

Project Title : MMS - AMINIDA - PHASE II
Data Package: 4001
Data Table: ORS - Surrogate Corrected

Field ID	Oil Reference Standard	Oil Reference Standard	Oil Reference Standard	Oil Reference Standard				
Lab ID	CC38ORS-1	CC38ORS-2	CC38ORS-1	CC38ORS-2				
Lab Batch	NA	NA	NA	NA				
SDG	ICF4001	ICF4001	ICF3948	ICF3948				
File	07270213.D	07270214.D	05300212.D	06060207.D				
Sample Type	ORS	ORS	ORS	ORS				
Matrix	OIL	OIL	OIL	OIL				
Sample Size	5.02 mg	5.02 mg	5.02 mg	5.02				
Weight Basis	OIL	OIL	OIL	OIL				
Associated Blank	NA	NA	NA	NA				
Field Date	05/16/02	05/16/02	05/16/02	05/16/02				
Extract Date	05/16/02	05/16/02	05/16/02	05/16/02				
Analysis Date	07/27/02	07/27/02	05/30/02	06/06/02				
Date Received	05/16/02	05/16/02	05/16/02	05/16/02				
Percent Solids	NA	NA	NA	NA				
Dilution Factor	1	1	1	1				
Percent Lipids	NA	NA	NA	NA				
Report Method	8015MOD	8015MOD	8015MOD	8015MOD				
Min Reporting Limit	0.199	0.199	0.199	0.199				
Units	ug/mg	ug/mg	ug/mg	ug/mg				
	T	%D Q	T	%D Q				
SHC/TPH								
n-Octane	4.54	4.7 -3.4	4.69	4.7 -0.213	4.7	4.7	0	4.99
n-Nonane	5.41	4.8 12.7	4.65	4.8 -3.12	5.06	4.8	5.42	5.36
n-Decane	4.46	4.2 6.19	3.86	4.2 -8.1	3.93	4.2	-6.43	4.52
n-Undecane	4.6	4.3 6.98	3.67	4.3 -14.6	3.96	4.3	-7.91	4.46
n-Dodecane	4.42	4 10.5	3.66	4 -8.5	3.9	4	-2.5	4.23
n-Tridecane	3.81	4 -4.75	3.28	4 -18	3.66	4	-8.5	3.7
Isoprenoid RRT 1380	1.2	1 20	1.21	1 21	1.35	1	35	1.23
n-Tetradecane	4.66	4.2 11	3.92	4.2 -6.67	4.16	4.2	-0.952	4.57
Isoprenoid RRT 1470	1.43	1.4 2.14	1.33	1.4 -5	1.46	1.4	4.28	1.56
n-Pentadecane	3.59	3.7 -2.97	3.09	3.7 -16.5	3.47	3.7	-6.22	3.57
n-Hexadecane	3.46	3.2 8.12	3.05	3.2 -4.69	3.18	3.2	-0.625	3.63
Isoprenoid RRT 1650	1.58	1.5 5.33	1.54	1.5 2.67	1.57	1.5	4.67	1.58
n-Heptadecane	3.16	3.2 -1.25	2.65	3.2 -17.2	2.86	3.2	-10.6	3.27
Pristane	2.05	2.2 -6.82	2.18	2.2 -0.909	2.02	2.2	-8.18	2.23
n-Octadecane	2.99	2.9 3.1	2.67	2.9 -7.93	2.58	2.9	-11	2.89
Phytane	1.46	1.6 -8.75	1.47	1.6 -8.12	1.37	1.6	-14.4	1.46
n-Nonadecane	2.4	2.6 -7.69	2.51	2.6 -3.46	2.33	2.6	-10.4	2.52
n-Eicosane	2.29	2.7 -15.2	2.7	2.7 0	2.51	2.7	-7.04	2.36
n-Heneicosane	2.09	2.4 -12.9	2.25	2.4 -6.25	2.16	2.4	-10	2.19
n-Docosane	2.14	2.2 -2.73	2.17	2.2 -1.36	2.28	2.2	3.64	2.23
n-Tricosane	2	2 0	2.13	2 6.5	2.08	2	4	2.03
n-Tetracosane	1.98	2 -1	1.86	2 -7	1.89	2	-5.5	1.9
n-Pentacosane	1.71	1.7 0.588	1.7	1.7 0	1.69	1.7	-0.588	1.73
n-Hexacosane	1.49	1.5 -0.667	1.47	1.5 -2	1.5	1.5	0	1.54
n-Heptacosane	1.05	1.2 -12.5	1.12	1.2 -6.67	1.15	1.2	-4.17	1.07
n-Octacosane	0.892	0.88 1.36	0.881	0.88 0.114	0.924	0.88	5	0.93
n-Nonacosane	0.771	0.81 -4.81	0.816	0.81 0.741	0.817	0.81	0.864	0.743
n-Triacontane	0.629	0.65 -3.23	0.676	0.65 4	0.709	0.65	9.08	0.665
n-Hentriacontane	0.538	0.58 -7.24	0.734	0.58 26.6	0.775	0.58	33.6	0.584
n-Dotriacontane	0.347	0.44 -21.1	0.396	0.44 -10	0.42	0.44	-4.54	0.396
n-Tritriacontane	0.387	0.4 -3.25	0.344	0.4 -14	0.382	0.4	-4.5	0.447
n-Tetraatriacontane	0.415	0.35 18.6	0.33	0.35 -5.71	0.37	0.35	5.71	0.446
n-Pentatriacontane	0.402	0.35 14.8	0.38	0.35 8.57	0.438	0.35	25.1	0.417
n-Hexatriacontane	0.202	0.23 -12.2	0.259	0.23 12.6	0.298	0.23	29.6	0.22
n-Heptatriacontane	0.203	0.23 -11.7	0.202	0.23 -12.2	0.241	0.23	4.78	0.228
n-Octatriacontane	0.189 J	0.22 -14.1	0.192 J	0.22 -12.7	0.232	0.22	5.45	0.223
n-Tetracontane	0.144 J	0.19 -24.2	0.153 J	0.19 -19.5	0.193 J	0.19	1.58	0.17
TPH (RES)	193	220 -12.3	174	220 -20.9	182	220	-17.3	190
TPH	621	660 -5.91	586	660 -11.2	629			623
%5A-androstane	111		104		103			105
%d50-tetracosane	112		106		100			103

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Field ID	Oil Reference Standard			Oil Reference Standard			Oil Reference Standard												
	Lab ID	Lab Batch	SDG	File	Sample Type	Matrix	Sample Size	Weight Basis	Associated Blank	Field Date	Extract Date	Analysis Date	Date Received	Percent Solids	Dilution Factor	Percent Lipids	Report Method		
	CC38ORS-1	NA	ICF3999	07240213.D	ORS	OIL	5.02 mg	OIL	NA	05/16/02	05/16/02	07/24/02	05/16/02	NA	1	NA	8015MOD		
	CC38ORS-2	NA	ICF3999	07240214.D	ORS	OIL	5.02 mg	OIL	NA	05/16/02	05/16/02	07/24/02	05/16/02	NA	1	NA	8015MOD		
	CC38ORS	NA	ICF3945	05300211.D	ORS	OIL	5.02 mg	OIL	NA	05/16/02	05/16/02	05/30/02	05/16/02	NA	1	NA	8015MOD		
Min Reporting Limit	0.199			0.199			0.199												
Units	T	%D	Q	ug/mg	T	%D	Q	ug/mg	T	%D	Q	ug/mg	T	%D	Q	ug/mg	T	%D	Q
SHC/TPH																			
n-Octane	4.7	6.17		4.96	4.7	5.53		4.29	4.7	-8.72		4.63	4.7	-1.49					
n-Nonane	4.8	11.7		5.5	4.8	14.6		4.74	4.8	-1.25		5.28	4.8	10					
n-Decane	4.2	7.62		4.48	4.2	6.67		3.94	4.2	-6.19		4.48	4.2	6.67					
n-Undecane	4.3	3.72		4.51	4.3	4.88		3.74	4.3	-13		4.3	4.3	0					
n-Dodecane	4	5.75		4.47	4	11.7		3.71	4	-7.25		4.26	4	6.5					
n-Tridecane	4	-7.5		3.85	4	-3.75		3.3	4	-17.5		3.67	4	-8.25					
Isoprenoid RRT 1380	1	23		1.26	1	26		1.19	1	19		1.2	1	20					
n-Tetradecane	4.2	8.81		4.58	4.2	9.05		3.98	4.2	-5.24		4.42	4.2	5.24					
Isoprenoid RRT 1470	1.4	11.4		1.63	1.4	16.4		1.35	1.4	-3.57		1.58	1.4	12.8					
n-Pentadecane	3.7	-3.51		3.6	3.7	-2.7		3.28	3.7	-11.4		3.5	3.7	-5.4					
n-Hexadecane	3.2	13.4		3.42	3.2	6.87		3.06	3.2	-4.38		3.43	3.2	7.19					
Isoprenoid RRT 1650	1.5	5.33		1.58	1.5	5.33		1.57	1.5	4.67		1.58	1.5	5.33					
n-Heptadecane	3.2	2.19		3.01	3.2	-5.94		2.71	3.2	-15.3		3.12	3.2	-2.5					
Pristane	2.2	1.36		2.16	2.2	-1.82		2.22	2.2	0.909		2.03	2.2	-7.73					
n-Octadecane	2.9	-0.345		2.88	2.9	-0.69		2.72	2.9	-6.21		2.88	2.9	-0.69					
Phytane	1.6	-8.75		1.33	1.6	-16.9		1.51	1.6	-5.62		1.39	1.6	-13.1					
n-Nonadecane	2.6	-3.08		2.34	2.6	-10		2.75	2.6	5.77		2.46	2.6	-5.38					
n-Eicosane	2.7	-12.6		2.23	2.7	-17.4		2.72	2.7	0.741		2.34	2.7	-13.3					
n-Heneicosane	2.4	-8.75		2.1	2.4	-12.5		2.26	2.4	-5.83		2.15	2.4	-10.4					
n-Docosane	2.2	1.36		2.16	2.2	-1.82		2.21	2.2	0.454		2.23	2.2	1.36					
n-Tricosane	2	1.5		2.03	2	1.5		1.98	2	-1		2.11	2	5.5					
n-Tetracosane	2	-5		1.97	2	-1.5		1.88	2	-6		1.9	2	-5					
n-Pentacosane	1.7	1.76		1.76	1.7	3.53		1.7	1.7	0		1.73	1.7	1.76					
n-Hexacosane	1.5	2.67		1.57	1.5	4.67		1.48	1.5	-1.33		1.54	1.5	2.67					
n-Heptacosane	1.2	-10.8		1.08	1.2	-10		1.1	1.2	-8.33		1.08	1.2	-10					
n-Octacosane	0.88	5.68		0.96	0.88	9.09		0.92	0.88	4.54		0.942	0.88	7.04					
n-Nonacosane	0.81	-8.27		0.755	0.81	-6.79		0.829	0.81	2.34		0.792	0.81	-2.22					
n-Triacontane	0.65	2.31		0.677	0.65	4.15		0.658	0.65	1.23		0.675	0.65	3.85					
n-Hentriacontane	0.58	0.69		0.577	0.58	-0.517		0.762	0.58	31.4		0.602	0.58	3.79					
n-Dotriacontane	0.44	-10		0.399	0.44	-9.32		0.386	0.44	-12.3		0.414	0.44	-5.91					
n-Tritriacontane	0.4	11.7		0.443	0.4	10.7		0.358	0.4	-10.5		0.46	0.4	15					
n-Tetracontane	0.35	27.4		0.431	0.35	23.1		0.36	0.35	2.86		0.459	0.35	31.1					
n-Pentatriacontane	0.35	19.1		0.42	0.35	20		0.401	0.35	14.6		0.451	0.35	28.8					
n-Hexatriacontane	0.23	-4.35		0.242	0.23	5.22		0.264	0.23	14.8		0.251	0.23	9.13					
n-Heptatriacontane	0.23	-0.87		0.226	0.23	-1.74		0.224	0.23	-2.61		0.246	0.23	6.96					
n-Octatriacontane	0.22	1.36		0.218	0.22	-0.909		0.205	0.22	-6.82		0.248	0.22	12.7					
n-Tetracontane	J	0.19	-10.5	0.178	J	0.19	-6.32	0.16	J	0.19	-15.8	0.185	J	0.19	-2.63				
TPH (RES)		220	-13.6	196		220	-10.9	172		220	-21.8	192		220	-12.7				
TPH		660	-5.61	647		660	-1.97	597		660	-9.54	628		660	-4.85				
%5A-androstane				106				102				106							
%d50-tetracosane				103				102				102							