

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032222\
 Data File : VN071467.D
 Acq On : 22 Mar 2022 15:20
 Operator : JC\MD
 Sample : N2040-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 23 07:08:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.080	168	659938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1122552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1045631	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	371946	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	440226	48.672	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.340%
35) Dibromofluoromethane	8.022	113	331136	46.746	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.500%
50) Toluene-d8	10.439	98	1369560	48.019	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.040%
62) 4-Bromofluorobenzene	12.727	95	491818	50.924	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	101.840%

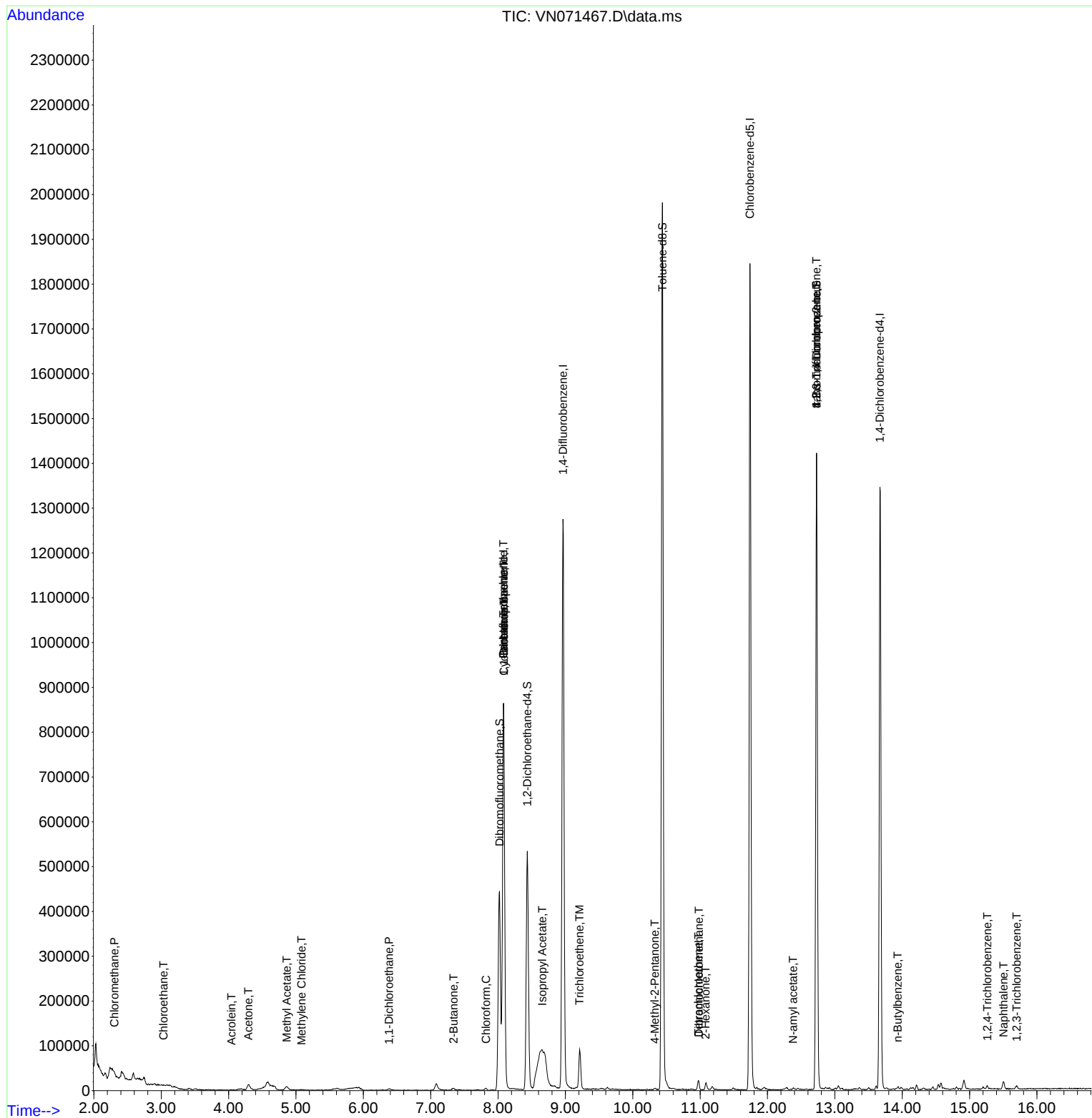
Target Compounds				Qvalue		
3) Chloromethane	2.304	50	2556	0.229	ug/l #	83
5) Bromomethane	2.851	94	799	Below Cal		81
6) Chloroethane	3.034	64	1849	0.344	ug/l #	42
13) Acrolein	4.040	56	746	0.397	ug/l	97
16) Acetone	4.292	43	20178	4.585	ug/l #	84
18) Methyl Acetate	4.863	43	18280	2.002	ug/l	94
20) Methylene Chloride	5.081	84	375	0.428	ug/l #	10
24) 1,1-Dichloroethane	6.381	63	4852	0.324	ug/l #	83
25) 2-Butanone	7.339	43	6664	0.940	ug/l #	79
30) Chloroform	7.822	83	4156	0.291	ug/l	99
31) Cyclohexane	8.086	56	14134	0.979	ug/l #	26
36) 1,1-Dichloropropene	8.086	75	51500	4.538	ug/l #	49
38) Carbon Tetrachloride	8.080	117	64136	5.842	ug/l #	16
43) Isopropyl Acetate	8.657	43	189615	8.118	ug/l #	55
44) Trichloroethene	9.210	130	31854	3.948	ug/l	84
51) 4-Methyl-2-Pentanone	10.327	43	3396	0.234	ug/l #	74
59) 2-Hexanone	11.080	43	6639	0.671	ug/l	85
60) Dibromochloromethane	10.980	129	4508	0.538	ug/l #	11
64) Tetrachloroethene	10.974	164	4762	0.653	ug/l #	92
74) N-amyl acetate	12.380	43	3471	0.257	ug/l #	77
75) 1,1,2,2-Tetrachloroethane	12.827	83	1003	Below Cal	#	86
76) 1,2,3-Trichloropropane	12.727	75	255418	27.037	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	255418	74.233	ug/l #	5
89) n-Butylbenzene	13.933	91	4555	0.224	ug/l	94
93) 1,2,4-Trichlorobenzene	15.262	180	2722	3.409	ug/l	94
95) Naphthalene	15.504	128	16792	5.953	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.698	180	3204	3.251	ug/l	92

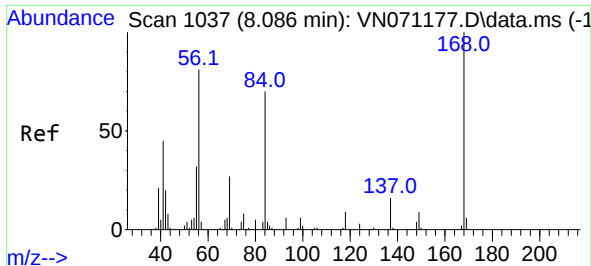
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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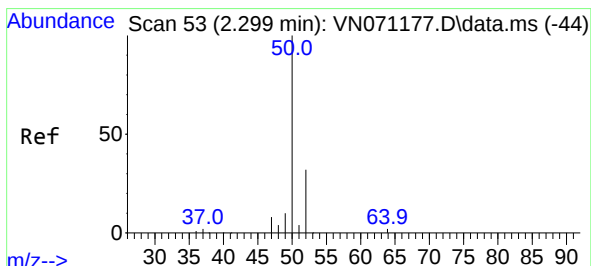
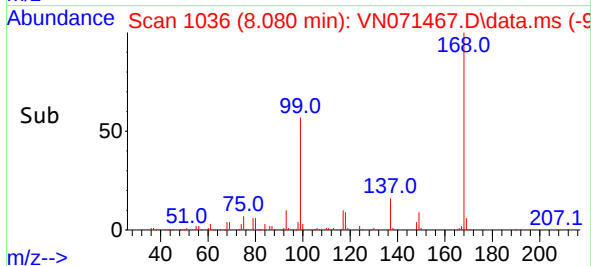
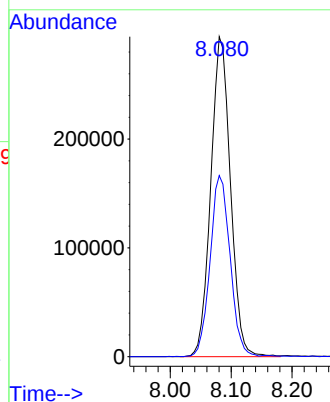
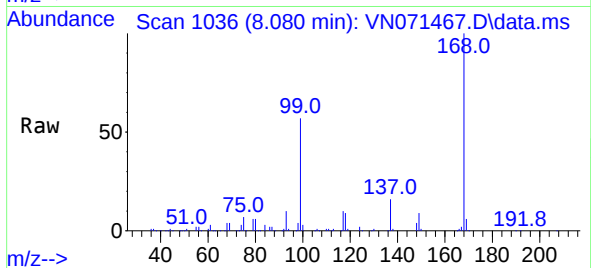




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

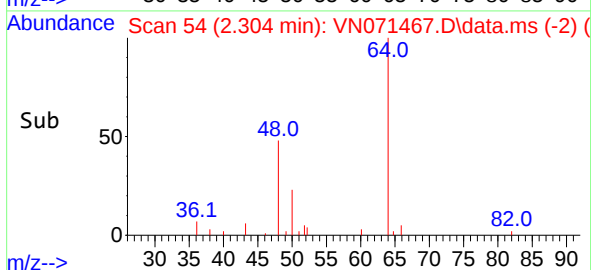
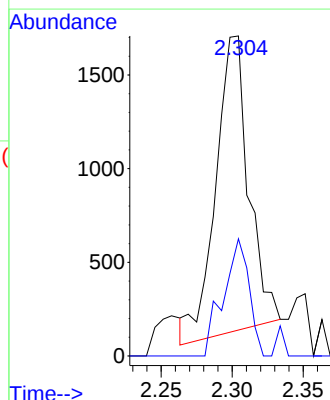
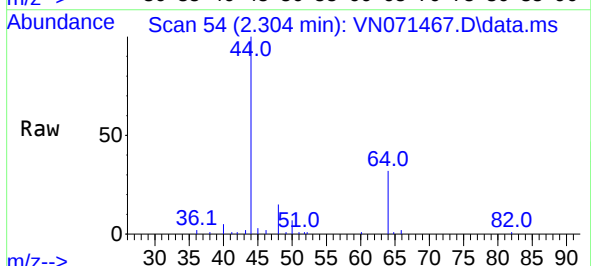
Instrument :
MSVOA_N
ClientSampleId :

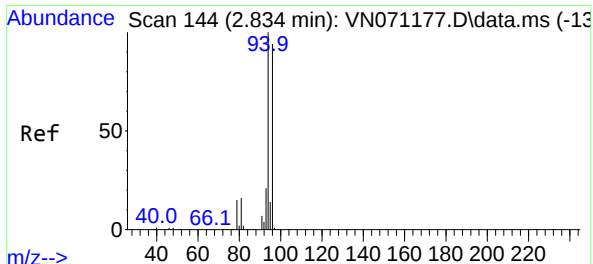
Tgt Ion:168 Resp: 659938
Ion Ratio Lower Upper
168 100
99 56.5 41.3 61.9



#3
Chloromethane
Concen: 0.229 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.005 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 50 Resp: 2556
Ion Ratio Lower Upper
50 100
52 41.3 25.4 38.0#

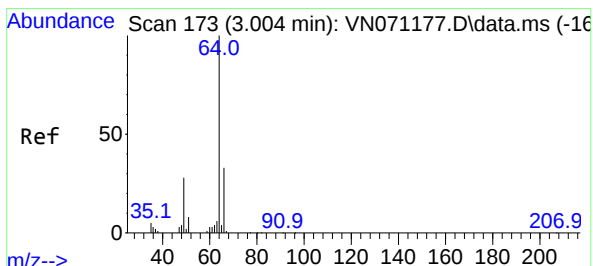
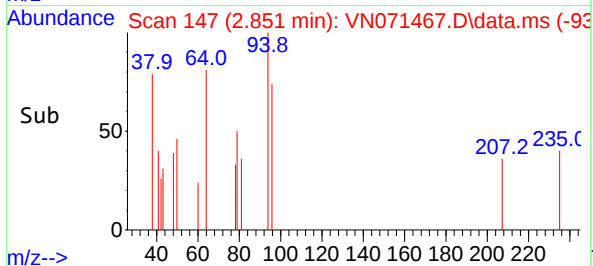
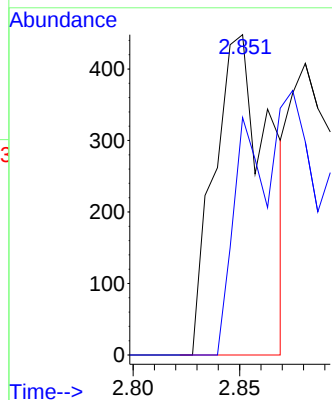
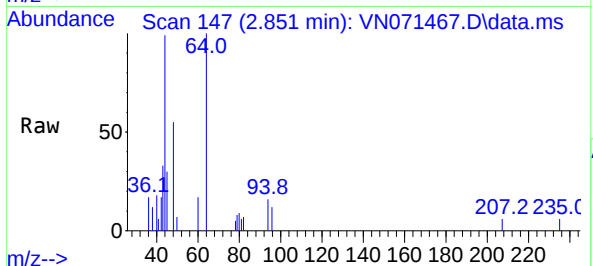




#5
Bromomethane
Concen: Below Cal
RT: 2.851 min Scan# 144
Delta R.T. 0.017 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

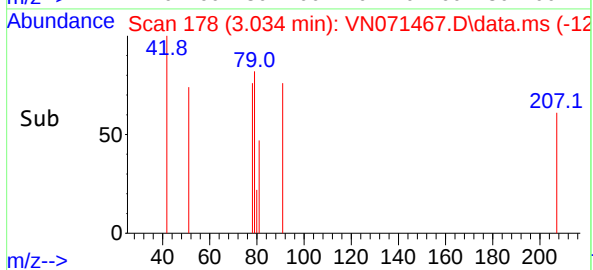
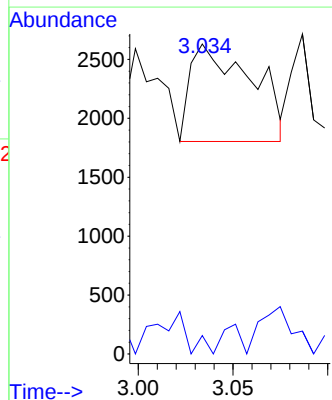
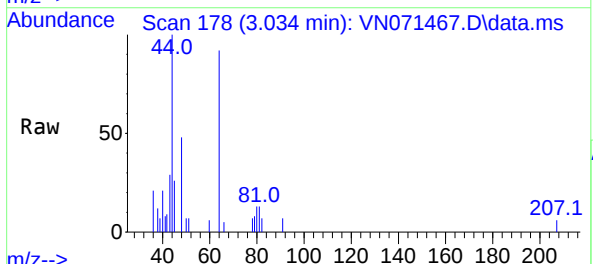
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ClientSampleId :

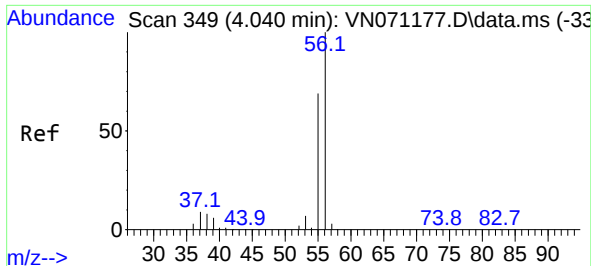
Tgt Ion: 94 Resp: 799
Ion Ratio Lower Upper
94 100
96 74.1 73.8 110.8



#6
Chloroethane
Concen: 0.344 ug/l
RT: 3.034 min Scan# 178
Delta R.T. 0.030 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 64 Resp: 1849
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#

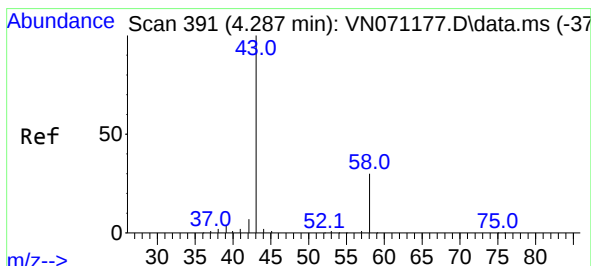
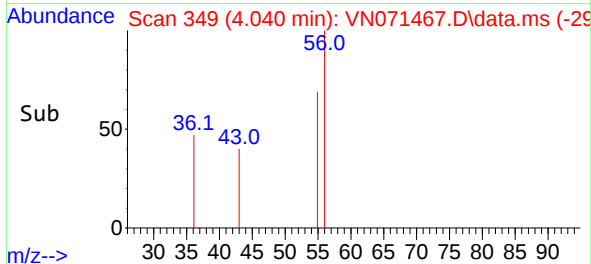
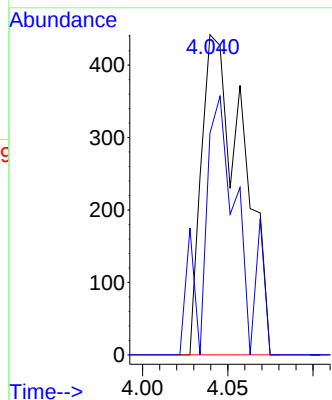
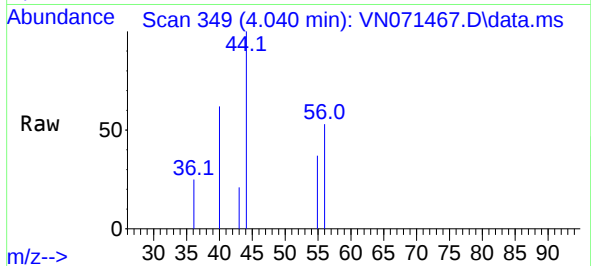




#13
Acrolein
Concen: 0.397 ug/l
RT: 4.040 min Scan# 349
Delta R.T. -0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

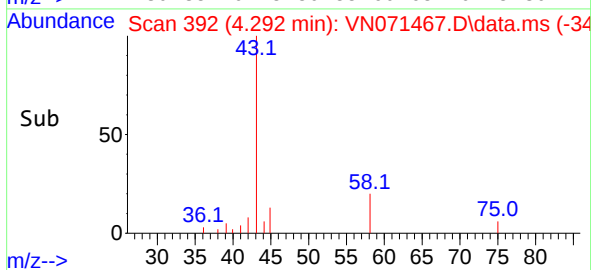
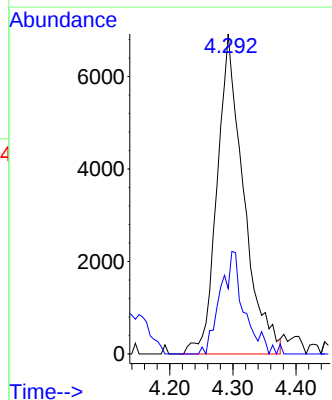
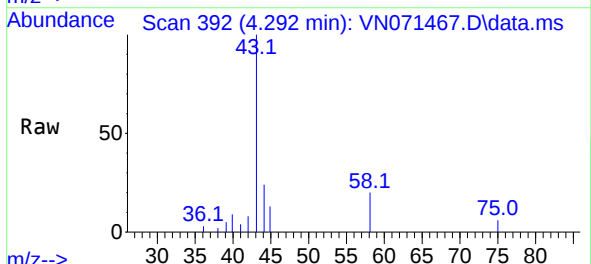
Instrument :
MSVOA_N
ClientSampleId :

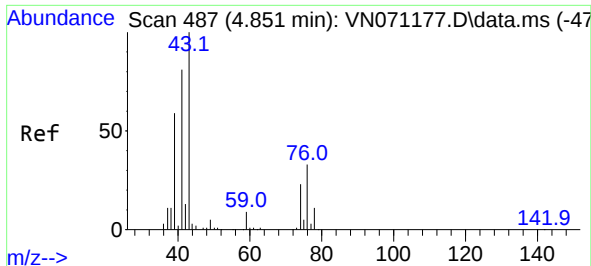
Tgt Ion: 56 Resp: 746
Ion Ratio Lower Upper
56 100
55 68.6 56.6 85.0



#16
Acetone
Concen: 4.585 ug/l
RT: 4.292 min Scan# 392
Delta R.T. 0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 43 Resp: 20178
Ion Ratio Lower Upper
43 100
58 20.5 23.1 34.7#

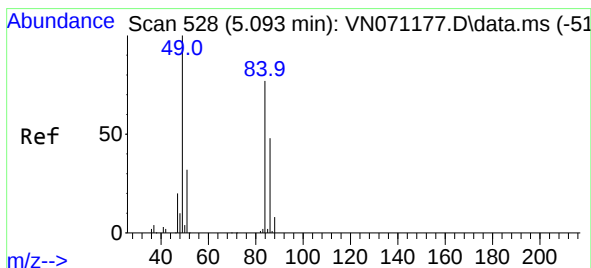
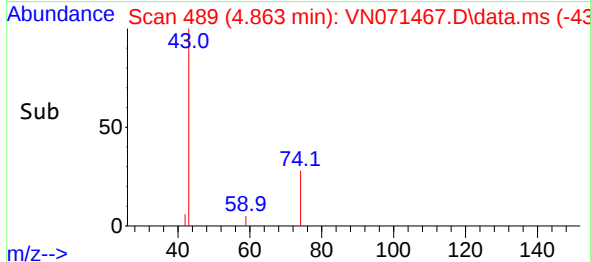
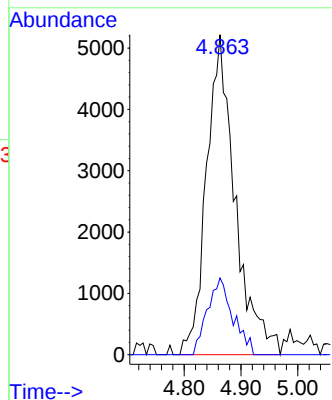
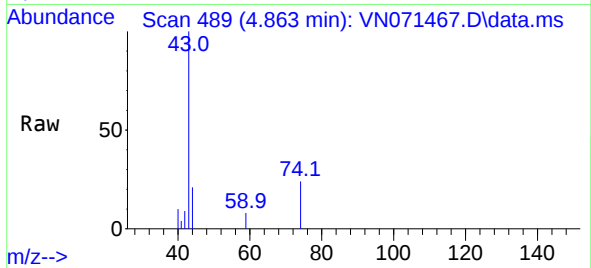




#18
Methyl Acetate
Concen: 2.002 ug/l
RT: 4.863 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

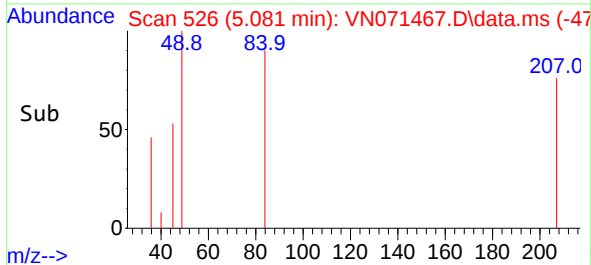
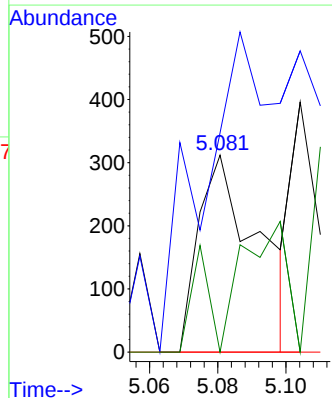
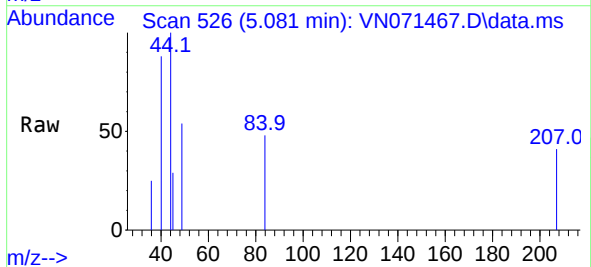
Instrument :
MSVOA_N
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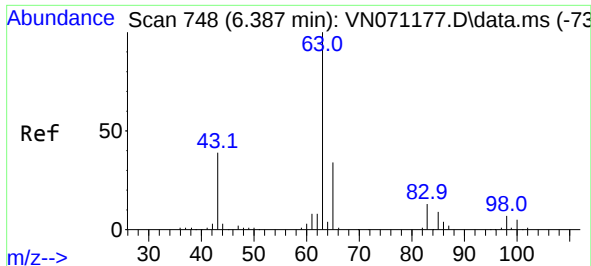
Tgt Ion: 43 Resp: 18280
Ion Ratio Lower Upper
43 100
74 21.3 19.4 29.2



#20
Methylene Chloride
Concen: 0.428 ug/l
RT: 5.081 min Scan# 526
Delta R.T. -0.012 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 84 Resp: 375
Ion Ratio Lower Upper
84 100
49 4.8 93.5 140.3#
51 0.0 29.4 44.2#
86 0.0 53.0 79.4#

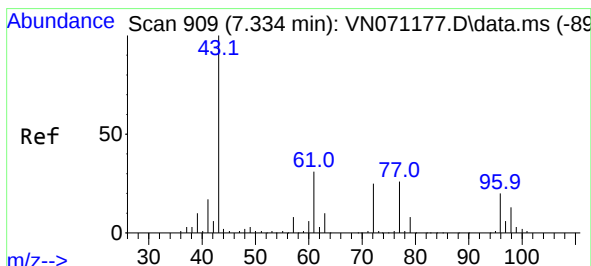
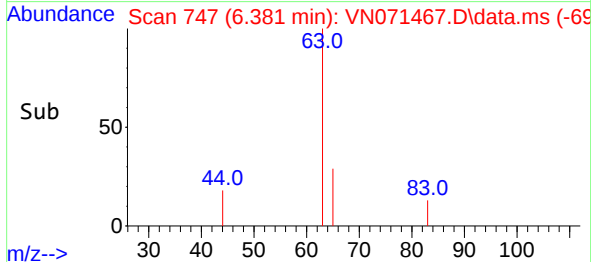
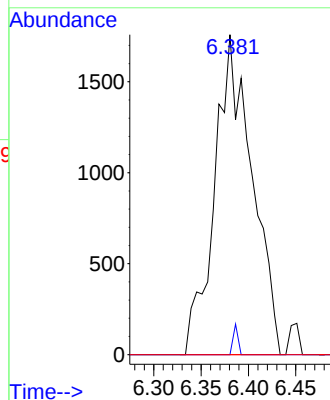
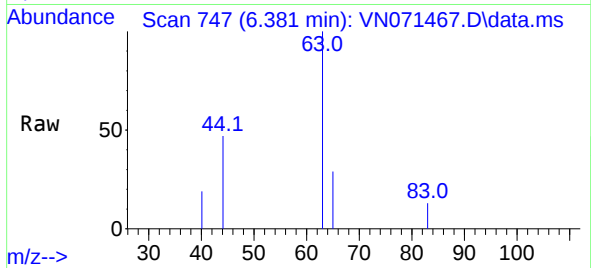




#24
1,1-Dichloroethane
Concen: 0.324 ug/l
RT: 6.381 min Scan# 74
Delta R.T. -0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

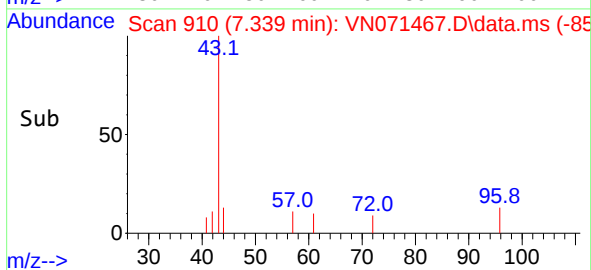
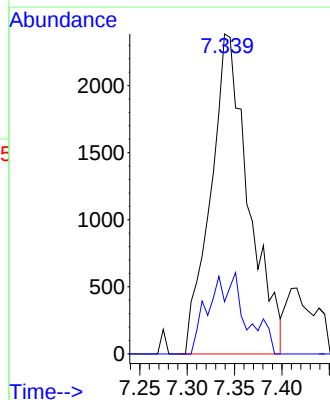
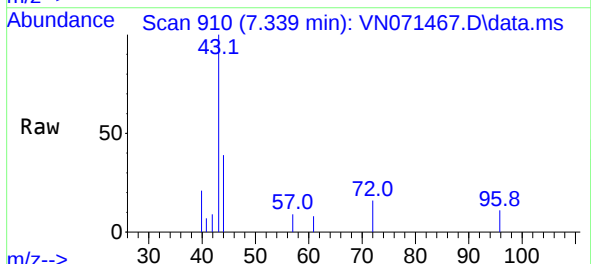
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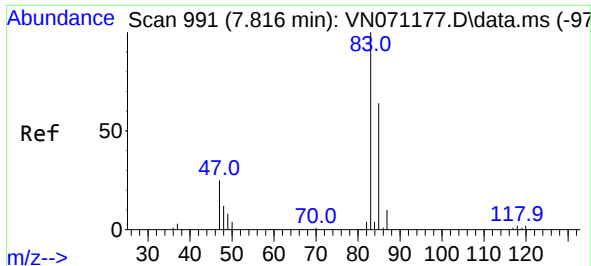
Tgt Ion: 63 Resp: 4852
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.9#
100 0.0 2.1 6.5#



#25
2-Butanone
Concen: 0.940 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 43 Resp: 6664
Ion Ratio Lower Upper
43 100
72 16.3 21.7 32.5#





#30

Chloroform

Concen: 0.291 ug/l

RT: 7.822 min Scan# 991

Delta R.T. 0.006 min

Lab File: VN071467.D

Acq: 22 Mar 2022 15:20

Instrument :

MSVOA_N

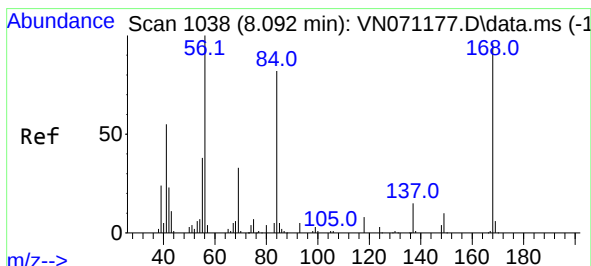
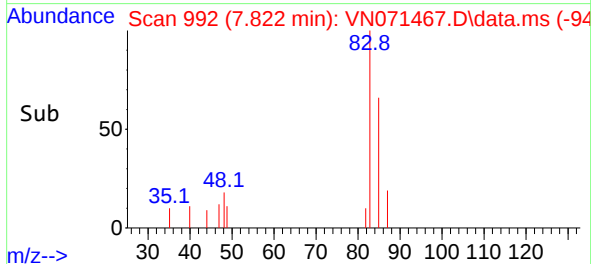
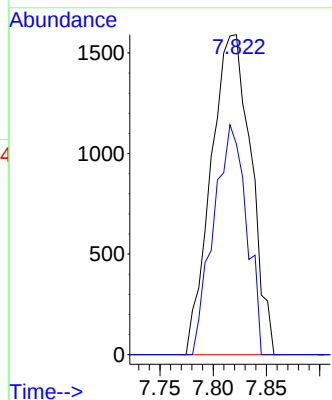
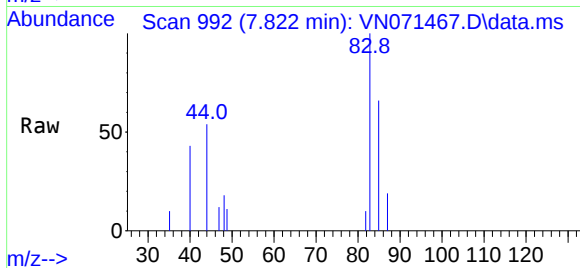
ClientSampleId :

Tgt Ion: 83 Resp: 4156

Ion Ratio Lower Upper

83 100

85 65.8 51.9 77.9



#31

Cyclohexane

Concen: 0.979 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VN071467.D

Acq: 22 Mar 2022 15:20

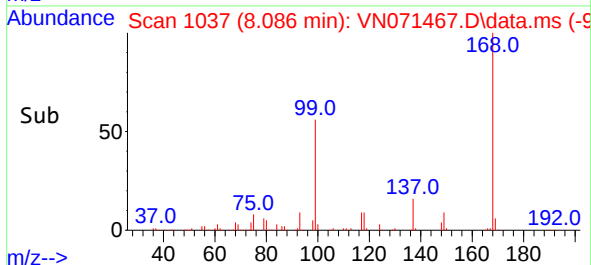
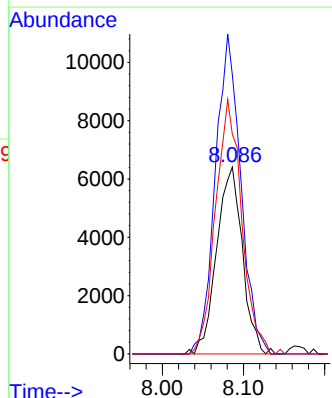
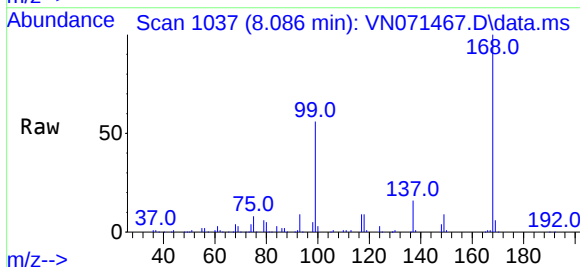
Tgt Ion: 56 Resp: 14134

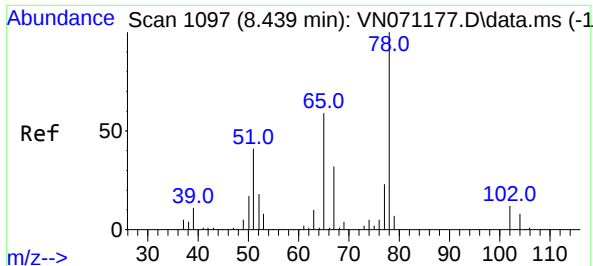
Ion Ratio Lower Upper

56 100

69 149.3 27.1 40.7#

84 117.4 73.4 110.0#

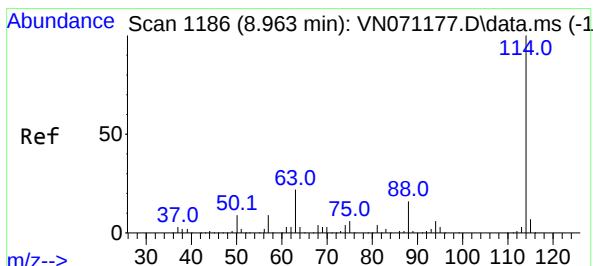
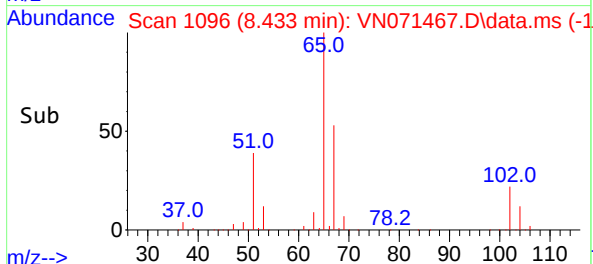
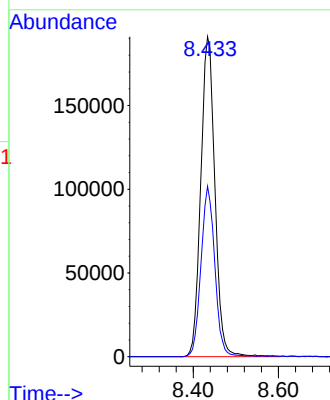
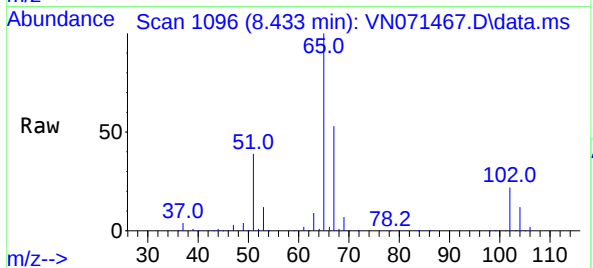




#33
1,2-Dichloroethane-d4
Concen: 48.672 ug/l
RT: 8.433 min Scan# 1097
Delta R.T. -0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

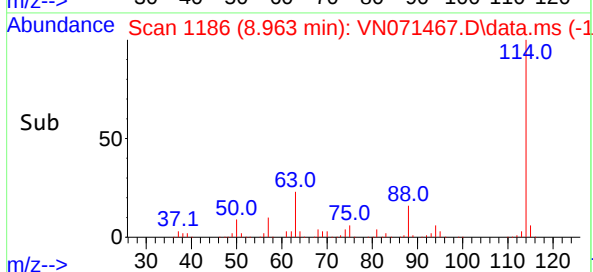
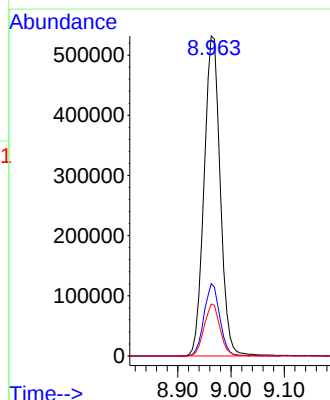
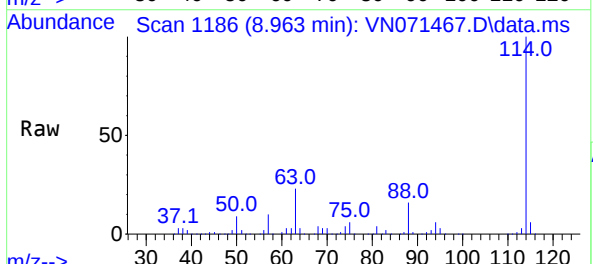
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ClientSampleId :

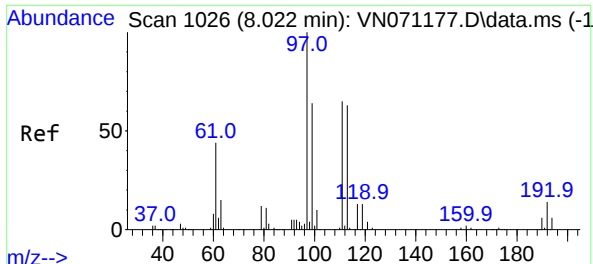
Tgt Ion: 65 Resp: 440226
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

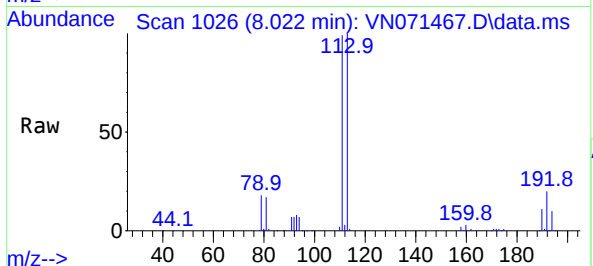
Tgt Ion: 114 Resp: 1122552
Ion Ratio Lower Upper
114 100
63 22.6 0.0 37.8
88 16.2 0.0 27.4



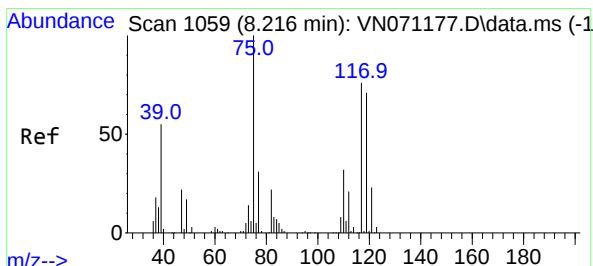
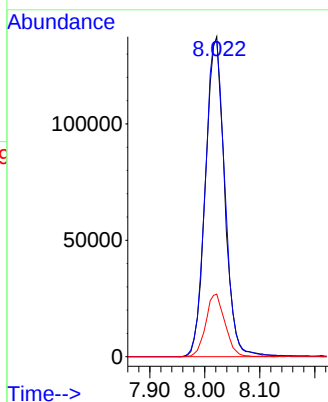
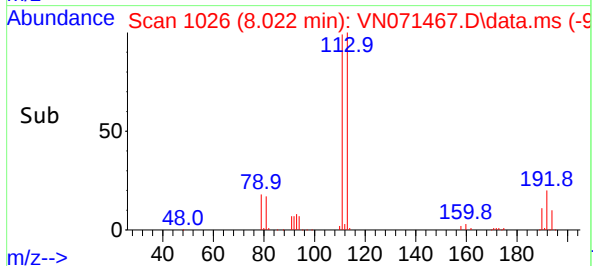


#35
Dibromofluoromethane
Concen: 46.746 ug/l
RT: 8.022 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Instrument :
MSVOA_N
ClientSampleId :

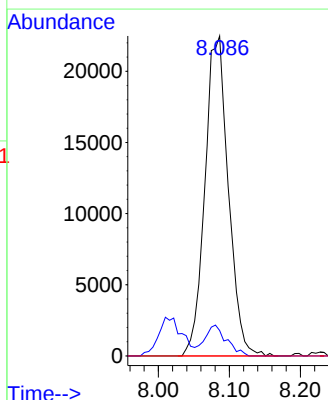
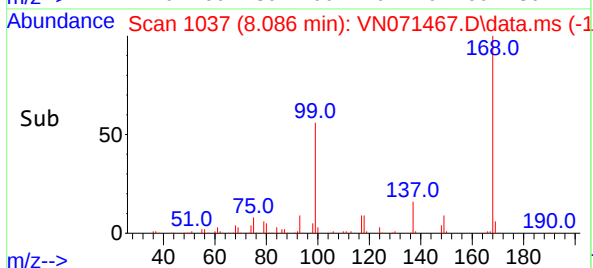
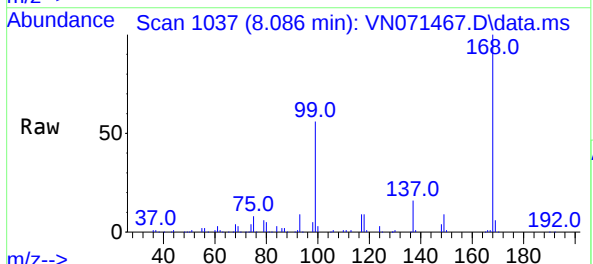


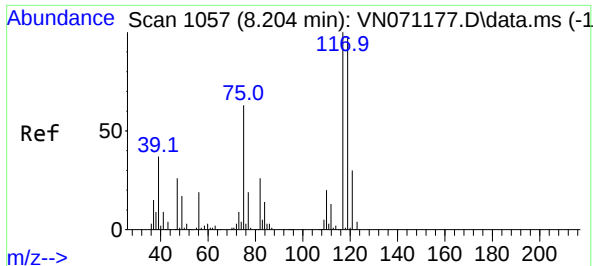
Tgt Ion:113 Resp: 331136
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.2
192 19.7 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.538 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. -0.130 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

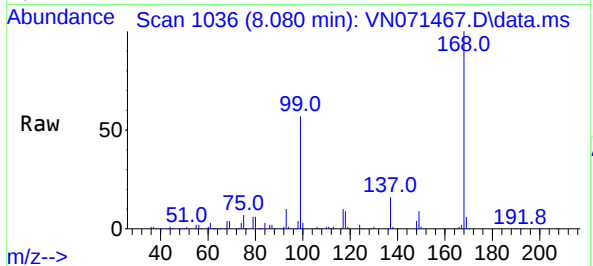
Tgt Ion: 75 Resp: 51500
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.0 24.4 36.6#



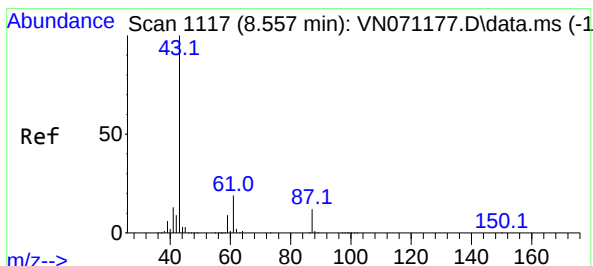
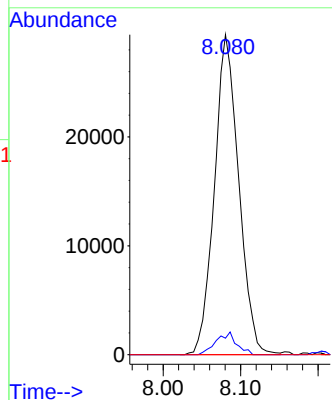
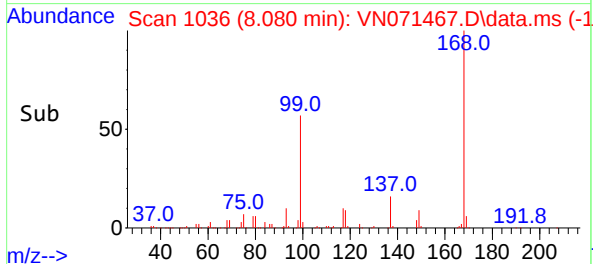


#38
Carbon Tetrachloride
Concen: 5.842 ug/l
RT: 8.080 min Scan# 1134
Delta R.T. -0.124 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Instrument :
MSVOA_N
ClientSampleId :

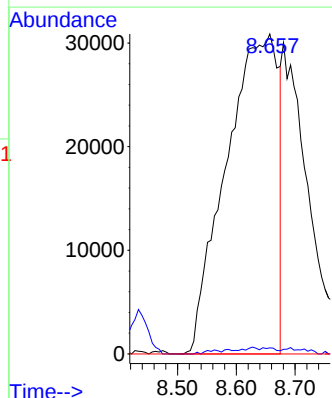
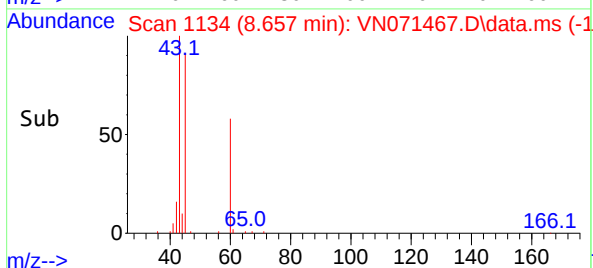
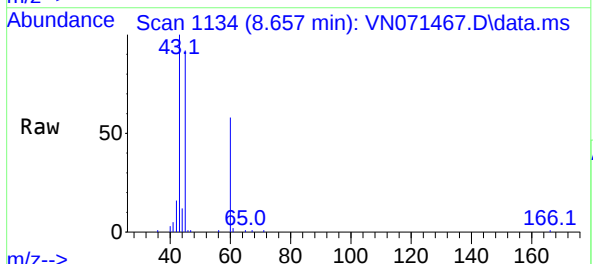


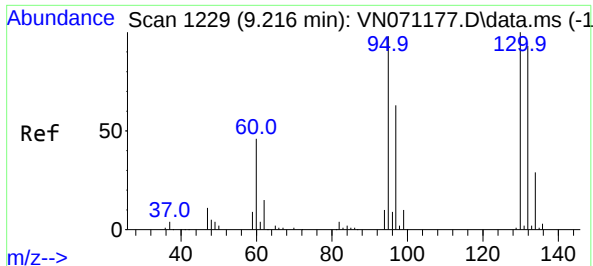
Tgt Ion:117 Resp: 64136
Ion Ratio Lower Upper
117 100
119 5.2 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 8.118 ug/l
RT: 8.657 min Scan# 1134
Delta R.T. 0.100 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 43 Resp: 189615
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

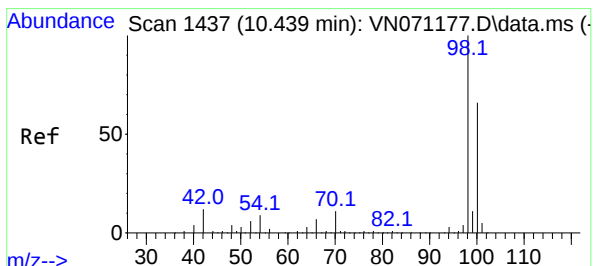
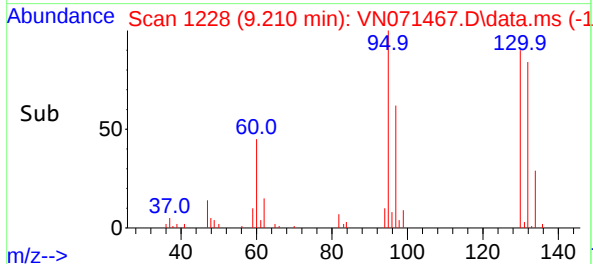
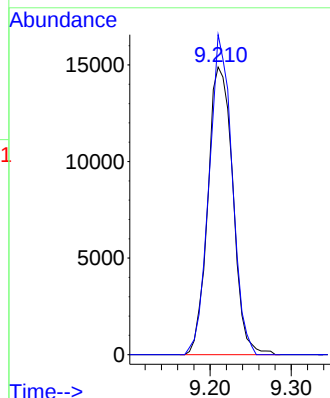
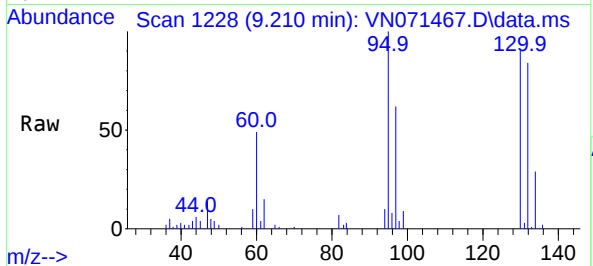




#44
Trichloroethene
Concen: 3.948 ug/l
RT: 9.210 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

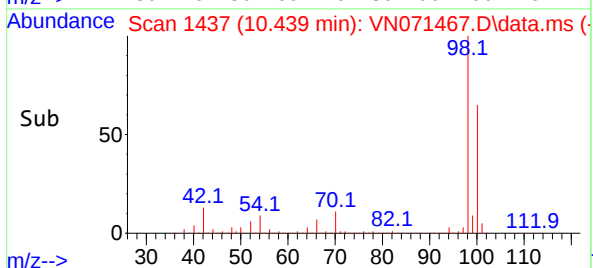
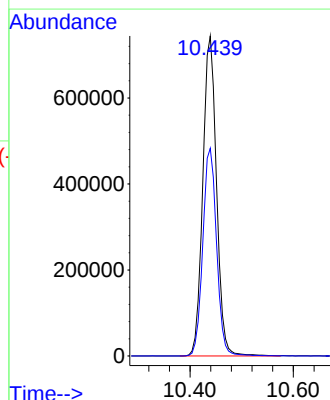
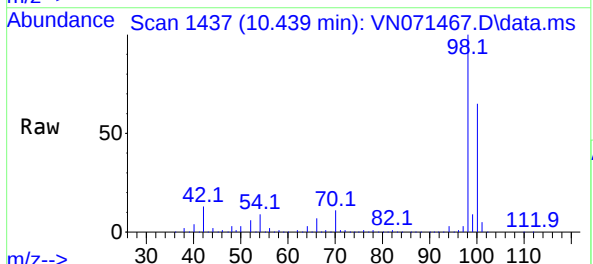
Instrument :
MSVOA_N
ClientSampleId :

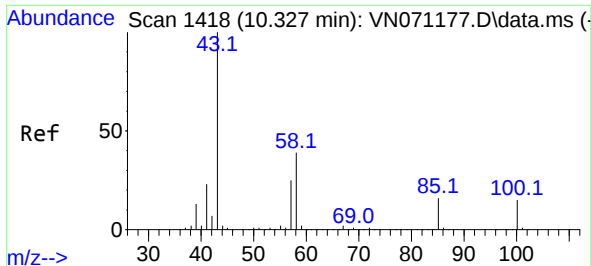
Tgt Ion:130 Resp: 31854
Ion Ratio Lower Upper
130 100
95 111.2 0.0 191.2



#50
Toluene-d8
Concen: 48.019 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 98 Resp: 1369560
Ion Ratio Lower Upper
98 100
100 65.4 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.234 ug/l

RT: 10.327 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN071467.D

Acq: 22 Mar 2022 15:20

Instrument :

MSVOA_N

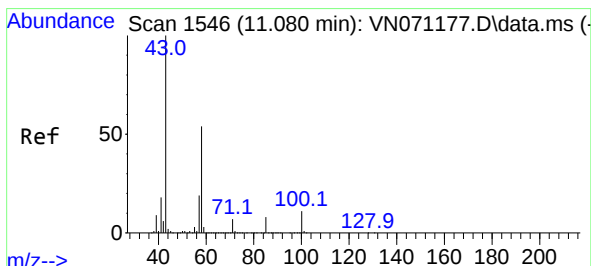
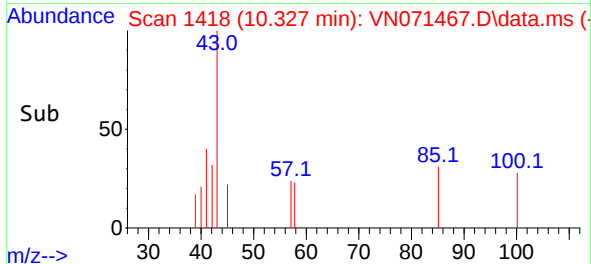
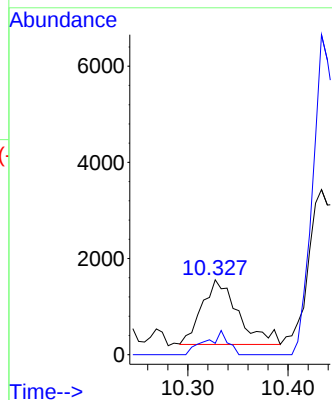
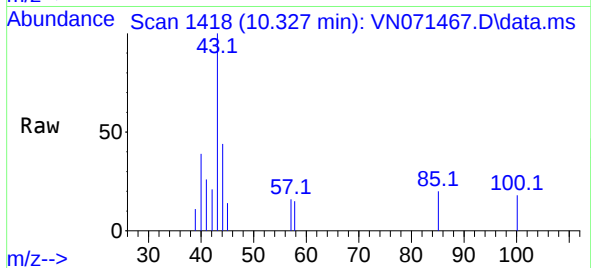
ClientSampleId :

Tgt Ion: 43 Resp: 3396

Ion Ratio Lower Upper

43 100

58 22.1 30.4 45.6#



#59

2-Hexanone

Concen: 0.671 ug/l

RT: 11.080 min Scan# 1546

Delta R.T. 0.000 min

Lab File: VN071467.D

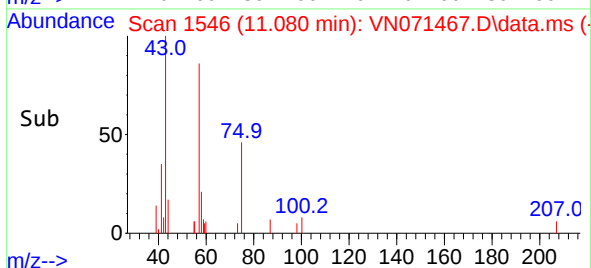
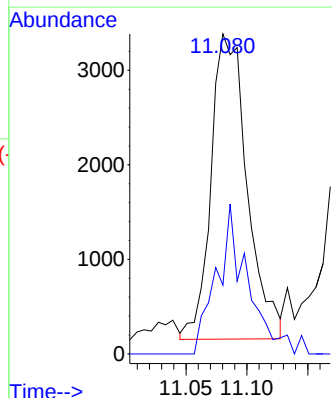
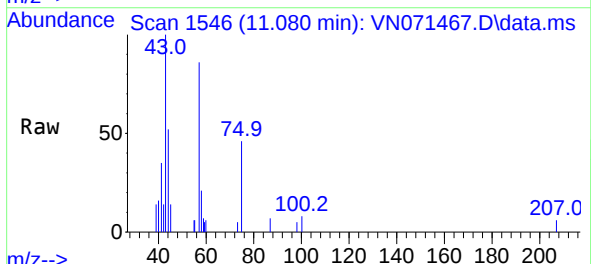
Acq: 22 Mar 2022 15:20

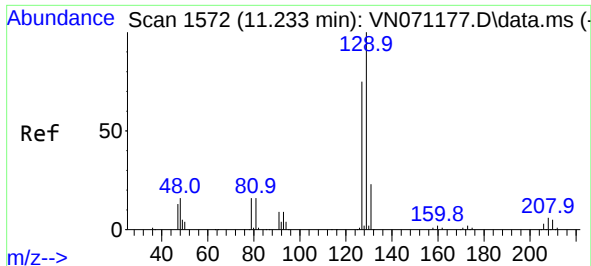
Tgt Ion: 43 Resp: 6639

Ion Ratio Lower Upper

43 100

58 42.9 26.9 80.7

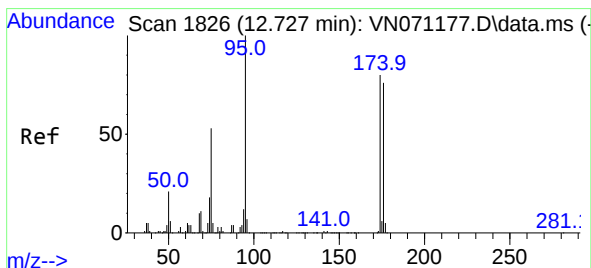
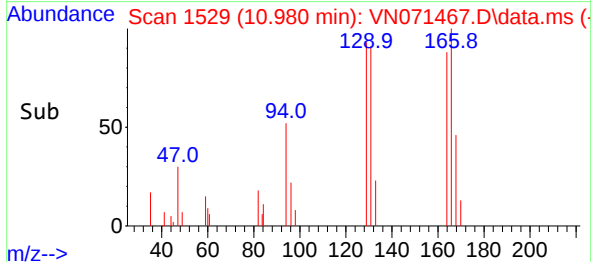
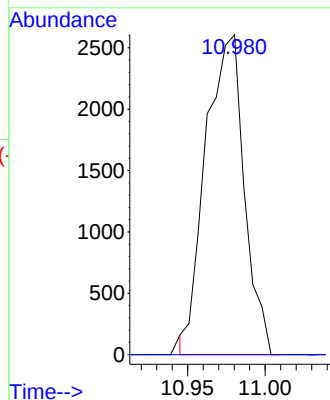
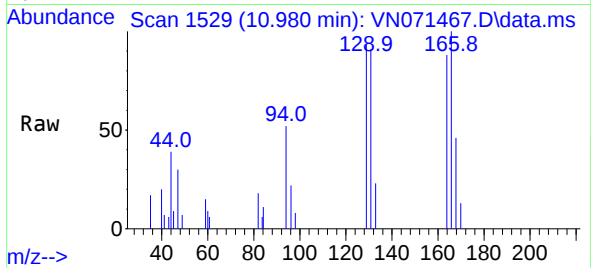




#60
Dibromochloromethane
Concen: 0.538 ug/l
RT: 10.980 min Scan# 1529
Delta R.T. -0.253 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

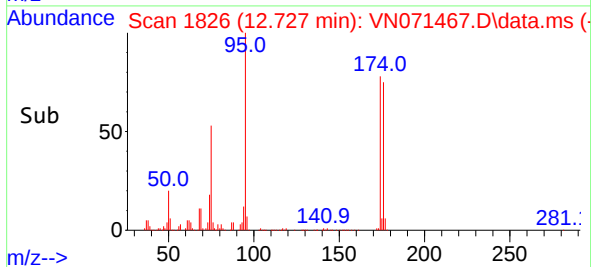
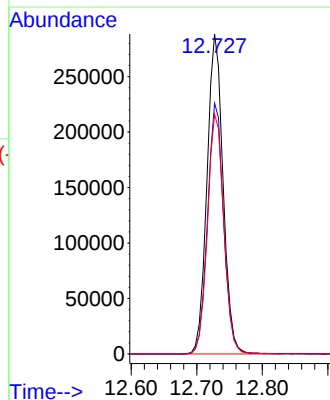
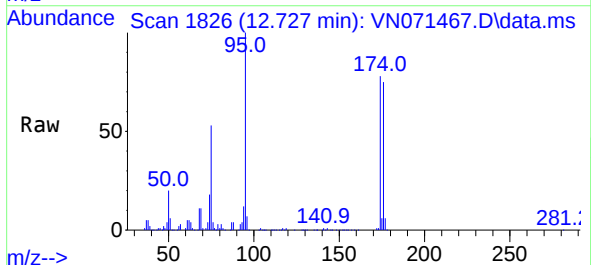
Instrument :
MSVOA_N
ClientSampleId :

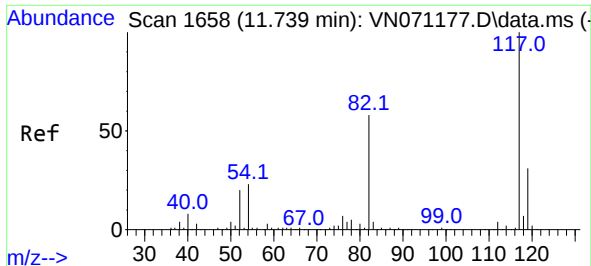
Tgt Ion:129 Resp: 4508
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 50.924 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 95 Resp: 491818
Ion Ratio Lower Upper
95 100
174 78.5 0.0 187.2
176 75.9 0.0 181.4

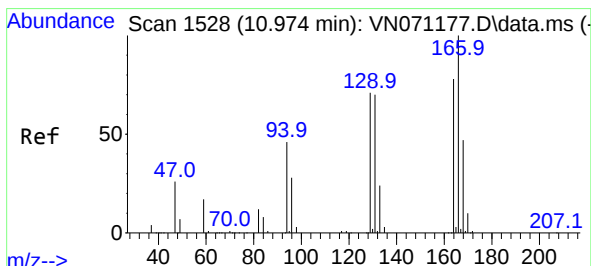
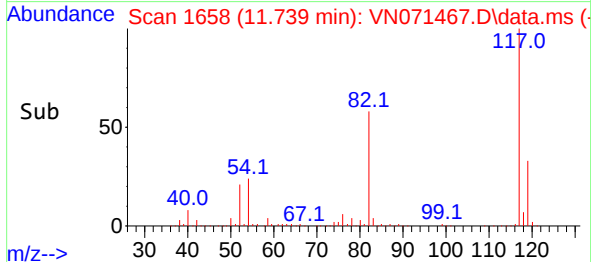
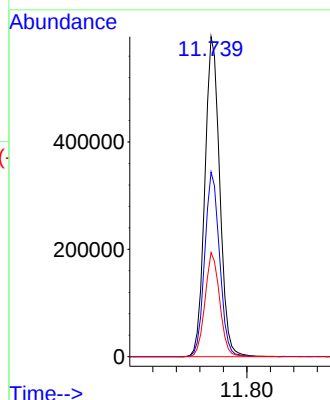
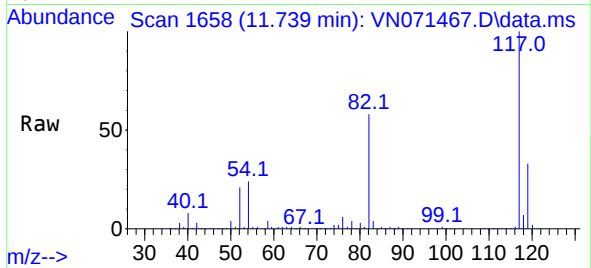




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

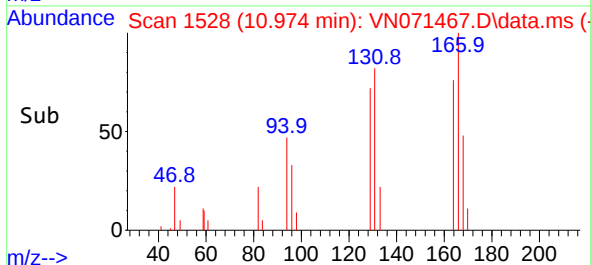
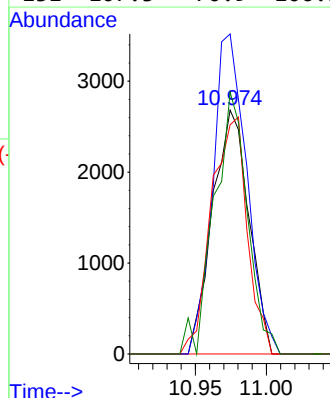
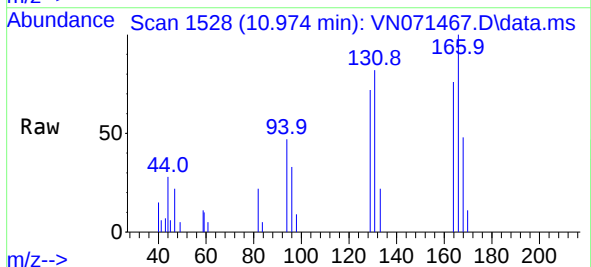
Instrument :
MSVOA_N
ClientSampleId :

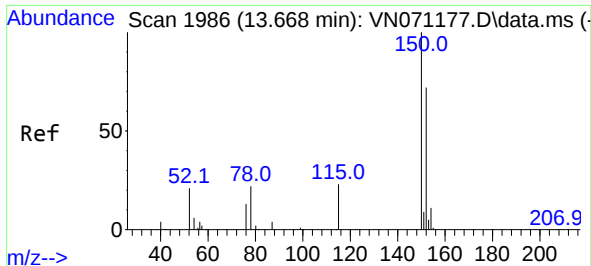
Tgt Ion:117 Resp: 1045631
Ion Ratio Lower Upper
117 100
82 57.7 42.4 63.6
119 32.6 25.4 38.2



#64
Tetrachloroethene
Concen: 0.653 ug/l
RT: 10.974 min Scan# 1528
Delta R.T. 0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

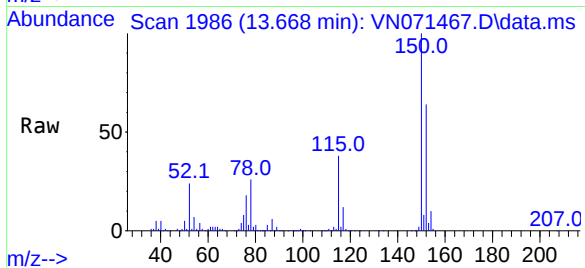
Tgt Ion:164 Resp: 4762
Ion Ratio Lower Upper
164 100
166 131.2 101.9 152.9
129 94.0 72.0 108.0
131 107.3 70.9 106.3#



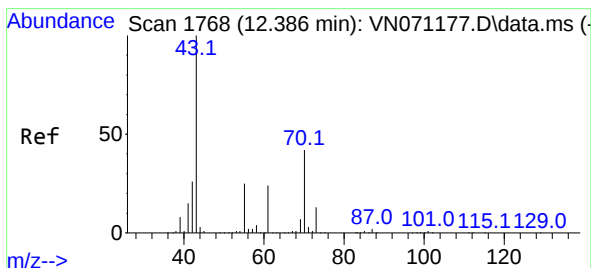
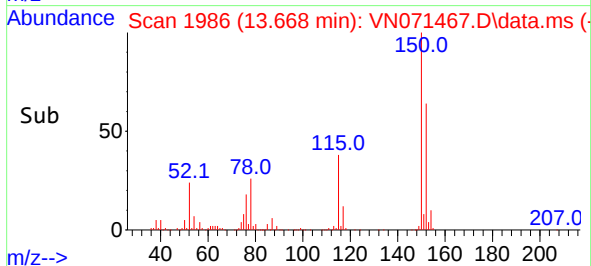
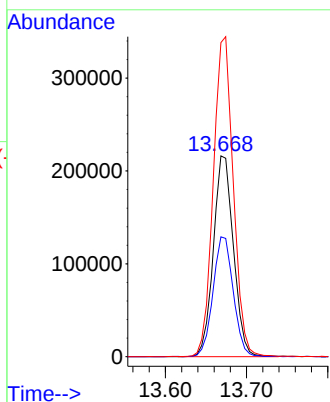


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Instrument :
MSVOA_N
ClientSampleId :

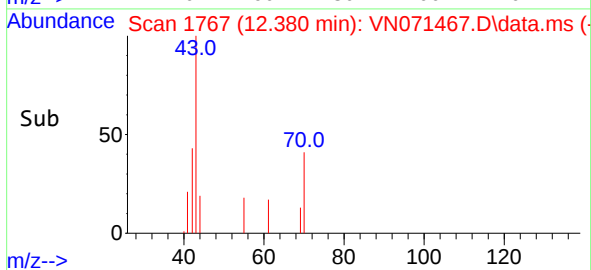
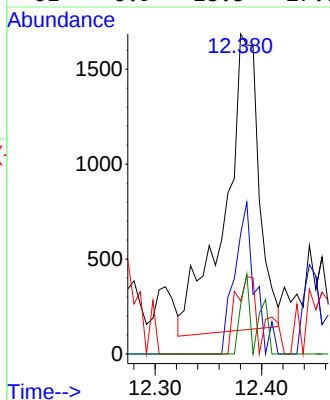
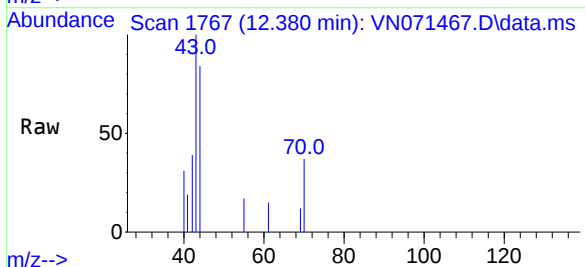


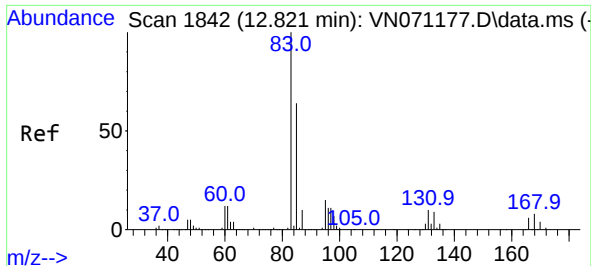
Tgt Ion:152 Resp: 371946
Ion Ratio Lower Upper
152 100
115 60.3 27.5 82.5
150 159.0 0.0 344.4



#74
N-ethyl acetate
Concen: 0.257 ug/l
RT: 12.380 min Scan# 1767
Delta R.T. -0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 43 Resp: 3471
Ion Ratio Lower Upper
43 100
70 30.1 33.4 50.0#
55 14.4 19.3 28.9#
61 6.9 18.5 27.7#

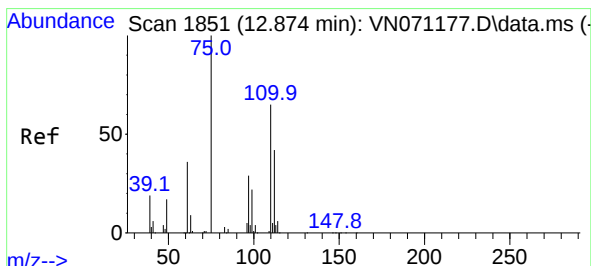
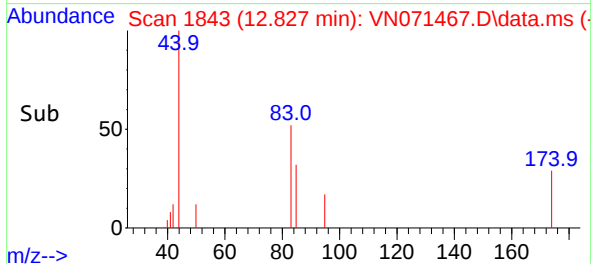
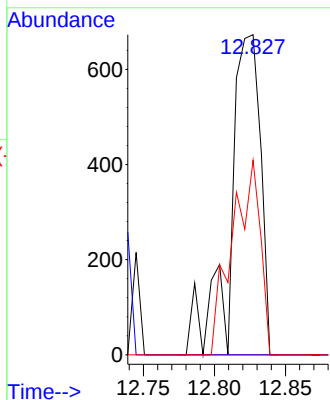
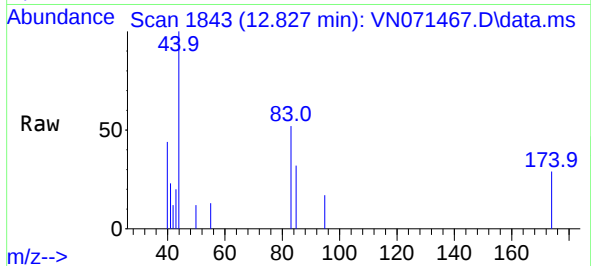




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.827 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

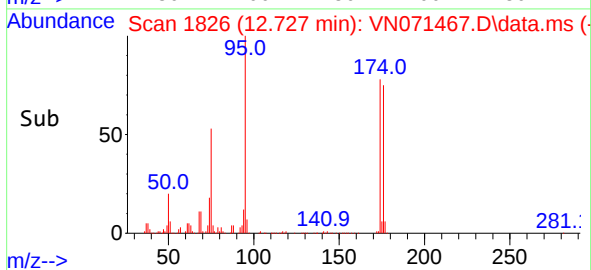
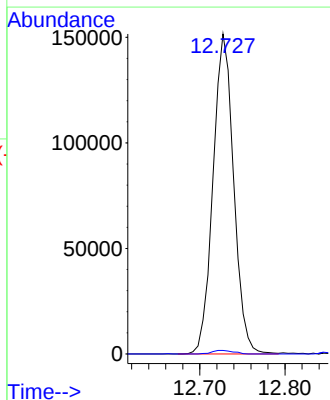
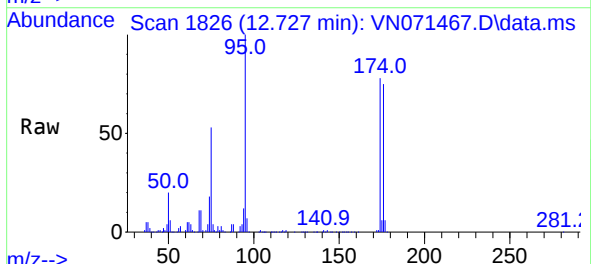
Instrument :
MSVOA_N
ClientSampleId :

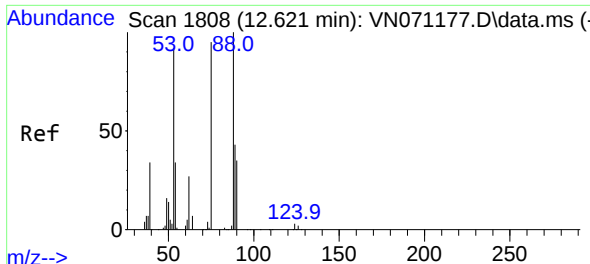
Tgt Ion: 83 Resp: 1003
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 56.1 32.4 97.2



#76
1,2,3-Trichloropropane
Concen: 27.037 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

Tgt Ion: 75 Resp: 255418
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

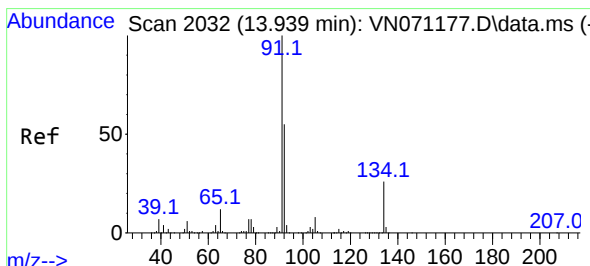
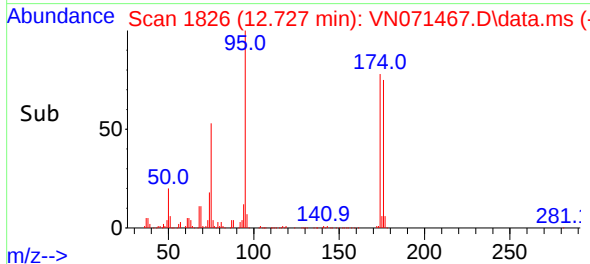
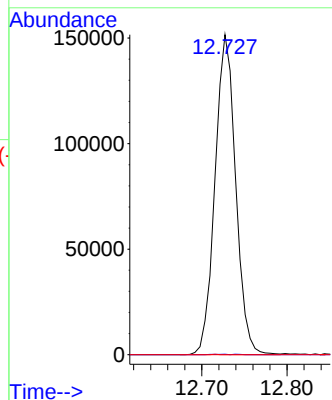
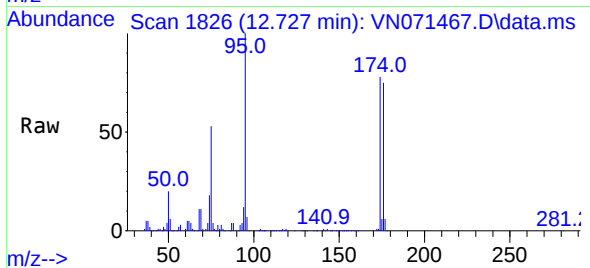




#81
trans-1,4-Dichloro-2-butene
Concen: 74.233 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

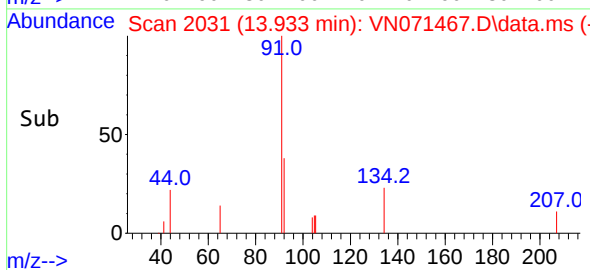
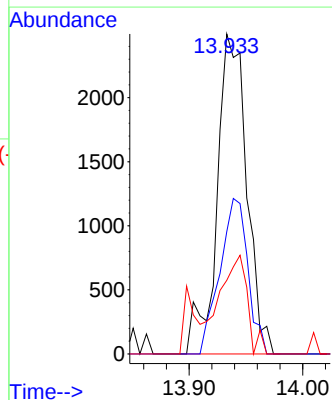
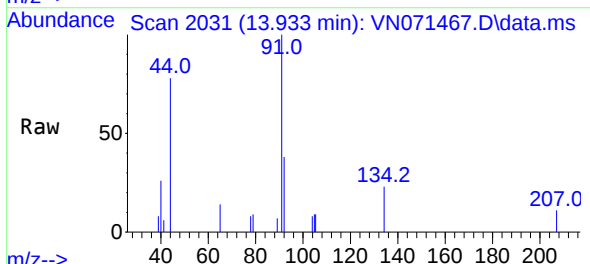
Instrument :
MSVOA_N
ClientSampleId :

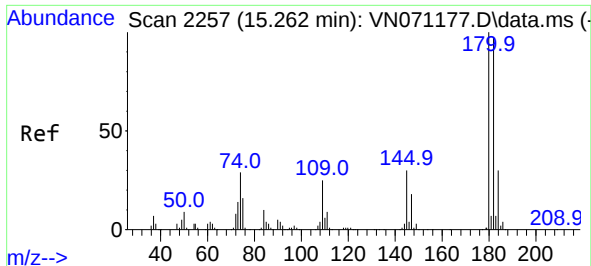
Tgt Ion: 75 Resp: 255418
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#89
n-Butylbenzene
Concen: 0.224 ug/l
RT: 13.933 min Scan# 2031
Delta R.T. -0.006 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

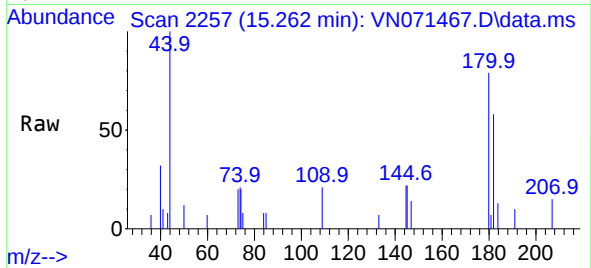
Tgt Ion: 91 Resp: 4555
Ion Ratio Lower Upper
91 100
92 45.7 25.4 76.0
134 29.3 13.6 40.8



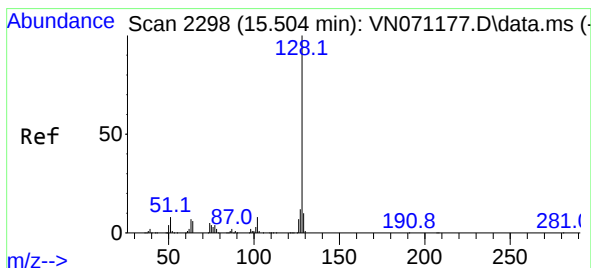
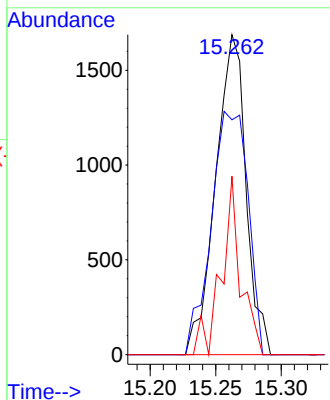
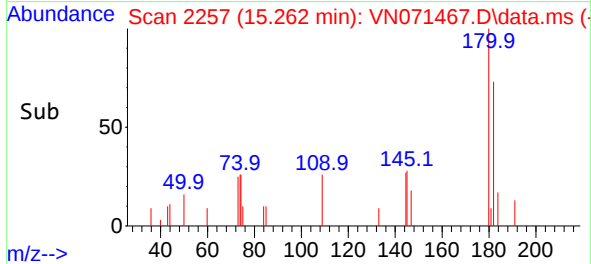


#93
1,2,4-Trichlorobenzene
Concen: 3.409 ug/l
RT: 15.262 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20

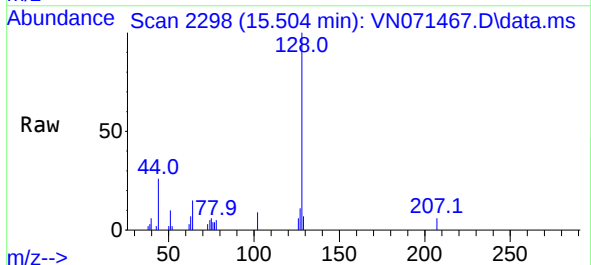
Instrument :
MSVOA_N
ClientSampleId :



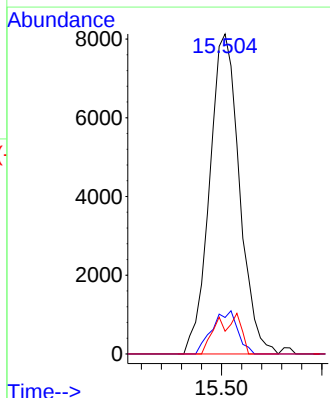
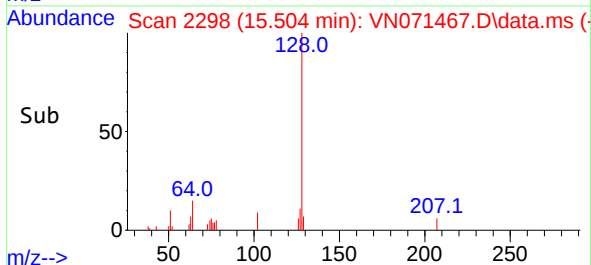
Tgt Ion:180 Resp: 2722
Ion Ratio Lower Upper
180 100
182 92.3 48.3 144.9
145 35.5 14.5 43.5

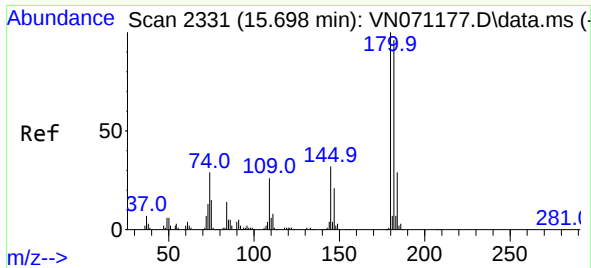


#95
Naphthalene
Concen: 5.953 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071467.D
Acq: 22 Mar 2022 15:20



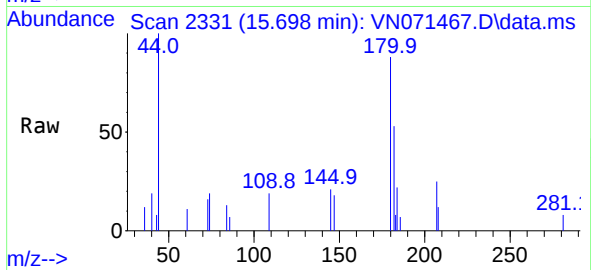
Tgt Ion:128 Resp: 16792
Ion Ratio Lower Upper
128 100
127 11.6 10.5 15.7
129 5.2 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.251 ug/l
 RT: 15.698 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN071467.D
 Acq: 22 Mar 2022 15:20

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	3204
Ion	Ratio	Lower	Upper
180	100		
182	84.3	47.4	142.2
145	30.6	15.0	45.1

