT/LUM		SSP/SBT/LUM	3.15.0	Yes	Yes	Olerup, One Lambda, In-house (SBT)	Gel/Fluorescence	
101	02-Jul	04-Aug	SBT	SBT	SBT	SBT/LUM			SBT/LUM		SBT/LUM		Yes	Yes	One Lambda	Fluorescence	
103	02-Jul	9-Jul							LUM		SSP/SSOP		Yes	Yes		Fluorescence	
109	02-Jul	22 - 25-Jul									SSP		Yes	Yes	QIAxcel	Fluorescence	
112	04-Jul	24-Jul	SSP/LUM	SSP/LUM		SSP/LUM						Version Report 3.4.0	Yes	Yes	One Lambda	Gel/Fluorescence	
113	02-Jul	08-Jul	SSP/SSOP	SSP/SSOP		SSP/SSOP	SSP		SSP		SSP	3.13.1	Yes	Yes		Gel	
115	03-Jul	03-Jul	SSP	SSP	SSP/SSOP	SSP	SSP		SSP		SSP		Yes	Yes	Olerup	Gel	
119	22-Jul	28-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT/LUM		SSP/SBT	SSP/SBT		SSP	3.16.0.07	Yes	Yes	One Lambda, Olerup, Invitrogen, Abbott	Gel/Fluorescence	
123	02-Jul	7-Jul + 8-Aug	SSP	SSP	SSP	SSP	SSP		SSP		SSP		Yes	Yes	One Lambda	Gel/Fluorescence	
126	11-Jul	25-Jul + 5-Aug	SSP/SBT	SSP/SBT	SSP	SSP/SBT	SSP	SSP	SSP	SSP	SSP		Yes	Yes	Olerup (SSP), Conexio (SBT)	Gel/Fluorescence	
128	02-Jul	17-Jul	LUM	LUM	LUM	LUM			LUM		LUM		Yes	Yes	One Lambda	Gel/Fluorescence	
130	02-Jul	09-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT	SSP	SSP	SSP/SBT	SSP	SBT	3.15.0	Yes	Yes	Olerup (SSP), GenDx (SBT)	Gel/Fluorescence	
132	02-Jul	8 - 29-Jul	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM	SSP/SSOP/LUM			SSP/SSOP/LUM		SSP	3.16	Yes	Yes	Olerup (SSP), Immucor (LUM)	Gel/Luminex	
133	03-Jul	14 + 22-Jul	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT			SSP/SBT		SSP		Yes	Yes	Olerup (SSP), GenDx (SBT)	Gel/Fluorescence	
141	12-Jul	01-Aug	SSP	SSP	SSP	SSP			SSP		SSP	3.16	Yes	Yes	Olerup	Gel	
142	02-Jul	29-Jul	SBT	SBT	SBT	SBT			SBT		SBT	3.16.0	Yes	Yes	Protrans	Fluorescence	
145	02-Jul	17-Jul	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		SSP/LUM	SSP/LUM		SSP/LUM		Yes	Yes	Olerup (SSP), One Lambda (LUM)	Gel	
147	02-Jul	02-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	SSP		LUM		LUM		Yes	Yes	Olerup, One Lambda	Gel/Fluorescence	
149	03-Jul	07-Jul	SSP/SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SSP/LUM		SSP	SSP		SSP		Yes	Yes	Protrans, Invitrogen, One Lambda, Abbott, Tepnel	Gel	
150	08-Jul	15-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM			SBT/LUM		SBT/LUM	01/01/14	Yes	Yes	Fluorescence		
156	02-Jul	01-Aug	SSP/SBT	SSP/SBT	SSP/SBT	SSP/SBT			SSP/SBT		SSP		Yes	Yes	Olerup	Gel/ABI 3730	
158	02-Jul	28-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM		SSP	SBT/LUM		SBT	3.16.0	Yes	Yes	Olerup (SSP), Immucor (LUM), GenDx (SBT)	Gel/Fluorescence	
164	07-Jul	16 + 31-Jul + 11-Aug	SSP/SBT	SSP/SBT	SBT	SBT		SSP	SSP		SSP	3.13.1.0	Yes	Yes	Celera, Olerup	Gel/Fluorescence	
165	09-Jul	14-Jul	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSP/SSOP	SSOP	SSOP	SSP/SSOP	SSOP	SSP/SSOP		Yes	Yes	One Lambda	Gel/Fluorescence	
178	04-Jul	01-Aug	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM		SSP	SSP/LUM		SSP		Yes	Yes	Olerup, Invitrogen	Gel	
185	03-Jul	17-Jul	SBT/LUM	SSP/SBT/LUM	SSP/SBT/LUM	SBT/LUM	SSP/SBT		SSP/SBT		SBT	3.15	Yes	Yes	Olerup (SSP), Immucor (LUM), Protrans (SBT)	Gel/Fluorescence	
196	11-Jul	16-Jul - 5-Aug				SSP			SSP		SSP		Yes	Yes	Olerup, Invitrogen	Gel	
223	02-Jul	3 - 16-Jul	SSP					SSP	SSP		SSP		Yes	Yes	Olerup, Invitrogen	Gel	
225	07-Jul	17-Jul				SSP			SSP		SSP	3.16.0	Yes	Yes	Olerup	Gel	
232	10-Jul	24-Jul				SSP/SSOP			SSP		SSP		Yes	Yes	Olerup (SSP), GenProbe (SSOP)	Gel/Fluorescence	
242	03-Jul	09-Jul	SBT	SBT	SBT	SBT			SBT		SBT		Yes	Yes	Fluorescence		
245	01-Jul	02-Jul	SBT/CDC	SBT/CDC	SBT	SBT/LUM	SSP		SSP/SBT		SSP	3.16.0	Yes	Yes	Olerup (SSP), One Lambda (LUM), Protrans (SBT)	Gel/Fluorescence	
248	02-Jul		SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM			SSP		SSP		Yes	Yes		Gel/Fluorescence	
259	03-Jul	4-Jul + 5-6-Aug	SSP	SSP	SSP	SSP			SSP		SSP		Yes	Yes	Olerup	Gel	
260	03-Jul	05-Jul	SBT	SBT	SBT	SBT			SBT		SBT		Yes	Yes	GenDx	Gel	
267	02-Jul	14-Jul	SBT/LUM	SBT/LUM	SBT/LUM	SBT/LUM	LUM		SBT/LUM		LUM	3.14 (LUM), 3.16 (SBT)	Yes	Yes	Immucor (LUM), Protrans (SBT)	Fluorescence	
268	07-Jul	7 + 25-Jul	SSP/LUM/N6S	SSP/LUM/N6S	SSP/LUM/N6S	SSP/LUM/N6S	SSP		SSP/LUM/N6S		SSP	3.15.0	Yes	Yes	Olerup (SSP), One Lambda (LUM), N6S primers (in-house)	Gel/Fluorescence	
304	02-Jul	09-Jul	SSP/LUM	SSP/LUM	SSP/LUM	SSP/LUM			SSP/LUM		SSP/LUM		Yes	Yes		Gel/Fluorescence	
312	03-Jul	22-Jul	SBT	SBT	SBT	SBT			SBT		SBT	3.16.0	Yes	Yes	Invitrogen	Fluorescence	

* Methods used

SSP = PCR-SSP

SSOP = PCR-SSOP

revSSOP = reverse SSOP

LUM = Luminex

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SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 06/2014 DESPATCHED ON 1ST JULY 2014

Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01	
11				2nd field		2nd field										01:01	04:01	
12	2nd field			2nd field		2nd field	03:01		01:01/01:04	01:02/08/09/11	05:01	02:01	06:02			01:01	04:01	
15	2nd field		2nd field	2nd field	2nd field	2nd field	03:01			01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
19	2nd field			2nd field		2nd field	03:01:01:01/01:0		01:01:02:01/01:0	01:02	05:01:01:01/01:0	02:01:01	06:02:01			01:01:01	04:01:01:01/01:0	
20	2nd field		2nd field	2nd field		2nd field	03:01		2:02	01:02/11	05:01	02:01	06:02			01:01	04:01	
23	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01	
24	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01	
25	2nd field						03:01											
26	2nd field			2nd field			03:01					02:01	06:02					
28						2nd field										01:01	04:01	
29	2nd field			2nd field			03:01					02:01	06:02					
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
35	2nd field	2nd field	2nd field	2nd field		2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
38	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
39	2nd field		2nd field	2nd field		2nd field	03:01		01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
41	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01	
42	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01	
45	2nd field			2nd field		2nd field	03:01:01:01/01:08		01:01/04			02:01:01	06:02:01			01:01:01	04:01:01	
48	2nd field		2nd field	2nd field		2nd field	03:01		01	01:02	05:01	02:01	06:02			01:01	04:01	
62	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01	
101	2nd field			2nd field			03:01					02:01	06:02					
103				2nd field								02:01/27	06:02/84					
109				2nd field		2nd field						02:01	06:02			01:01	04:01	
112	2nd field						03:01											
113	2nd field	2nd field		2nd field			03:01		01:01			02:01	06:02					
115	2nd field	2nd field		2nd field			03:01		01:01			02:01	06:02					
119	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01	
123	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02					
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
128	2nd field			2nd field			03:01					02:01	06:02					
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01:01		01:01	01:02	05:01	02:01:01	06:02:01	01:03	02:01	01:01:01	04:01:01	
132	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01	
133	2nd field			2nd field		2nd field	03:01					02:01	06:02					
141	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01	
142	2nd field						03:01		03:01									
145	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01	
147	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:01			01:01	04:01	
149	2nd field		2nd field	2nd field			03:01			01:02	05:01	02:01	06:02					
150	2nd field			2nd field			03:01:01/02					02:01:01/10	06:02:01/04/09					
156	2nd field			2nd field		2nd field	03:01:01					02:01	06:02			01:01	04:01	
158	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01	
164	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01	
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	
178	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01	
185	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01/126:01	
196	2nd field		2nd field	2nd field			03:01			01:02	05:01	02:01	06:02					
223	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01	
225	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01	
232	2nd field			2nd field			03:01					02:01	06:02					
242	2nd field			2nd field			03:01					02:01	06:02					
245	2nd field	2nd field		2nd field		2nd field	03:01		03:01	01:01		02:01	06:02			01:01	04:01	
248	2nd field			2nd field			03:01		03:01			02:01	06:02					
259	2nd field			2nd field			03:01					02:01	06:02					
260	2nd field			2nd field			03:01:01		03:01:01			02:01:01	06:02:01					
267	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01	
268	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01	
304	2nd field			2nd field			03:01					02:01	06:02					
312	2nd field						03:01											

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 07/2014 DESPATCHED ON 1ST JULY 2014

Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB3*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02	
11				2nd field		2nd field											03:01	04:02	
12	2nd field			2nd field		2nd field	13:01	13:02	02:02/28/29N	03:01	01:02/08/09/11	01:03/10	06:03	06:04			03:01	04:02	
15	2nd field		2nd field	2nd field	2nd field	2nd field	13:01/117	13:02			01:02	01:03	06:03	06:04	01:03		03:01	04:02	
19	2nd field			2nd field		2nd field	13:01:01	13:02:01	02:02/28/29N	03:01	01:02	01:03:01:01/03:01:02	06:03/27/41	06:04/39/92			03:01:01	04:02:01:01/02:01:02	
20	2nd field		2nd field	2nd field		2nd field	13:01/117	13:02	+		01:02/11	01:03	06:03	06:04			03:01/104:01/124:01	04:02	Ambiguous DQB1*06:39, 06:41
23	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02	
24	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02	
25	2nd field						13:01	13:02											
26	2nd field			2nd field			13:01	13:02					06:03	06:04					Cannot exclude DQB1*06:39, 06:41 combination (due to cis-trans ambiguity in exons 2+3)
28						2nd field											03:01	04:02	
29	2nd field			2nd field			13:01	13:02					06:03/41	06:04/39					
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02	
35	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02	
38	2nd field		2nd field	2nd field	2nd field	2nd field	13:01	13:02			01:02	01:03	06:03	06:04	01:03		03:01	04:02	
39	2nd field		2nd field	2nd field	2nd field	2nd field	13:01	13:02	02	03	01:02	01:03	06:03	06:04	01:03		03:01	04:02	
41	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02	
42	2nd field			2nd field		2nd field	13:01	13:02					06:03/41	06:04/39			03:01/104:01	04:02	
45	2nd field			2nd field		2nd field	13:01:01/117	13:02:01	02:02/28/29N	03:01			06:03:01/32	06:04:01/21			03:01:01/104:01/132:01	04:02:01/59:01	
48	2nd field		2nd field	2nd field		2nd field	13:01	13:02	02	03	01:02	01:03	06:03	06:04			03:01	04:02	
62	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02	
101	2nd field			2nd field			13:01	13:02					06:03	06:04					
103				2nd field									06:03/26N/40/41/59/61/64/65/67/90/91	06:04/34/36/38/3/9/52/58/65/86/93					
109				2nd field		2nd field							06:03	06:04			03:01	04:02	
112	2nd field							13:02											
113	2nd field	2nd field		2nd field			13:01	13:02	02:02	03:01			06:03	06:04					
115	2nd field	2nd field		2nd field			13:01	13:02	02:02	03:01			06:03	06:04					
119	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02	
123	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04					
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02	
128	2nd field			2nd field			13:01	13:02					06:03	06:04					
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01:01	13:02:01	02:02	03:01	01:02	01:03	06:03:01/41	06:04:01/39	01:03		03:01:01	04:02:01	
132	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02	
133	2nd field			2nd field			13:01	13:02					06:03	06:04					
141	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02	
142	2nd field						13:01	13:02											
145	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02	
147	2nd field	2nd field		2nd field		2nd field	13:01:01/117	13:02:01	02:02	03:01			06:03	06:04			03:01	04:02	
149	2nd field		2nd field	2nd field			13:01	13:02			01:02	01:03	06:03	06:04					
150	2nd field			2nd field			13:01:01	13:02:01					06:03:01/04	06:04:01/02					
156	2nd field			2nd field		2nd field	13:01:01	13:02:01					06:03/39	06:04/41			03:01	04:02	
158	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02	DQB1*06:39, 06:41 can not be excluded
164	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02	
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02	
178	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02	
185	2nd field	2nd field		2nd field		2nd field	13:01/117	13:02	02:02	03:01			06:03	06:04			03:01/104:01/124:01	04:02/105:01	
196	2nd field		2nd field	2nd field			13:01	13:02			01:02	01:03	06:03	06:04					
223	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02	
225	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02	
232	2nd field			2nd field			13:01	13:02					06:03	06:04					
242	2nd field			2nd field			13:01	13:02					06:03	06:04					
245	2nd field	2nd field		2nd field		2nd field	13:01/017	13:02	02:02	03:01			06:03/41	06:04/39			03:01	04:02	
248	2nd field			2nd field			13:01	13:02					06:03	06:04					
259	2nd field			2nd field			13:01	13:02											
260	2nd field			2nd field			13:01:01	13:02:01					06:03:01	06:04:01					
267	2nd field	2nd field		2nd field		2nd field	13:01/117	13:02	02:02	03:01			06:03	06:04			03:01/104:01	04:02/105:01	
268	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02	
304	2nd field			2nd field			13:01	13:02					06:03	06:04					
312	2nd field						13:01	13:02											

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 08/2014 DESPATCHED ON 1ST JULY 2014

Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:03			02:01	03:02			01:01	04:02	
11						2nd field											01:01	04:02	
12	2nd field			2nd field		2nd field	03:01	04:04	01:01/04	01:01/03/06	03:01	05:01	02:01	03:02			01:01	04:02	
15	2nd field		2nd field	2nd field	2nd field	2nd field	03:01	04:04			03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
19	2nd field		2nd field	2nd field		2nd field	03:01:01:01/ 01:01:02/01: 08	04:04:01	01:01:02:01/01:0 2:02	01:01/03/06	03:01:01	05:01:01:01/01:0 1:02	02:01:01	03:02:01			01:01:01	04:02:01:01/02:0 1:02	Negative for DRB4*01:03:01:02 Null
20	2nd field		2nd field	2nd field		2nd field	03:01	04:04	+	+	03:01	05:01	02:01	03:02			01:01	04:02	
23	2nd field			2nd field		2nd field	03:01	04:04					02:01	03:02			01:01	04:02	
24	2nd field			2nd field		2nd field	03:01	04:04					02:01	03:02			01:01	04:02	
25	2nd field						03:01/06	04:04/42											
26	2nd field			2nd field			03:01	04:04					02:01	03:02					
28						2nd field											01:01	04:02	
29	2nd field			2nd field			03:01	04:04					02:01	03:02					
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
35	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
38	2nd field		2nd field	2nd field		2nd field	03:01	04:04			03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
39	2nd field		2nd field	2nd field		2nd field	03:01	04:04	01	01	03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
41	2nd field			2nd field		2nd field	03:01	04:04					02:01	03:02			01:01	04:02	
42	2nd field			2nd field		2nd field	03:01	04:04					02:01	03:02			01:01	04:02	
45	2nd field			2nd field		2nd field	03:01:01/01: 08	04:04:01	01:01/04	01:03			02:01:01	03:02:01			01:01:01	04:02:01	
48	2nd field		2nd field	2nd field		2nd field	03:01	04:04	01	01	03:01	05:01	02:01	03:02			01:01	04:02	
62	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:03			02:01	03:02			01:01	04:02	
101	2nd field			2nd field			03:01	04:04					02:01	03:02					
103													02:01/13/14/15/1 6/17/18N/20N/21 /22/23/24/25/26/ 27/28/29/30/31/3 2/33	03:02/62/63/64/6 6N/68/81/85					
109				2nd field		2nd field							02:01	03:02			01:01	04:02	
112	2nd field						03:01	04:04											
113	2nd field	2nd field		2nd field			03:01	04:04	01:01	01:03			02:01	03:02					
115	2nd field	2nd field		2nd field			03:01	04:04	01:01	01:03			02:01	03:02					
119	2nd field		2nd field	2nd field		2nd field	03:01	04:04			03:01	05:01	02:01	03:02			01:01	04:02	
123	2nd field	2nd field		2nd field			03:01	04:04	01:01	01:03			02:01	03:02					
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01	04:04	01:01	01:03	03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
128	2nd field			2nd field			03:01	04:04					02:01	03:01					
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01:01	04:04:01	01:01:02	01:03	03:01	05:01	02:01:01	03:02:01	01:03	02:01	01:01:01	04:02:01	
132	2nd field			2nd field		2nd field	03:01	04:04					02:01	03:02			01:01	04:02	
133	2nd field			2nd field			03:01	04:04					02:01	03:02					
141	2nd field		2nd field	2nd field		2nd field	03:01	04:04			03:01	05:01	02:01	03:02			01:01	04:02	
142	2nd field						03:01	04:04											
145	2nd field		2nd field	2nd field		2nd field	03:01	04:04			03:01	05:01	02:01	03:02			01:01	04:02	
147	2nd field	2nd field		2nd field		2nd field	03:01	04:04:01	01:01	01:03			02:01	03:02			01:01	04:02	
149	2nd field		2nd field	2nd field			03:01	04:04			03:01	05:01	02:01	03:02					
150	2nd field			2nd field			03:01:01/02	04:04:01					02:01:01/08/10	03:02:01/08					
156	2nd field			2nd field		2nd field	03:01:01	04:04:01					02:01	03:02			01:01	04:02	
158	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:03			02:01	03:02			01:01	04:02	
164	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:03			02:01	03:02			01:01	04:02	
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01	04:04	01:01	01:01/03	03:01	05:01	02:01	03:02	01:03	02:01	01:01	04:02	
178	2nd field		2nd field	2nd field		2nd field	03:01	04:04			03:01	05:01	02:01	03:02			01:01	04:02	
185	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:01/03/06			02:01	03:02			01:01	04:02/105:01	
196	2nd field		2nd field	2nd field			03:01	04:04			03:01	05:01	02:01	03:02					
223	2nd field		2nd field	2nd field		2nd field	03:01	04:04			03:01	05:01	02:01	03:02			01:01	04:02	
225	2nd field			2nd field		2nd field	03:01	04:04					02:01	03:02			01:01	04:02	
232	2nd field			2nd field			03:01	04:04					02:01	03:02					
242	2nd field			2nd field			03:01	04:04					02:01	03:02					
245	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:03			02:01	03:02			01:01	04:02	
248	2nd field			2nd field			03:01	04:04					02:01	03:02					
259	2nd field			2nd field			03:01	04:04					02:01	03:02					
260	2nd field			2nd field			03:01:01	04:04:01					02:01:01	03:02:01					
267	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:01/03			02:01	03:02			01:01	04:02/105:01	
268	2nd field	2nd field		2nd field		2nd field	03:01	04:04	01:01	01:03			02:01	03:02			01:01	04:02	
304	2nd field			2nd field			03:01	04:04					02:01	03:02					
312	2nd field						03:01	04:04					02:01	03:02					

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 09/2014 DESPATCHED ON 1ST JULY 2014

Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01	
11				2nd field		2nd field											02:01	04:01	
12	2nd field			2nd field		2nd field	04:01	13:01	01:01	01:01/03/06	01:03/10	03:01/02/03	03:02	06:03			02:01	04:01	
15	2nd field		2nd field	2nd field	2nd field	2nd field	04:01	13:01/117			01:03	03:01	03:02	06:03	01:03		02:01	04:01	
19	2nd field			2nd field		2nd field	04:01:01	13:01:01	01:01:02:01/01:02:02	01:01/03/06	01:03:01:01/03:01:02	03:01:01	03:02:01	06:03:01			02:01:02	04:01:01/01:01:02	Negative for DRB4*01:03:01:02 Null
20	2nd field		2nd field	2nd field		2nd field	04:01	13:01/117	+	+	01:03	03:01	03:02	06:03			02:01/141:01	04:01	
23	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01	
24	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01	
25	2nd field						04:01/13	13:01/02											
26	2nd field			2nd field			04:01	13:01					03:02	06:03					
28						2nd field											02:01	04:01	
29	2nd field			2nd field			04:01	13:01					03:02	06:03					
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03		02:01	04:01	
35	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03		02:01	04:01	
38	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03	01:03		02:01	04:01	
39	2nd field		2nd field	2nd field		2nd field	04:01	13:01	01	01	01:03	03:01	03:02	06:03	01:03		02:01	04:01	
41	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01	
42	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01	
45	2nd field			2nd field		2nd field	04:01:01	13:01:01/117	01:01/04	01:03			03:02:01	06:03:01			02:01:02/141:01	04:01:01	
48	2nd field		2nd field	2nd field		2nd field	04:01	13:01	01	01	01:03	03:01	03:02	06:03			02:01	04:01	
62	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01/141:01	04:01	
101	2nd field			2nd field			04:01	13:01					03:02	06:03					
103				2nd field									03:02/85	06:03/41					
109				2nd field		2nd field							03:02	06:03			02:01	04:01	
112	2nd field						04:01	13:01											
113	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03					
115	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03					
119	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01	
123	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03					
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03		02:01	04:01	
128	2nd field			2nd field			04:01	13:01					03:02	06:03					
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01:01	13:01:01	01:01	01:03	01:03	03:01	03:02:01	06:03:01	01:03		02:01:02	04:01:01	
132	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01	
133	2nd field			2nd field			04:01	13:01					03:02	06:03					
141	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01	
142	2nd field						04:01	13:01											Using Protrans reagents we could not exclude the DRB1*13:117 allele (technical limit)
145	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01	
147	2nd field	2nd field		2nd field		2nd field	04:01:01	13:01:01/117	01:01	01:03			03:02	06:03			02:01	04:01	
149	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03					
150	2nd field			2nd field			04:01:01	13:01:01					03:02:01/03/08	06:03:01/02					
156	2nd field			2nd field		2nd field	04:01:01	13:01:01					03:02	06:03					
158	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01	
164	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01	
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:01/03	01:03	03:01/02/03	03:02	06:03	01:03		02:01/141:01	04:01	
178	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01	
185	2nd field	2nd field		2nd field		2nd field	04:01	13:01/117	01:01	01:01/03/06			03:02	06:03			02:01/141:01	04:01/126:01	
196	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03					
223	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01	
225	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01	
232	2nd field			2nd field			04:01	13:01					03:02	06:03					
242	2nd field			2nd field			04:01	13:01					03:02	06:03					
245	2nd field	2nd field		2nd field		2nd field	04:01	13:01/117	01:01	01:03			03:02	06:03			02:01	04:01	
248	2nd field			2nd field			04:01	13:01					03:02	06:03					
259	2nd field			2nd field			04:01	13:01					03:02	06:03					
260	2nd field			2nd field			04:01:01	13:01:01					03:02:01	06:03:01					
267	2nd field	2nd field		2nd field		2nd field	04:01	13:01/117	01:01	01:01/03			03:02	06:03			02:01	04:01	
268	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01	
304	2nd field			2nd field			04:01	13:01					03:02	06:03					
312	2nd field						04:01	13:01											

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 10/2014 DESPATCHED ON 1ST JULY 2014

Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB4*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Comments
9	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02			04:01		
11				2nd field		2nd field											04:01		
12	2nd field			2nd field		2nd field	07:01	16:01	01:01/03/06	02:02/06	01:02/08/09/11	02:01	02:02	05:02			04:01		
15	2nd field		2nd field	2nd field	2nd field	2nd field	07:01	16:01			01:02	02:01	02:02	05:02	01:03		04:01		
19	2nd field			2nd field		2nd field	07:01:01:01:01:01:02	16:01:01	01:01/03/06	02:02/06	01:02:02	02:01	02:02:01	05:02:01			04:01:01:01:01:01:02		Negative for DRB4*01:03:01:02 Null
20	2nd field		2nd field	2nd field		2nd field	07:01	16:01	+	+	01:02	02:01	02:02	05:02			04:01		
23	2nd field			2nd field		2nd field	07:01	16:01					02:02	05:02			04:01		
24	2nd field			2nd field		2nd field	07:01	16:01					02:02	05:02			04:01		
25	2nd field						07:01	16:01											
26	2nd field			2nd field			07:01	16:01					02:02	05:02					
28						2nd field											04:01		
29	2nd field			2nd field			07:01	16:01					02:02	05:02					
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02	01:03		04:01		
35	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02	01:03		04:01		
38	2nd field			2nd field	2nd field	2nd field	07:01	16:01			01:02	02:01	02:02	05:02	01:03		04:01		
39	2nd field		2nd field	2nd field	2nd field	2nd field	07:01	16:01	01	02	01:02	02:01	02:02	05:02	01:03		04:01		
41	2nd field			2nd field	2nd field	2nd field	07:01	16:01					02:02	05:02			04:01		
42	2nd field			2nd field	2nd field	2nd field	07:01	16:01					02:02	05:02			04:01		
45	2nd field			2nd field	2nd field	2nd field	07:01:01	16:01:01	01:01:01:01	02:02/06			02:02	05:02:01			04:01:01		
48	2nd field		2nd field	2nd field	2nd field	2nd field	07:01	16:01	01	02	01:02	02:01	02:02	05:02			04:01		
62	2nd field	2nd field		2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02			02:02	05:02			04:01		
101	2nd field			2nd field			07:01	16:01					02:02	05:02					
103				2nd field									02:02/12	05:02/17/19/34/36/37					
109				2nd field		2nd field							02:02	05:02			04:01		
112	2nd field						07:01	16:01											
113	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02					
115	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02					
119	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02			04:01		
123	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02					
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02	01:03		04:01		
128	2nd field			2nd field			07:01	16:01					02:02	05:02					
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01:01	16:01:01	01:01	02:02	01:02	02:01	02:02:01	05:02:01	01:03		04:01:01		
132	2nd field			2nd field		2nd field	07:01	16:01					02:02	05:02			04:01		
133	2nd field			2nd field			07:01	16:01					02:02	05:02					
141	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02			04:01		
142	2nd field			2nd field			07:01	16:01											
145	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02			04:01		
147	2nd field	2nd field		2nd field		2nd field	07:01:01	16:01:01	01:01	02:02			02:02	05:02			04:01		
149	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					
150	2nd field			2nd field			07:01:01/02	16:01:01					02:02:01	05:02:01/34					
156	2nd field			2nd field		2nd field	07:01:01	16:01:01					02:02	05:02			04:01		
158	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02			04:01		
164	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02			04:01		
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01/03	02:02	01:02	02:01	02:02	05:02	01:03		04:01		
178	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02			04:01		
185	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01/03/06	02:02/06			02:02	05:02			04:01/126:01		
196	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					
223	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02			04:01		
225	2nd field			2nd field		2nd field	07:01	16:01					02:02	05:02			04:01		
232	2nd field			2nd field			07:01	16:01					02:02	05:02					
242	2nd field			2nd field			07:01	16:01					02:02	05:02					
245	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02			04:01	04:01	
248	2nd field			2nd field			07:01	16:01					02:02	05:02					
259	2nd field			2nd field			07:01	16:01					02:02	05:02					
260	2nd field			2nd field			07:01:01	16:01:01					02:02:01	05:02:01					
267	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01/03	02:02			02:02	05:02			04:01		
268	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02			04:01		
304	2nd field			2nd field			07:01	16:01					02:02	05:02					
312	2nd field						07:01	16:01					02:02	05:02					

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 06/2014 DESPATCHED ON 1ST JULY 2014

							DRB1*	DRB1*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*			
							03:01	03:01/blank	01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01	Acceptable		
2nd field													06:01					Unacceptable		
Result Summary																				
Number Acceptable 2nd field							55	55	17	17	17	53	52	5	5	37	37			
Number Unacceptable							0	0	0	0	0	0	1	0	0	0	0	0		
Number NT							0	0	0	0	0	0	0	0	0	0	0	0		
Lab no.	DRB1* res 55	DRB3*/4*/5* res 17	DQA1* res 17	DQB1* res 53	DPA1* res 5	DPB1* res 37	DRB1*	DRB1*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*			
9	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
11						2nd field										01:01	04:01			
12	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
15	2nd field		2nd field	2nd field	2nd field	2nd field	03:01			01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01			
19	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
20	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
23	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
24	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
25	2nd field						03:01													
26	2nd field			2nd field			03:01					02:01	06:02							
28						2nd field										01:01	04:01			
29	2nd field			2nd field			03:01					02:01	06:02							
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01			
35	2nd field	2nd field	2nd field	2nd field		2nd field	03:01		01:01	01:02	05:01	02:01	06:02			01:01	04:01			
38	2nd field			2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
39	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
41	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
42	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
45	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
48	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
62	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
101	2nd field			2nd field			03:01					02:01	06:02							
103				2nd field								02:01	06:02							
109				2nd field		2nd field						02:01	06:02			01:01	04:01			
112	2nd field						03:01													
113	2nd field			2nd field			03:01					02:01	06:02							
115	2nd field	2nd field		2nd field			03:01		01:01			02:01	06:02							
119	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
123	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02							
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01			
128	2nd field			2nd field		2nd field	03:01					02:01	06:02							
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01			
132	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
133	2nd field			2nd field			03:01					02:01	06:02							
141	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
142	2nd field						03:01		03:01											
145	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
147	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
149	2nd field		2nd field	2nd field			03:01			01:02	05:01	02:01	06:02							
150	2nd field			2nd field			03:01					02:01	06:02							
156	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
158	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
164	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	03:01		01:01	01:02	05:01	02:01	06:02	01:03	02:01	01:01	04:01			
178	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
185	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
196	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02							
223	2nd field		2nd field	2nd field		2nd field	03:01			01:02	05:01	02:01	06:02			01:01	04:01			
225	2nd field			2nd field		2nd field	03:01					02:01	06:02			01:01	04:01			
232	2nd field			2nd field		2nd field	03:01					02:01	06:02							
242	2nd field			2nd field			03:01					02:01	06:02							
245	2nd field	2nd field		2nd field		2nd field	03:01		03:01	01:01		02:01	06:02			01:01	04:01			
248	2nd field			2nd field			03:01		03:01			02:01	06:02							
259	2nd field			2nd field			03:01					02:01	06:02							
260	2nd field			2nd field			03:01		03:01			02:01	06:02							
267	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
268	2nd field	2nd field		2nd field		2nd field	03:01		01:01			02:01	06:02			01:01	04:01			
304	2nd field			2nd field			03:01					02:01	06:02							
312	2nd field						03:01					02:01	06:02							

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 07/2014 DESPATCHED ON 1ST JULY 2014

							DRB1*	DRB1*	DRB3*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Acceptable Acceptable	
							13:01	13:02	02:02	03:01	01:02	01:03	06:03 06:27/32	06:04 06:21/34/36/38 /39	01:03	blank	03:01 104:01/124:01	04:02 59:01/105:01		
2nd field							blank							blank/06:26N/39					Unacceptable	
Result Summary																				
Number Acceptable 2nd field							54	55	17	17	17	17		50	53	5	5	37	36	
Number Unacceptable							1	0	0	0	0	0		3	0	0	0	0	1	
Number NT							0	0	0	0	0	0		0	0	0	0	0		
Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB3*	DRB3*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*		
	55	17	17	53	5	37														
9	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02		
11						2nd field											03:01	04:02		
12	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02		
15	2nd field		2nd field	2nd field	2nd field	2nd field	13:01	13:02			01:02	01:03	06:03	06:04	01:03		03:01	04:02		
19	2nd field			2nd field		2nd field	13:01	13:02					06:03/27	06:04/39			03:01	04:02		
20	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04/39			03:01/104:01/1 24:01	04:02		
23	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02		
24	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02		
25	2nd field						13:01	13:02												
26	2nd field			2nd field			13:01	13:02					06:03	06:04/39						
28						2nd field											03:01	04:02		
29	2nd field			2nd field			13:01	13:02					06:03	06:04/39						
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02		
35	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04			03:01	04:02		
38	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
39	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
41	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02		
42	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04/39			03:01/104:01	04:02		
45	2nd field			2nd field		2nd field	13:01	13:02					06:03/32	06:04/21			03:01/104:01	04:02/59:01		
48	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
62	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02		
101	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04						
103				2nd field		2nd field							06:03/26N	06:04/34/36/38 /39						
109				2nd field		2nd field							06:03	06:04			03:01	04:02		
112	2nd field																			
113	2nd field	2nd field		2nd field			13:01	13:02	02:02	03:01			06:03	06:04						
115	2nd field	2nd field		2nd field			13:01	13:02	02:02	03:01			06:03	06:04						
119	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
123	2nd field	2nd field		2nd field			13:01	13:02	02:02	03:01			06:03	06:04						
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02		
128	2nd field			2nd field			13:01	13:02					06:03	06:04						
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04/39	01:03		03:01	04:02		
132	2nd field			2nd field		2nd field	13:01	13:02					06:03	06:04			03:01	04:02		
133	2nd field			2nd field			13:01	13:02					06:03	06:04						
141	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
142	2nd field						13:01	13:02												
145	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
147	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02		
149	2nd field		2nd field	2nd field			13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
150	2nd field			2nd field			13:01	13:02					06:03	06:04						
156	2nd field			2nd field		2nd field	13:01	13:02					06:03/39	06:04			03:01	04:02		
158	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04/39			03:01	04:02		
164	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02		
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	13:01	13:02	02:02	03:01	01:02	01:03	06:03	06:04	01:03		03:01	04:02		
178	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
185	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01/104:01/1 24:01	04:02/105:01		
196	2nd field		2nd field	2nd field			13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
223	2nd field		2nd field	2nd field		2nd field	13:01	13:02			01:02	01:03	06:03	06:04			03:01	04:02		
225	2nd field			2nd field			13:01	13:02					06:03	06:04						
232	2nd field			2nd field			13:01	13:02					06:03	06:04						
242	2nd field			2nd field			13:01	13:02					06:03	06:04						
245	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04/39			03:01	04:02		
248	2nd field			2nd field			13:01	13:02					06:03	06:04						
259	2nd field			2nd field			13:01	13:02						06:04						
260	2nd field			2nd field			13:01	13:02						06:04						
267	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01/104:01	04:02/105:01		
268	2nd field	2nd field		2nd field		2nd field	13:01	13:02	02:02	03:01			06:03	06:04			03:01	04:02		
304	2nd field			2nd field			13:01	13:02					06:03	06:04						
312	2nd field						13:01	13:02					06:03	06:04						

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 09/2014 DESPATCHED ON 1ST JULY 2014

							DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*			
							04:01	13:01	01:01	01:03	01:03	03:01	03:02	03:02	06:03	01:03	blank	02:01	04:01	Acceptable	
							04:13	13:02		01:01/06		03:02/03							Acceptable		
2nd field																					
Result Summary																					
Number Acceptable 2nd field							55	55	17	17	17	17	53	53	5	5	37	37			
Number Unacceptable							0	0	0	0	0	0	0	0	0	0	0	0	0		
Number NT							0	0	0	0	0	0	0	0	0	0	0	0	0		
Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB3*	DRB4*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*			
9	55	17	17	53	5	37	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
11																	02:01	04:01			
12	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
15	2nd field		2nd field	2nd field	2nd field	2nd field	04:01	13:01			01:03	03:01	03:02	06:03	01:03		02:01	04:01			
19	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
20	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
23	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
24	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
25	2nd field						04:01/13	13:01/02													
26	2nd field			2nd field			04:01	13:01					03:02	06:03							
28						2nd field											02:01	04:01			
29	2nd field			2nd field			04:01	13:01					03:02	06:03							
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03		02:01	04:01			
35	2nd field	2nd field	2nd field	2nd field			04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
38	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
39	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
41	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
42	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
45	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
48	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
62	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
101	2nd field			2nd field			04:01	13:01					03:02	06:03							
103				2nd field									03:02	06:03							
109				2nd field		2nd field							03:02	06:03			02:01	04:01			
112	2nd field						04:01	13:01					03:02	06:03							
113	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03							
115	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03							
119	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
123	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03							
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03		02:01	04:01			
128	2nd field			2nd field			04:01	13:01					03:02	06:03							
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:03	01:03	03:01	03:02	06:03	01:03		02:01	04:01			
132	2nd field			2nd field			04:01	13:01					03:02	06:03			02:01	04:01			
133	2nd field			2nd field			04:01	13:01					03:02	06:03							
141	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
142	2nd field						04:01	13:01													
145	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
147	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
149	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03							
150	2nd field			2nd field			04:01	13:01					03:02	06:03							
156	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01			
158	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
164	2nd field	2nd field		2nd field			04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	04:01	13:01	01:01	01:01/03	01:03	03:01/02/03	03:02	06:03	01:03		02:01	04:01			
178	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
185	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:01/03/06			03:02	06:03			02:01	04:01			
196	2nd field		2nd field	2nd field			04:01	13:01			01:03	03:01	03:02	06:03							
223	2nd field		2nd field	2nd field		2nd field	04:01	13:01			01:03	03:01	03:02	06:03			02:01	04:01			
225	2nd field			2nd field		2nd field	04:01	13:01					03:02	06:03			02:01	04:01			
232	2nd field			2nd field			04:01	13:01					03:02	06:03							
242	2nd field			2nd field			04:01	13:01					03:02	06:03							
245	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
248	2nd field			2nd field			04:01	13:01					03:02	06:03							
259	2nd field			2nd field			04:01	13:01					03:02	06:03							
260	2nd field			2nd field			04:01	13:01					03:02	06:03							
267	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:01/03			03:02	06:03			02:01	04:01			
268	2nd field	2nd field		2nd field		2nd field	04:01	13:01	01:01	01:03			03:02	06:03			02:01	04:01			
304	2nd field			2nd field			04:01	13:01					03:02	06:03							
312	2nd field						04:01	13:01					03:02	06:03							

SCHEME 4A2 – CLASS II DNA HLA TYPING TO 2ND FIELD RESOLUTION

RESULTS OF PARTICIPATING LABORATORIES

SAMPLE 4A2 10/2014 DESPATCHED ON 1ST JULY 2014

							DRB1*	DRB1*	DRB4*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*	Acceptable Acceptable		
							07:01	16:01	01:01 01:03/06	02:02 02:06	01:02	02:01	02:02	05:02	01:03	blank	04:01	blank			
2nd field																					
Result Summary																					
Number Acceptable 2nd field							55	55	17	17	17	17	53	53	5	5	37	37			
Number Unacceptable							0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Number NT							0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lab no.	DRB1* res	DRB3*/4*/5* res	DQA1* res	DQB1* res	DPA1* res	DPB1* res	DRB1*	DRB1*	DRB4*	DRB5*	DQA1*	DQA1*	DQB1*	DQB1*	DPA1*	DPA1*	DPB1*	DPB1*			
9	55	17	17	53	5	37	07:01	16:01	01:01	02:02			02:02	05:02					04:01		
11																			04:01		
12	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
15	2nd field		2nd field	2nd field	2nd field	2nd field	07:01	16:01			01:02	02:01	02:02	05:02	01:03				04:01		
19	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
20	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					04:01		
23	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
24	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
25	2nd field						07:01	16:01													
26	2nd field			2nd field			07:01	16:01					02:02	05:02							
28						2nd field													04:01		
29	2nd field			2nd field			07:01	16:01					02:02	05:02							
34	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02	01:03				04:01		
35	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02					04:01		
38	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					04:01		
39	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					04:01		
41	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
42	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
45	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
48	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					04:01		
62	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02					04:01		
101	2nd field			2nd field			07:01	16:01					02:02	05:02							
103				2nd field									02:02	05:02							
109				2nd field		2nd field							02:02	05:02					04:01		
112	2nd field						07:01	16:01					02:02	05:02							
113	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02							
115	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02							
119	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02					04:01		
123	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02							
126	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02	01:03				04:01		
128	2nd field			2nd field			07:01	16:01					02:02	05:02							
130	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01	02:02	01:02	02:01	02:02	05:02	01:03				04:01		
132	2nd field			2nd field			07:01	16:01					02:02	05:02					04:01		
133	2nd field			2nd field			07:01	16:01					02:02	05:02							
141	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02					04:01		
142	2nd field						07:01	16:01													
145	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02					04:01		
147	2nd field	2nd field		2nd field			07:01	16:01	01:01	02:02			02:02	05:02					04:01		
149	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02							
150	2nd field			2nd field			07:01	16:01					02:02	05:02							
156	2nd field			2nd field		2nd field	07:01	16:01					02:02	05:02					04:01		
158	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02					04:01		
164	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02					04:01		
165	2nd field	2nd field	2nd field	2nd field	2nd field	2nd field	07:01	16:01	01:01/03	02:02	01:02	02:01	02:02	05:02	01:03				04:01		
178	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02					04:01		
185	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01/03/06	02:02/06			02:02	05:02					04:01		
196	2nd field		2nd field	2nd field			07:01	16:01			01:02	02:01	02:02	05:02							
223	2nd field		2nd field	2nd field		2nd field	07:01	16:01			01:02	02:01	02:02	05:02					04:01		
225	2nd field			2nd field		2nd field	07:01	16:01					02:02	05:02					04:01		
232	2nd field			2nd field			07:01	16:01					02:02	05:02							
242	2nd field			2nd field			07:01	16:01					02:02	05:02							
245	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02				04:01	04:01		
248	2nd field			2nd field			07:01	16:01					02:02	05:02							
259	2nd field			2nd field			07:01	16:01					02:02	05:02							
260	2nd field			2nd field			07:01	16:01					02:02	05:02							
267	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01/03	02:02			02:02	05:02					04:01		
268	2nd field	2nd field		2nd field		2nd field	07:01	16:01	01:01	02:02			02:02	05:02					04:01		
304	2nd field			2nd field			07:01	16:01					02:02	05:02							
312	2nd field						07:01	16:01					02:02	05:02							