

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070035.D
 Acq On : 13 Dec 2021 16:29
 Operator : JC/MD
 Sample : M4914-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SEMI-ANNUAL-CONDENSATE

Quant Time: Dec 14 05:27:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/14/2021
 Supervised By :Amit Patel 12/15/2021

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.659	128	166626	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	903414	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.744	117	794042	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	443025	30.002	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.731	95	365993	28.012	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.367%			
63) Toluene-d8	10.443	98	1096176	29.873	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.567%			
Target Compounds						
					Qvalue	
15) Acetone	4.290	58	356574	145.349	ug/l	77
16) Carbon Disulfide	4.535	76	15847m	0.553	ug/l	
23) tert-Butyl Alcohol	5.323	59	225921	105.710	ug/l	# 100
25) Chloroform	7.820	83	715236	33.353	ug/l	99
30) 2-Butanone	7.337	43	2375232	221.938	ug/l	# 89
34) Benzene	8.461	78	415228	9.029	ug/l	# 88
41) Bromodichloromethane	9.762	83	55015	3.217	ug/l	99
58) 4-Methyl-2-Pentanone	10.333	43	125868	6.906	ug/l	# 92
62) Toluene	10.505	91	1384193	29.641	ug/l	98
64) Chlorobenzene	11.771	112	62322	2.249	ug/l	98
66) Ethyl Benzene	11.846	91	587025	11.307	ug/l	100
67) m/p-Xylenes	11.950	106	242142	12.766	ug/l	93
68) o-Xylene	12.280	106	124931	6.657	ug/l	92
70) Isopropylbenzene	12.578	105	81980	1.665	ug/l	100
74) n-propylbenzene	12.921	91	61501	1.078	ug/l	99
76) 1,3,5-Trimethylbenzene	13.058	105	156792	3.876	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	351889	8.995	ug/l	# 82
81) sec-Butylbenzene	13.503	105	30417	0.621	ug/l	62
82) p-Isopropyltoluene	13.616	119	2664185	68.257	ug/l	97
84) 1,4-Dichlorobenzene	13.696	146	315054	16.947	ug/l	97
85) n-Butylbenzene	13.943	91	31919m	0.979	ug/l	
89) 1,2,4-Trichlorobenzene	15.265	180	18898	2.188	ug/l	# 96
91) Naphthalene	15.507	128	304119	17.553	ug/l	100
92) 1,2,3-Trichlorobenzene	15.700	180	20037	2.455	ug/l	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

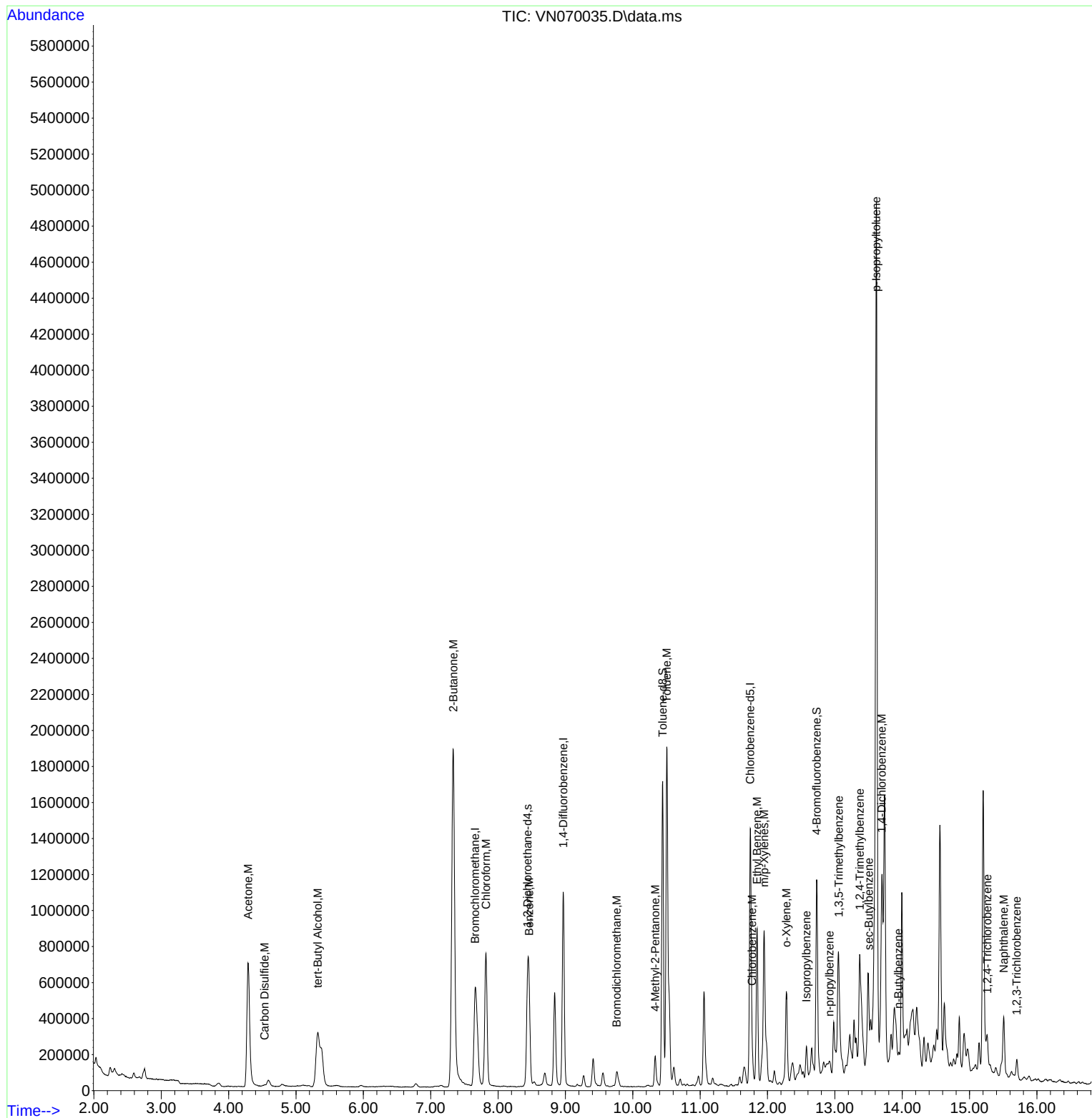
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
Data File : VN070035.D
Acq On : 13 Dec 2021 16:29
Operator : JC/MD
Sample : M4914-01
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ALS Vial : 12 Sample Multiplier: 1

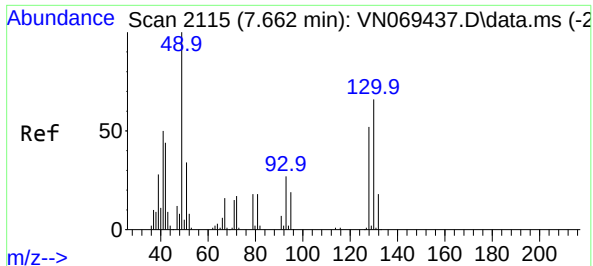
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Quant Time: Dec 14 05:27:34 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Dec 14 00:59:04 2021
Response via : Initial Calibration

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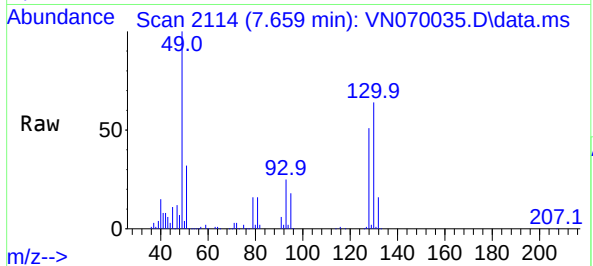
Reviewed By : John Carlone 12/14/2021
Supervised By : Amit Patel 12/15/2021





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2115
Delta R.T. 0.002 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

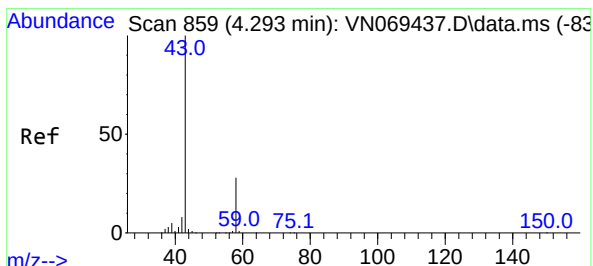
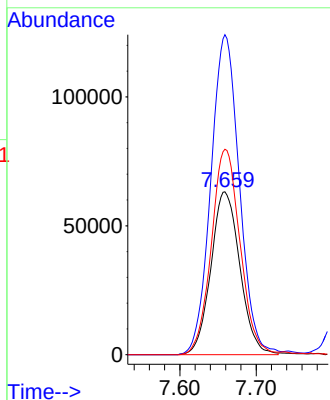
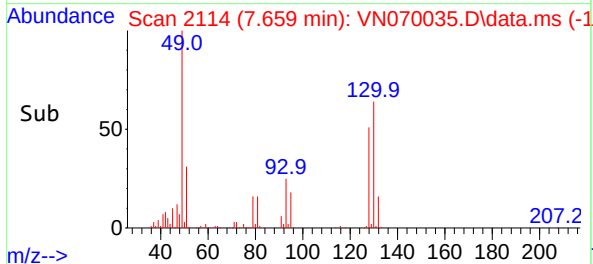
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



Tgt Ion:128 Resp: 166620
Ion Ratio Lower Upper
128 100
49 193.5 0.0 392.3
130 125.3 0.0 320.2

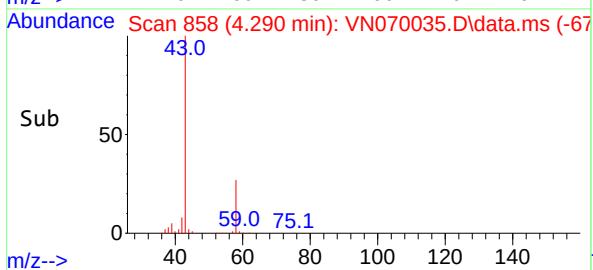
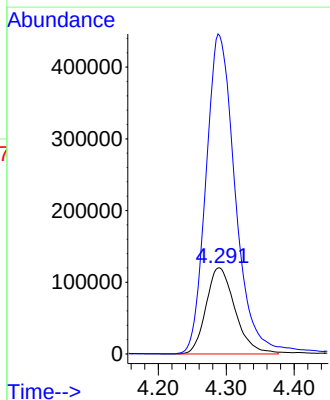
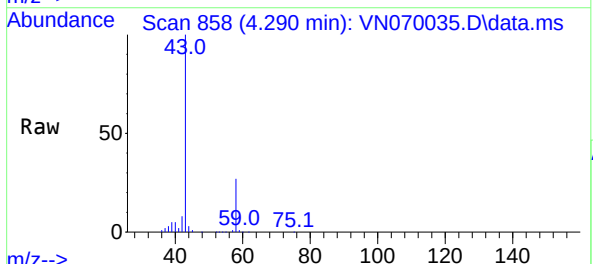
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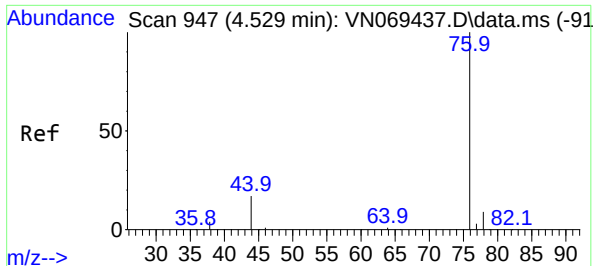
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#15
Acetone
Concen: 145.349 ug/l
RT: 4.290 min Scan# 858
Delta R.T. 0.005 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

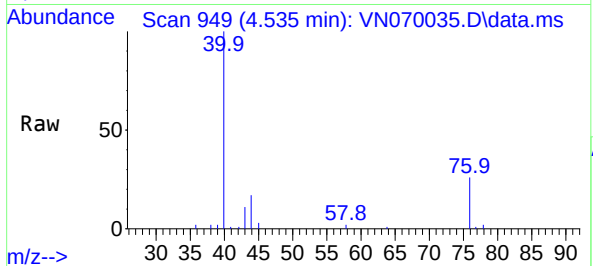
Tgt Ion: 58 Resp: 356574
Ion Ratio Lower Upper
58 100
43 368.7 256.6 384.8





#16
Carbon Disulfide
Concen: 0.553 ug/l m
RT: 4.535 min Scan# 947
Delta R.T. 0.005 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

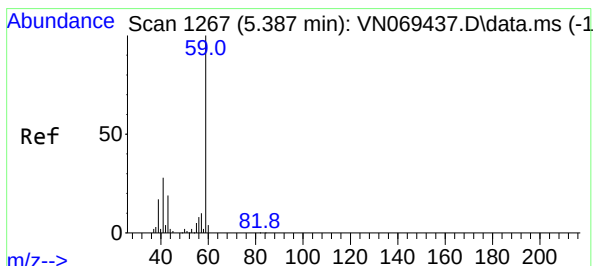
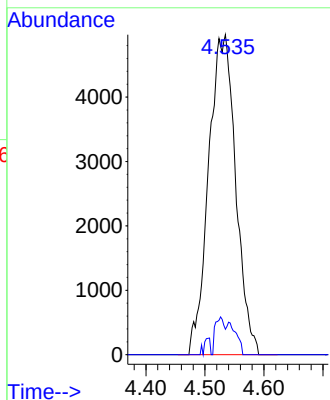
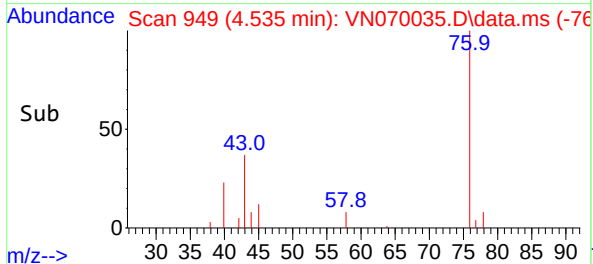
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



Tgt Ion: 76 Resp: 1584
Ion Ratio Lower Upper
76 100
78 8.0 7.8 11.8

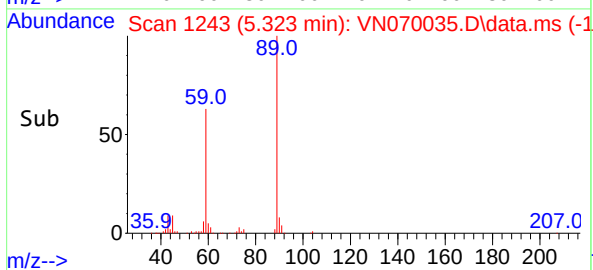
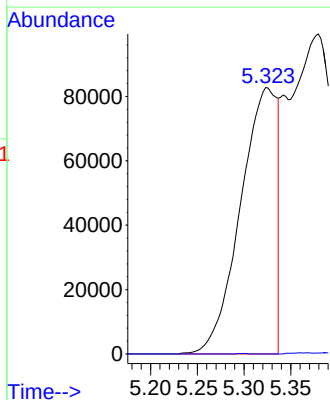
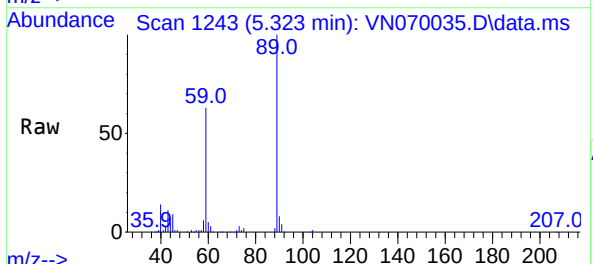
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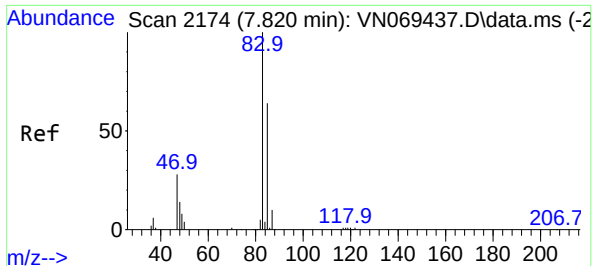
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#23
tert-Butyl Alcohol
Concen: 105.710 ug/l
RT: 5.323 min Scan# 1243
Delta R.T. -0.051 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

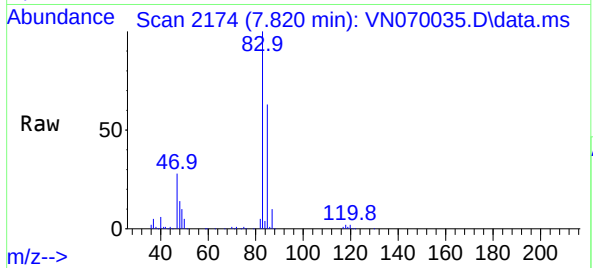
Tgt Ion: 59 Resp: 225921
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#





#25
Chloroform
Concen: 33.353 ug/l
RT: 7.820 min Scan# 2174
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

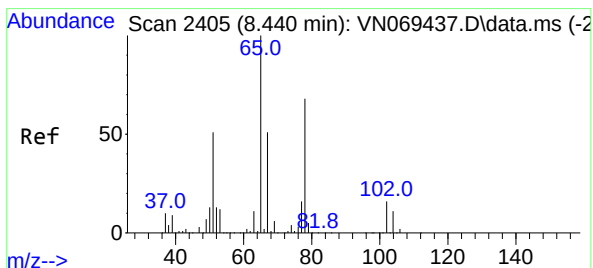
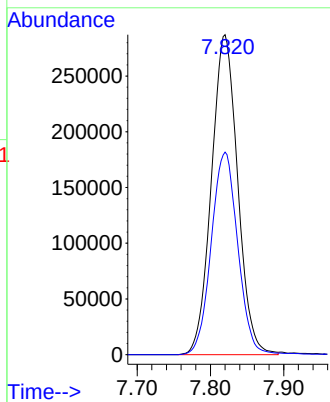
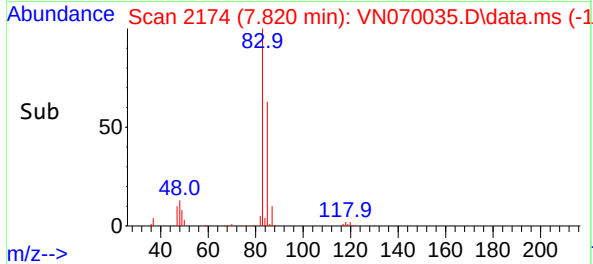
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



Tgt Ion: 83 Resp: 715236
Ion Ratio Lower Upper
83 100
85 63.3 51.3 76.9

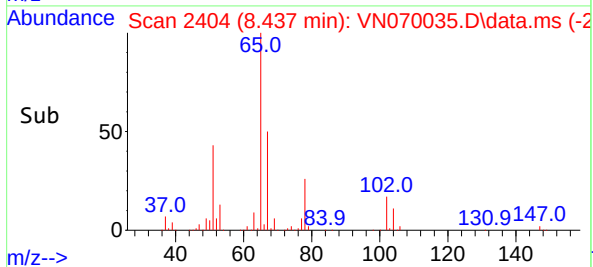
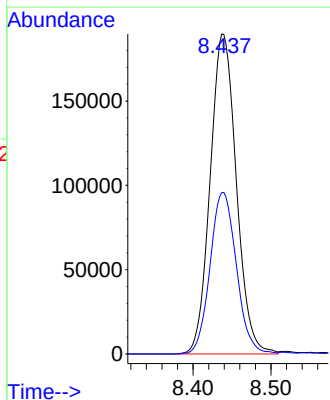
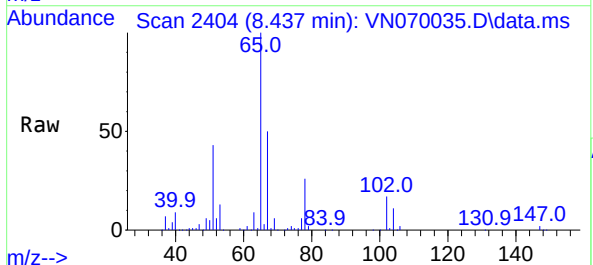
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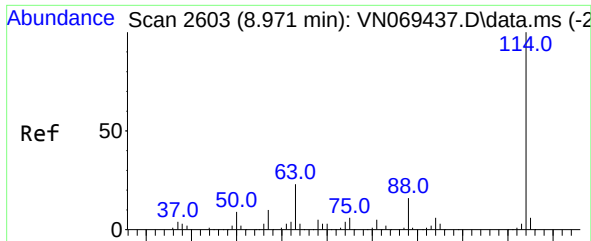
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#27
1,2-Dichloroethane-d4
Concen: 30.002 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

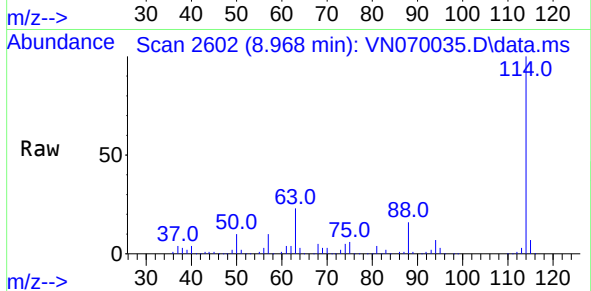
Tgt Ion: 65 Resp: 443025
Ion Ratio Lower Upper
65 100
67 50.3 40.2 60.2





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

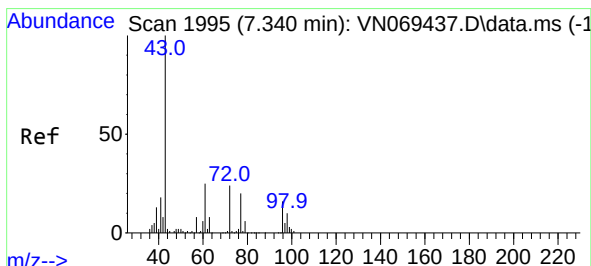
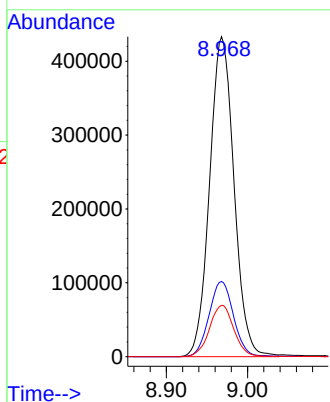
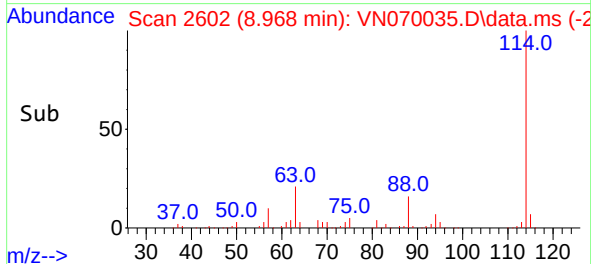
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



Tgt Ion:114 Resp: 903414
Ion Ratio Lower Upper
114 100
63 23.7 15.8 23.6
88 16.1 11.6 17.4

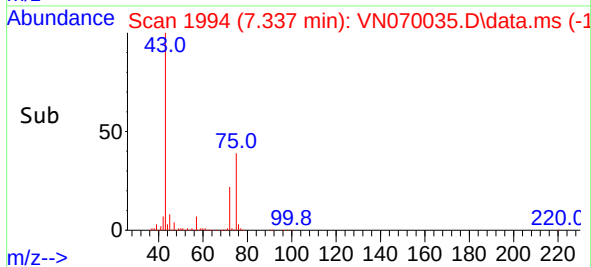
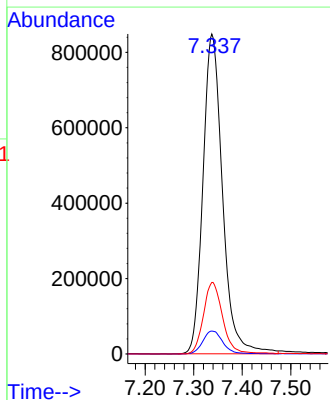
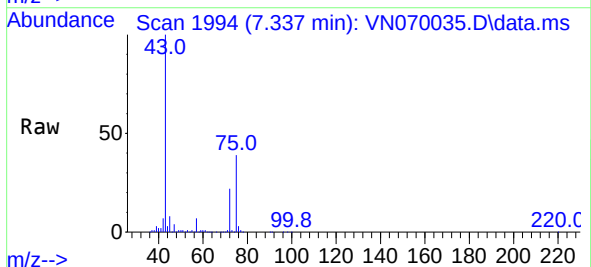
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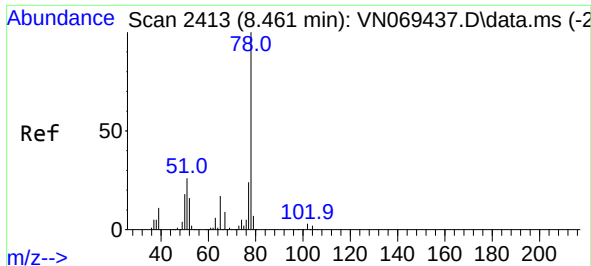
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#30
2-Butanone
Concen: 221.938 ug/l
RT: 7.337 min Scan# 1994
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Tgt Ion: 43 Resp: 2375232
Ion Ratio Lower Upper
43 100
57 7.4 6.7 10.1
72 22.0 23.2 34.8





#34

Benzene

Concen: 9.029 ug/l

RT: 8.461 min Scan# 2413

Delta R.T. -0.000 min

Lab File: VN070035.D

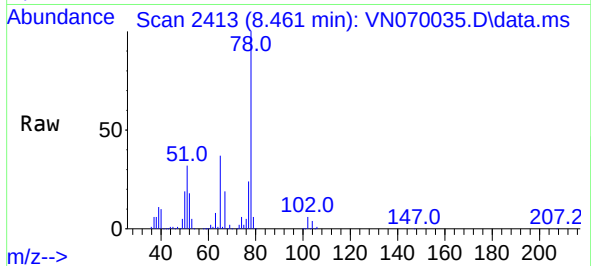
Acq: 13 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

SEMI-ANNUAL-CONDENSATE



Tgt Ion: 78 Resp: 415228

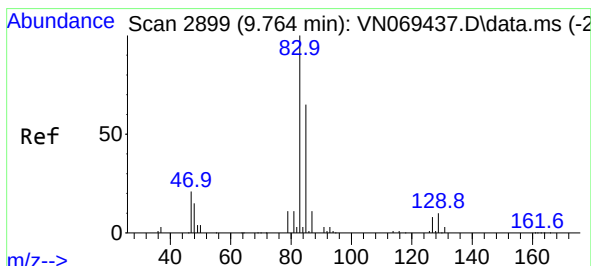
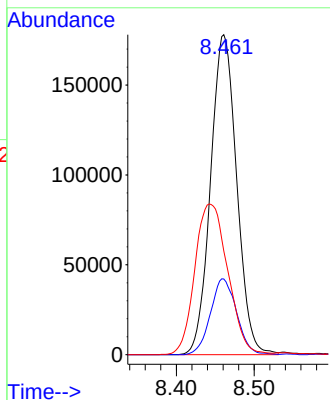
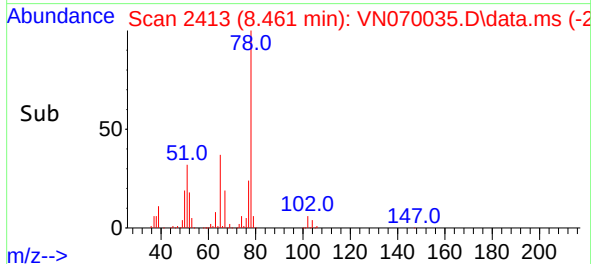
Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7
51	31.8	16.0	24.0

Manual Integrations

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Reviewed By :John Carlone 12/14/2021

Supervised By :Amit Patel 12/15/2021



#41

Bromodichloromethane

Concen: 3.217 ug/l

RT: 9.762 min Scan# 2898

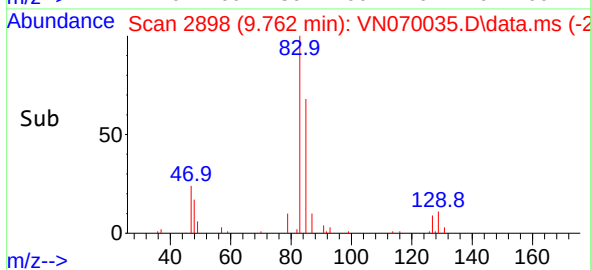
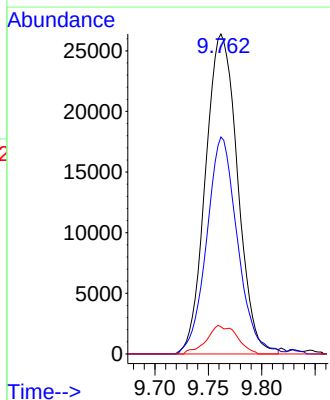
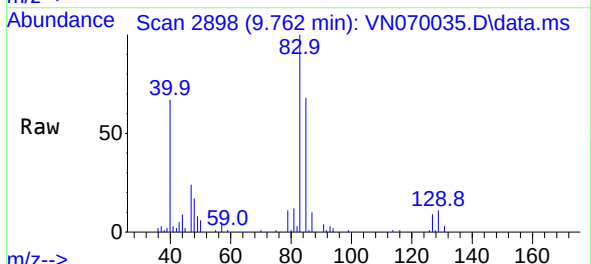
Delta R.T. -0.000 min

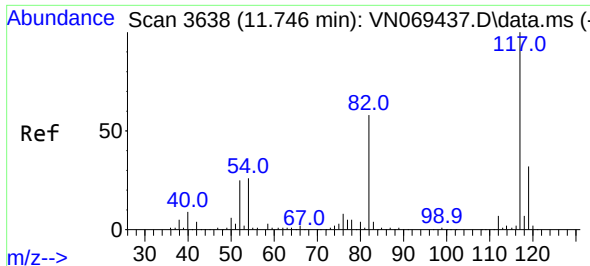
Lab File: VN070035.D

Acq: 13 Dec 2021 16:29

Tgt Ion: 83 Resp: 55015

Ion	Ratio	Lower	Upper
83	100		
85	67.2	54.1	81.1
127	8.5	7.6	11.4





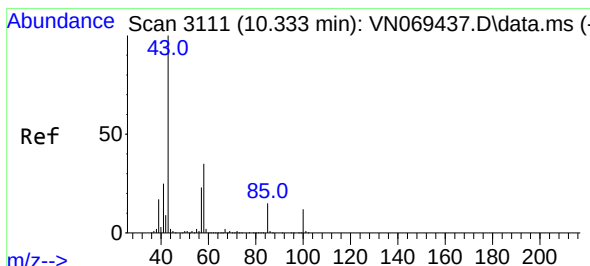
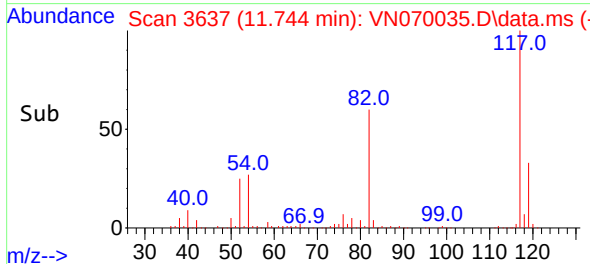
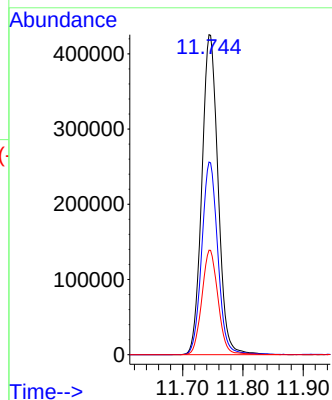
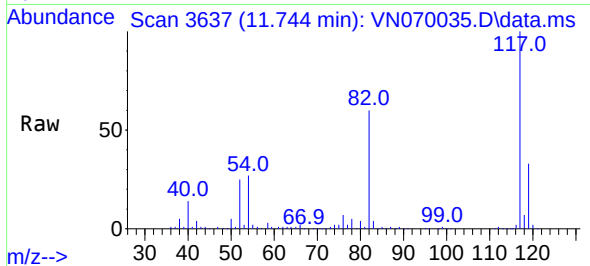
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.744 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Tgt Ion:117 Resp: 79404
Ion Ratio Lower Upper
117 100
82 59.6 43.6 65.4
119 32.6 25.8 38.6

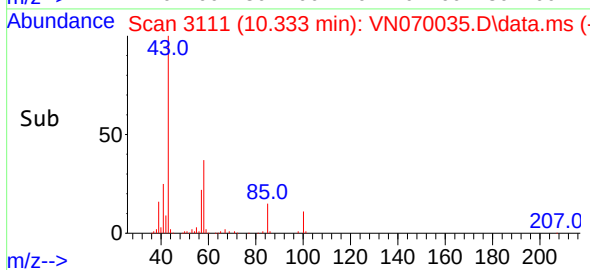
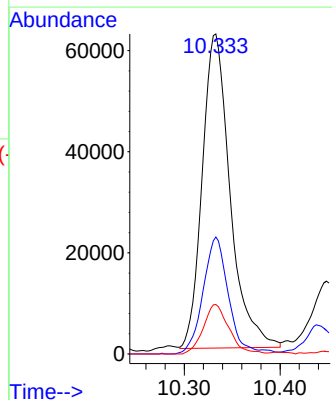
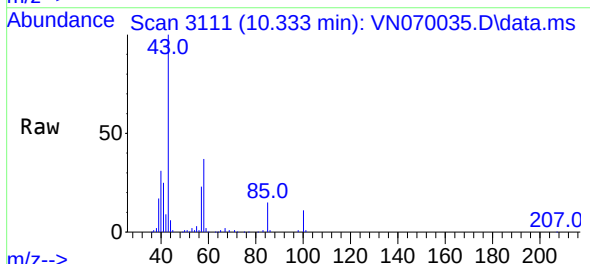
Manual Integrations
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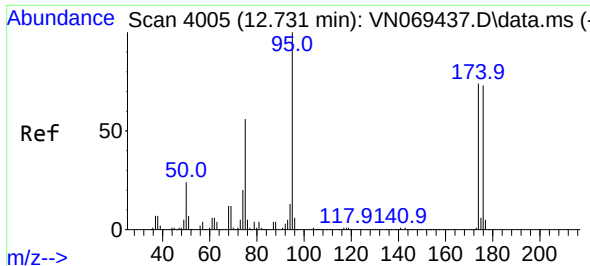
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#58
4-Methyl-2-Pentanone
Concen: 6.906 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

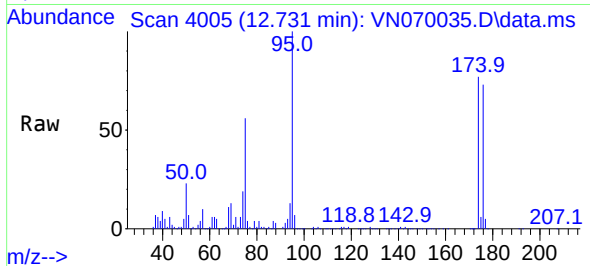
Tgt Ion: 43 Resp: 125868
Ion Ratio Lower Upper
43 100
58 33.4 30.0 45.0
85 14.5 15.0 22.6#





#60
4-Bromofluorobenzene
Concen: 28.012 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

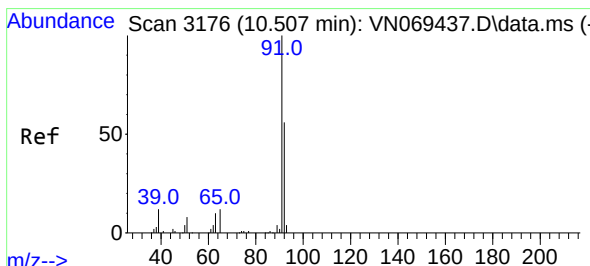
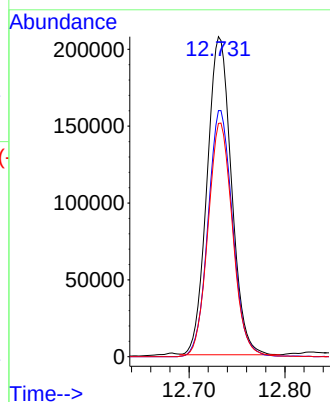
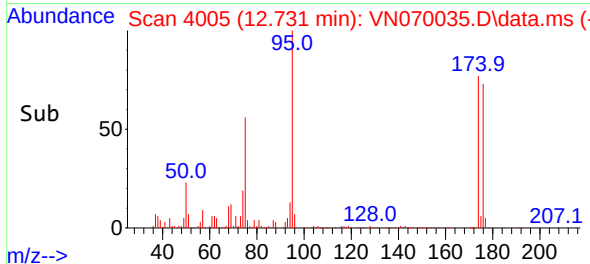
Instrument : MSVOA_N
ClientSampleId : SEMI-ANNUAL-CONDENSATE



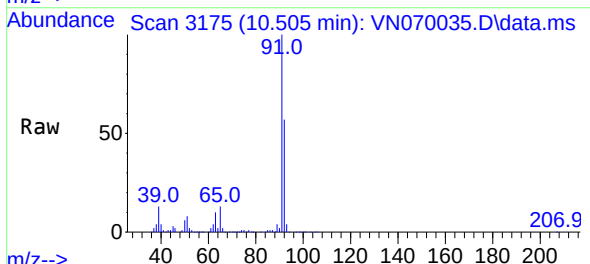
Tgt Ion: 95 Resp: 365993
Ion Ratio Lower Upper
95 100
174 77.9 62.9 94.3
176 74.2 61.0 91.4

Manual Integrations
APPROVED

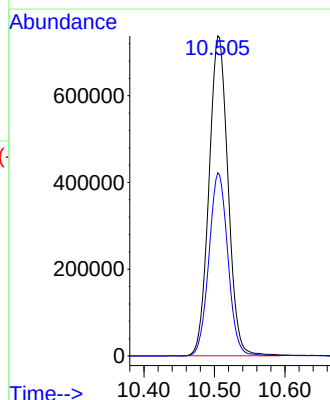
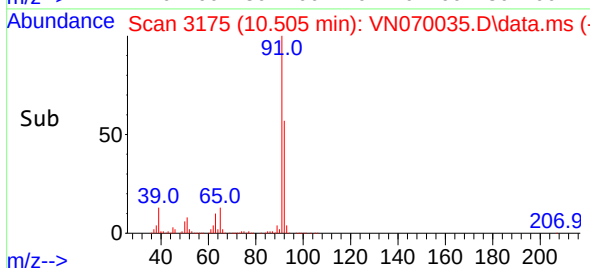
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021

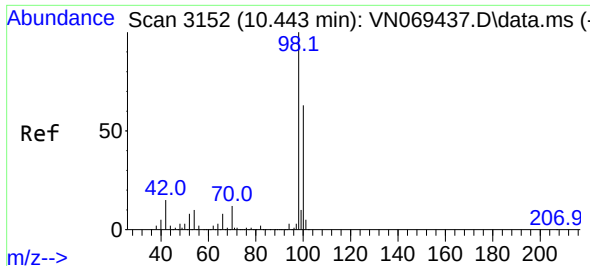


#62
Toluene
Concen: 29.641 ug/l
RT: 10.505 min Scan# 3175
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29



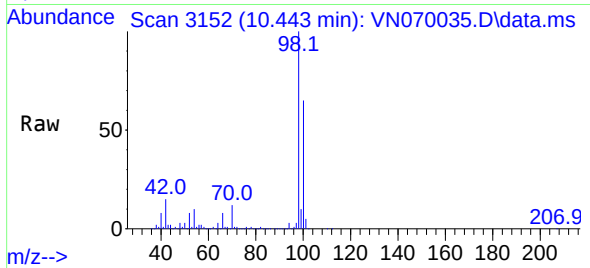
Tgt Ion: 91 Resp: 1384193
Ion Ratio Lower Upper
91 100
92 56.9 44.6 67.0





#63
Toluene-d8
Concen: 29.873 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

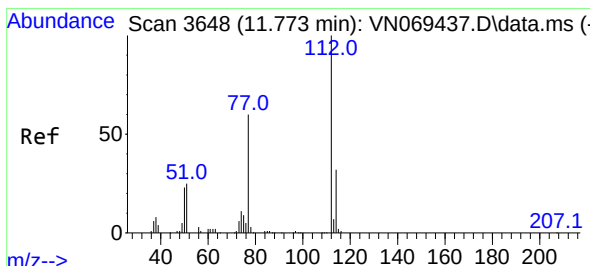
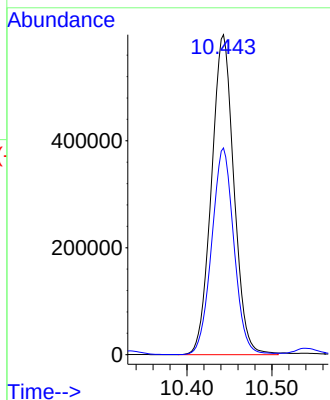
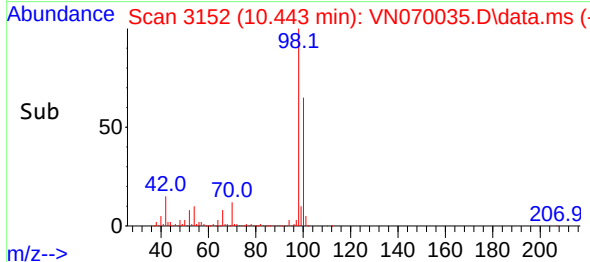
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



Tgt Ion: 98 Resp: 1096170
Ion Ratio Lower Upper
98 100
100 63.9 50.6 76.0

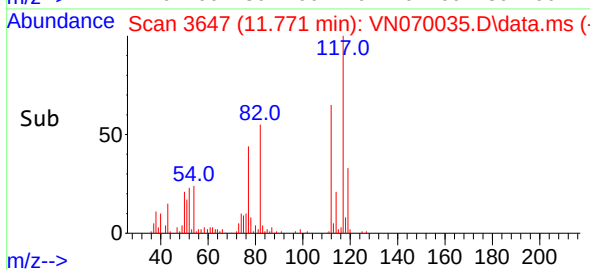
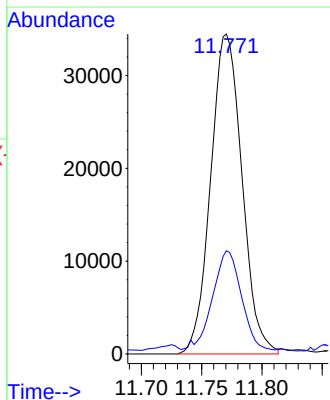
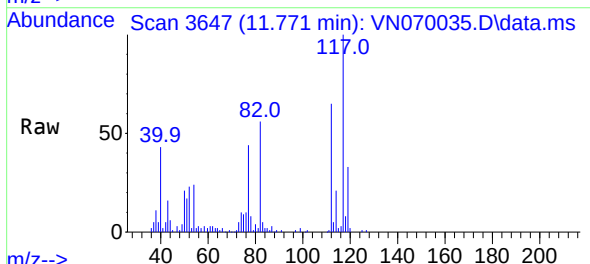
Manual Integrations
APPROVED

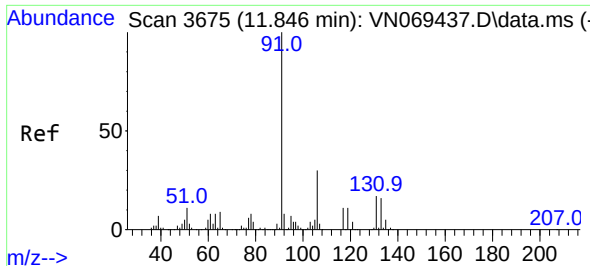
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#64
Chlorobenzene
Concen: 2.249 ug/l
RT: 11.771 min Scan# 3647
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

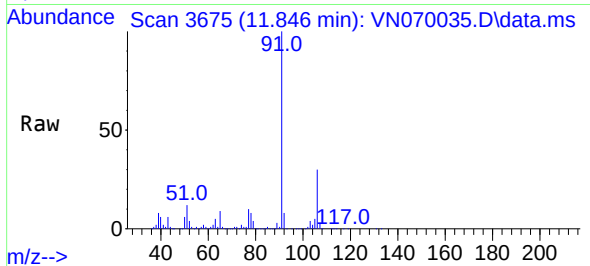
Tgt Ion:112 Resp: 62322
Ion Ratio Lower Upper
112 100
114 30.9 25.8 38.6





#66
Ethyl Benzene
Concen: 11.307 ug/l
RT: 11.846 min Scan# 3075
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

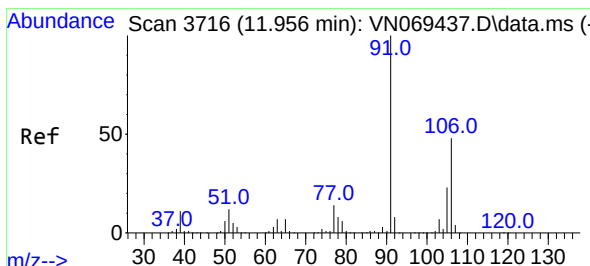
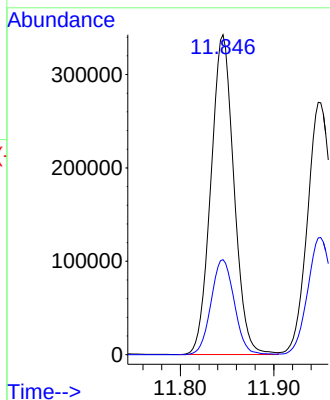
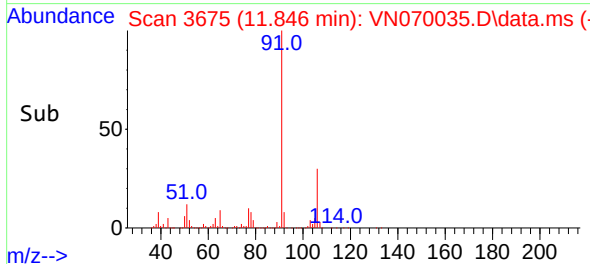
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



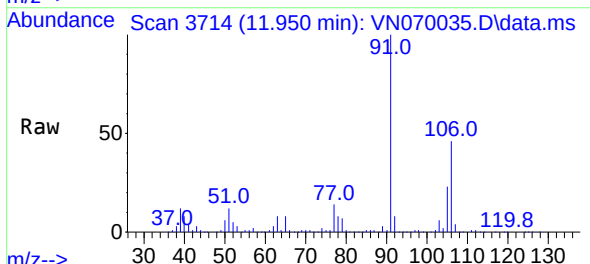
Tgt Ion: 91 Resp: 587025
Ion Ratio Lower Upper
91 100
106 29.7 24.0 36.0

Manual Integrations
APPROVED

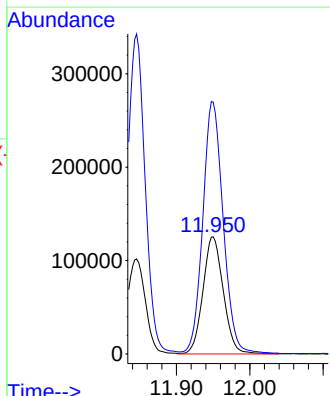
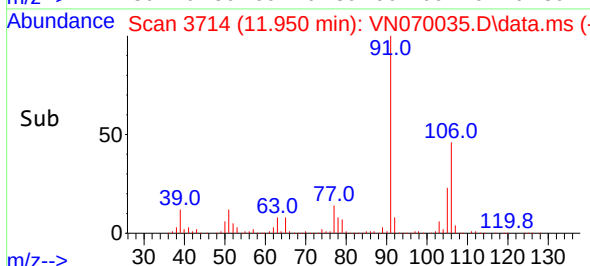
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021

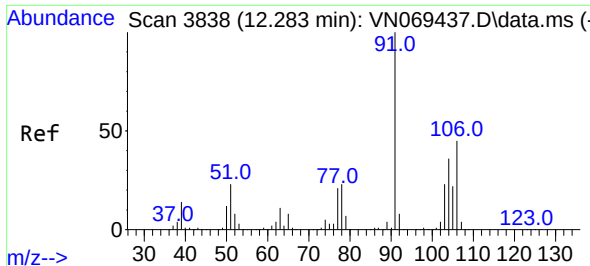


#67
m/p-Xylenes
Concen: 12.766 ug/l
RT: 11.950 min Scan# 3714
Delta R.T. -0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29



Tgt Ion:106 Resp: 242142
Ion Ratio Lower Upper
106 100
91 214.0 162.9 244.3





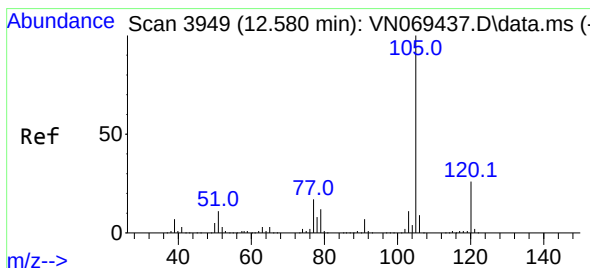
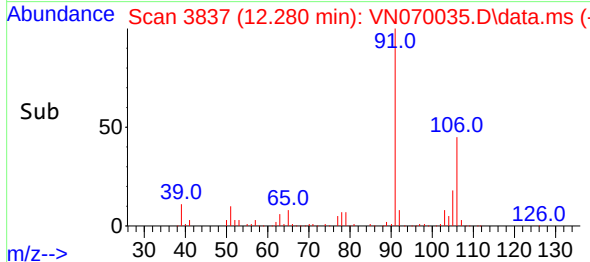
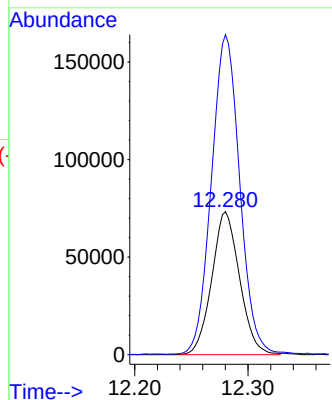
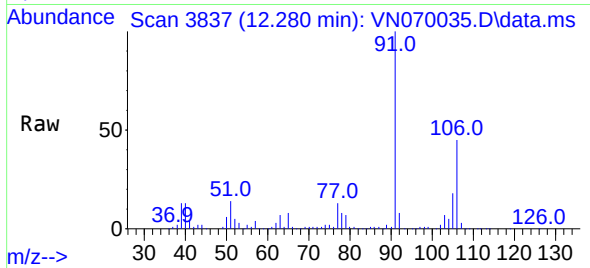
#68
o-Xylene
Concen: 6.657 ug/l
RT: 12.280 min Scan# 3838
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Tgt Ion:106 Resp: 12493
Ion Ratio Lower Upper
106 100
91 227.6 107.7 323.1

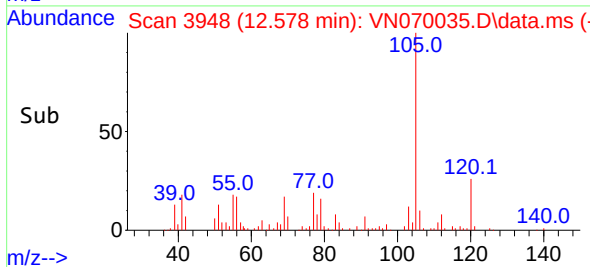
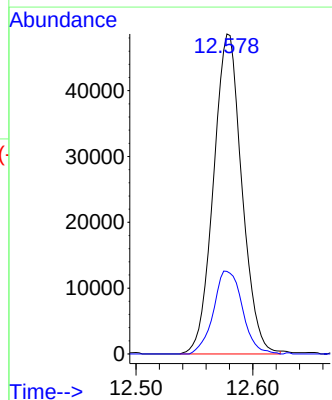
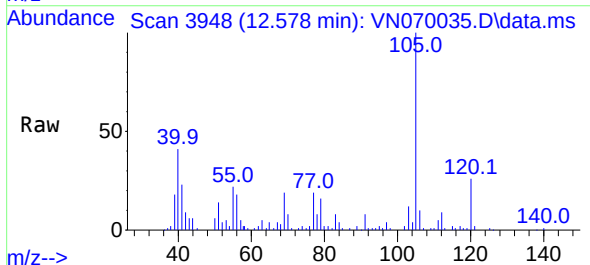
Manual Integrations
APPROVED

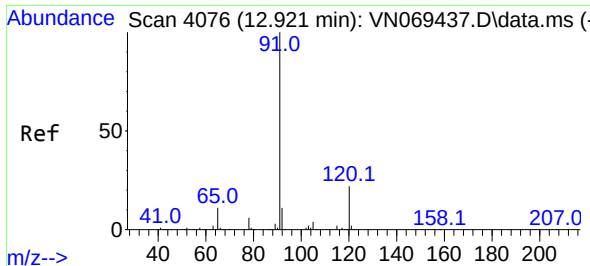
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#70
Isopropylbenzene
Concen: 1.665 ug/l
RT: 12.578 min Scan# 3948
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

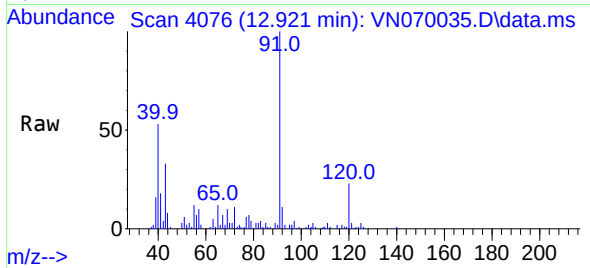
Tgt Ion:105 Resp: 81980
Ion Ratio Lower Upper
105 100
120 26.4 18.3 34.1





#74
n-propylbenzene
Concen: 1.078 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

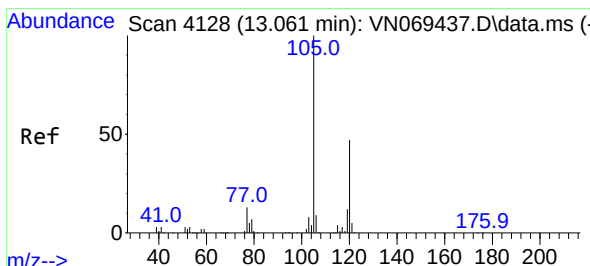
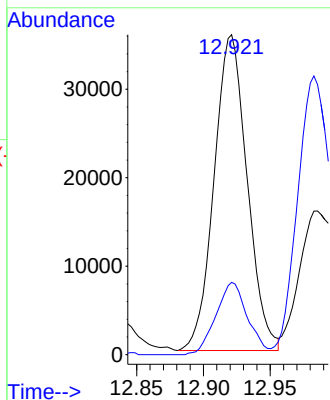
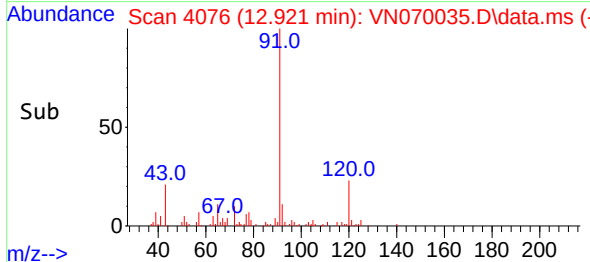
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



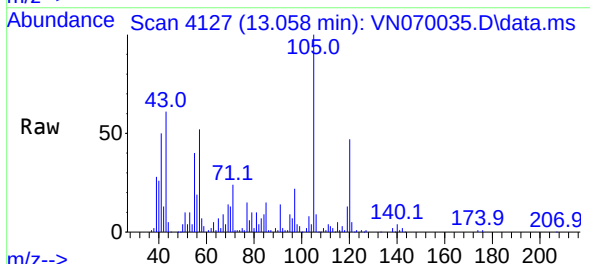
Tgt Ion: 91 Resp: 61500
Ion Ratio Lower Upper
91 100
120 22.0 0.0 45.0

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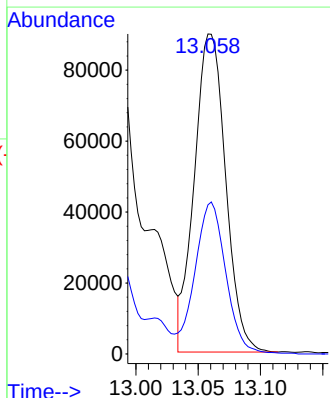
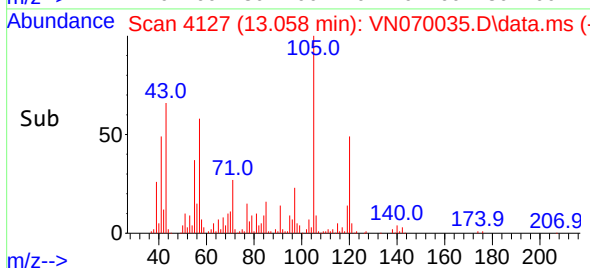
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021

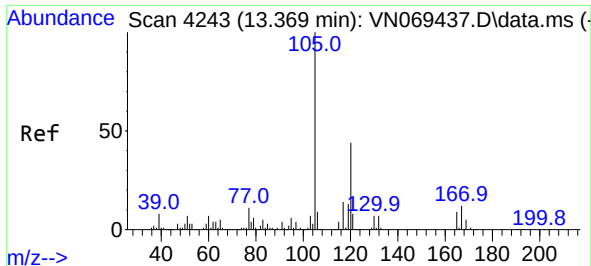


#76
1,3,5-Trimethylbenzene
Concen: 3.876 ug/l
RT: 13.058 min Scan# 4127
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29



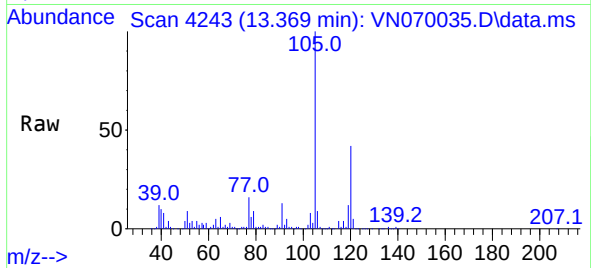
Tgt Ion:105 Resp: 156792
Ion Ratio Lower Upper
105 100
120 45.5 0.0 93.8





#80
1,2,4-Trimethylbenzene
Concen: 8.995 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

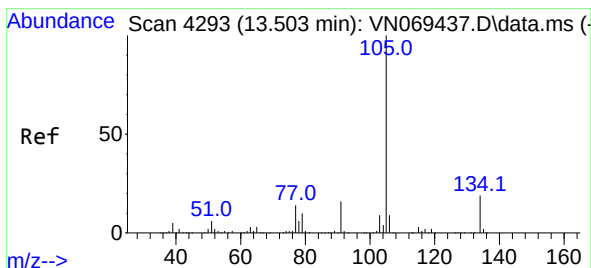
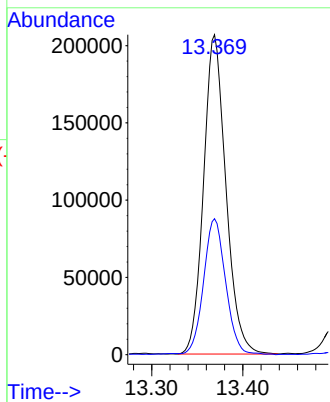
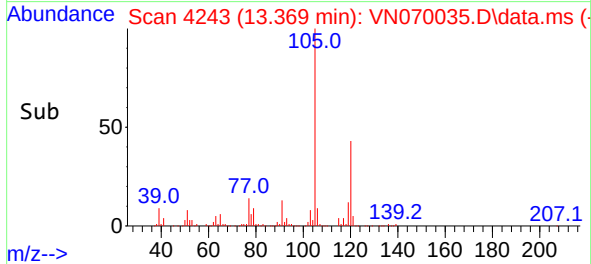
Instrument : MSVOA_N
ClientSampleId : SEMI-ANNUAL-CONDENSATE



Tgt Ion:105 Resp: 351889
Ion Ratio Lower Upper
105 100
120 41.5 0.0 0.25

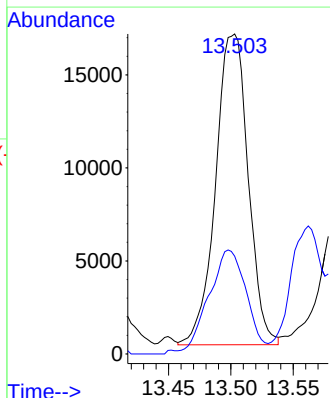
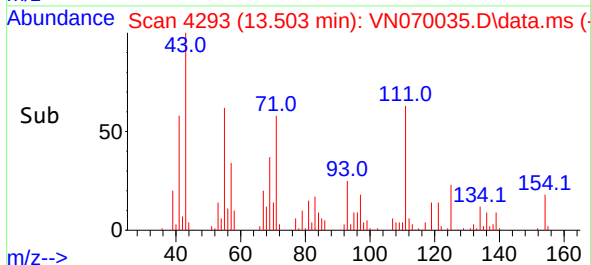
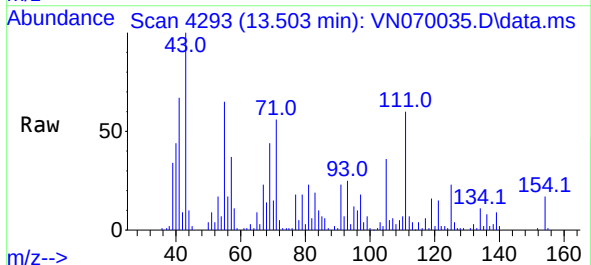
Manual Integrations
APPROVED

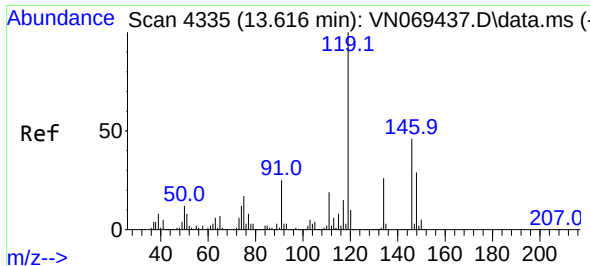
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#81
sec-Butylbenzene
Concen: 0.621 ug/l
RT: 13.503 min Scan# 4293
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

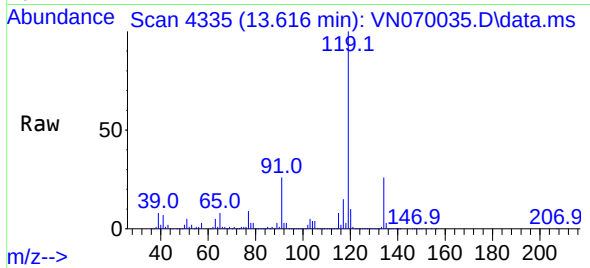
Tgt Ion:105 Resp: 30417
Ion Ratio Lower Upper
105 100
134 37.2 0.0 39.4





#82
p-Isopropyltoluene
Concen: 68.257 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

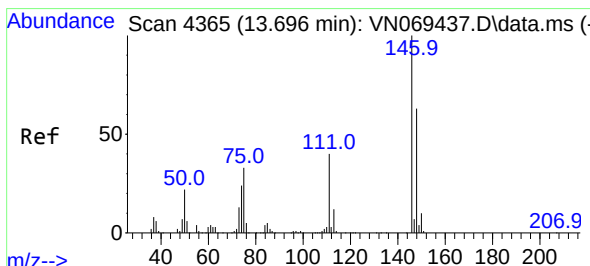
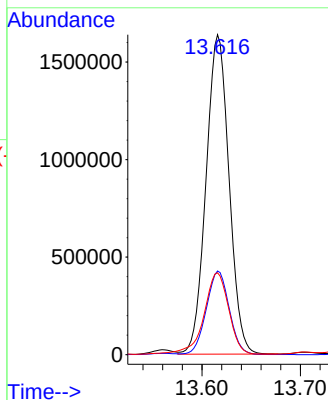
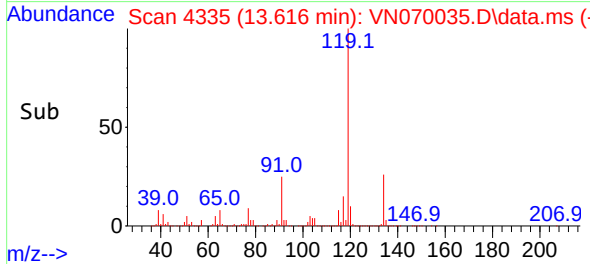
Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE



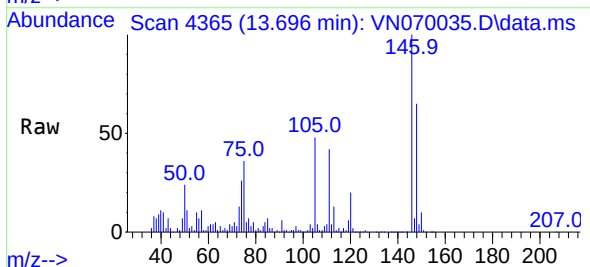
Tgt Ion:119 Resp: 266418
Ion Ratio Lower Upper
119 100
134 26.0 0.0 51.8
91 27.8 0.0 50.4

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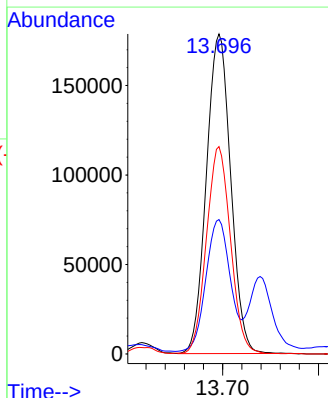
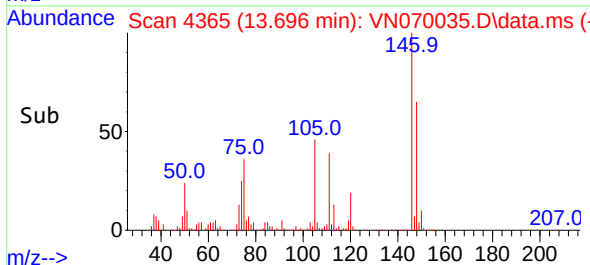
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021

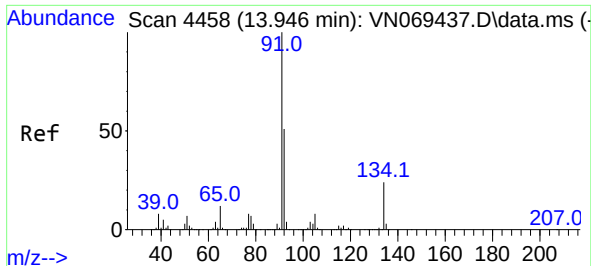


#84
1,4-Dichlorobenzene
Concen: 16.947 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29



Tgt Ion:146 Resp: 315054
Ion Ratio Lower Upper
146 100
111 41.7 19.5 58.5
148 63.9 31.1 93.5





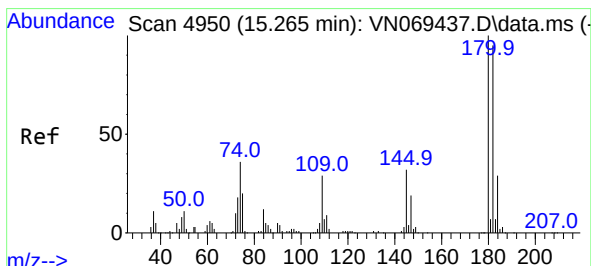
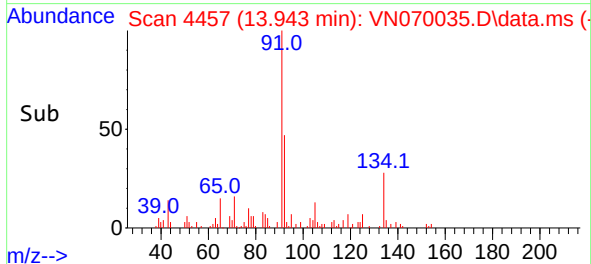
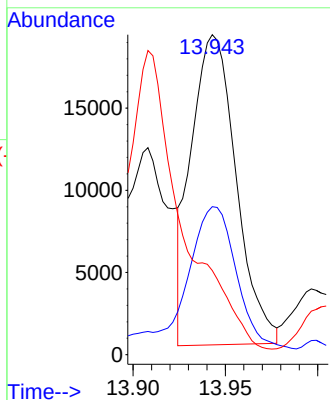
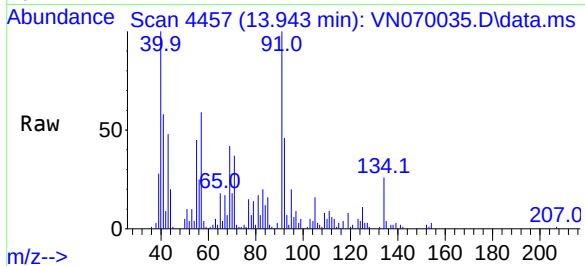
#85
n-Butylbenzene
Concen: 0.979 ug/l m
RT: 13.943 min Scan# 4458
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Tgt Ion: 91 Resp: 31919
Ion Ratio Lower Upper
91 100
92 46.0 0.0 100.6
134 9.7 0.0 50.2

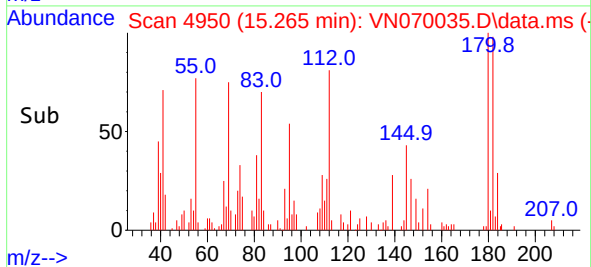
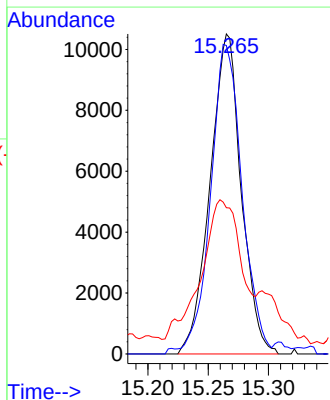
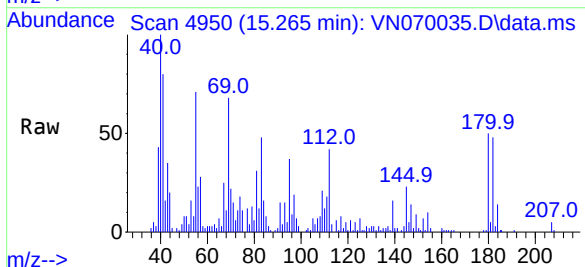
Manual Integrations
APPROVED

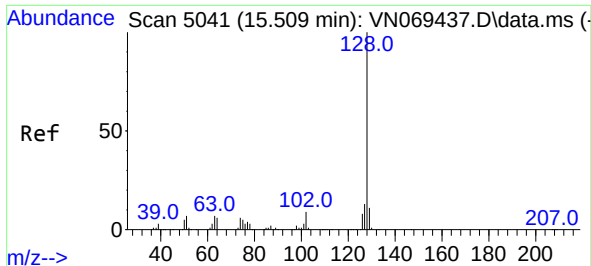
Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#89
1,2,4-Trichlorobenzene
Concen: 2.188 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Tgt Ion:180 Resp: 18898
Ion Ratio Lower Upper
180 100
182 97.4 77.7 116.5
145 40.7 26.6 39.8#





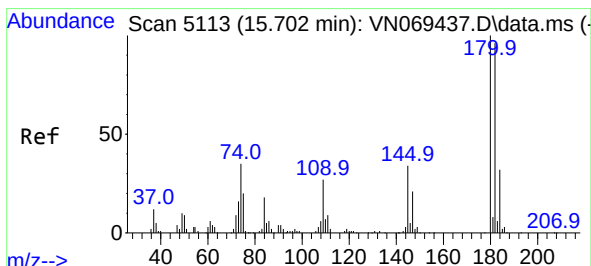
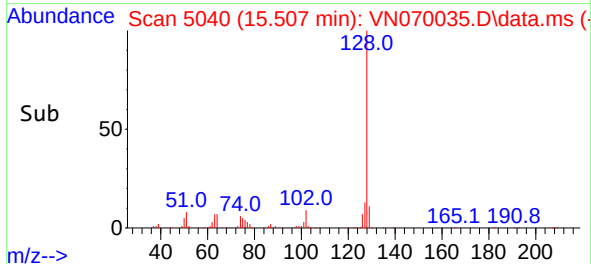
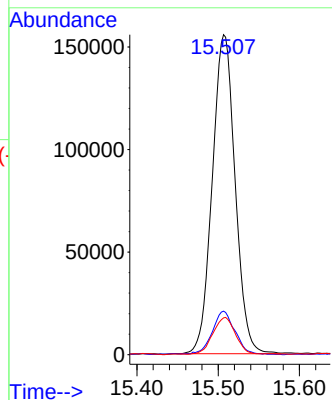
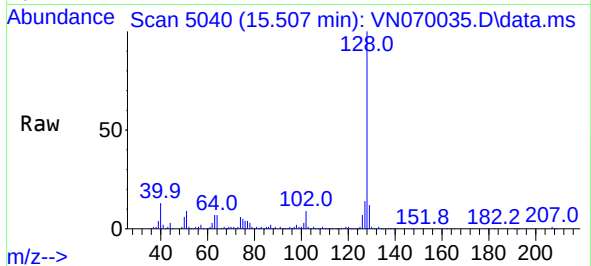
#91
Naphthalene
Concen: 17.553 ug/l
RT: 15.507 min Scan# 5041
Delta R.T. 0.003 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Instrument :
MSVOA_N
ClientSampleId :
SEMI-ANNUAL-CONDENSATE

Tgt Ion:128 Resp: 304119
Ion Ratio Lower Upper
128 100
127 13.2 10.7 16.1
129 11.5 9.0 13.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/14/2021
Supervised By :Amit Patel 12/15/2021



#92
1,2,3-Trichlorobenzene
Concen: 2.455 ug/l
RT: 15.700 min Scan# 5112
Delta R.T. -0.000 min
Lab File: VN070035.D
Acq: 13 Dec 2021 16:29

Tgt Ion:180 Resp: 20037
Ion Ratio Lower Upper
180 100
182 95.1 0.0 190.0
145 57.0 0.0 67.8

