

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093022\
 Data File : VN074689.D
 Acq On : 01 Oct 2022 04:48
 Operator : JC\MD
 Sample : N4882-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 03 02:11:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092922W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 30 07:44:59 2022
 Response via : Initial Calibration

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

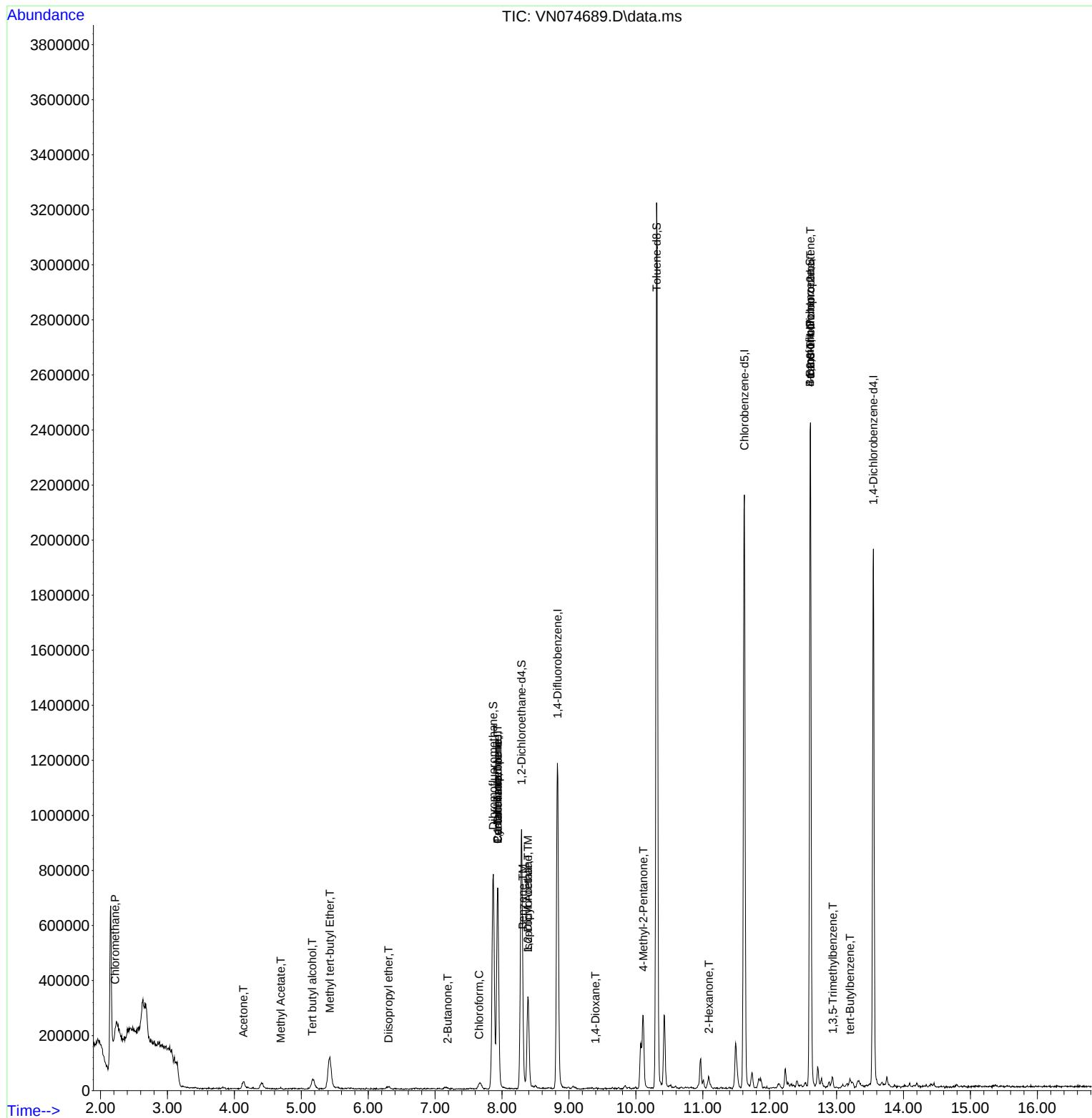
Internal Standards						
1) Pentafluorobenzene	7.934	168	520005	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.828	114	1010451	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.622	117	1026557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.551	152	469259	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.292	65	668613	51.304	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.600%	
35) Dibromofluoromethane	7.869	113	549069	51.338	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.680%	
50) Toluene-d8	10.310	98	2122135	47.172	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 94.340%	
62) 4-Bromofluorobenzene	12.604	95	697451	48.893	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.780%	
Target Compounds						Qvalue
3) Chloromethane	2.216	50	7638	0.480	ug/l	99
8) Diethyl Ether	3.693	74	165	Below Cal	#	1
11) Tert butyl alcohol	5.163	59	64401	18.503	ug/l	# 72
13) Acrolein	3.899	56	294	Below Cal	#	73
16) Acetone	4.134	43	47047	1.740	ug/l	# 88
18) Methyl Acetate	4.693	43	5635	0.234	ug/l	# 74
19) Methyl tert-butyl Ether	5.428	73	186032	5.019	ug/l	99
20) Methylene Chloride	4.893	84	250	Below Cal	#	58
22) Diisopropyl ether	6.304	45	10048	0.235	ug/l	# 84
25) 2-Butanone	7.187	43	8267	0.689	ug/l	# 84
30) Chloroform	7.657	83	14240	0.710	ug/l	86
31) Cyclohexane	7.934	56	17353	0.820	ug/l	# 66
36) 1,1-Dichloropropene	7.934	75	49642	2.898	ug/l	# 47
38) Carbon Tetrachloride	7.934	117	57629	3.673	ug/l	# 17
40) Benzene	8.310	78	64602	1.224	ug/l	95
42) 1,2-Dichloroethane	8.387	62	32359	1.825	ug/l	95
43) Isopropyl Acetate	8.387	43	75990	1.875	ug/l	# 62
49) 1,4-Dioxane	9.398	88	110	0.345	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.110	43	42035	1.639	ug/l	# 58
59) 2-Hexanone	11.092	43	12621	0.651	ug/l	96
71) Bromoform	12.604	173	5538	0.630	ug/l	# 28
74) N-amyl acetate	12.222	43	8204	Below Cal	#	32
75) 1,1,2,2-Tetrachloroethane	12.716	83	5877	Below Cal	#	44
76) 1,2,3-Trichloropropane	12.610	75	415051	39.044	ug/l	# 1
77) Bromobenzene	12.727	156	135	Below Cal	#	1
80) 1,3,5-Trimethylbenzene	12.945	105	9360	0.267	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.610	75	415051	73.913	ug/l	# 10
83) tert-Butylbenzene	13.198	119	8096	0.258	ug/l	85
94) Hexachlorobutadiene	15.245	225	111	Below Cal	#	48

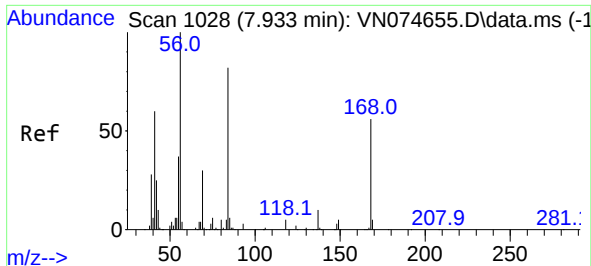
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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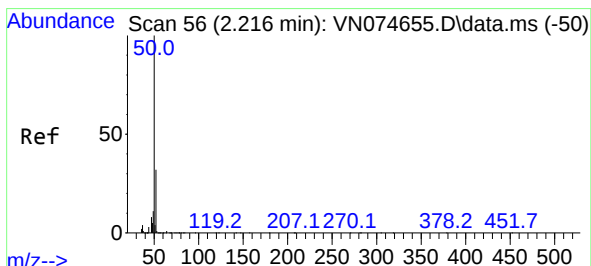
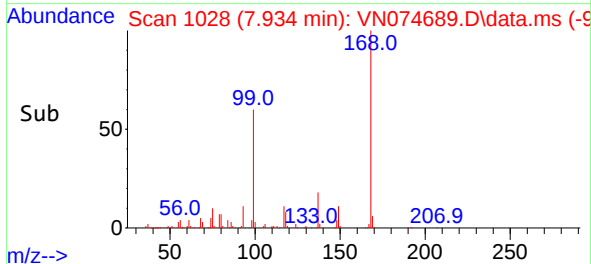
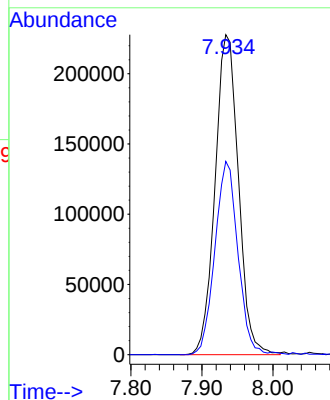
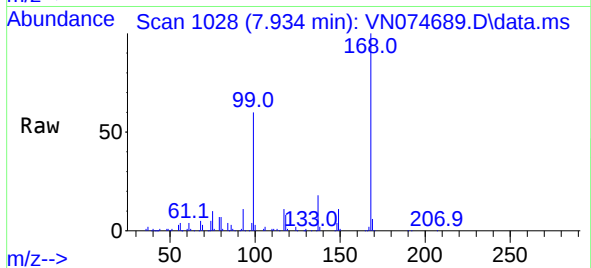




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.934 min Scan# 1028
Delta R.T. 0.001 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

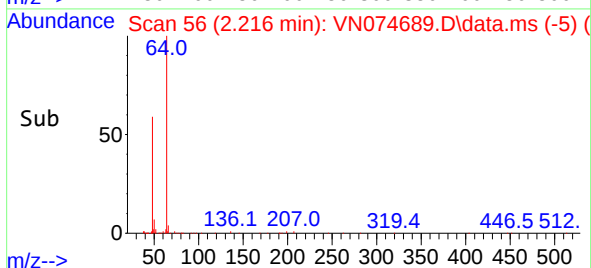
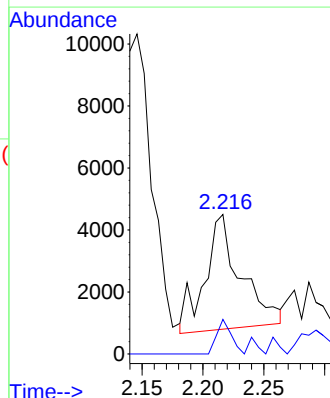
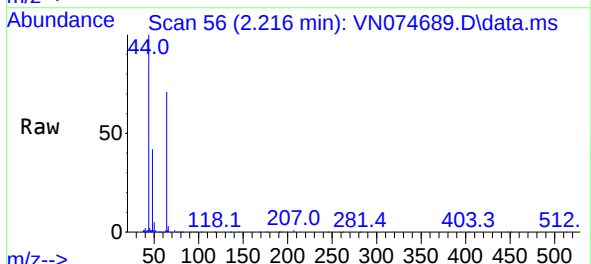
Instrument :
MSVOA_N
ClientSampleId :

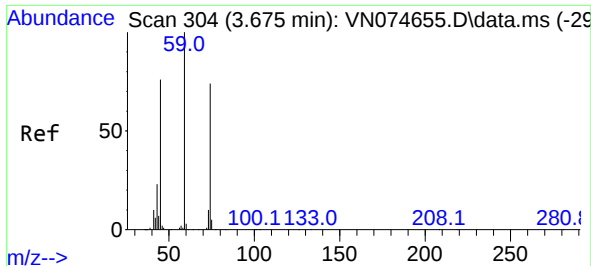
Tgt Ion:168 Resp: 520005
Ion Ratio Lower Upper
168 100
99 60.4 42.3 63.5



#3
Chloromethane
Concen: 0.480 ug/l
RT: 2.216 min Scan# 56
Delta R.T. 0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 50 Resp: 7638
Ion Ratio Lower Upper
50 100
52 31.7 25.7 38.5

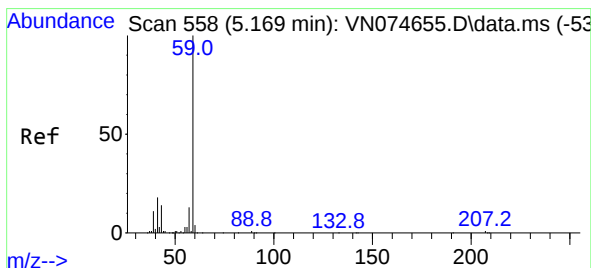
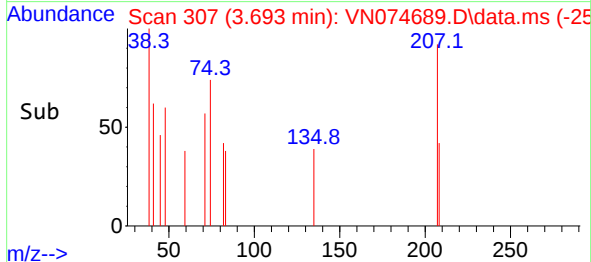
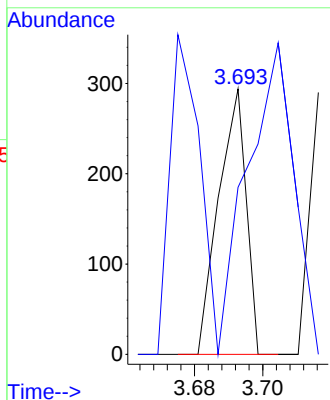
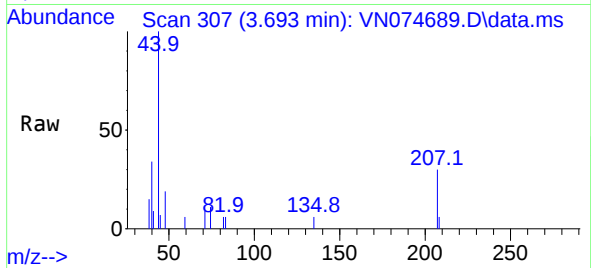




#8
Diethyl Ether
Concen: Below Cal
RT: 3.693 min Scan# 304
Delta R.T. 0.018 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

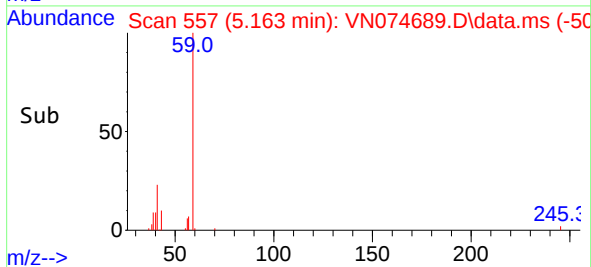
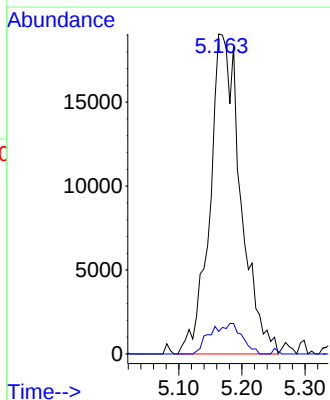
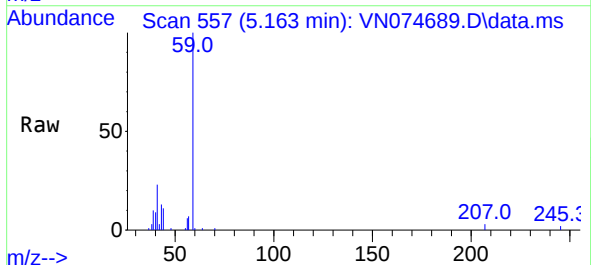
Instrument :
MSVOA_N
ClientSampleId :

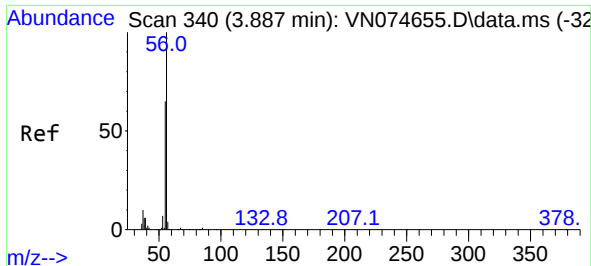
Tgt Ion: 74 Resp: 165
Ion Ratio Lower Upper
74 100
45 198.2 42.9 128.5#



#11
Tert butyl alcohol
Concen: 18.503 ug/l
RT: 5.163 min Scan# 557
Delta R.T. -0.006 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 59 Resp: 64401
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

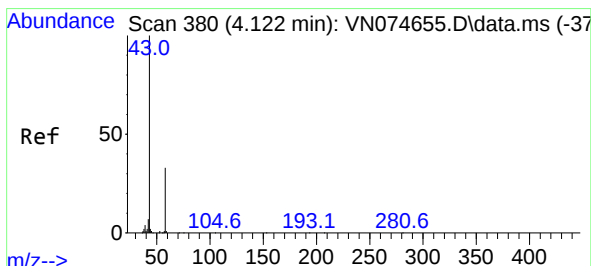
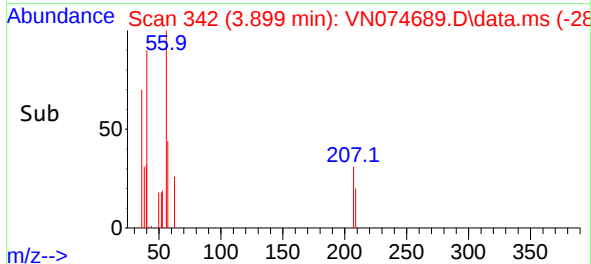
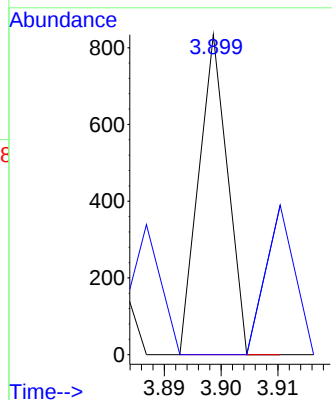
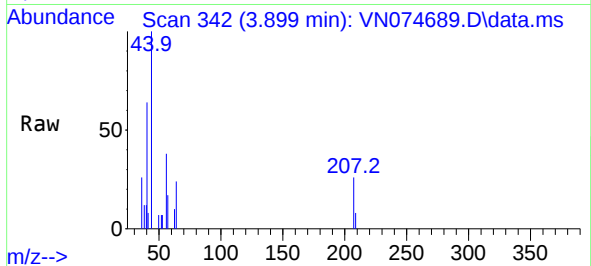




#13
Acrolein
Concen: Below Cal
RT: 3.899 min Scan# 34
Delta R.T. 0.012 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

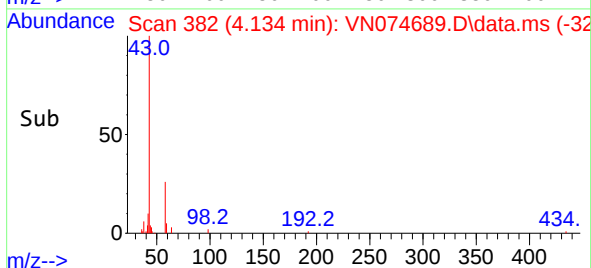
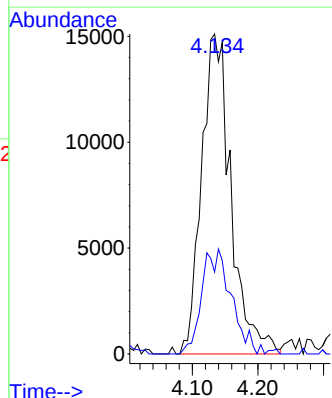
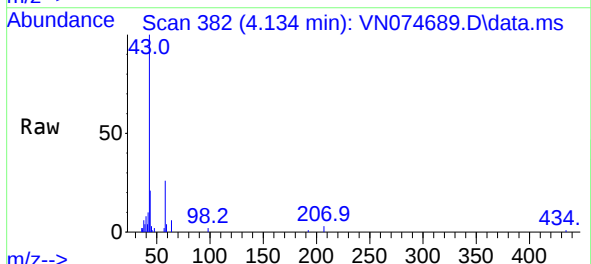
Instrument :
MSVOA_N
ClientSampleId :

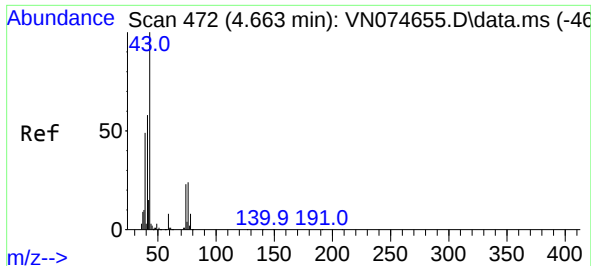
Tgt Ion: 56 Resp: 294
Ion Ratio Lower Upper
56 100
55 46.9 54.8 82.2#



#16
Acetone
Concen: 1.740 ug/l
RT: 4.134 min Scan# 382
Delta R.T. 0.012 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 43 Resp: 47047
Ion Ratio Lower Upper
43 100
58 25.6 26.0 39.0#

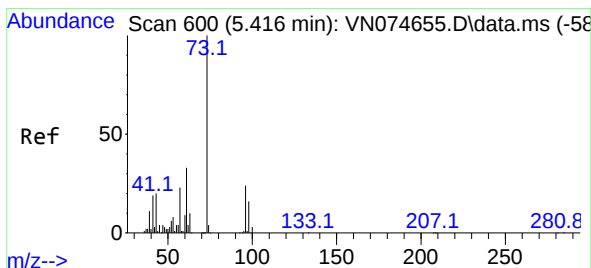
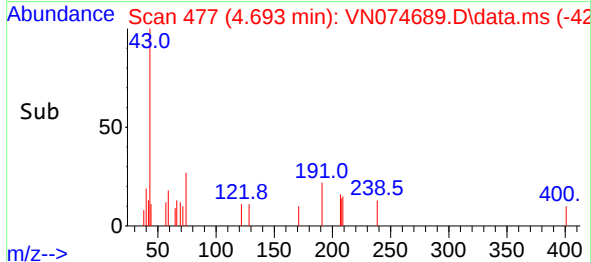
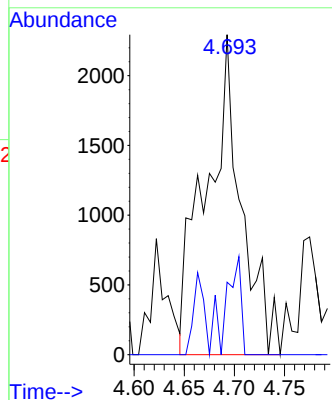
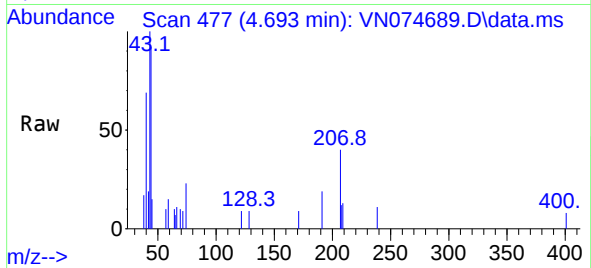




#18
Methyl Acetate
Concen: 0.234 ug/l
RT: 4.693 min Scan# 41
Delta R.T. 0.030 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

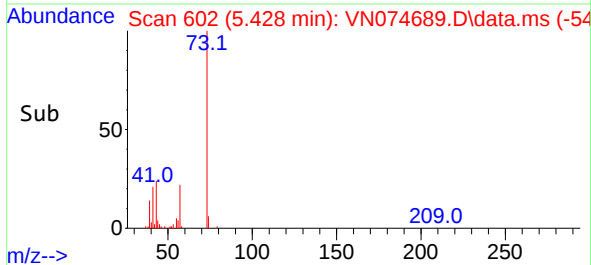
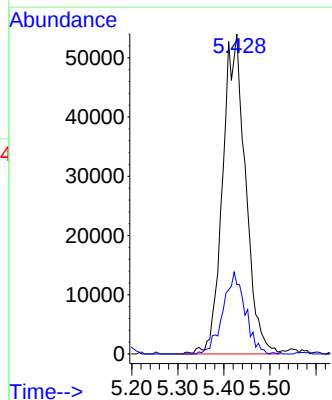
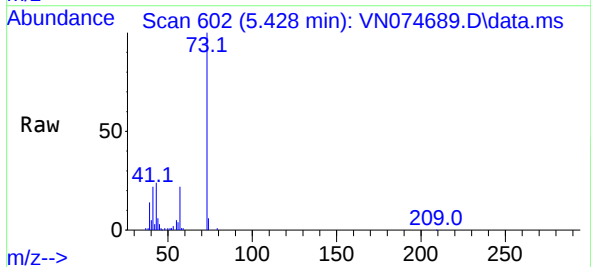
Instrument :
MSVOA_N
ClientSampleId :

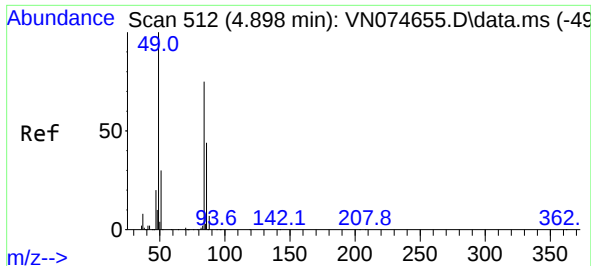
Tgt Ion: 43 Resp: 5635
Ion Ratio Lower Upper
43 100
74 13.3 21.6 32.4#



#19
Methyl tert-butyl Ether
Concen: 5.019 ug/l
RT: 5.428 min Scan# 602
Delta R.T. 0.012 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

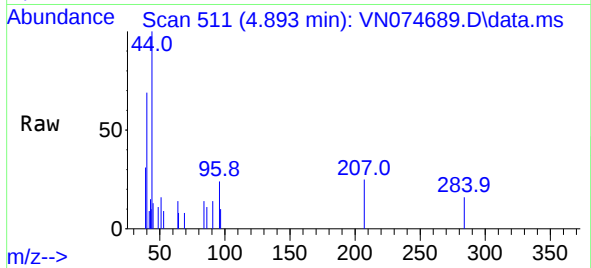
Tgt Ion: 73 Resp: 186032
Ion Ratio Lower Upper
73 100
57 21.7 17.6 26.4



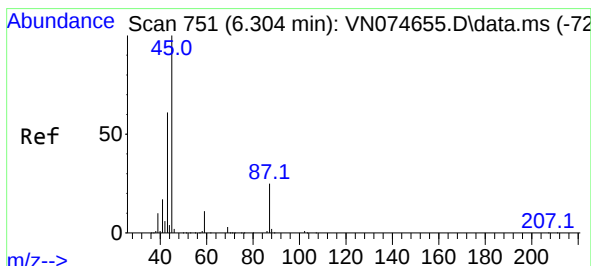
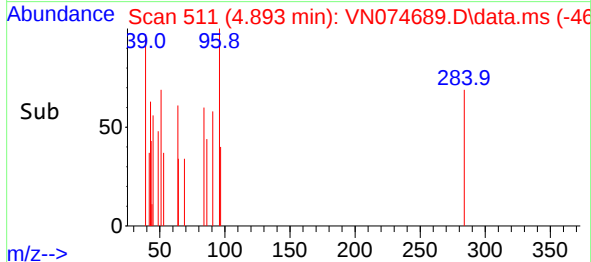
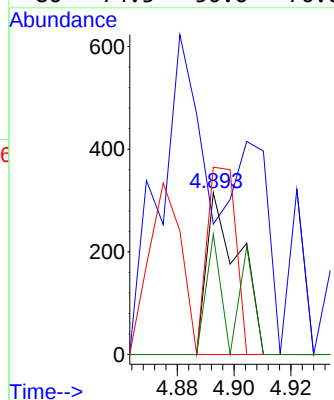


#20
Methylene Chloride
Concen: Below Cal
RT: 4.893 min Scan# 511
Delta R.T. -0.005 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Instrument :
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ClientSampleId :

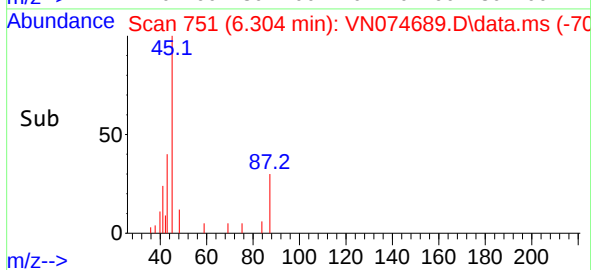
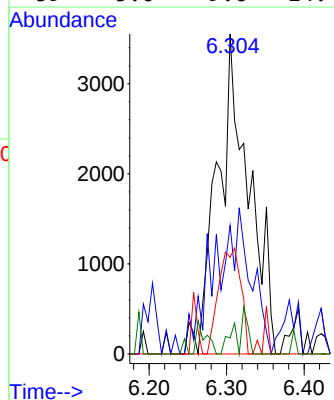
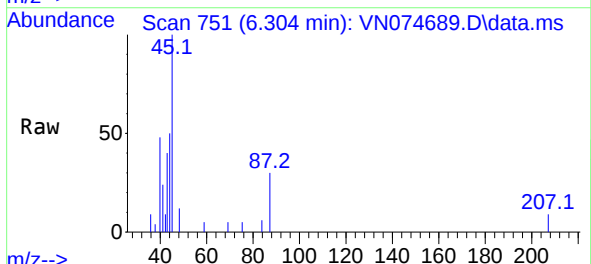


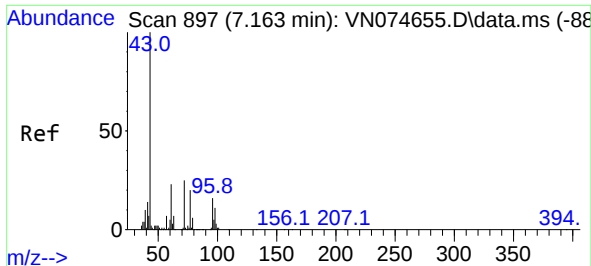
Tgt Ion: 84	Resp: 250
Ion Ratio	Lower Upper
84 100	
49 80.6	88.3 132.5#
51 115.9	28.2 42.2#
86 74.3	50.6 76.0



#22
Diisopropyl ether
Concen: 0.235 ug/l
RT: 6.304 min Scan# 751
Delta R.T. 0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 45	Resp: 10048
Ion Ratio	Lower Upper
45 100	
43 40.2	46.6 70.0#
87 30.2	24.3 36.5
59 5.0	9.6 14.4#

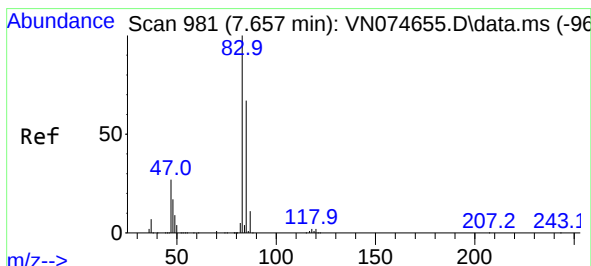
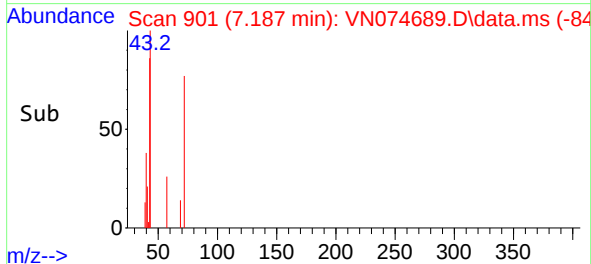
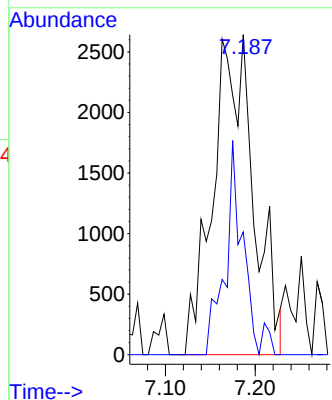
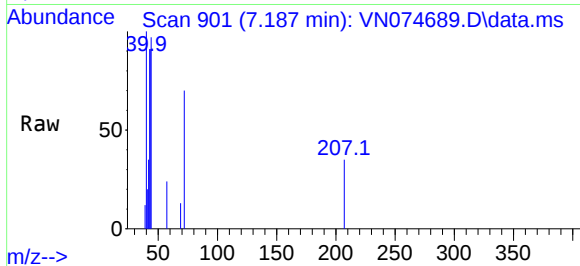




#25
2-Butanone
Concen: 0.689 ug/l
RT: 7.187 min Scan# 901
Delta R.T. 0.024 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

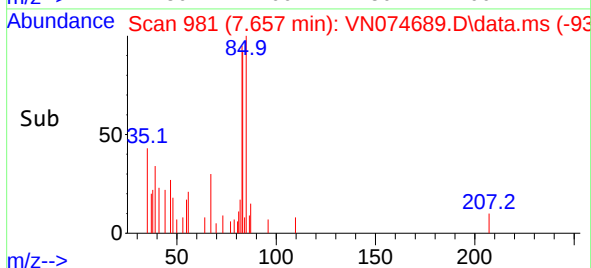
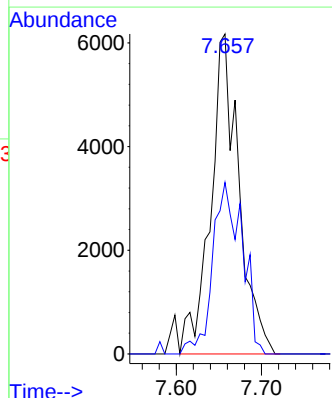
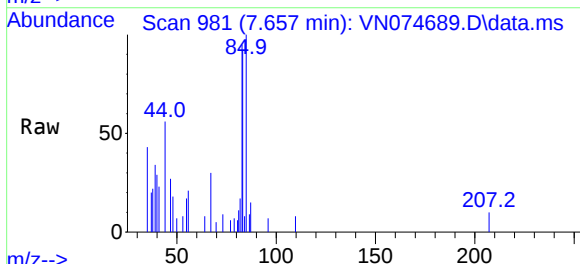
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MSVOA_N
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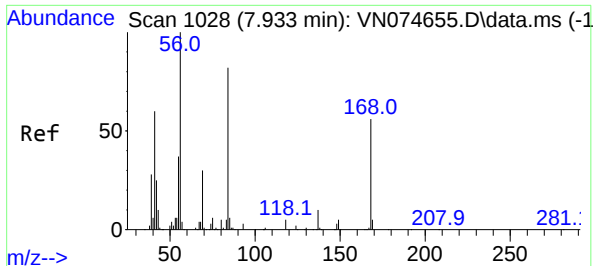
Tgt Ion: 43 Resp: 8267
Ion Ratio Lower Upper
43 100
72 38.4 23.7 35.5#



#30
Chloroform
Concen: 0.710 ug/l
RT: 7.657 min Scan# 981
Delta R.T. 0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 83 Resp: 14240
Ion Ratio Lower Upper
83 100
85 53.6 51.8 77.8





#31

Cyclohexane

Concen: 0.820 ug/l

RT: 7.934 min Scan# 1028

Delta R.T. 0.001 min

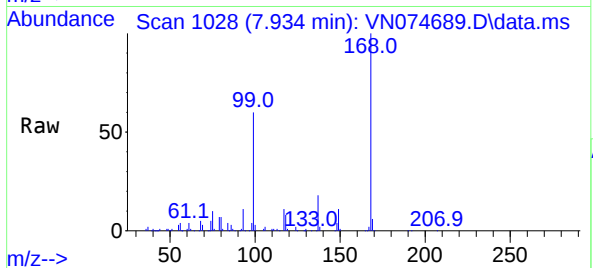
Lab File: VN074689.D

Acq: 01 Oct 2022 04:48

Instrument :

MSVOA_N

ClientSampleId :



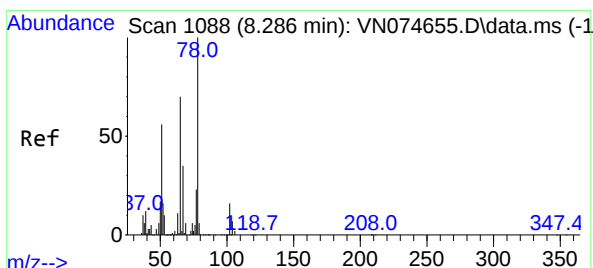
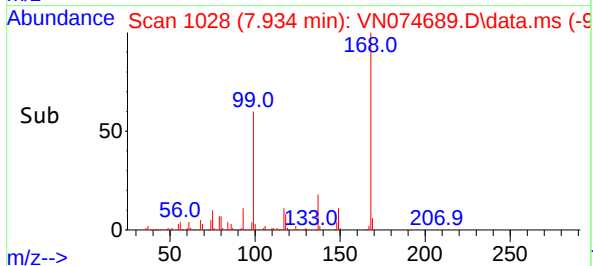
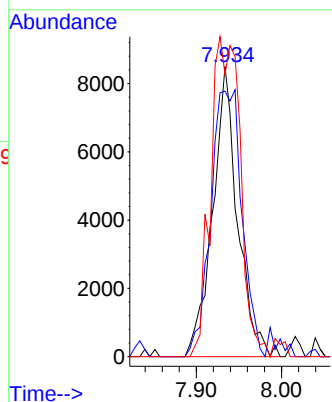
Tgt Ion: 56 Resp: 17353

Ion Ratio Lower Upper

56 100

69 91.6 27.8 41.8#

84 106.5 76.9 115.3



#33

1,2-Dichloroethane-d4

Concen: 51.304 ug/l

RT: 8.292 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN074689.D

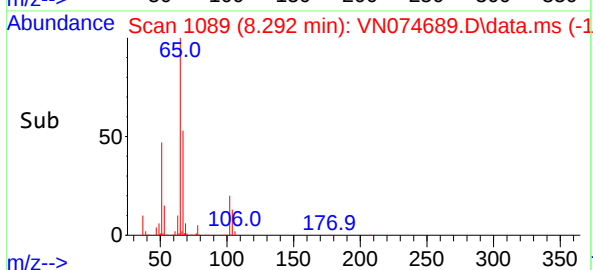
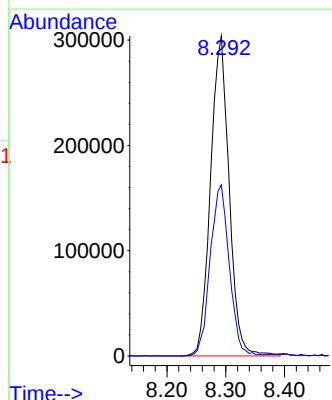
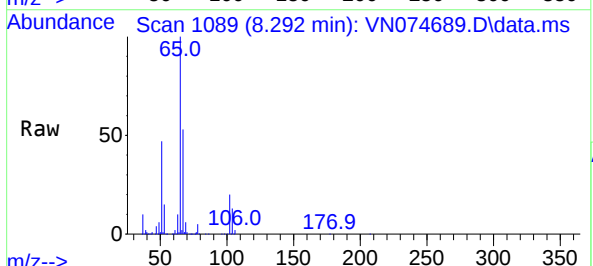
Acq: 01 Oct 2022 04:48

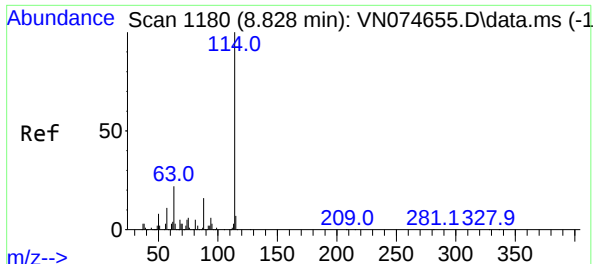
Tgt Ion: 65 Resp: 668613

Ion Ratio Lower Upper

65 100

67 54.9 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.828 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VN074689.D

Acq: 01 Oct 2022 04:48

Instrument :

MSVOA_N

ClientSampleId :

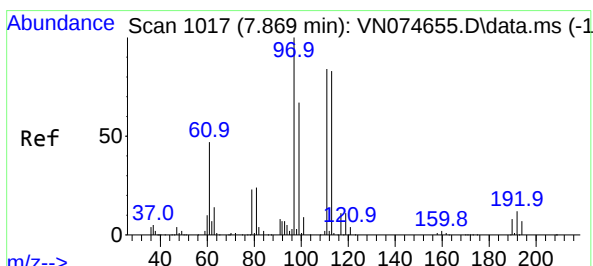
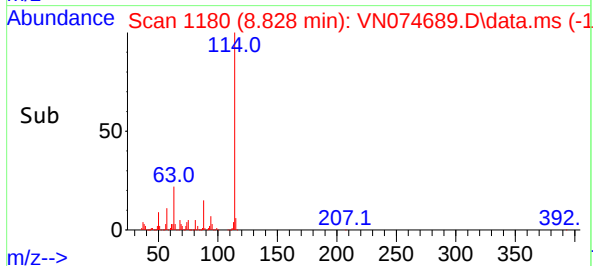
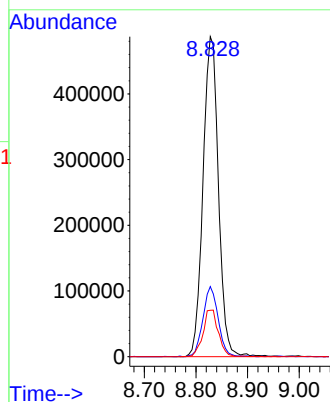
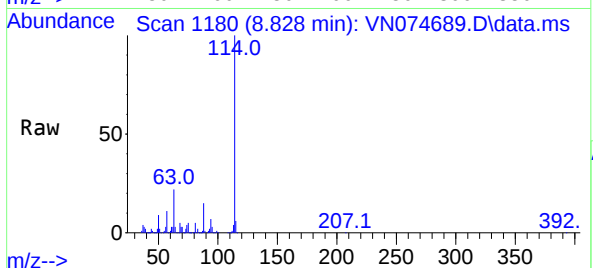
Tgt Ion:114 Resp: 1010451

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.0

88 14.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.338 ug/l

RT: 7.869 min Scan# 1017

Delta R.T. -0.000 min

Lab File: VN074689.D

Acq: 01 Oct 2022 04:48

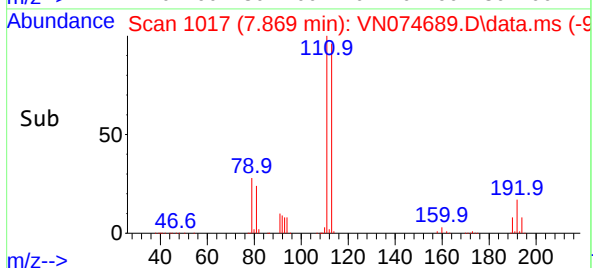
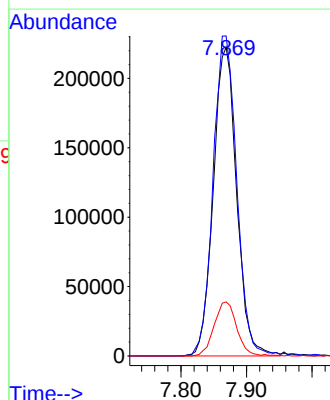
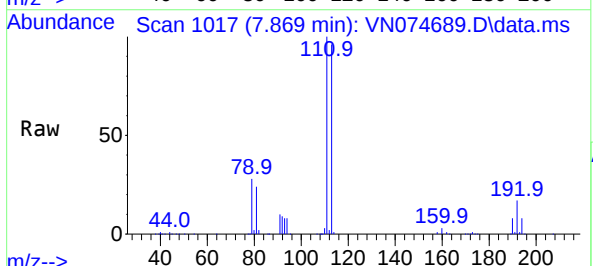
Tgt Ion:113 Resp: 549069

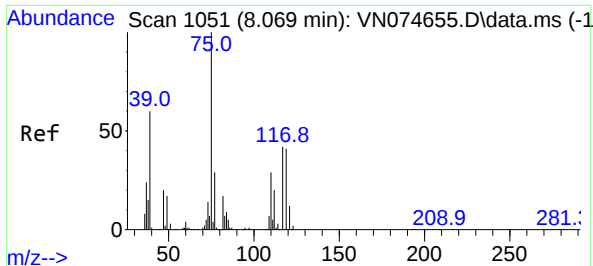
Ion Ratio Lower Upper

113 100

111 105.6 81.4 122.0

192 16.8 17.0 25.6#

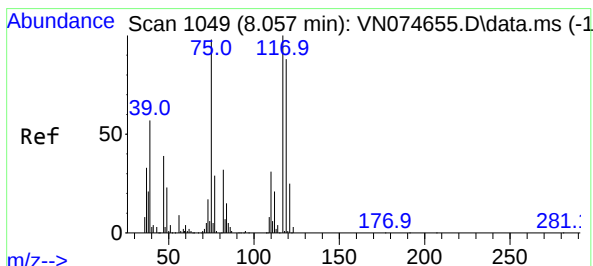
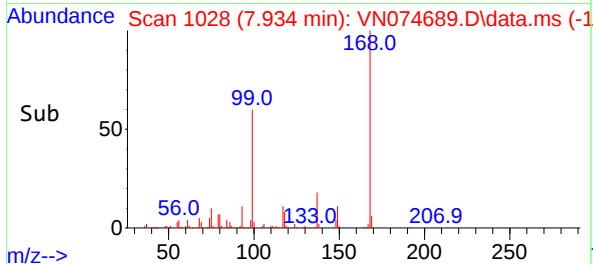
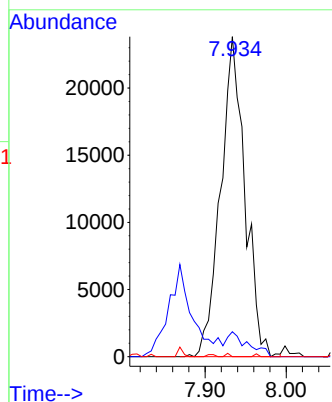
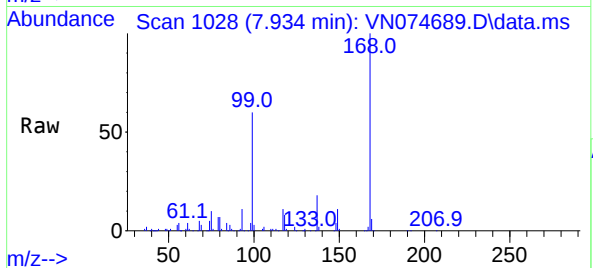




#36
1,1-Dichloropropene
Concen: 2.898 ug/l
RT: 7.934 min Scan# 1028
Delta R.T. -0.135 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

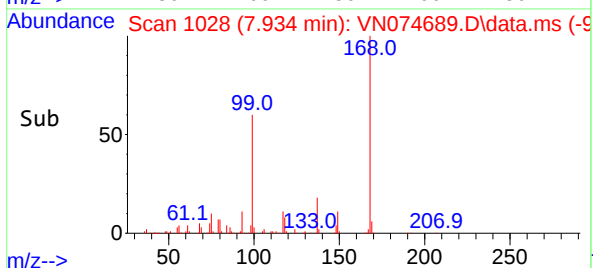
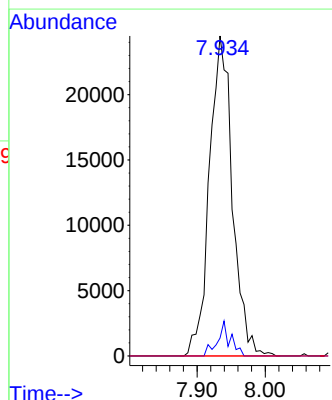
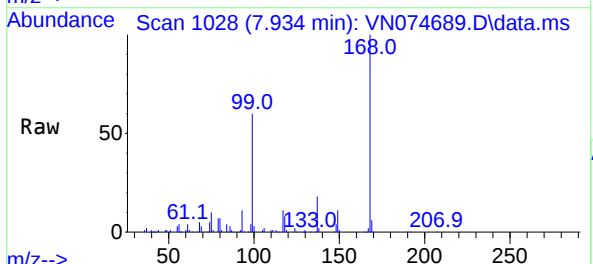
Instrument :
MSVOA_N
ClientSampleId :

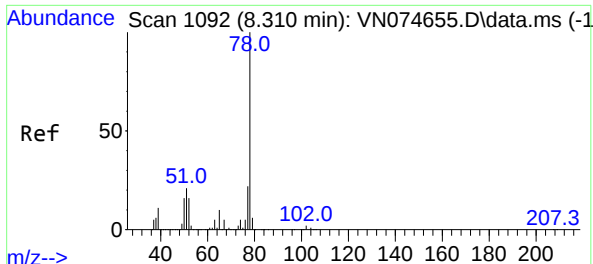
Tgt Ion: 75 Resp: 49642
Ion Ratio Lower Upper
75 100
110 6.6 18.3 54.8#
77 0.0 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 3.673 ug/l
RT: 7.934 min Scan# 1028
Delta R.T. -0.123 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 117 Resp: 57629
Ion Ratio Lower Upper
117 100
119 5.6 75.8 113.8#
121 0.0 24.6 37.0#

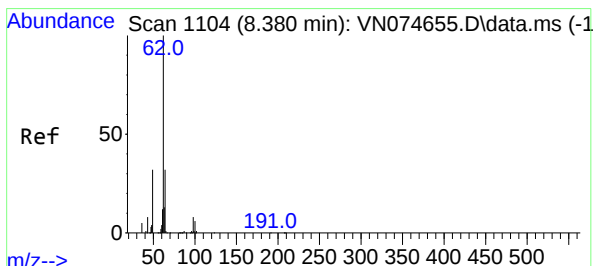
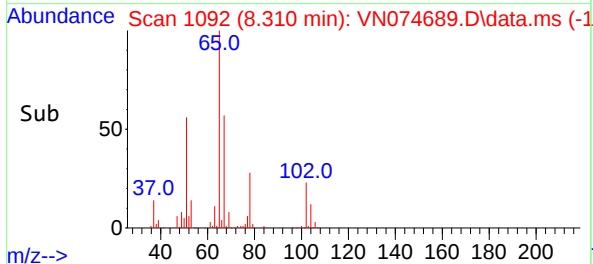
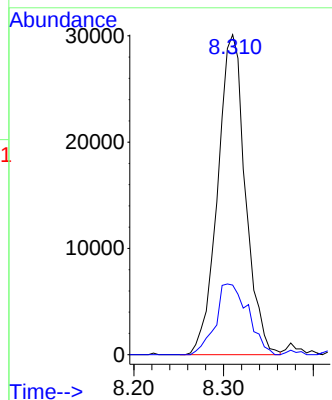
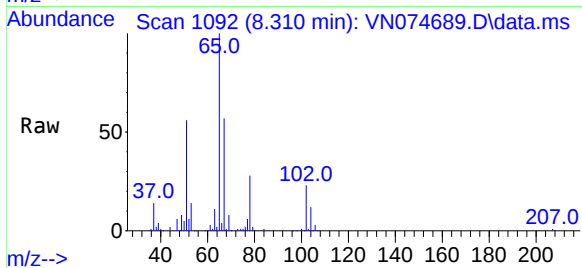




#40
Benzene
Concen: 1.224 ug/l
RT: 8.310 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

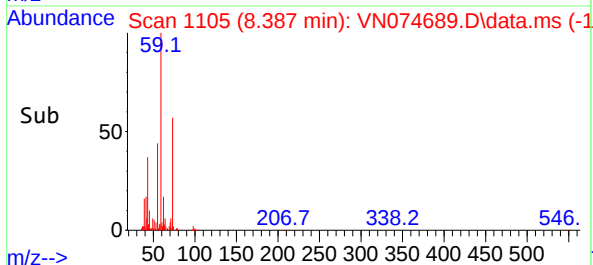
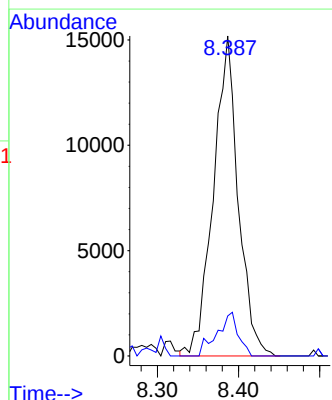
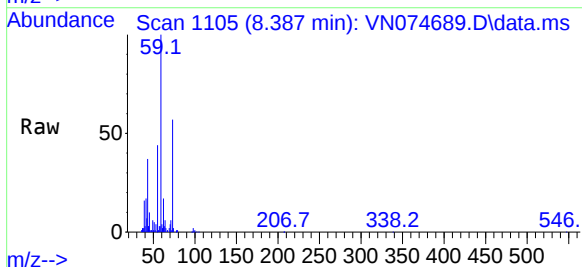
Instrument :
MSVOA_N
ClientSampleId :

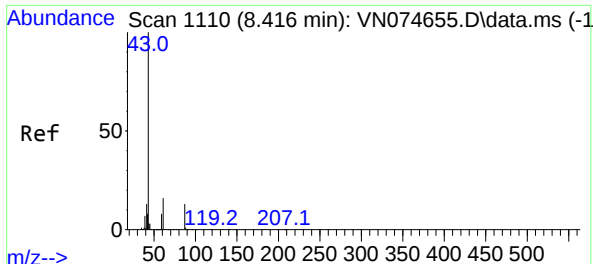
Tgt Ion: 78 Resp: 64602
Ion Ratio Lower Upper
78 100
77 21.8 19.4 29.0



#42
1,2-Dichloroethane
Concen: 1.825 ug/l
RT: 8.387 min Scan# 1105
Delta R.T. 0.007 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 62 Resp: 32359
Ion Ratio Lower Upper
62 100
98 11.6 0.0 19.4

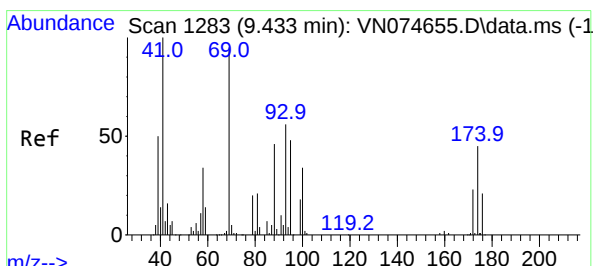
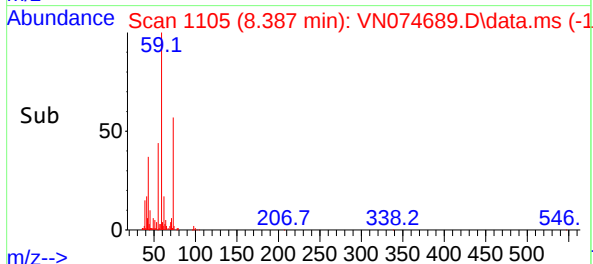
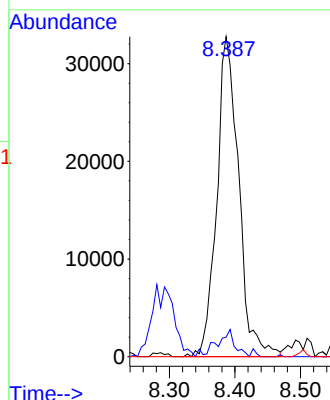
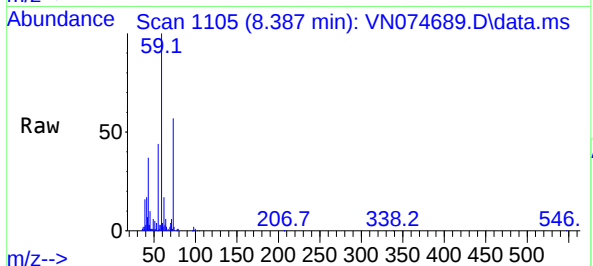




#43
Isopropyl Acetate
Concen: 1.875 ug/l
RT: 8.387 min Scan# 1110
Delta R.T. -0.029 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

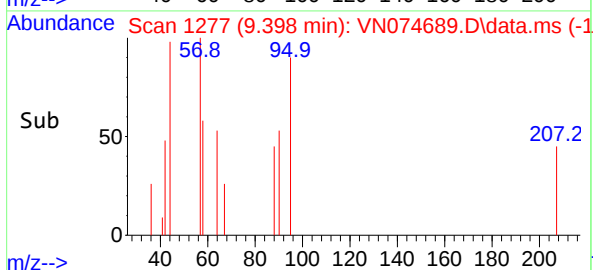
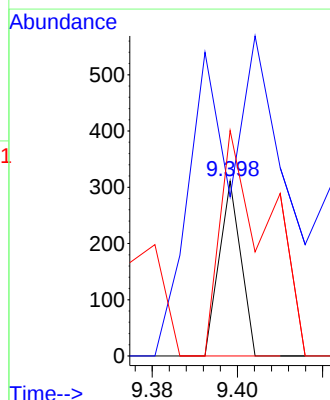
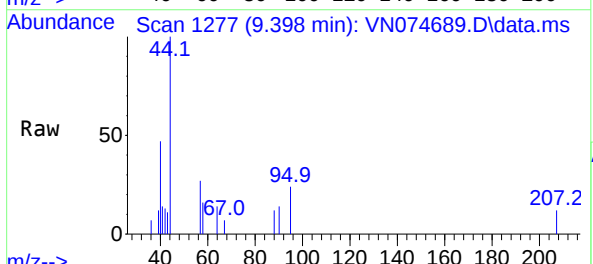
Instrument :
MSVOA_N
ClientSampleId :

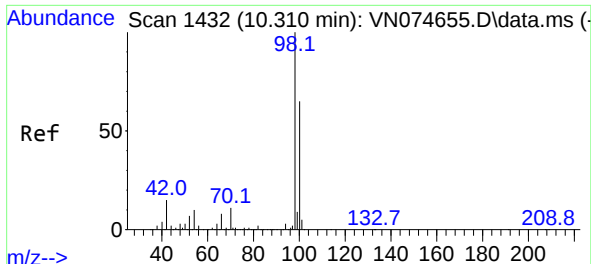
Tgt Ion: 43 Resp: 75990
Ion Ratio Lower Upper
43 100
61 6.8 21.9 32.9#
87 0.0 12.0 18.0#



#49
1,4-Dioxane
Concen: 0.345 ug/l
RT: 9.398 min Scan# 1277
Delta R.T. -0.035 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 88 Resp: 110
Ion Ratio Lower Upper
88 100
43 771.8 20.2 30.4#
58 280.9 54.2 81.4#

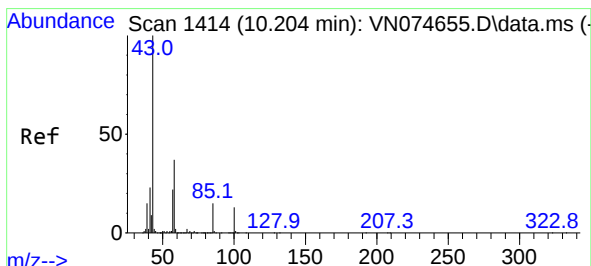
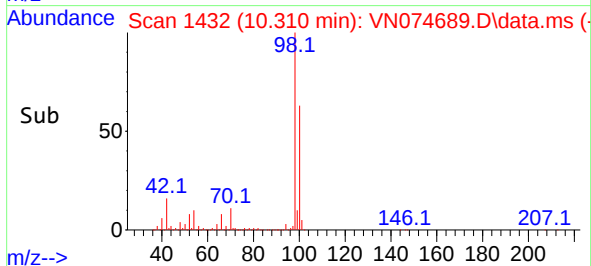
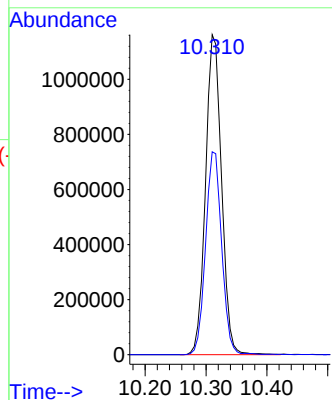
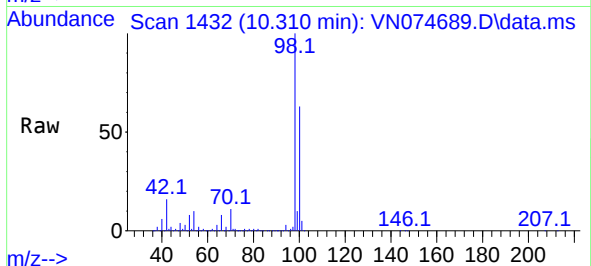




#50
Toluene-d8
Concen: 47.172 ug/l
RT: 10.310 min Scan# 1432
Delta R.T. -0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

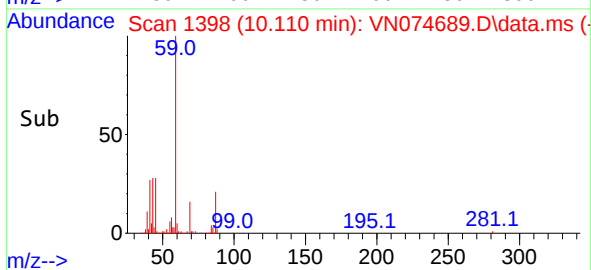
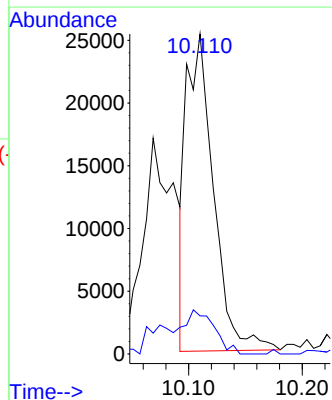
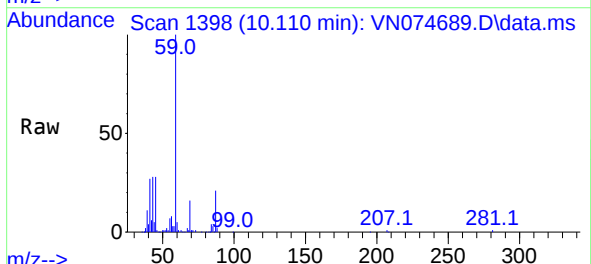
Instrument :
MSVOA_N
ClientSampleId :

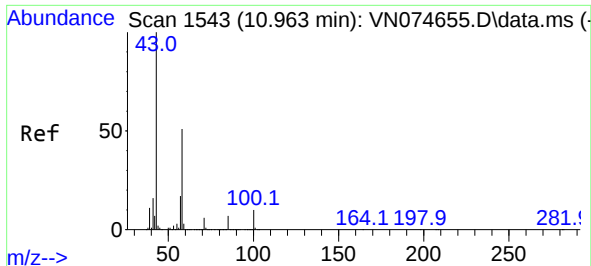
Tgt Ion: 98 Resp: 2122135
Ion Ratio Lower Upper
98 100
100 63.8 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.639 ug/l
RT: 10.110 min Scan# 1398
Delta R.T. -0.094 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 43 Resp: 42035
Ion Ratio Lower Upper
43 100
58 15.7 34.1 51.1#

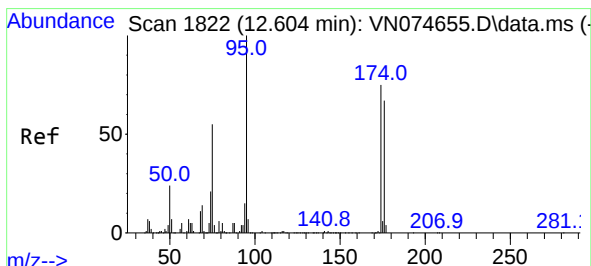
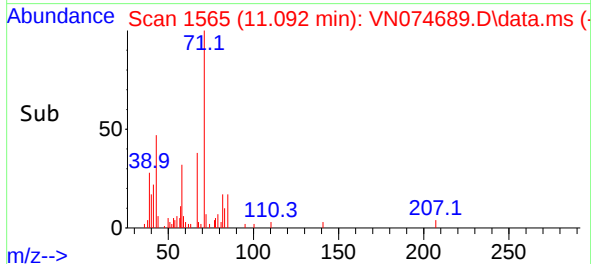
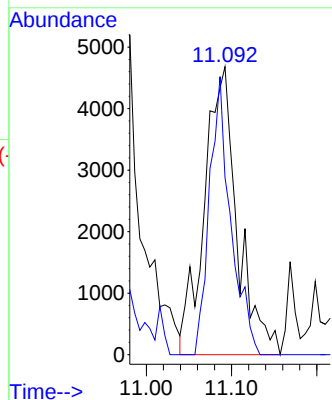
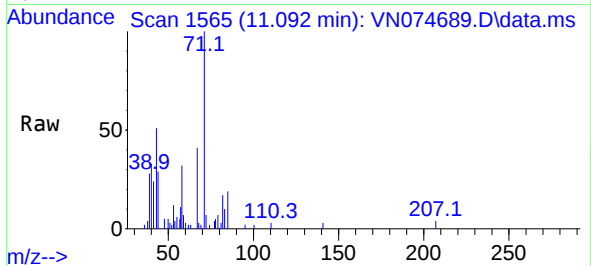




#59
2-Hexanone
Concen: 0.651 ug/l
RT: 11.092 min Scan# 11
Delta R.T. 0.129 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

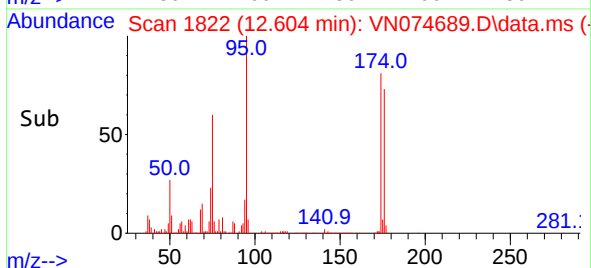
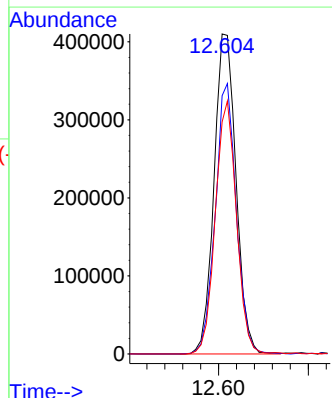
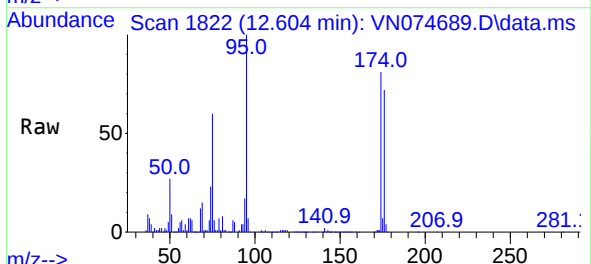
Instrument :
MSVOA_N
ClientSampleId :

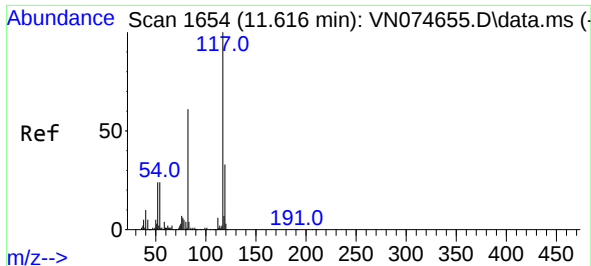
Tgt Ion: 43 Resp: 12621
Ion Ratio Lower Upper
43 100
58 62.2 29.7 89.1



#62
4-Bromofluorobenzene
Concen: 48.893 ug/l
RT: 12.604 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 95 Resp: 697451
Ion Ratio Lower Upper
95 100
174 80.9 0.0 167.6
176 76.0 0.0 163.4

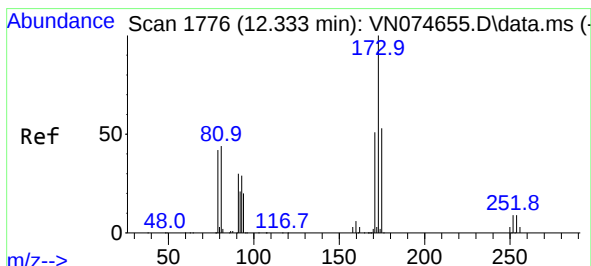
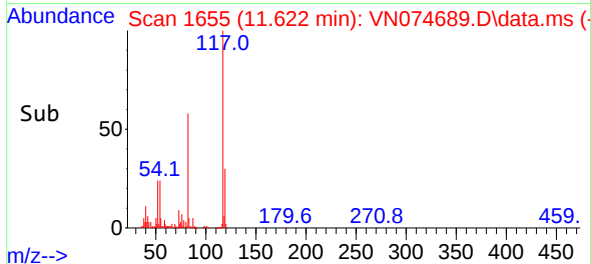
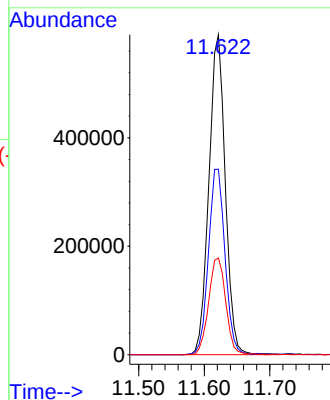
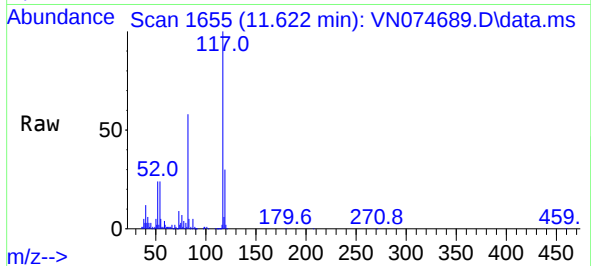




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

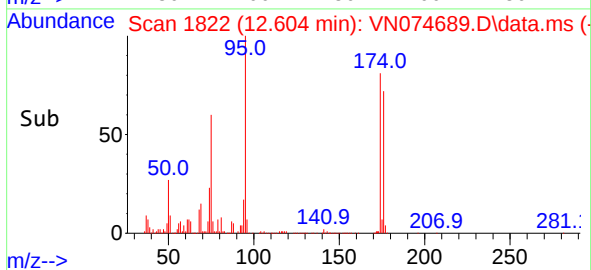
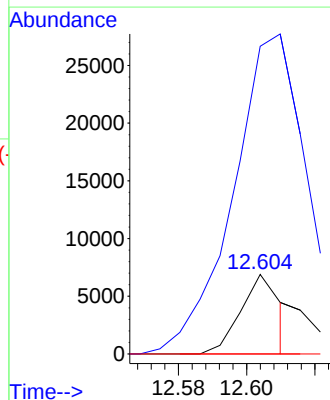
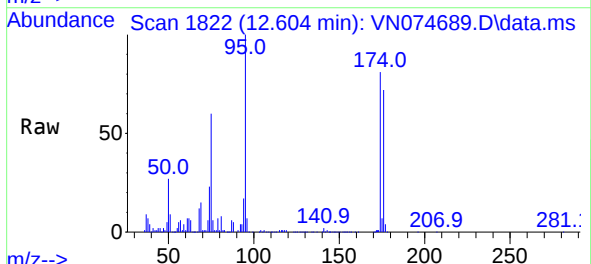
Instrument :
MSVOA_N
ClientSampleId :

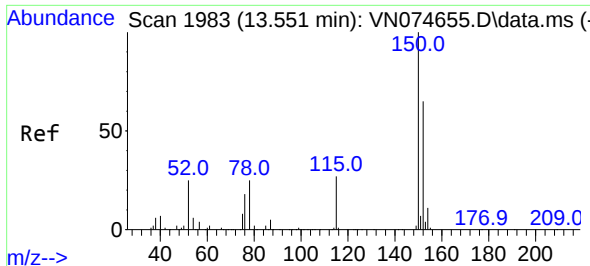
Tgt Ion:117 Resp: 1026557
Ion Ratio Lower Upper
117 100
82 58.0 44.2 66.2
119 30.2 25.4 38.0



#71
Bromoform
Concen: 0.630 ug/l
RT: 12.604 min Scan# 1822
Delta R.T. 0.271 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion:173 Resp: 5538
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#

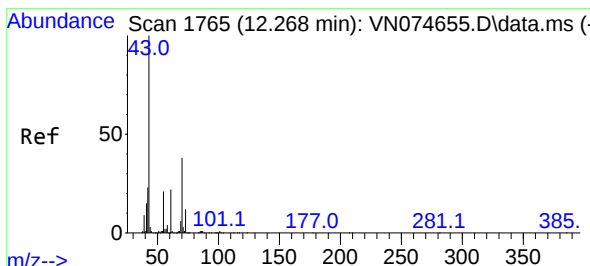
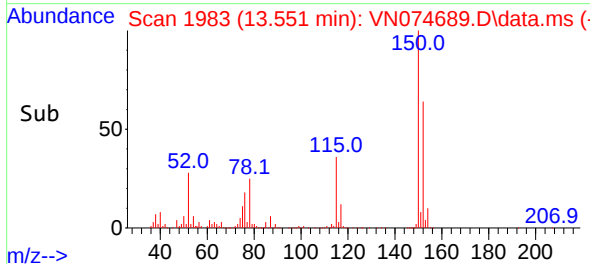
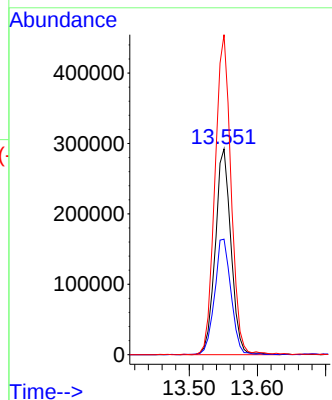
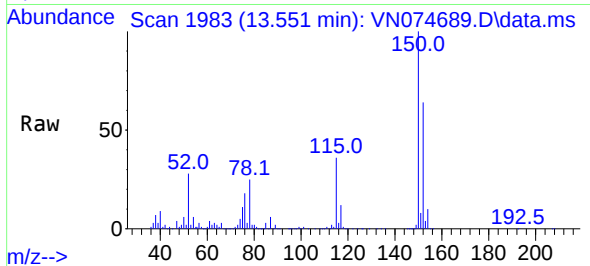




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.551 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

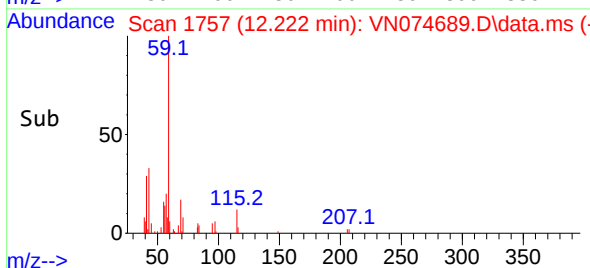
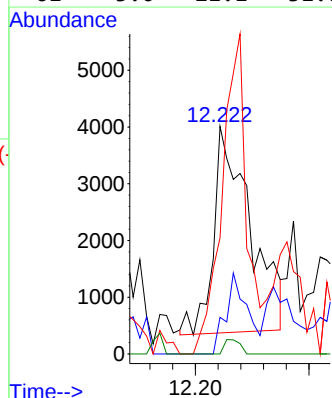
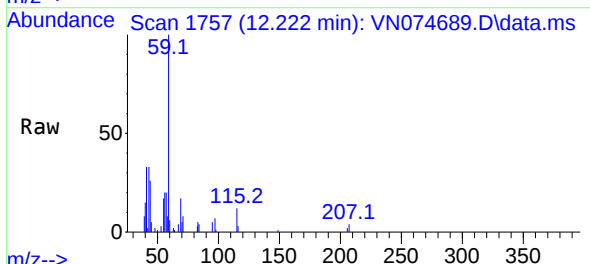
Instrument :
MSVOA_N
ClientSampleId :

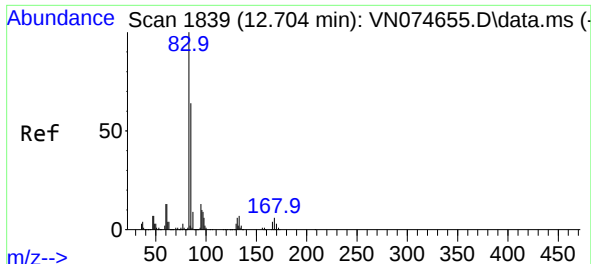
Tgt Ion:152 Resp: 469259
Ion Ratio Lower Upper
152 100
115 58.7 28.9 86.7
150 158.2 0.0 356.2



#74
N-ethyl acetate
Concen: Below Cal
RT: 12.222 min Scan# 1757
Delta R.T. -0.046 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 43 Resp: 8204
Ion Ratio Lower Upper
43 100
70 23.0 39.0 58.4#
55 102.0 21.1 31.7#
61 3.0 21.1 31.7#

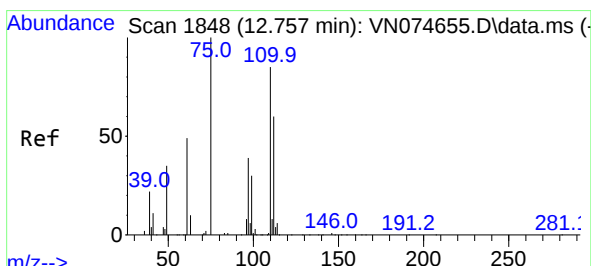
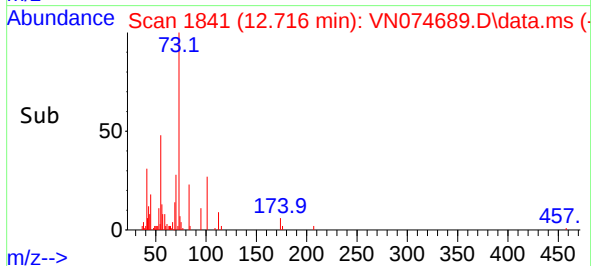
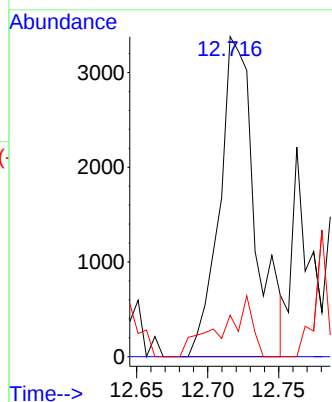
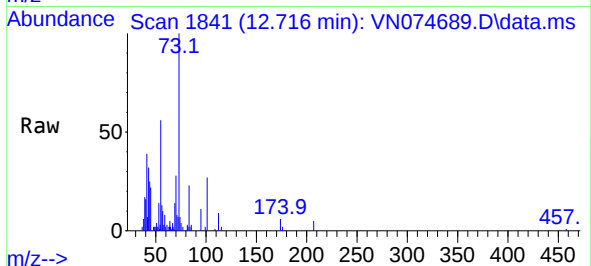




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.716 min Scan# 1841
Delta R.T. 0.012 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

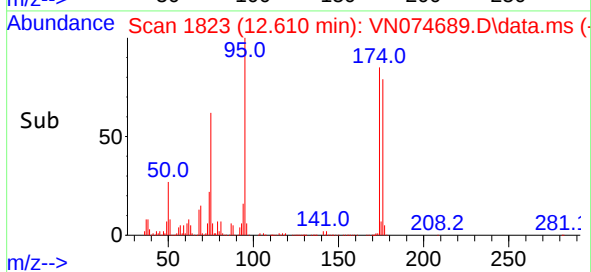
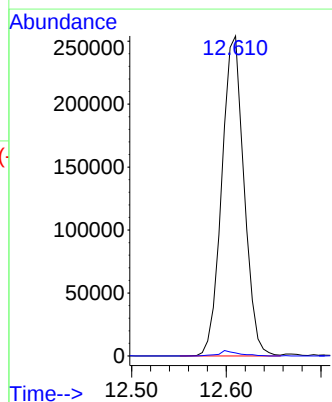
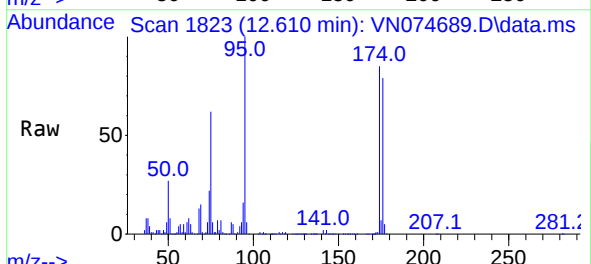
Instrument :
MSVOA_N
ClientSampleId :

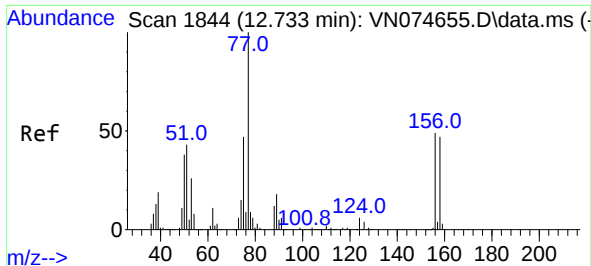
Tgt Ion: 83 Resp: 5877
Ion Ratio Lower Upper
83 100
131 0.0 5.3 15.9#
85 16.6 32.3 96.9#



#76
1,2,3-Trichloropropane
Concen: 39.044 ug/l
RT: 12.610 min Scan# 1823
Delta R.T. -0.147 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

Tgt Ion: 75 Resp: 415051
Ion Ratio Lower Upper
75 100
77 1.5 98.5 295.5#

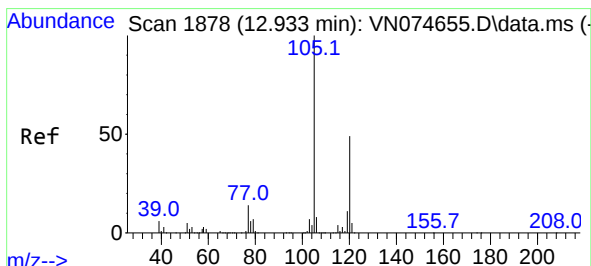
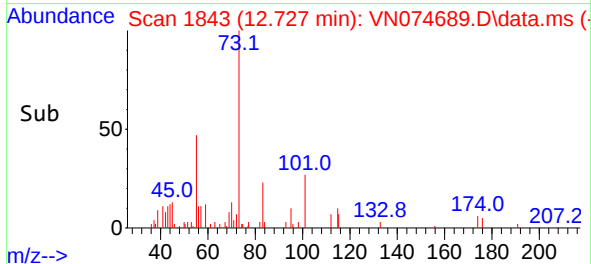
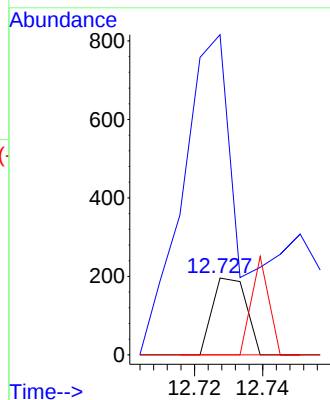
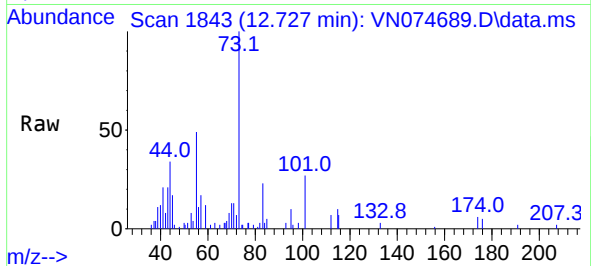




#77
Bromobenzene
Concen: Below Cal
RT: 12.727 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

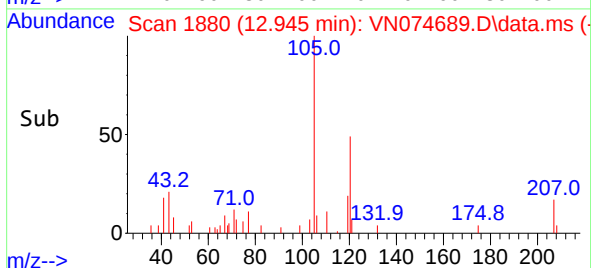
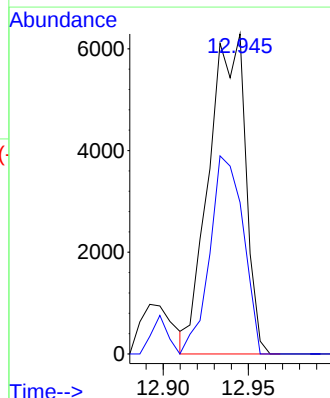
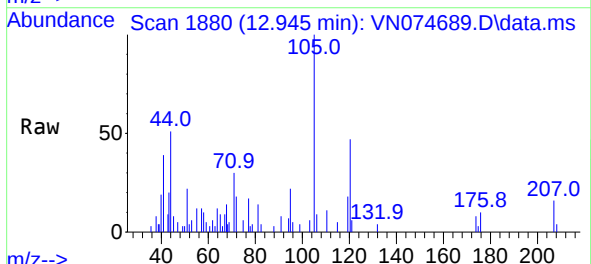
Instrument :
MSVOA_N
ClientSampleId :

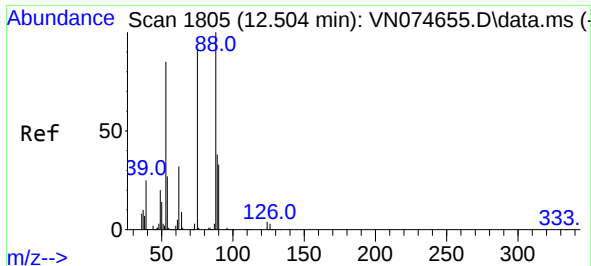
Tgt Ion:156 Resp: 135
Ion Ratio Lower Upper
156 100
77 663.7 100.5 301.5#
158 0.0 48.9 146.6#



#80
1,3,5-Trimethylbenzene
Concen: 0.267 ug/l
RT: 12.945 min Scan# 1880
Delta R.T. 0.012 min
Lab File: VN074689.D
Acq: 01 Oct 2022 04:48

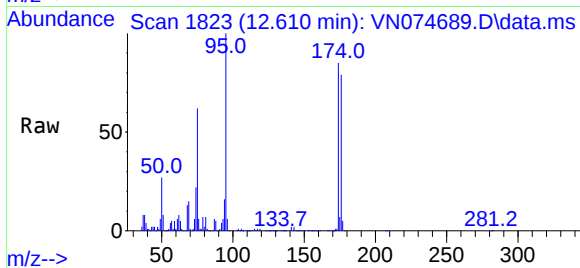
Tgt Ion:105 Resp: 9360
Ion Ratio Lower Upper
105 100
120 56.6 24.9 74.7



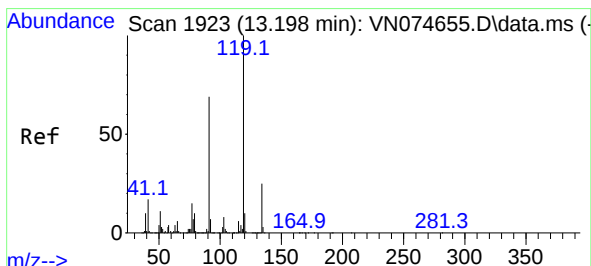
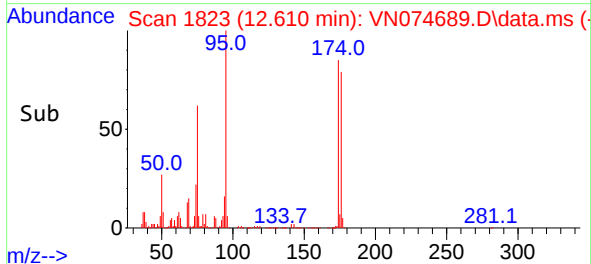
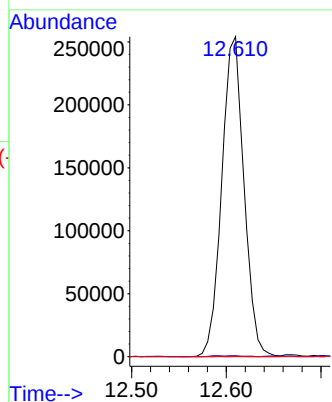


#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.913 ug/l
 RT: 12.610 min Scan# 1823
 Delta R.T. 0.106 min
 Lab File: VN074689.D
 Acq: 01 Oct 2022 04:48

Instrument :
 MSVOA_N
 ClientSampleId :

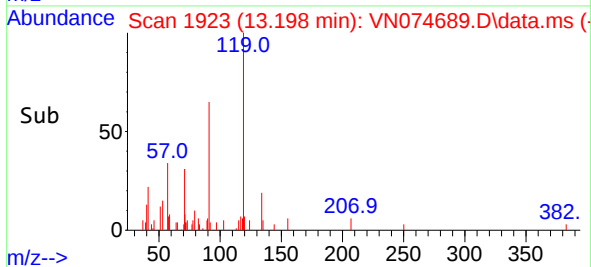
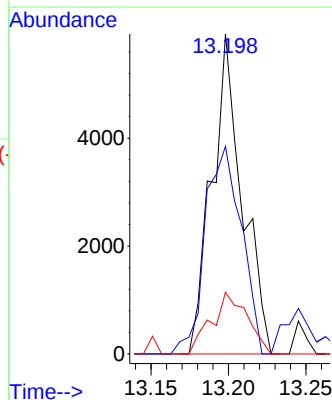
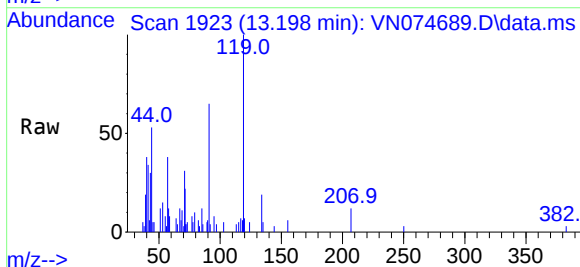


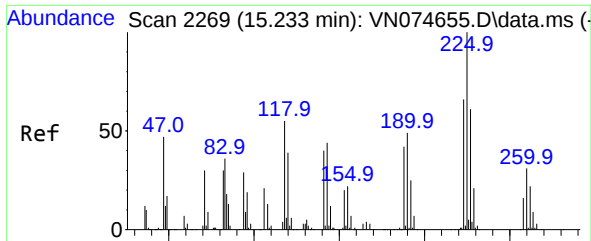
Tgt Ion: 75 Resp: 415051
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.1 37.2 55.8#



#83
 tert-Butylbenzene
 Concen: 0.258 ug/l
 RT: 13.198 min Scan# 1923
 Delta R.T. 0.000 min
 Lab File: VN074689.D
 Acq: 01 Oct 2022 04:48

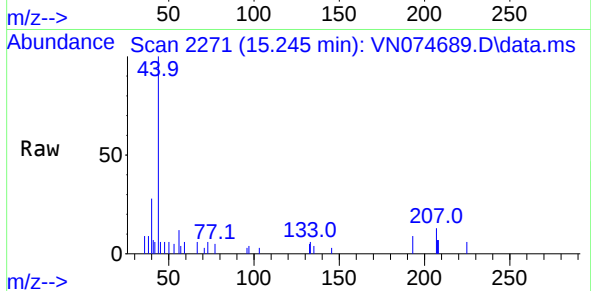
Tgt Ion: 119 Resp: 8096
 Ion Ratio Lower Upper
 119 100
 91 77.1 31.6 94.8
 134 22.5 13.7 41.1





#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.245 min Scan# 211
 Delta R.T. 0.012 min
 Lab File: VN074689.D
 Acq: 01 Oct 2022 04:48

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	225	Resp:	111
Ion	Ratio	Lower	Upper
225	100		
223	0.0	32.4	97.2#
227	47.7	31.8	95.4

