

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053033.D
 Acq On : 20 Dec 2018 1:56
 Operator : MD\SY
 Sample : J6411-09 10X
 Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 40 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-SBR-3A(17-18FT)1218

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Title : SW846 8260

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.590	1788	1809	1820	rBV	673712	1677494	2.35%	0.250%
2	7.667	1820	1833	1852	rVB	1489301	3578211	5.02%	0.534%
3	8.027	1925	1945	1974	rBV	769229	1798023	2.52%	0.268%
4	8.587	2101	2119	2144	rBV	2150976	4465752	6.26%	0.666%
5	9.728	2462	2474	2498	rVB2	332857	803702	1.13%	0.120%
6	10.091	2572	2587	2613	rVB	3932239	7773400	10.90%	1.159%
7	10.432	2685	2693	2710	rVB2	493675	916892	1.29%	0.137%
8	10.625	2745	2753	2763	rVB	448588	720768	1.01%	0.107%
9	10.718	2763	2782	2794	rBV	2012920	3359219	4.71%	0.501%
10	10.821	2800	2814	2826	rBV	1082898	2226990	3.12%	0.332%
11	10.885	2826	2834	2842	rVV4	587448	1028327	1.44%	0.153%
12	10.950	2846	2854	2862	rVV	2010204	3403127	4.77%	0.507%
13	11.004	2862	2871	2882	rVV2	3662659	6638775	9.31%	0.990%
14	11.123	2896	2908	2916	rBV5	2480105	4581380	6.42%	0.683%
15	11.194	2916	2930	2950	rVB5	4145031	11660173	16.35%	1.739%
16	11.300	2950	2963	2984	rBV	6873169	12200223	17.11%	1.819%
17	11.406	2985	2996	3015	rBV	3040379	5854604	8.21%	0.873%
18	11.503	3015	3026	3031	rBV4	523269	1102018	1.55%	0.164%
19	11.541	3032	3038	3044	rVV	1140850	1534875	2.15%	0.229%
20	11.602	3045	3057	3065	rVV6	2770809	8558337	12.00%	1.276%
21	11.654	3067	3073	3081	rVV2	6134125	11238080	15.76%	1.676%
22	11.699	3081	3087	3097	rVB3	4438578	7286892	10.22%	1.087%
23	11.760	3097	3106	3112	rBV3	1202297	2177044	3.05%	0.325%
24	11.853	3127	3135	3143	rVB4	2485850	3870173	5.43%	0.577%
25	11.924	3143	3157	3169	rBV5	8670142	20992635	29.44%	3.131%
26	11.982	3170	3175	3179	rBV2	1071255	1192301	1.67%	0.178%
27	12.046	3187	3195	3203	rVB	14858223	20483944	28.72%	3.055%
28	12.120	3210	3218	3223	rBV4	7493244	12139774	17.02%	1.810%
29	12.162	3224	3231	3249	rVB5	15283616	29955541	42.01%	4.467%
30	12.297	3266	3273	3279	rBV7	4937188	9341628	13.10%	1.393%
31	12.336	3280	3285	3296	rVB	15763004	23642700	33.15%	3.526%
32	12.406	3296	3307	3315	rBV6	4291613	8591838	12.05%	1.281%
33	12.455	3316	3322	3324	rBV5	1137934	1332481	1.87%	0.199%
34	12.564	3348	3356	3371	rVB3	11832707	27539455	38.62%	4.107%

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35	12.654	3372	3384	3390	rBV6	11584478	22626500	31.73%	3.374%
36	12.731	3391	3408	3417	rVV5	26200602	71313533	100.00%	10.635%
37	12.779	3418	3423	3434	rVB3	9138237	14607239	20.48%	2.178%
38	12.869	3444	3451	3458	rBV3	4687480	7168410	10.05%	1.069%
39	12.963	3473	3480	3493	rVB2	17976549	29866429	41.88%	4.454%
40	13.040	3494	3504	3514	rBV2	38033153	62577652	87.75%	9.332%
41	13.168	3531	3544	3552	rVB5	5275493	12412746	17.41%	1.851%
42	13.239	3553	3566	3574	rBV4	18281448	35680361	50.03%	5.321%
43	13.374	3601	3608	3626	rVB	15548457	25902363	36.32%	3.863%
44	13.541	3654	3660	3667	rVB2	7242571	9928476	13.92%	1.481%
45	13.586	3667	3674	3689	rVB4	9085978	17695453	24.81%	2.639%
46	13.664	3689	3698	3708	rBV6	9393266	16679923	23.39%	2.487%
47	13.712	3709	3713	3720	rVB3	2860389	3453593	4.84%	0.515%
48	13.802	3736	3741	3745	rBV3	2749882	3562134	5.00%	0.531%
49	13.834	3746	3751	3761	rVV4	5542524	8828399	12.38%	1.317%
50	13.889	3762	3768	3778	rVB	7374910	11618882	16.29%	1.733%
51	13.995	3792	3801	3811	rVB2	7248576	11993472	16.82%	1.789%
52	14.053	3811	3819	3822	rBV2	1635788	2557164	3.59%	0.381%
53	14.178	3849	3858	3865	rBV5	3295538	6480688	9.09%	0.966%
54	14.249	3874	3880	3888	rVB	3958570	5628212	7.89%	0.839%
55	14.297	3888	3895	3900	rVV3	1959162	2677978	3.76%	0.399%
56	14.332	3900	3906	3921	rVB3	3061032	4468260	6.27%	0.666%
57	14.432	3932	3937	3945	rVB2	1473785	2067968	2.90%	0.308%
58	14.477	3945	3951	3960	rVV4	747142	1716750	2.41%	0.256%
59	14.525	3961	3966	3973	rVB2	1392540	1901174	2.67%	0.284%
60	14.583	3974	3984	3997	rBV2	4481393	8521364	11.95%	1.271%
61	14.647	3997	4004	4014	rVB2	856634	1381779	1.94%	0.206%
62	14.741	4026	4033	4042	rVB	1068096	1552269	2.18%	0.231%
63	14.850	4061	4067	4073	rBV5	525638	744472	1.04%	0.111%
64	14.956	4092	4100	4118	rVB3	613474	1295181	1.82%	0.193%

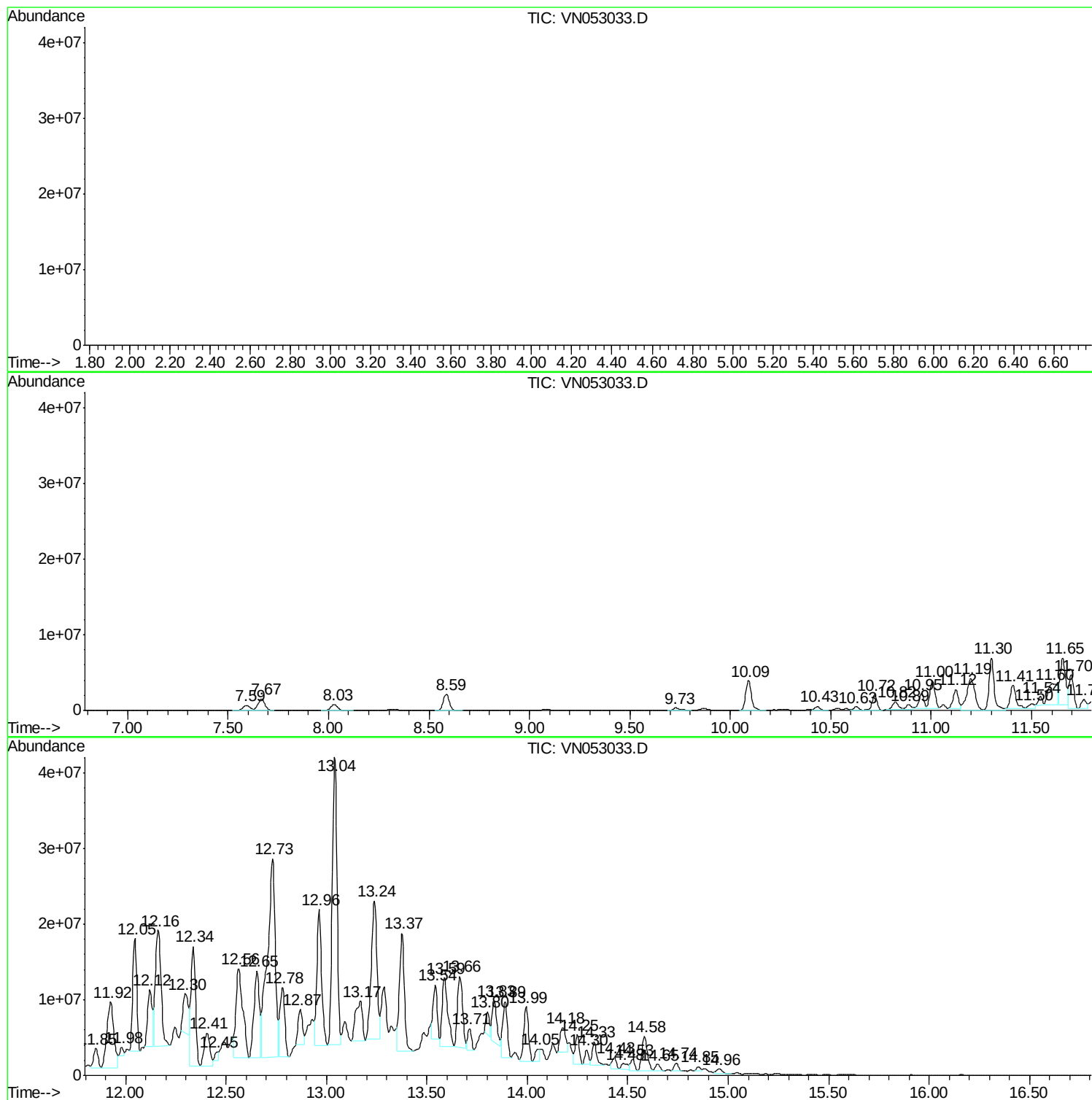
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EP1-SBR-3A(17-18FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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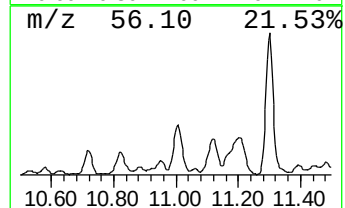
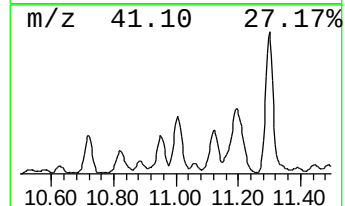
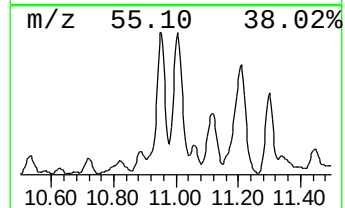
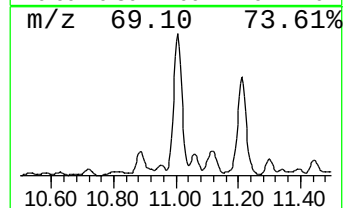
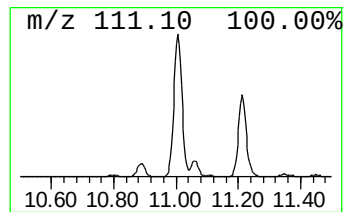
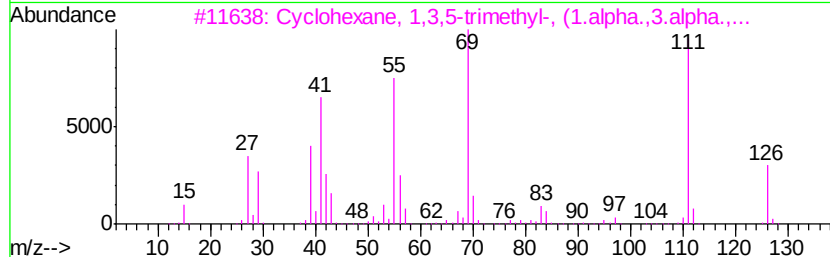
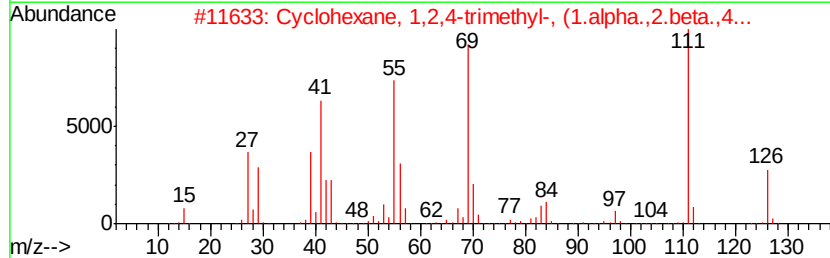
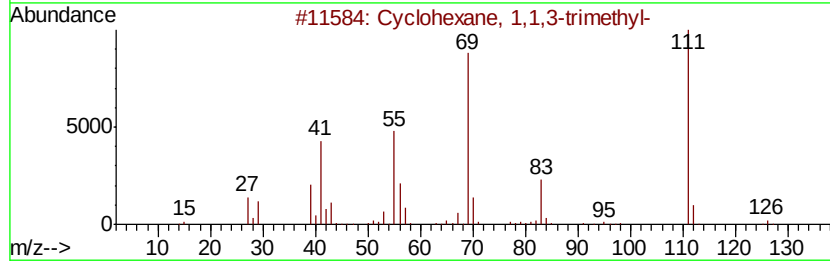
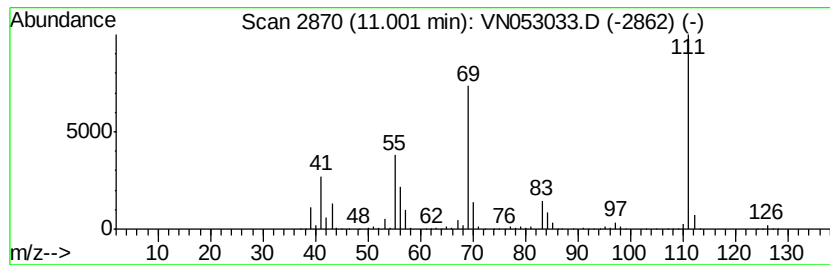
Instrument :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.00	56.70 ug/l	6638780	Chlorobenzene-d5	11.41	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	78
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	64
4	6-Methyl-hept-2-yn-4-ol	126	C8H14O	060018-69-1	59
5	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	59



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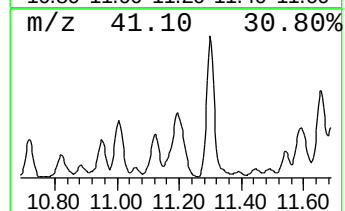
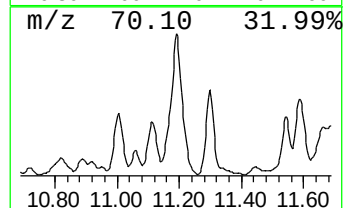
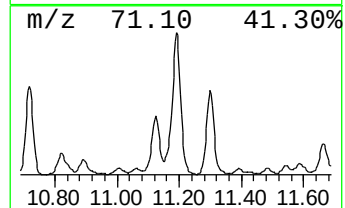
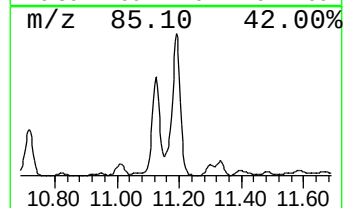
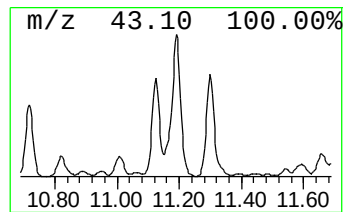
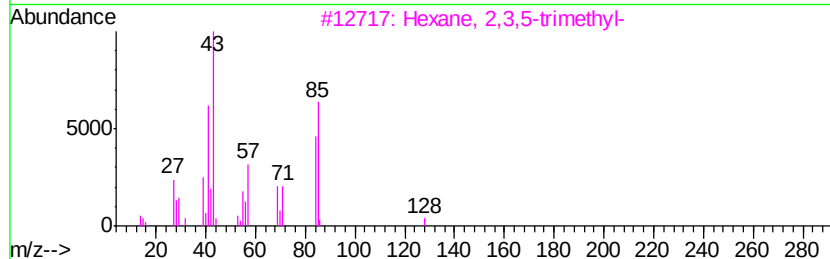
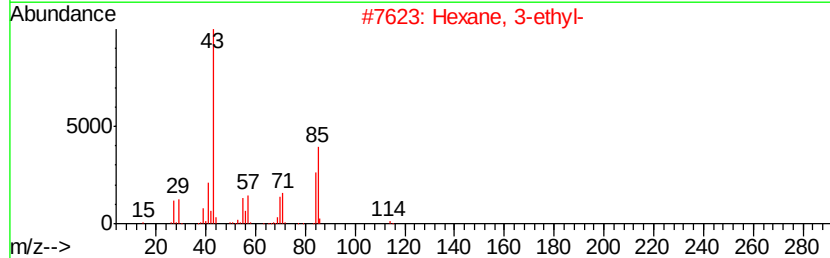
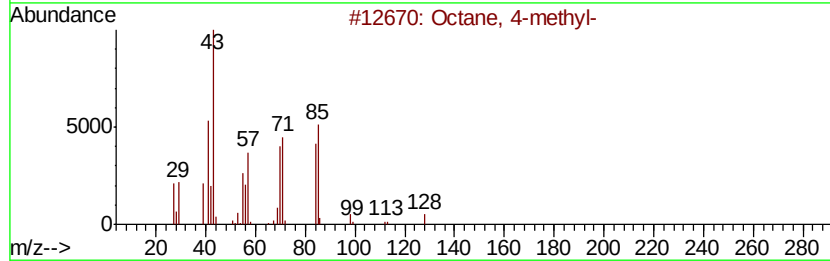
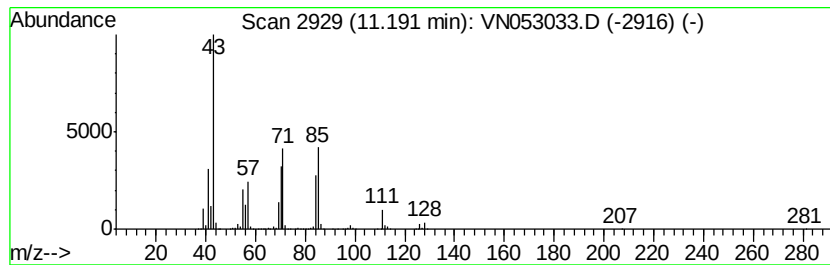
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Peak Number 2 Octane, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	99.58 ug/l	11660200	Chlorobenzene-d5	11.41
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Octane, 4-methyl-	128 C9H20	002216-34-4	87
2	Hexane, 3-ethyl-	114 C8H18	000619-99-8	64
3	Hexane, 2,3,5-trimethyl-	128 C9H20	001069-53-0	60
4	Dodecane, 5-methyl-	184 C13H28	017453-93-9	59
5	Ether, hexyl pentyl	172 C11H24O	032357-83-8	59



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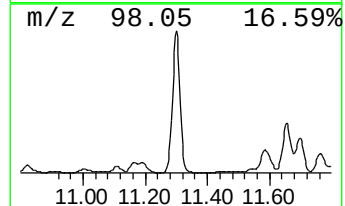
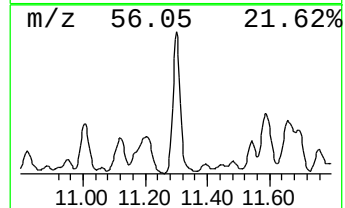
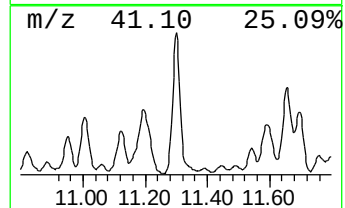
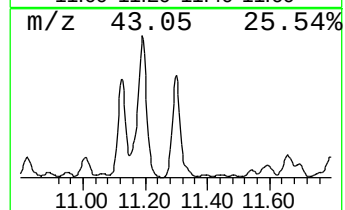
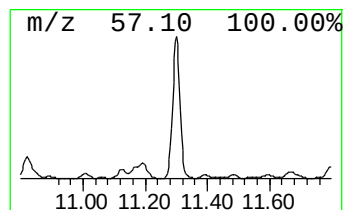
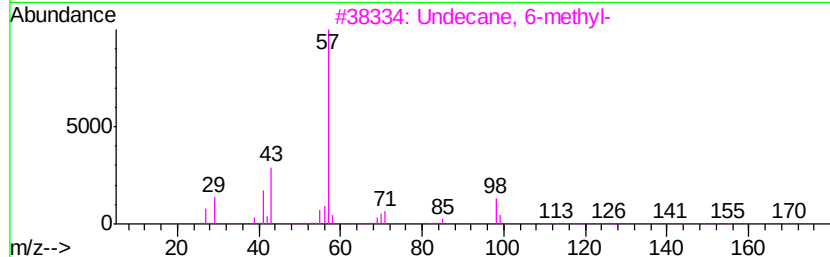
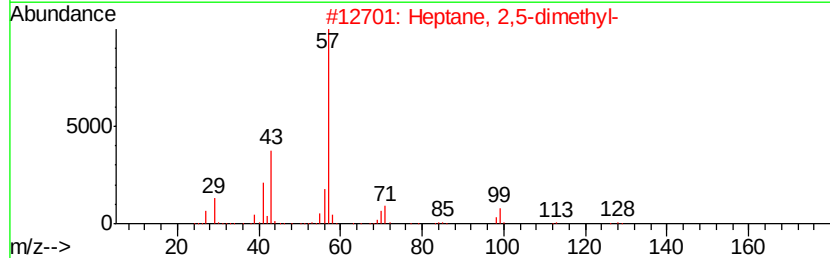
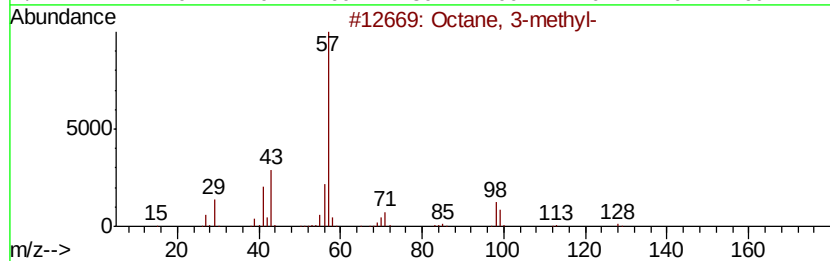
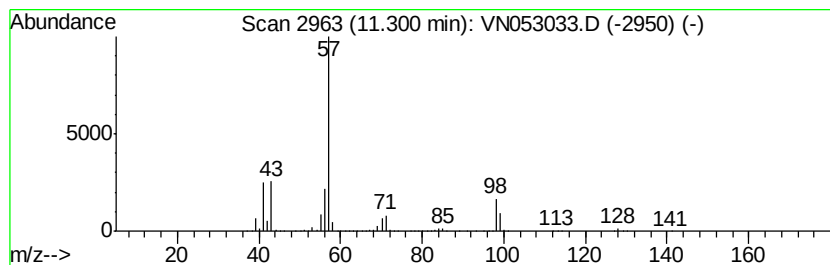
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Peak Number 3 Octane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	104.19 ug/l	12200200	Chlorobenzene-d5	11.41
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Octane, 3-methyl-	128 C9H20	002216-33-3	91
2	Heptane, 2,5-dimethyl-	128 C9H20	002216-30-0	80
3	Undecane, 6-methyl-	170 C12H26	017302-33-9	53
4	Oxalic acid, isobutyl heptyl ester	244 C13H24O4	1000309-37-2	53
5	Butane, 2,2,3,3-tetramethyl-	114 C8H18	000594-82-1	50



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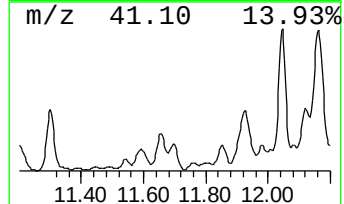
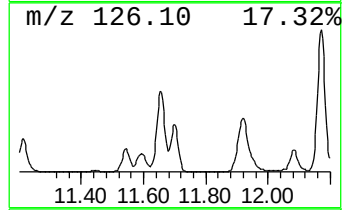
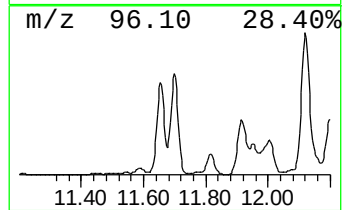
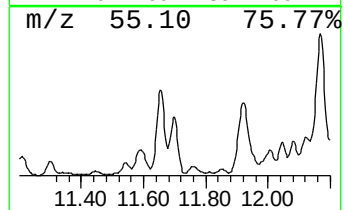
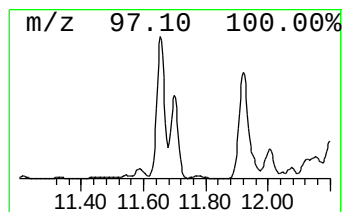
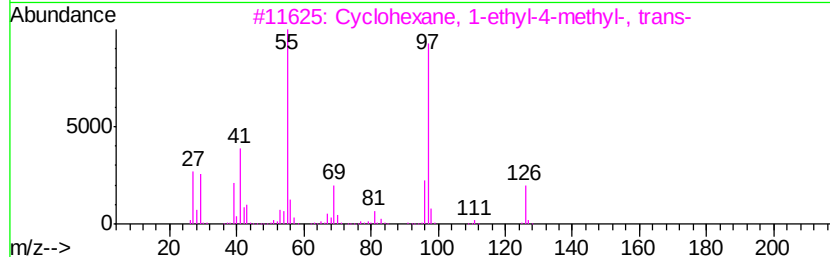
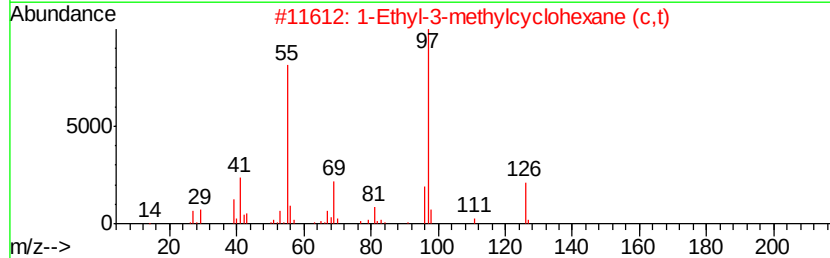
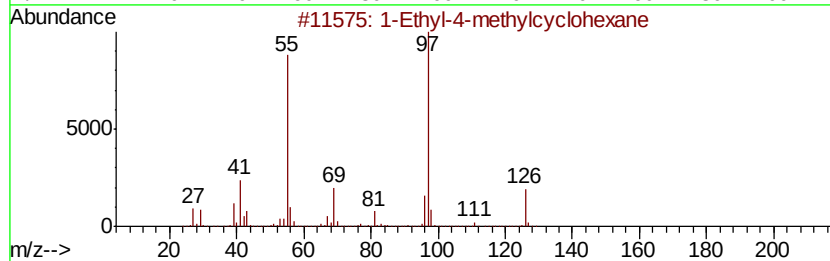
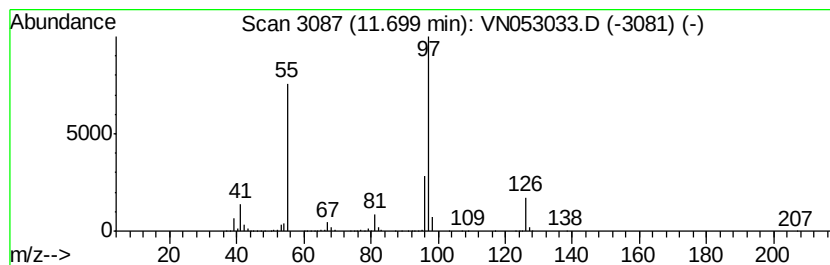
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Peak Number 4 1-Ethyl-4-methylcyclohexane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	62.23 ug/l	7286890	Chlorobenzene-d5	11.41

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	86
2		1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	80
3		Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	72
4		Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	72
5		Cyclohexane, 1-bromo-4-methyl-	176	C7H13Br	006294-40-2	64



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
EP1-SBR-3A(17-18FT)1218

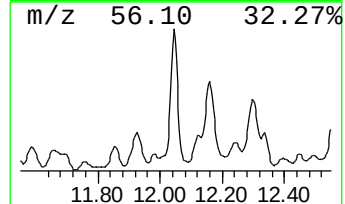
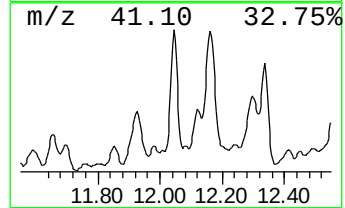
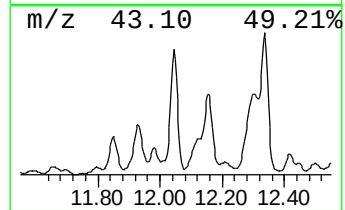
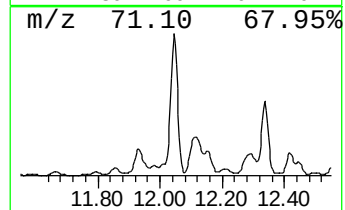
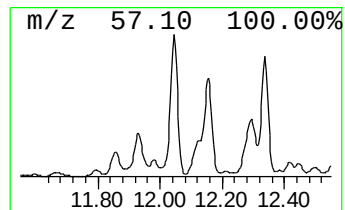
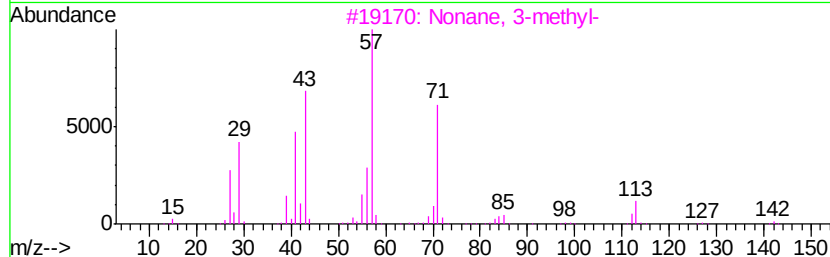
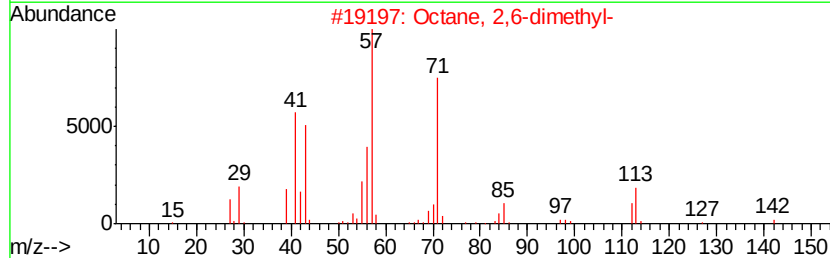
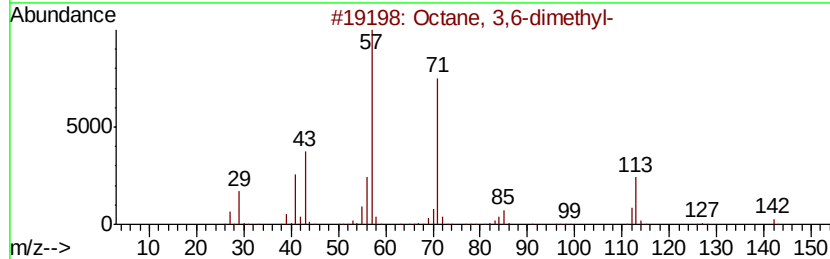
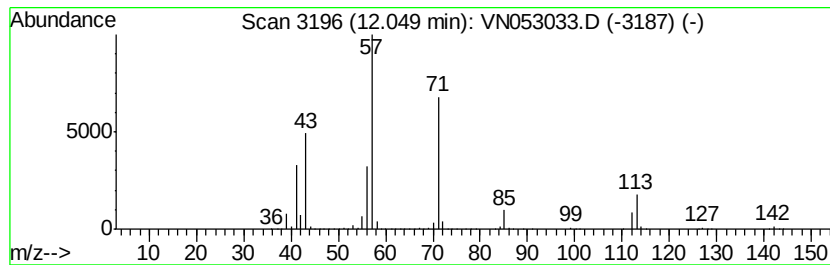
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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Octane, 3,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	174.94 ug/l	20483900	Chlorobenzene-d5	11.41

Hit# of	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	91
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	91
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	91
4	Nonane, 4-methyl-5-propyl-	184	C13H28	062185-55-1	59
5	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	59



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
EP1-SBR-3A(17-18FT)1218

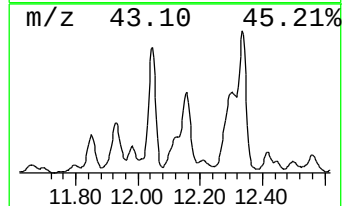
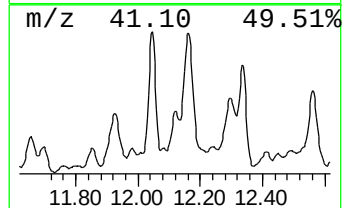
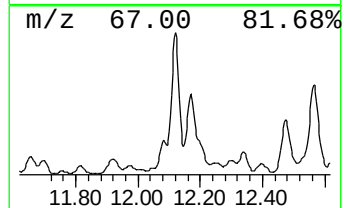
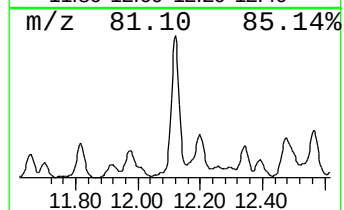
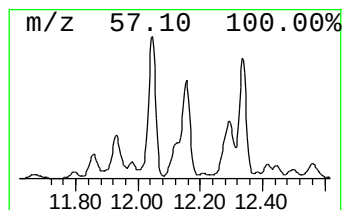
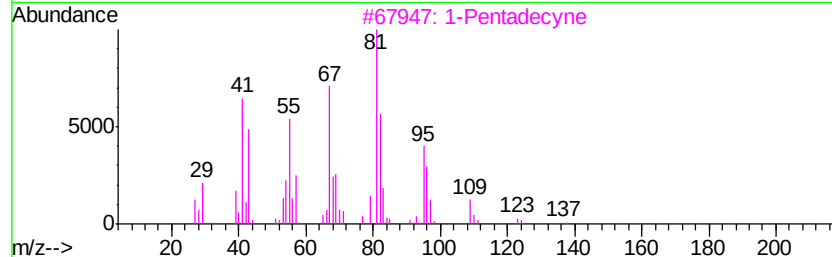
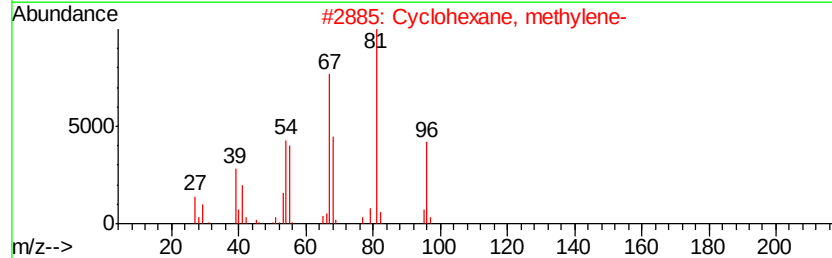
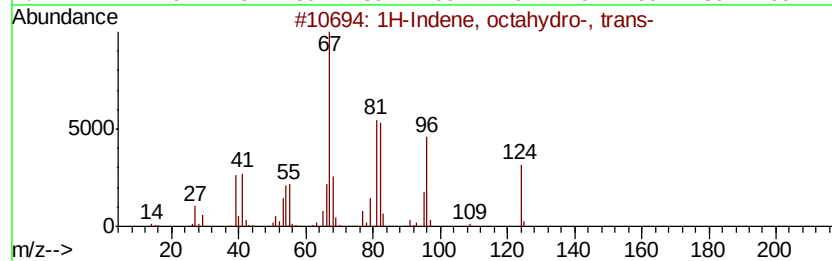
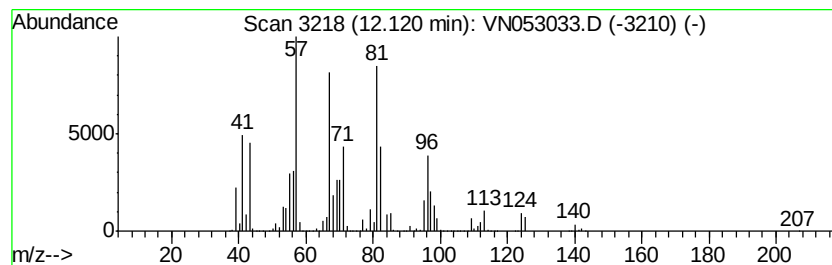
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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 1H-Indene, octahydro-, trans- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	103.68 ug/l	12139800	Chlorobenzene-d5	11.41

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	49
2		Cyclohexane, methylene-	96	C7H12	001192-37-6	49
3		1-Pentadecyne	208	C15H28	000765-13-9	46
4		Bicyclo[3.3.1]nonane	124	C9H16	000280-65-9	43
5		2-Butenenitrile, 2-amino-3-methyl-	96	C5H8N2	1000196-28-0	30



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

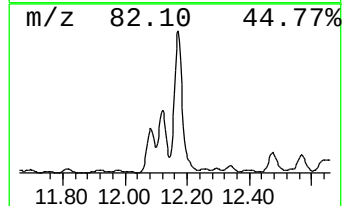
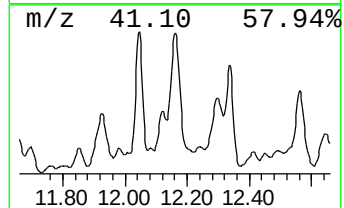
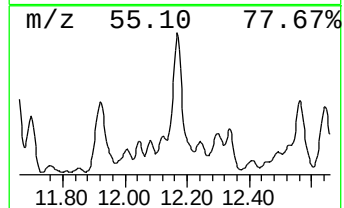
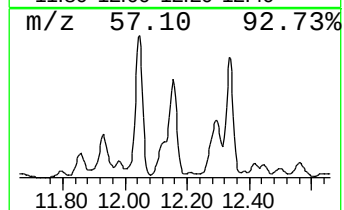
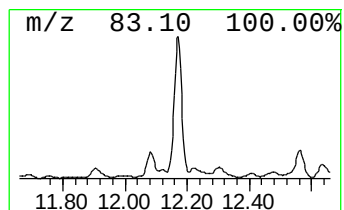
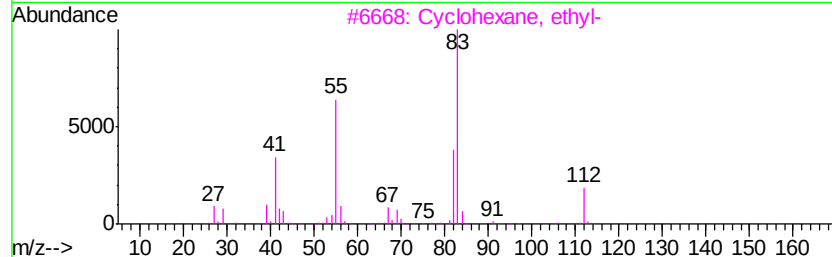
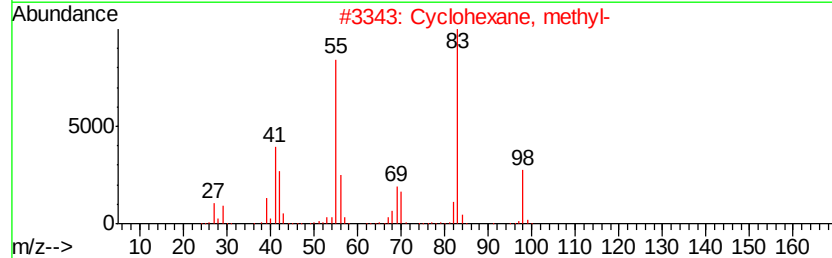
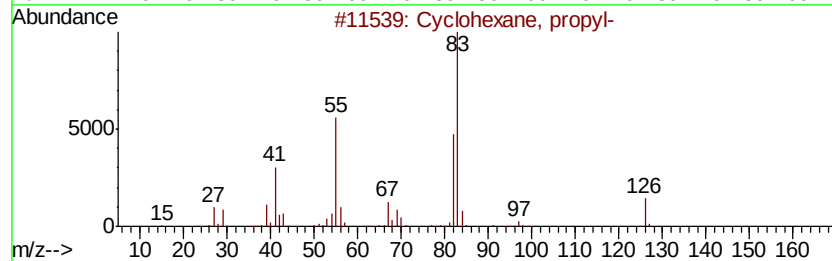
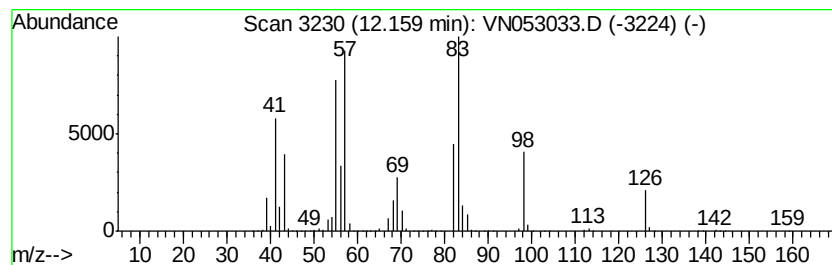
Instrument :
MSVOA_N
ClientSampleId :
EP1-SBR-3A(17-18FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Cyclohexane, propyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.16	255.83 ug/l	29955500	Chlorobenzene-d5	11.41		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, propyl-	126	C9H18	001678-92-8	68
2		Cyclohexane, methyl-	98	C7H14	000108-87-2	58
3		Cyclohexane, ethyl-	112	C8H16	001678-91-7	50
4		Cyclohexane, decyl-	224	C16H32	001795-16-0	50
5		2-Butyl-.delta.1-pyrroline	125	C8H15N	064319-86-4	50



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

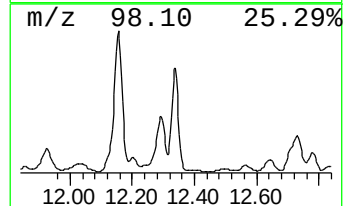
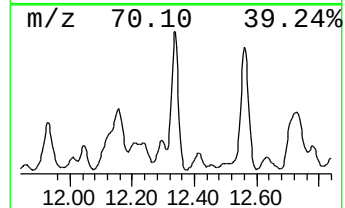
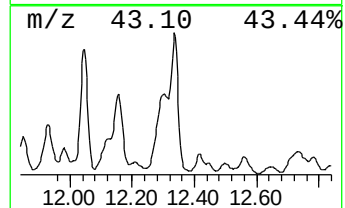
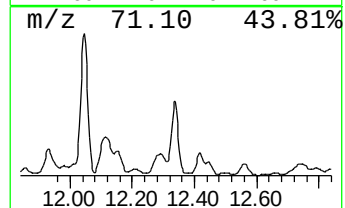
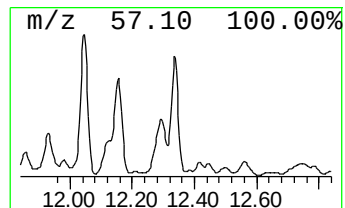
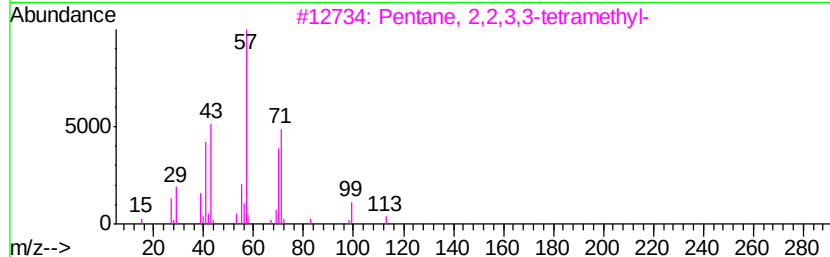
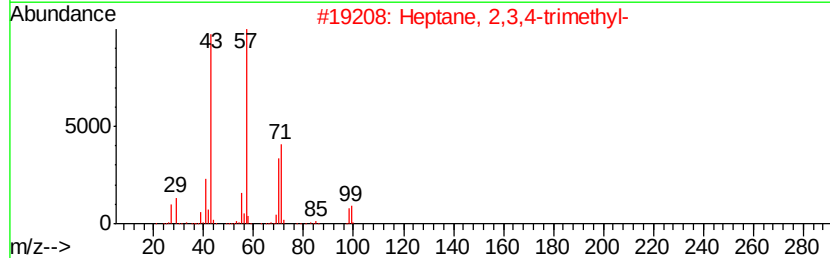
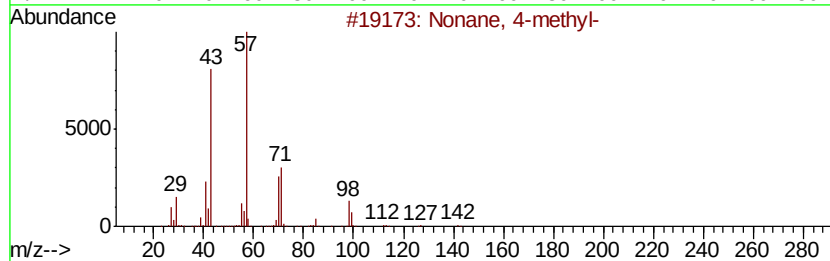
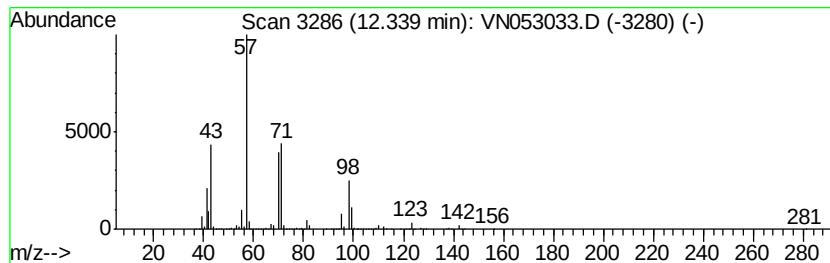
Instrument :
MSVOA_N
ClientSampleId :
EP1-SBR-3A(17-18FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Nonane, 4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.34	201.92 ug/l	23642700	Chlorobenzene-d5	11.41		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4-methyl-		142	C10H22	017301-94-9	86
2	Heptane, 2,3,4-trimethyl-		142	C10H22	052896-95-4	64
3	Pentane, 2,2,3,3-tetramethyl-		128	C9H20	007154-79-2	59
4	Decane, 2,5,9-trimethyl-		184	C13H28	062108-22-9	43
5	Octane, 3,5-dimethyl-		142	C10H22	015869-93-9	43



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

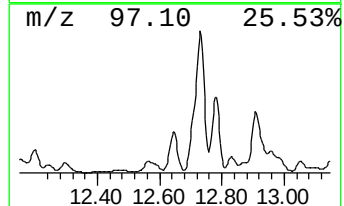
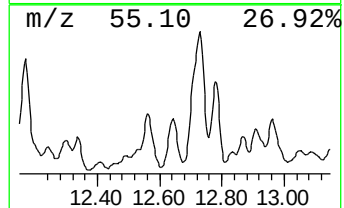
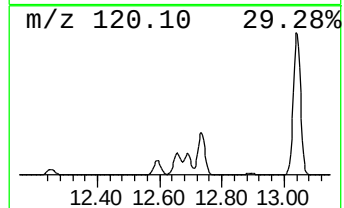
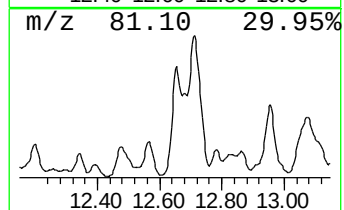
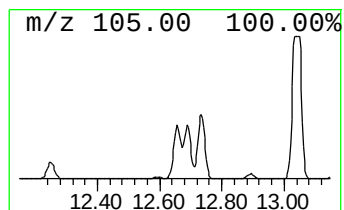
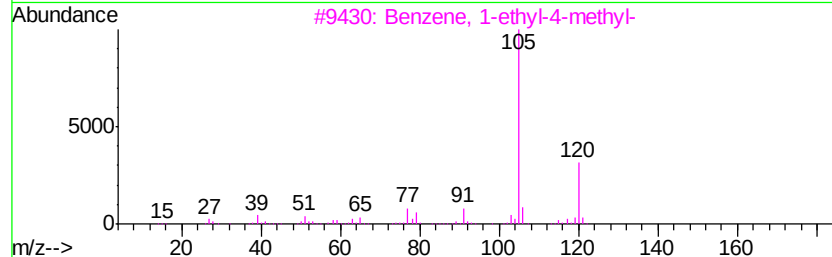
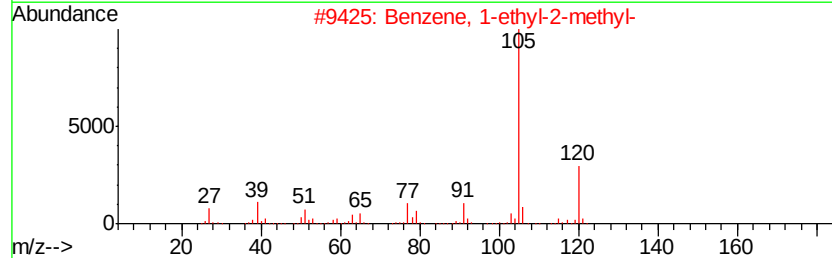
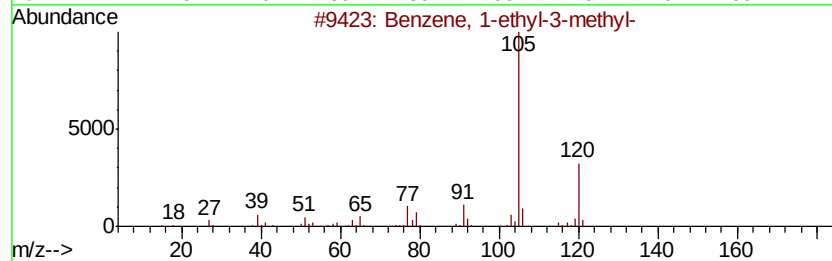
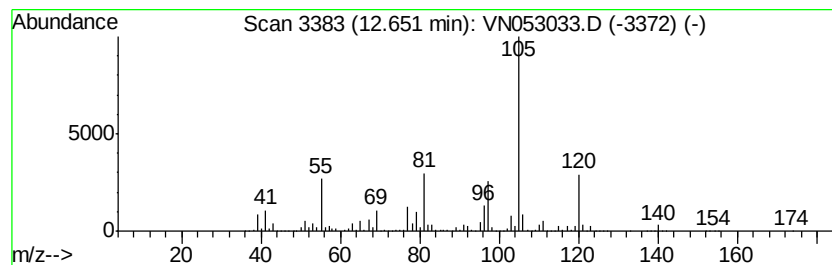
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ClientSampleId :
EP1-SBR-3A(17-18FT)1218

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Benzene, 1-ethyl-3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	43.68 ug/l	22626500	1,4-Dichlorobenzene-d4	13.35
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Benzene, 1-ethyl-3-methyl-	120 C9H12	000620-14-4 86
2		Benzene, 1-ethyl-2-methyl-	120 C9H12	000611-14-3 86
3		Benzene, 1-ethyl-4-methyl-	120 C9H12	000622-96-8 70
4		Mesitylene	120 C9H12	000108-67-8 70
5		Benzene, (1-methylethyl)-	120 C9H12	000098-82-8 70



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07µ/5.0mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

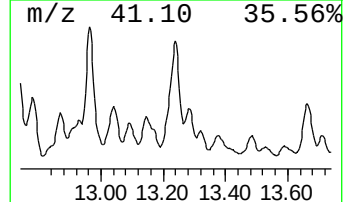
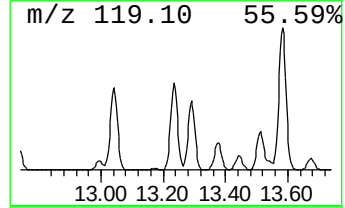
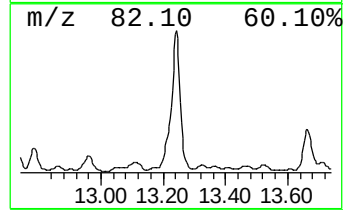
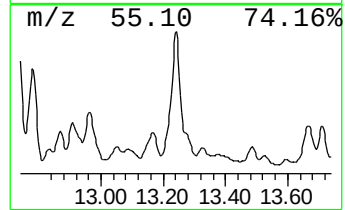
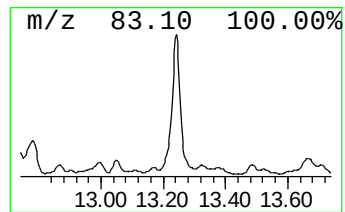
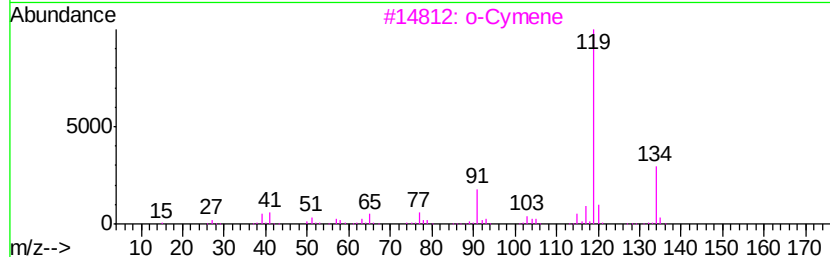
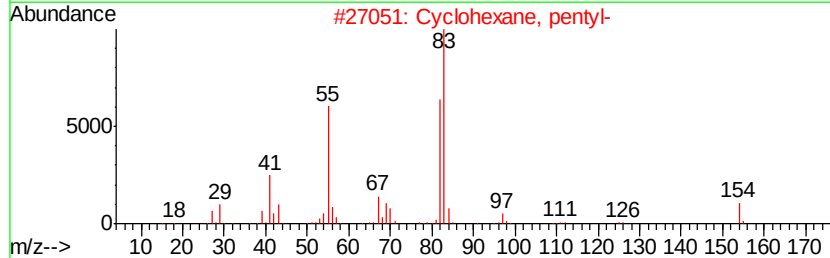
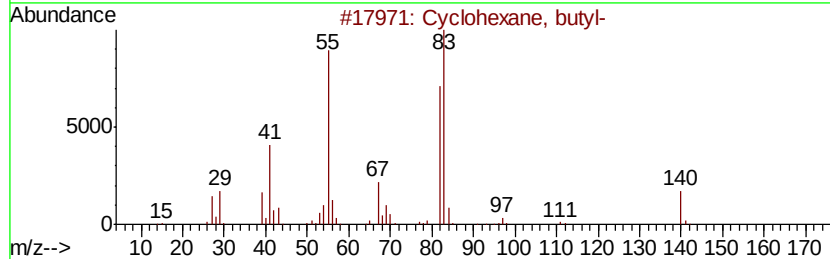
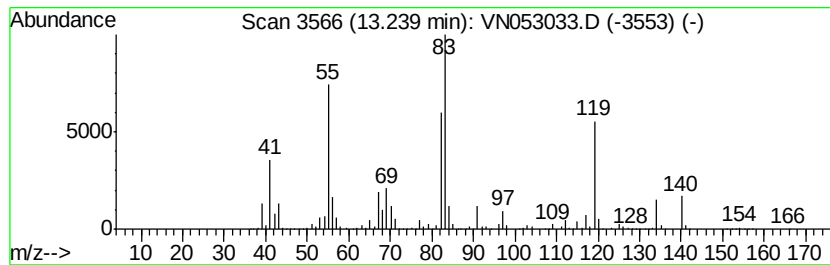
Instrument :
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ClientSampleId :
EP1-SBR-3A(17-18FT)1218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Cyclohexane, butyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.24	68.87 ug/l	35680400	1,4-Dichlorobenzene-d4	13.35	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	70
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	64
3	o-Cymene	134	C10H14	000527-84-4	59
4	p-Cymene	134	C10H14	000099-87-6	59
5	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	58



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121918\
Data File : VN053033.D
Acq On : 20 Dec 2018 1:56
Operator : MD\SY
Sample : J6411-09 10X
Misc : 6.07g/5.0mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 40 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
EP1-SBR-3A(17-18FT)1218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Cyclohexane, 1,1,...	11.00	56.7	ug/l	6638780	3	11.41	5854600	50.0
Octane, 4-methyl-	11.19	99.6	ug/l	11660200	3	11.41	5854600	50.0
Octane, 3-methyl-	11.30	104.2	ug/l	12200200	3	11.41	5854600	50.0
1-Ethyl-4-methylc...	11.70	62.2	ug/l	7286890	3	11.41	5854600	50.0
Octane, 3,6-dimet...	12.05	174.9	ug/l	20483900	3	11.41	5854600	50.0
1H-Indene, octahy...	12.12	103.7	ug/l	12139800	3	11.41	5854600	50.0
Cyclohexane, propyl-	12.16	255.8	ug/l	29955500	3	11.41	5854600	50.0
Nonane, 4-methyl-	12.34	201.9	ug/l	23642700	3	11.41	5854600	50.0
Benzene, 1-ethyl-...	12.65	43.7	ug/l	22626500	4	13.35	25902400	50.0
Cyclohexane, butyl-	13.24	68.9	ug/l	35680400	4	13.35	25902400	50.0