

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062421\
 Data File : VN067487.D
 Acq On : 24 Jun 2021 16:55
 Operator : JC/MD
 Sample : M2804-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 25 02:15:09 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062421W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 24 12:18:45 2021
 Response via : Initial Calibration

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

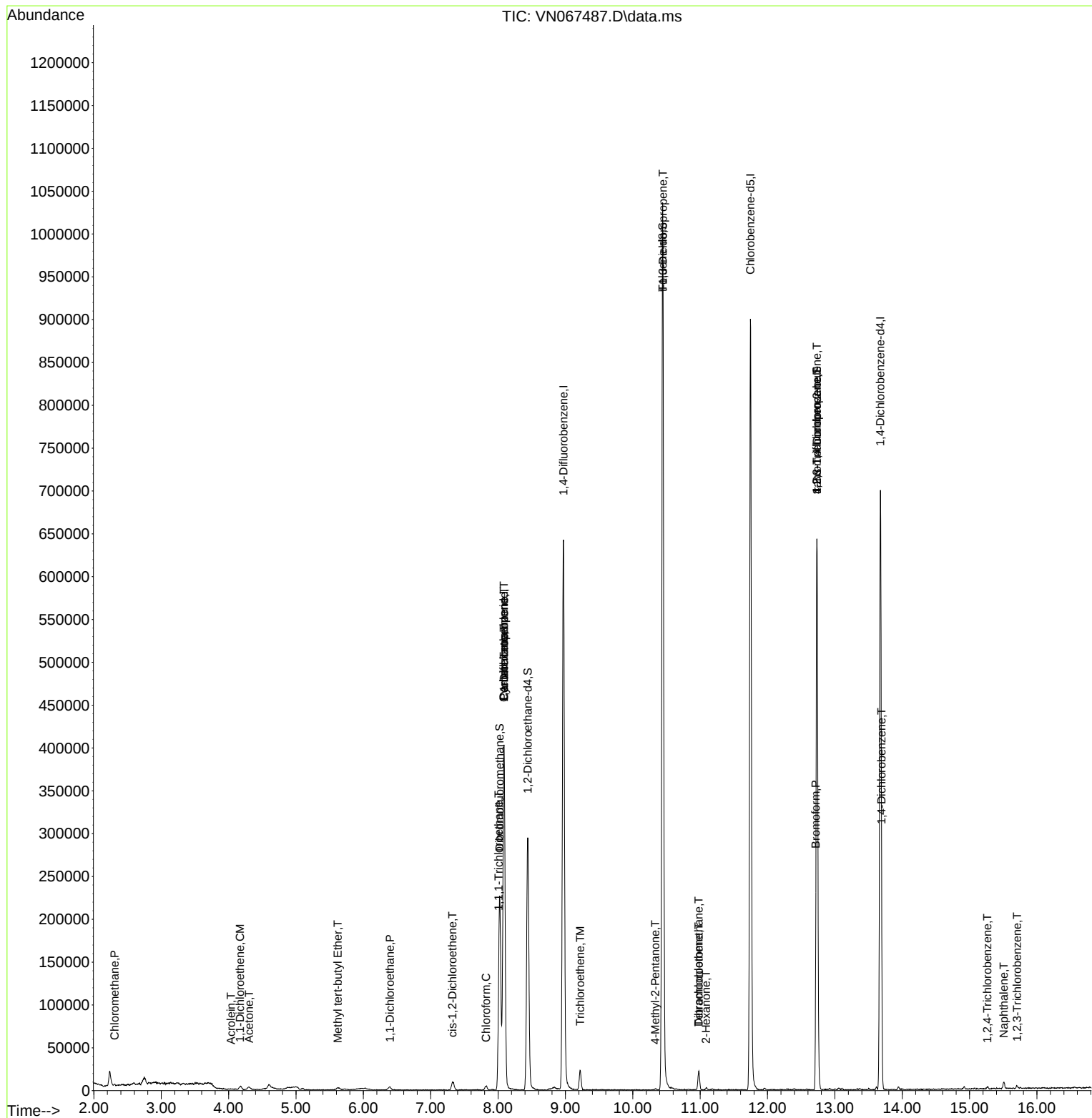
Internal Standards						
1) Pentafluorobenzene	8.088	168	247551	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	526038	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	468945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	157793	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	248349	49.02	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.04%		
35) Dibromofluoromethane	8.024	113	162114	50.02	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	100.04%		
50) Toluene-d8	10.443	98	707140	51.16	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.32%		
62) 4-Bromofluorobenzene	12.734	95	235389	47.80	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	95.60%		
Target Compounds						
						Qvalue
3) Chloromethane	2.306	50	1125	0.24	ug/l	95
12) 1,1-Dichloroethene	4.167	96	917	0.27	ug/l #	84
13) Acrolein	4.033	56	333	0.47	ug/l #	73
16) Acetone	4.304	43	3824	1.97	ug/l #	89
19) Methyl tert-butyl Ether	5.621	73	3378	0.25	ug/l #	74
24) 1,1-Dichloroethane	6.396	63	6595	0.83	ug/l #	86
27) cis-1,2-Dichloroethene	7.324	96	3402	0.79	ug/l	59
30) Chloroform	7.820	83	5347	0.70	ug/l	88
31) Cyclohexane	8.086	56	9303	1.15	ug/l #	1
32) 1,1,1-Trichloroethane	8.011	97	1324	0.21	ug/l #	19
36) 1,1-Dichloropropene	8.086	75	31672	5.34	ug/l #	50
38) Carbon Tetrachloride	8.088	117	32661	6.47	ug/l #	17
44) Trichloroethene	9.220	130	7480	2.18	ug/l	91
51) 4-Methyl-2-Pentanone	10.333	43	1296	0.21	ug/l #	68
53) t-1,3-Dichloropropene	10.446	75	168	2.02	ug/l #	1
59) 2-Hexanone	11.087	43	2097	0.47	ug/l	98
60) Dibromochloromethane	10.980	129	4787	3.18	ug/l #	11
64) Tetrachloroethene	10.980	164	4520	1.48	ug/l	95
71) Bromoform	12.717	173	160	2.72	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	141746	30.52	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	141746	83.52	ug/l #	6
88) 1,4-Dichlorobenzene	13.694	146	1095	0.20	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.263	180	1100	2.72	ug/l	79
95) Naphthalene	15.507	128	6543	4.03	ug/l	97
96) 1,2,3-Trichlorobenzene	15.705	180	1151	2.96	ug/l	92

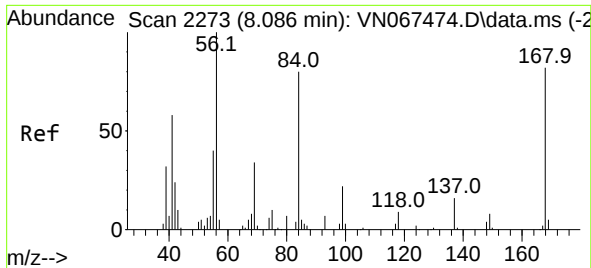
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampled :

Quant Time: Jun 25 02:15:09 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062421W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 24 12:18:45 2021
Response via : Initial Calibration

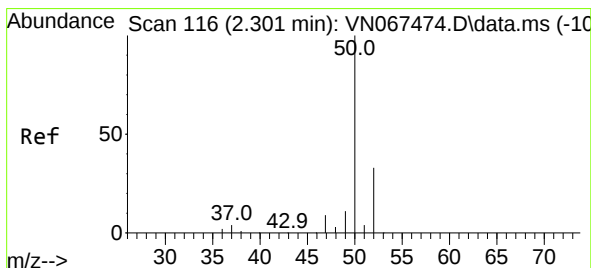
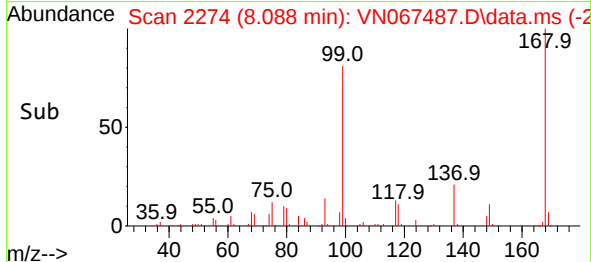
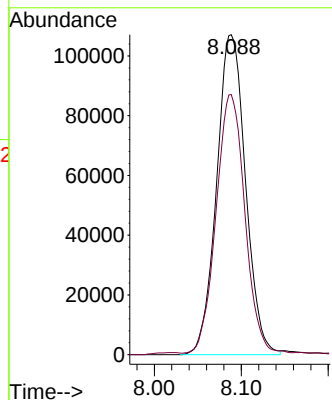
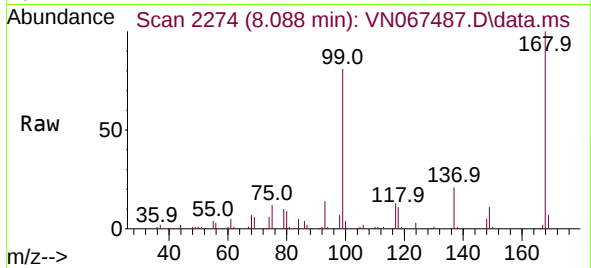




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

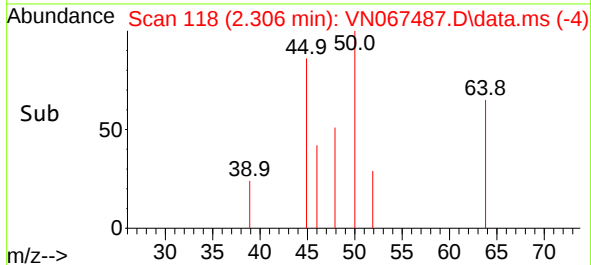
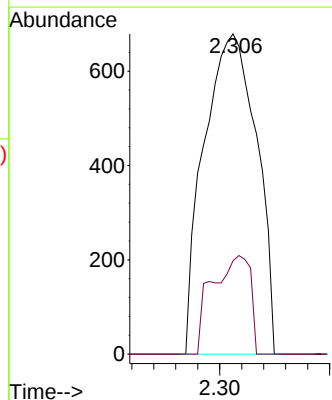
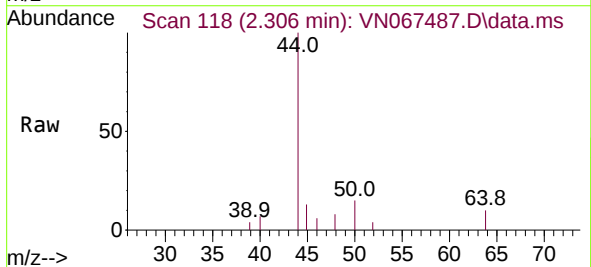
Instrument :
MSVOA_N
ClientSampled :

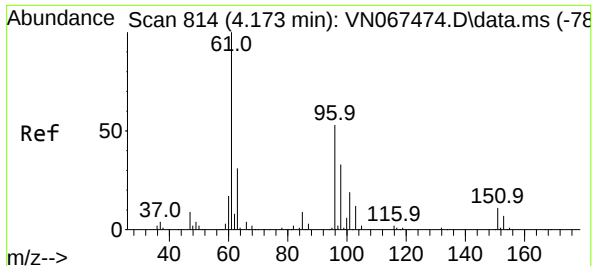
Tgt Ion:168 Resp: 247551
Ion Ratio Lower Upper
168 100
99 80.8 62.9 94.3



#3
Chloromethane
Concen: 0.24 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 50 Resp: 1125
Ion Ratio Lower Upper
50 100
52 29.2 25.6 38.4

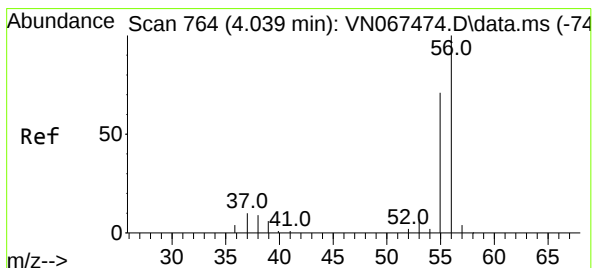
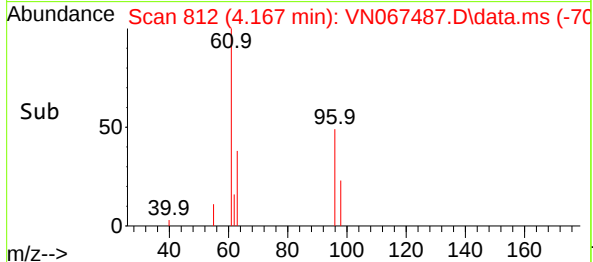
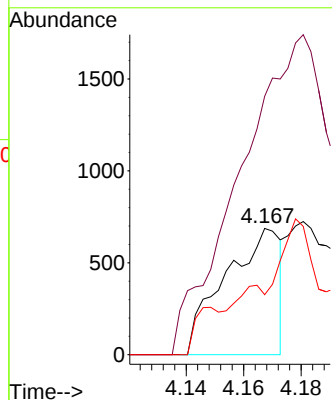
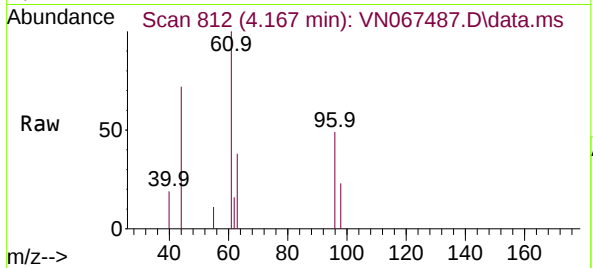




#12
1,1-Dichloroethene
Concen: 0.27 ug/l
RT: 4.167 min Scan# 812
Delta R.T. -0.006 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

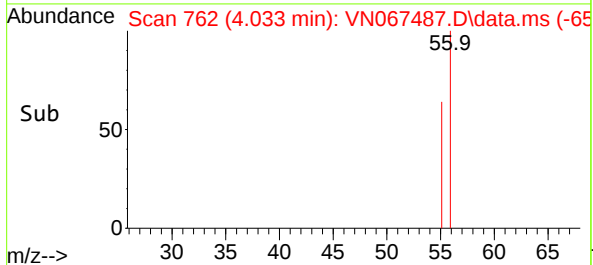
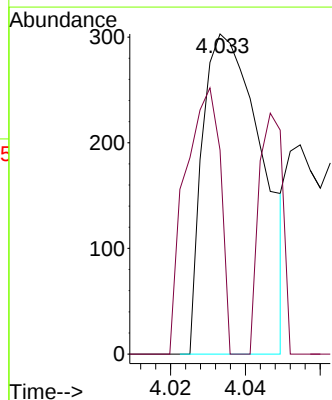
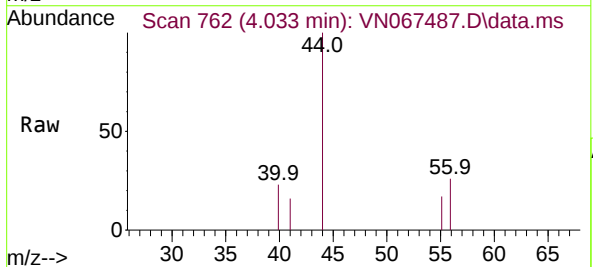
Instrument :
MSVOA_N
ClientSampled :

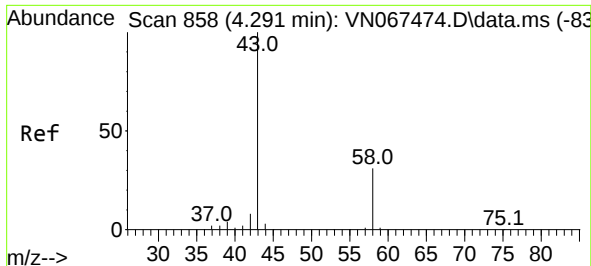
Tgt Ion: 96 Resp: 917
Ion Ratio Lower Upper
96 100
61 169.6 152.6 229.0
98 47.6 50.9 76.3#



#13
Acrolein
Concen: 0.47 ug/l
RT: 4.033 min Scan# 762
Delta R.T. -0.006 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 56 Resp: 333
Ion Ratio Lower Upper
56 100
55 49.2 57.4 86.0#

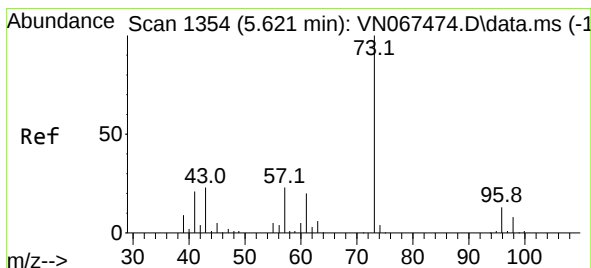
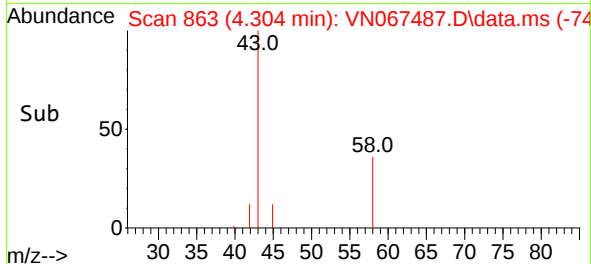
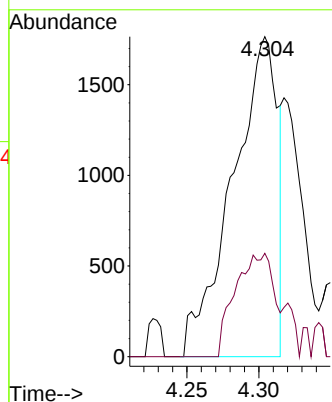
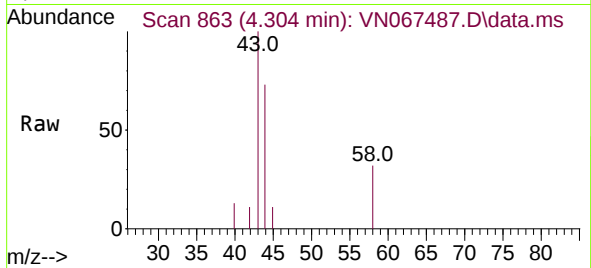




#16
Acetone
Concen: 1.97 ug/l
RT: 4.304 min Scan# 863
Delta R.T. 0.013 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

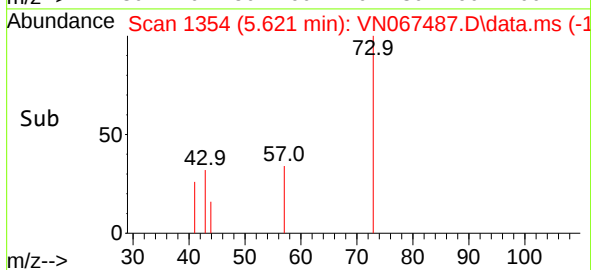
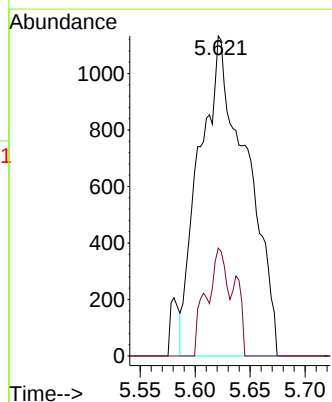
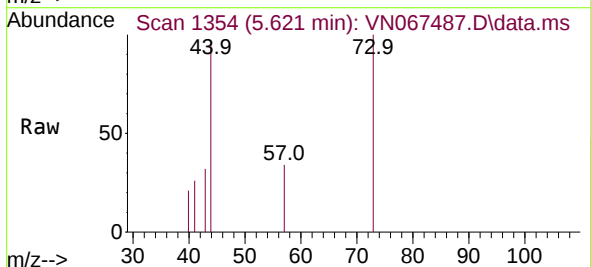
Instrument :
MSVOA_N
ClientSampled :

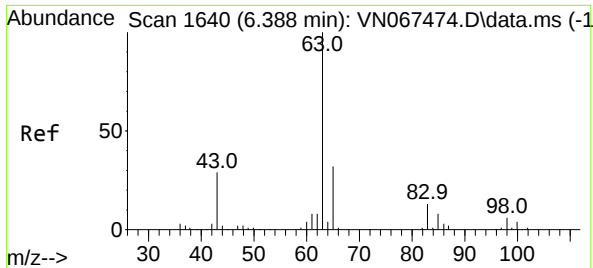
Tgt Ion: 43 Resp: 3824
Ion Ratio Lower Upper
43 100
58 32.3 21.2 31.8#



#19
Methyl tert-butyl Ether
Concen: 0.25 ug/l
RT: 5.621 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 73 Resp: 3378
Ion Ratio Lower Upper
73 100
57 33.7 17.0 25.6#

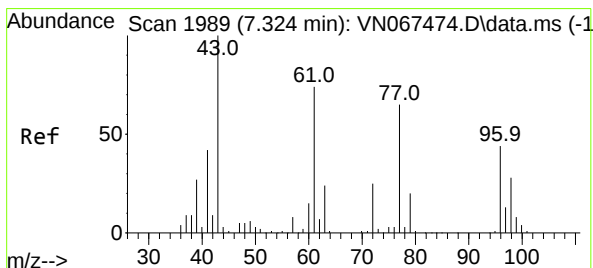
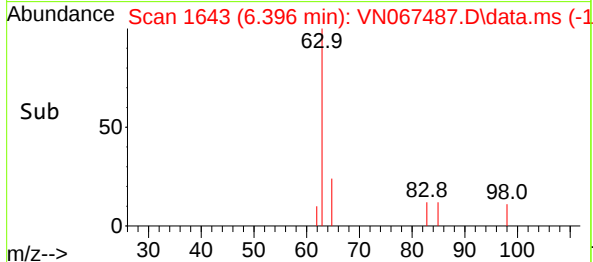
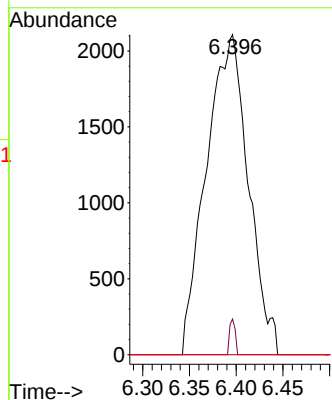
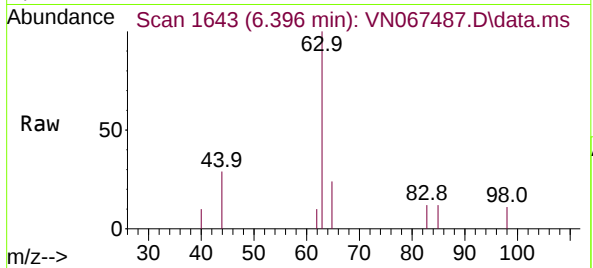




#24
1,1-Dichloroethane
Concen: 0.83 ug/l
RT: 6.396 min Scan# 1643
Delta R.T. 0.008 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

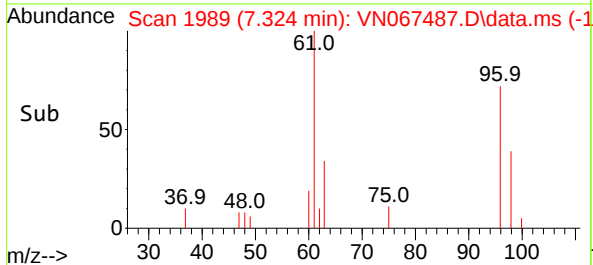
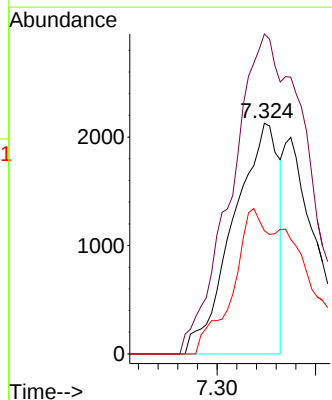
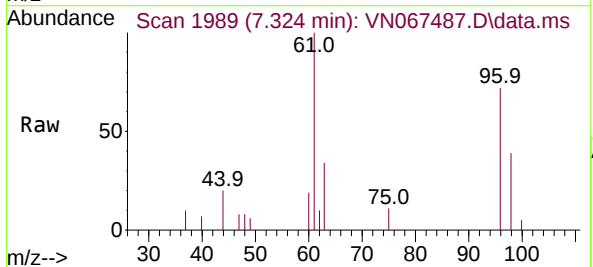
Instrument :
MSVOA_N
ClientSampled :

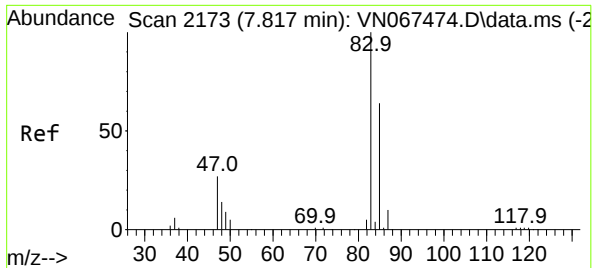
Tgt Ion: 63 Resp: 6595
Ion Ratio Lower Upper
63 100
98 11.2 3.0 9.0#
100 0.0 1.9 5.7#



#27
cis-1,2-Dichloroethene
Concen: 0.79 ug/l
RT: 7.324 min Scan# 1989
Delta R.T. 0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 96 Resp: 3402
Ion Ratio Lower Upper
96 100
61 236.9 0.0 338.8
98 48.4 0.0 129.8





#30

Chloroform

Concen: 0.70 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. 0.003 min

Lab File: VN067487.D

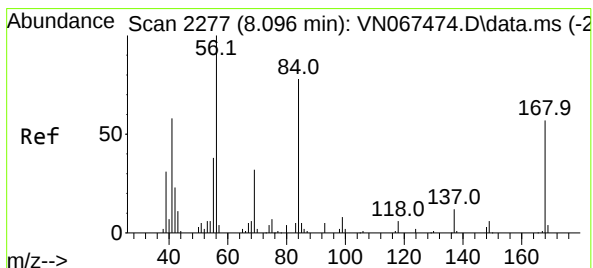
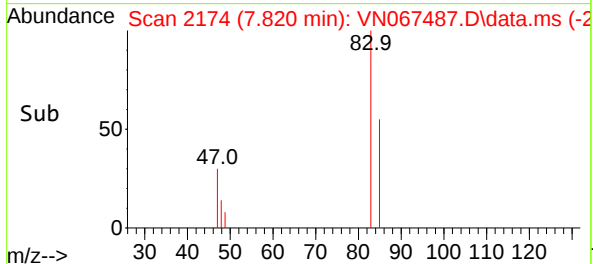
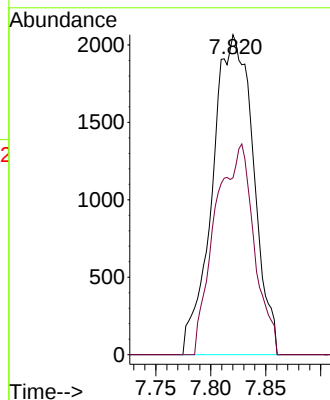
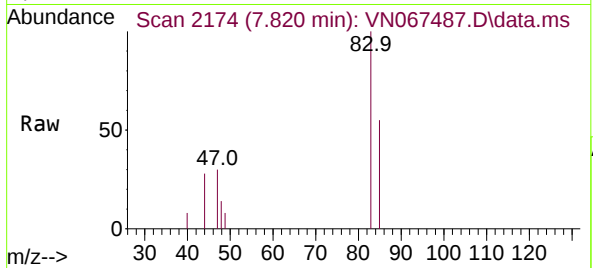
Acq: 24 Jun 2021 16:55

Tgt Ion: 83 Resp: 5347

Ion Ratio Lower Upper

83 100

85 55.3 51.5 77.3



#31

Cyclohexane

Concen: 1.15 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.010 min

Lab File: VN067487.D

Acq: 24 Jun 2021 16:55

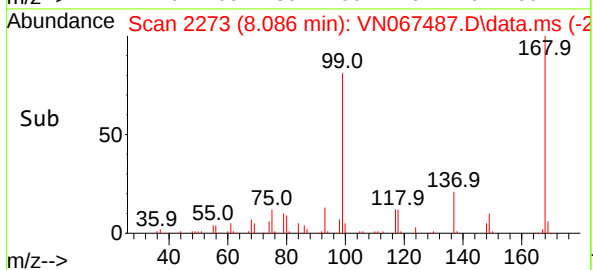
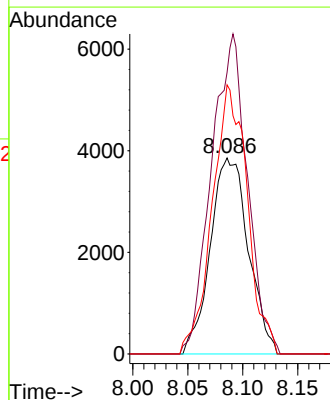
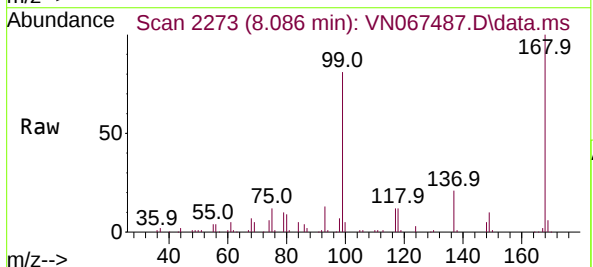
Tgt Ion: 56 Resp: 9303

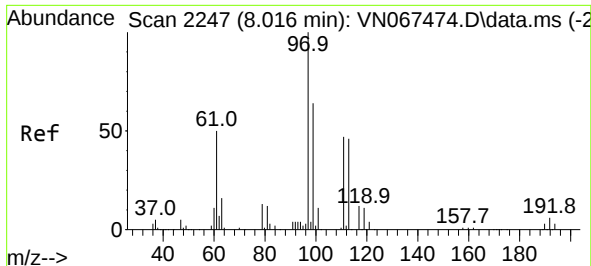
Ion Ratio Lower Upper

56 100

69 143.7 27.3 40.9#

84 137.4 64.9 97.3#





#32

1,1,1-Trichloroethane

Concen: 0.21 ug/l

RT: 8.011 min Scan# 2245

Delta R.T. -0.005 min

Lab File: VN067487.D

Acq: 24 Jun 2021 16:55

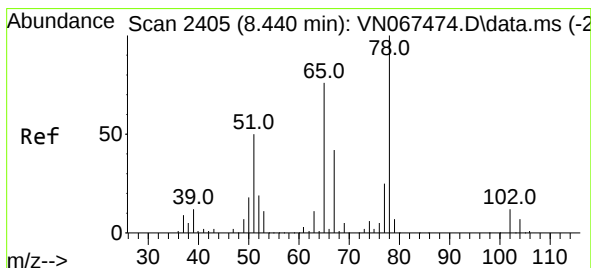
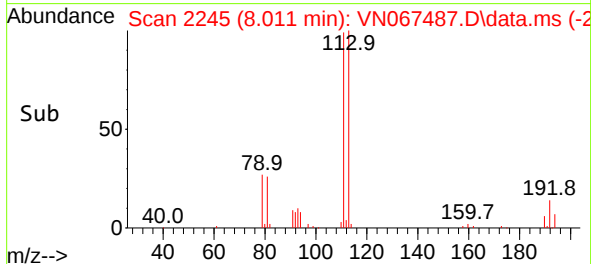
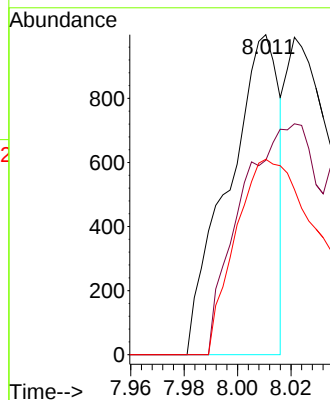
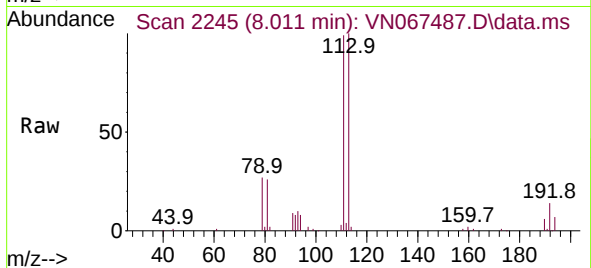
Tgt Ion: 97 Resp: 1324

Ion Ratio Lower Upper

97 100

99 0.0 50.2 75.2#

61 102.6 38.2 57.2#



#33

1,2-Dichloroethane-d4

Concen: 49.02 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN067487.D

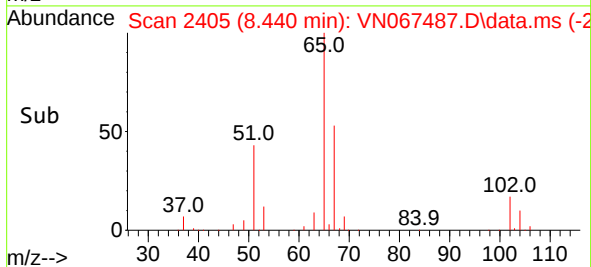
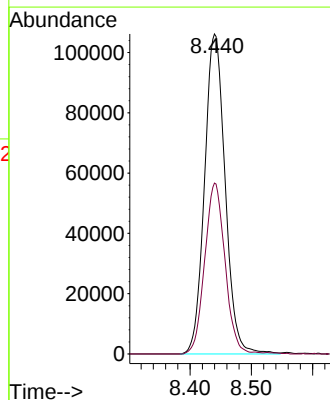
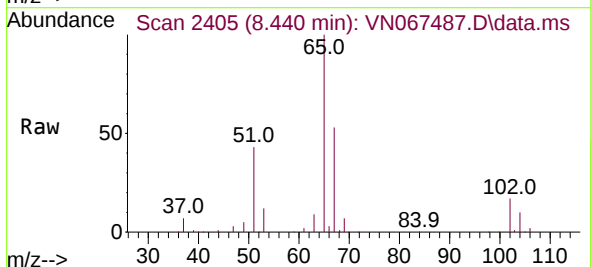
Acq: 24 Jun 2021 16:55

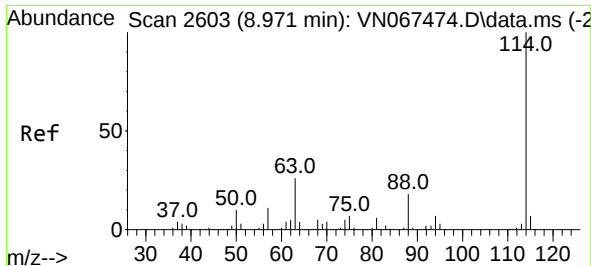
Tgt Ion: 65 Resp: 248349

Ion Ratio Lower Upper

65 100

67 52.4 0.0 98.6

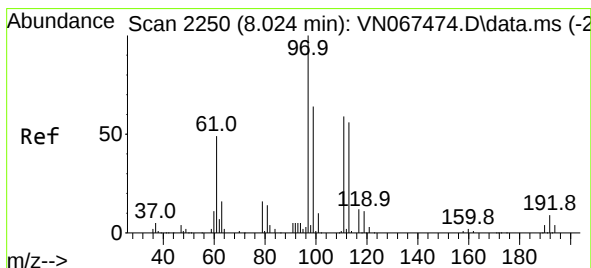
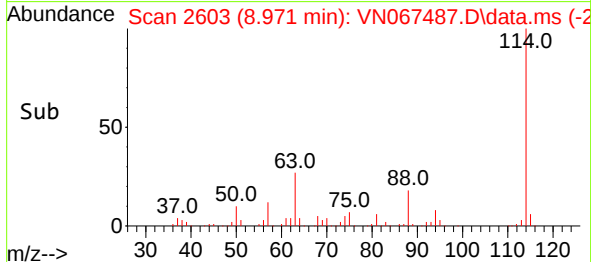
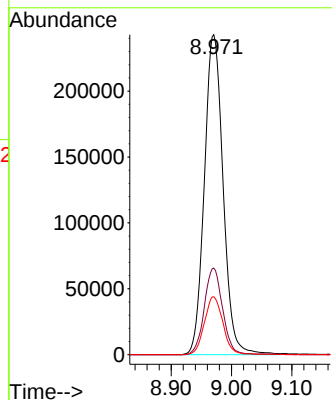
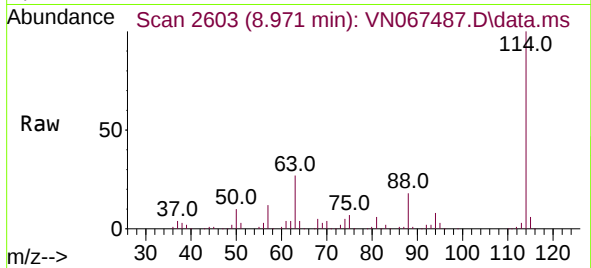




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. -0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

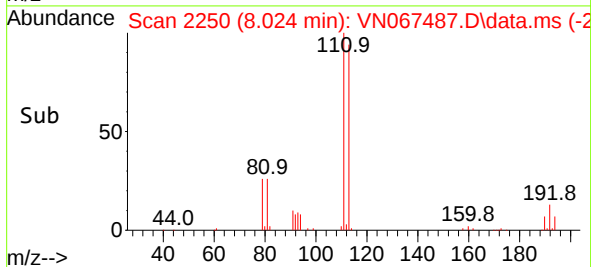
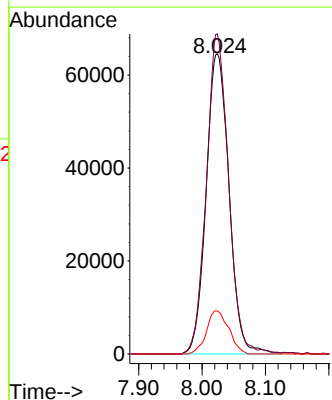
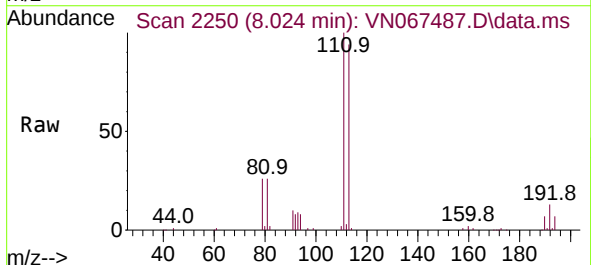
Instrument :
MSVOA_N
ClientSampleId :

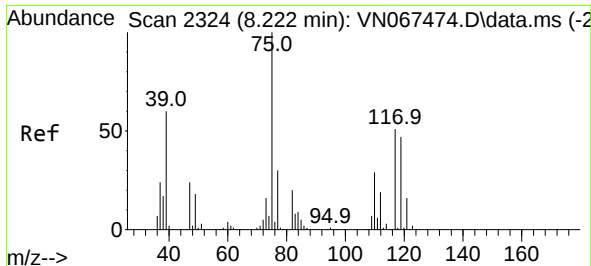
Tgt Ion:114 Resp: 526038
Ion Ratio Lower Upper
114 100
63 27.1 0.0 49.0
88 18.1 0.0 36.6



#35
Dibromofluoromethane
Concen: 50.02 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion:113 Resp: 162114
Ion Ratio Lower Upper
113 100
111 103.0 83.8 125.8
192 14.0 13.4 20.0

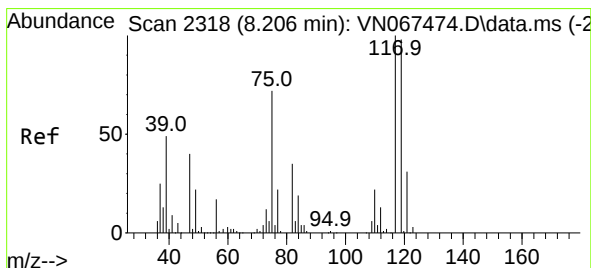
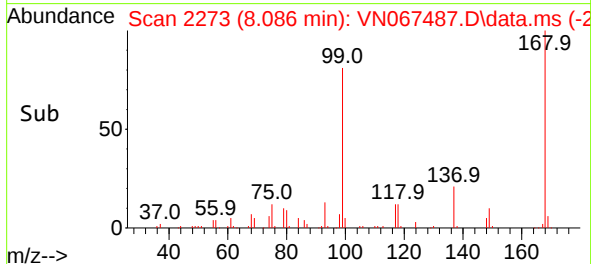
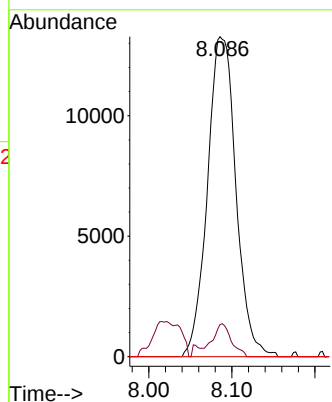
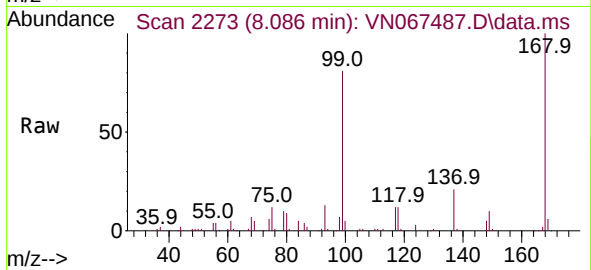




#36
1,1-Dichloropropene
Concen: 5.34 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

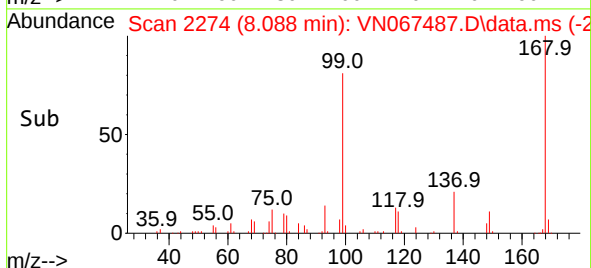
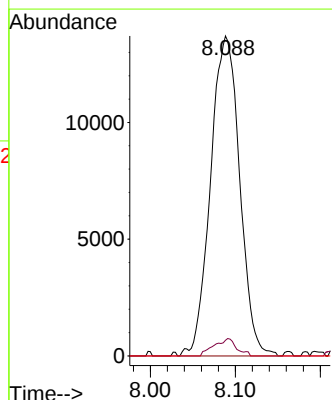
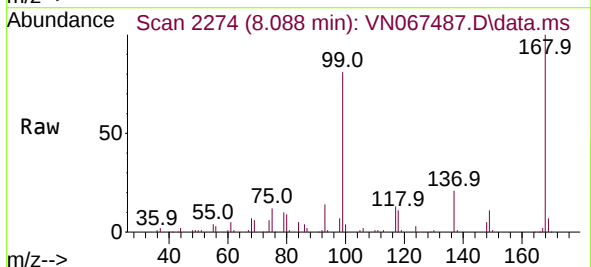
Instrument :
MSVOA_N
ClientSampleId :

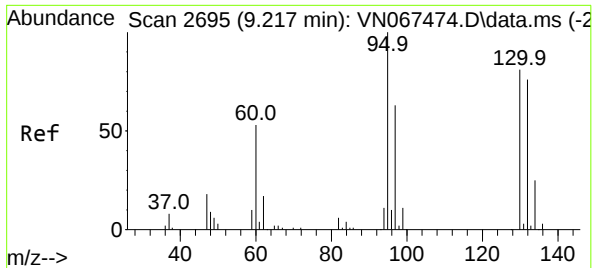
Tgt Ion: 75 Resp: 31672
Ion Ratio Lower Upper
75 100
110 6.6 15.7 47.0#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 6.47 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 117 Resp: 32661
Ion Ratio Lower Upper
117 100
119 4.9 75.4 113.2#
121 0.0 23.5 35.3#

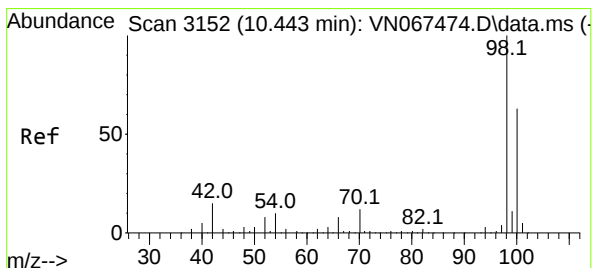
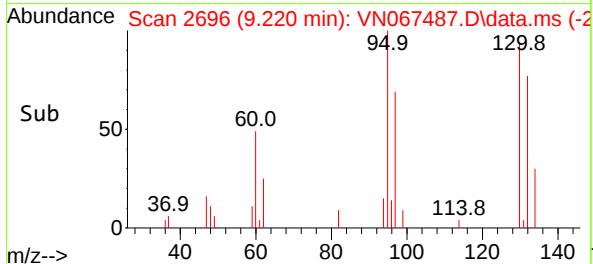
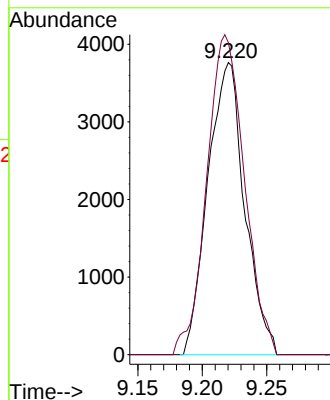
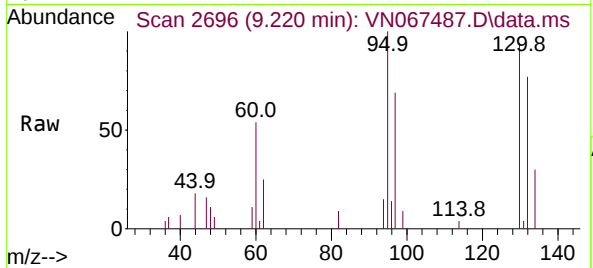




#44
Trichloroethene
Concen: 2.18 ug/l
RT: 9.220 min Scan# 2696
Delta R.T. 0.003 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

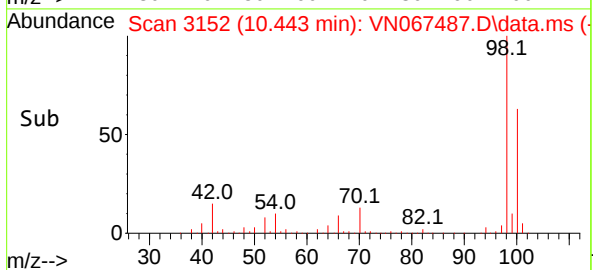
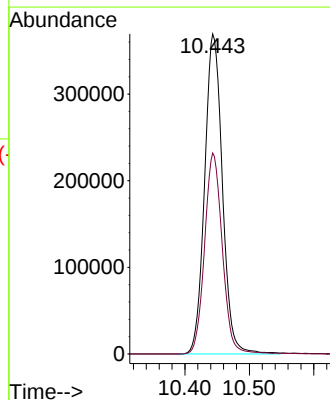
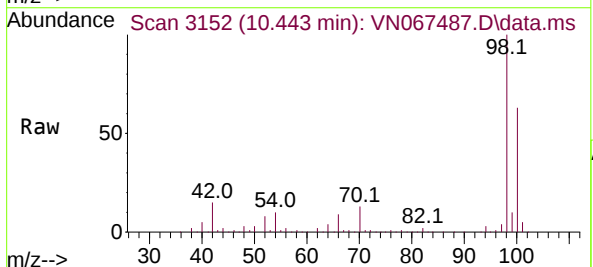
Instrument :
MSVOA_N
ClientSampled :

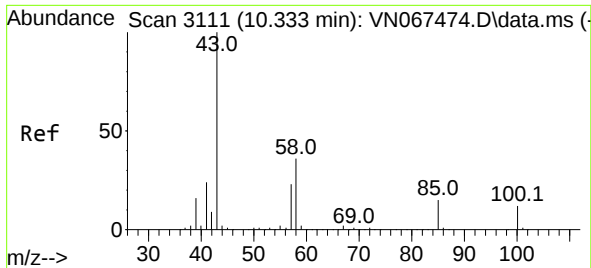
Tgt Ion:130 Resp: 7480
Ion Ratio Lower Upper
130 100
95 106.9 0.0 234.4



#50
Toluene-d8
Concen: 51.16 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 98 Resp: 707140
Ion Ratio Lower Upper
98 100
100 62.5 51.7 77.5

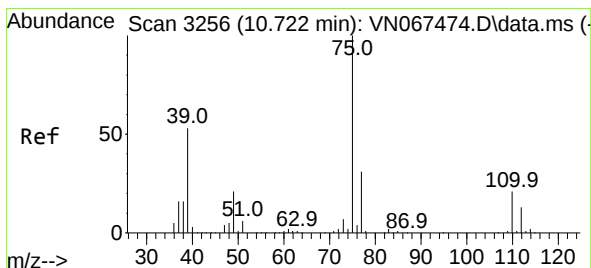
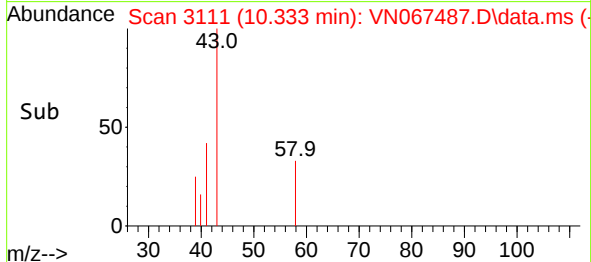
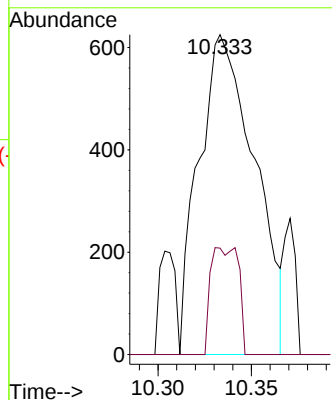
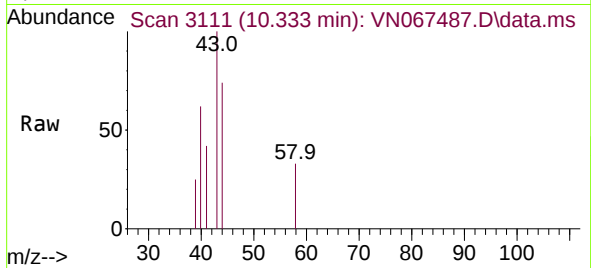




#51
4-Methyl-2-Pentanone
Concen: 0.21 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

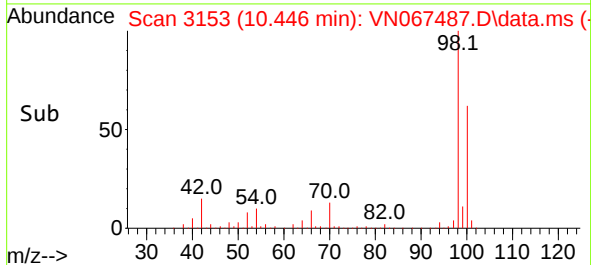
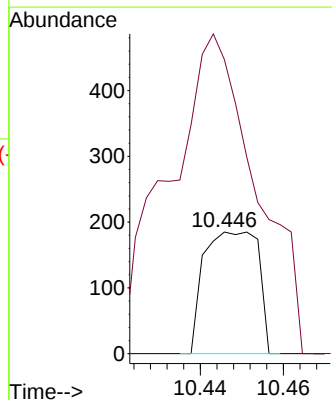
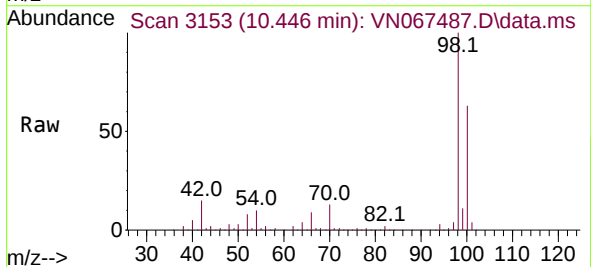
Instrument :
MSVOA_N
ClientSampled :

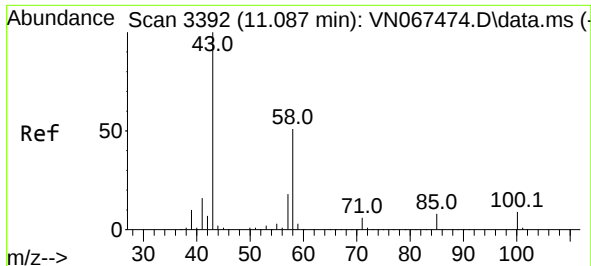
Tgt Ion: 43 Resp: 1296
Ion Ratio Lower Upper
43 100
58 16.7 28.6 43.0#



#53
t-1,3-Dichloropropene
Concen: 2.02 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.276 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 75 Resp: 168
Ion Ratio Lower Upper
75 100
77 135.7 25.1 37.7#

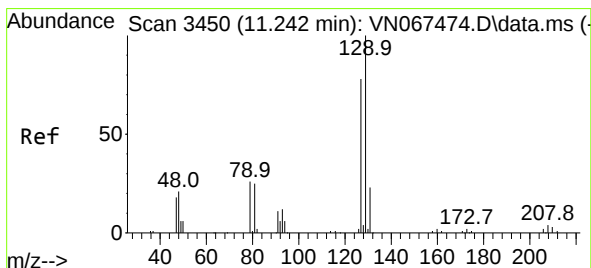
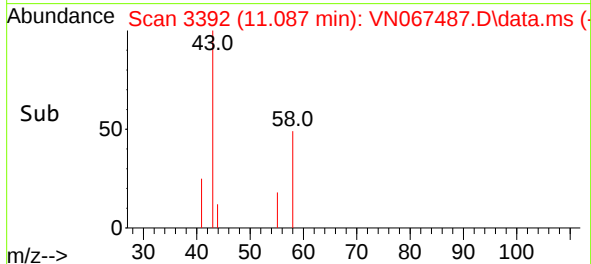
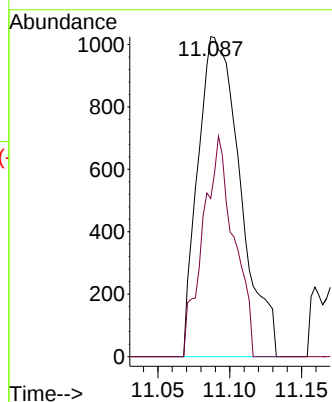
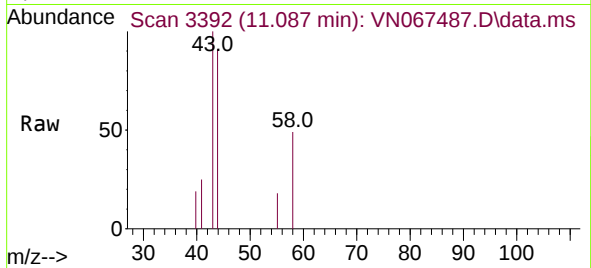




#59
2-Hexanone
Concen: 0.47 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. -0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

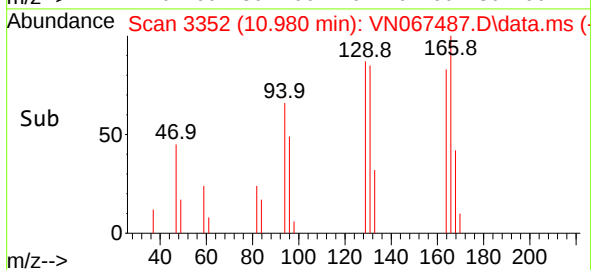
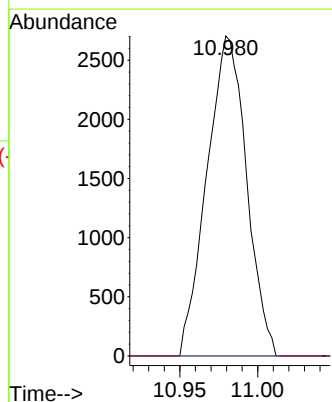
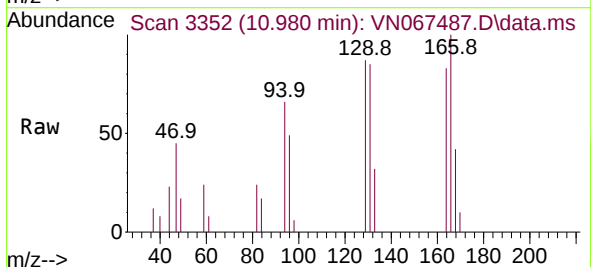
Instrument :
MSVOA_N
ClientSampled :

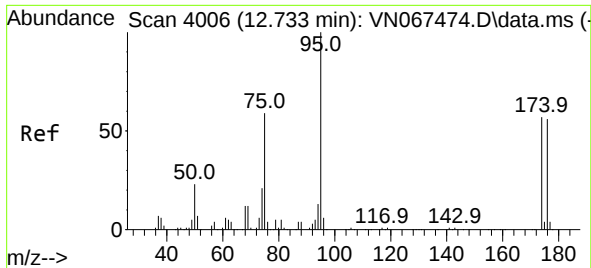
Tgt Ion: 43 Resp: 2097
Ion Ratio Lower Upper
43 100
58 50.5 24.7 74.1



#60
Dibromochloromethane
Concen: 3.18 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. -0.262 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 129 Resp: 4787
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

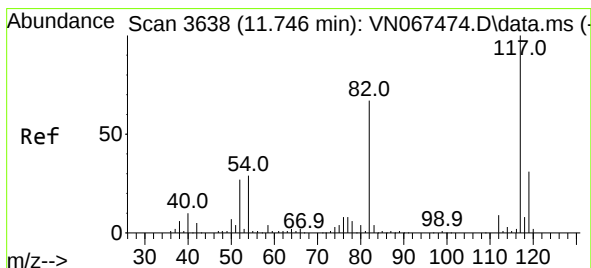
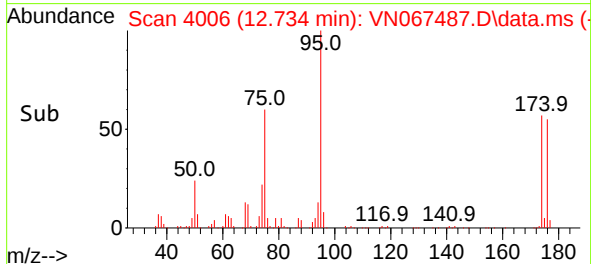
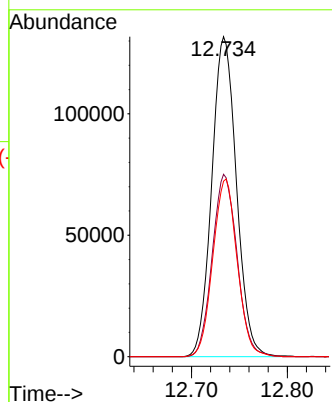
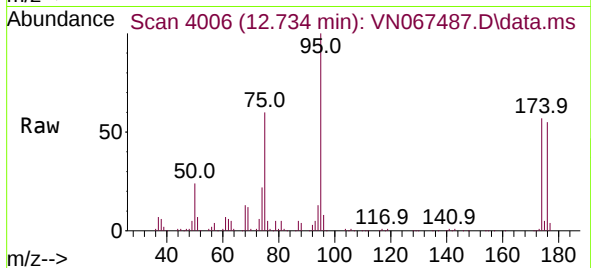




#62
4-Bromofluorobenzene
Concen: 47.80 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

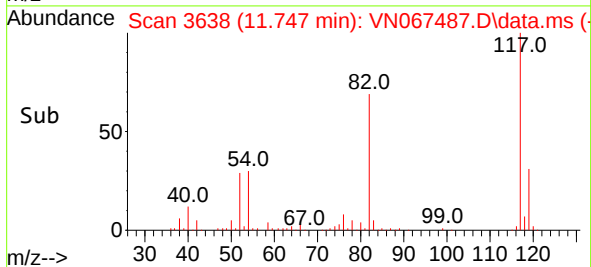
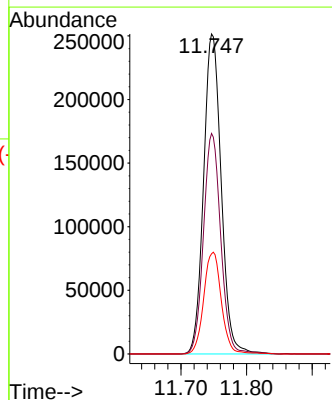
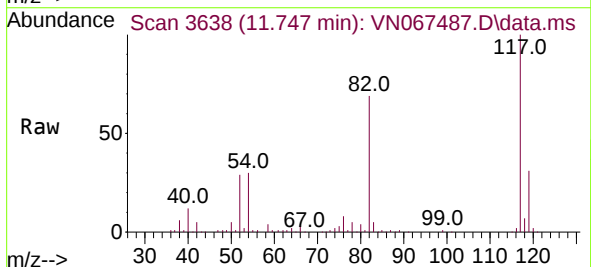
Instrument :
MSVOA_N
ClientSampleId :

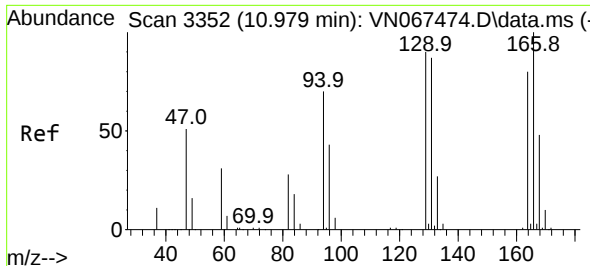
Tgt Ion: 95 Resp: 235389
Ion Ratio Lower Upper
95 100
174 57.4 0.0 122.0
176 54.8 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion: 117 Resp: 468945
Ion Ratio Lower Upper
117 100
82 68.9 53.1 79.7
119 31.3 25.5 38.3

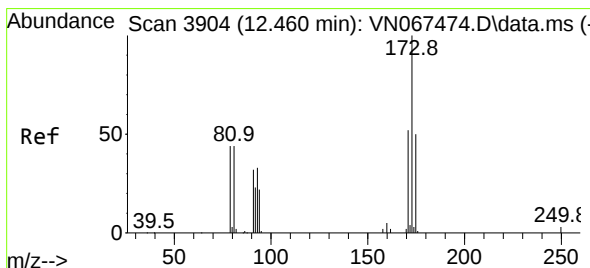
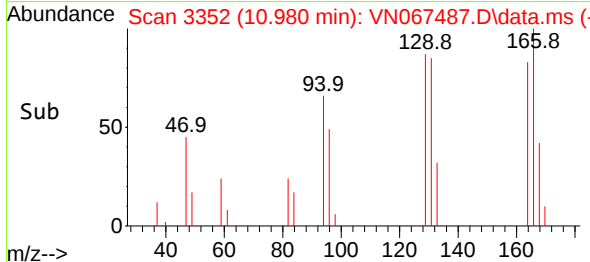
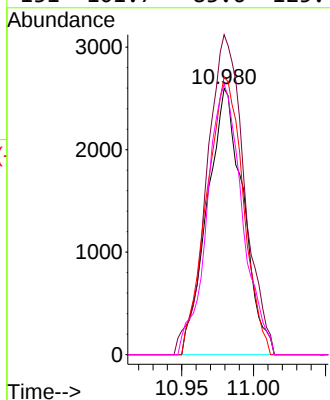
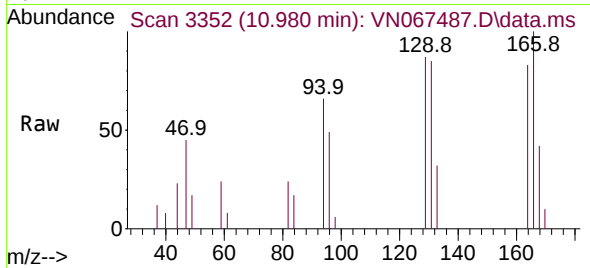




#64
Tetrachloroethene
Concen: 1.48 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. 0.001 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

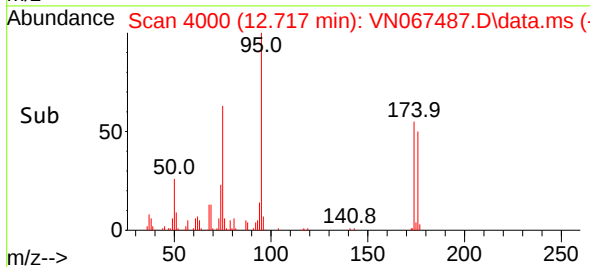
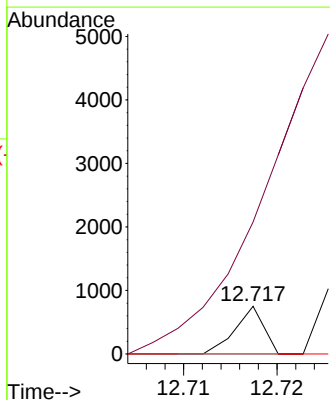
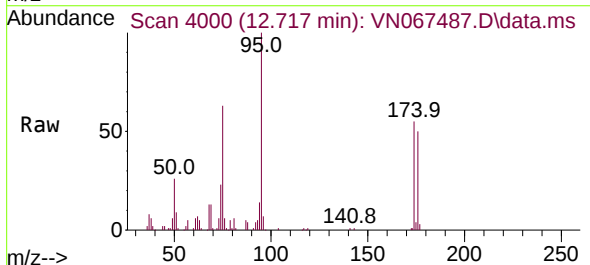
Instrument :
MSVOA_N
ClientSampleId :

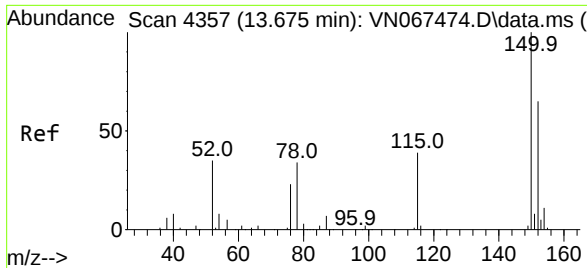
Tgt Ion:164	Resp:	4520
Ion	Ratio	Lower Upper
164	100	
166	120.2	102.1 153.1
129	104.2	86.9 130.3
131	101.7	83.6 125.4



#71
Bromoform
Concen: 2.72 ug/l
RT: 12.717 min Scan# 4000
Delta R.T. 0.257 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion:173	Resp:	160
Ion	Ratio	Lower Upper
173	100	
175	0.0	23.9 71.8#
254	0.0	0.0 0.0

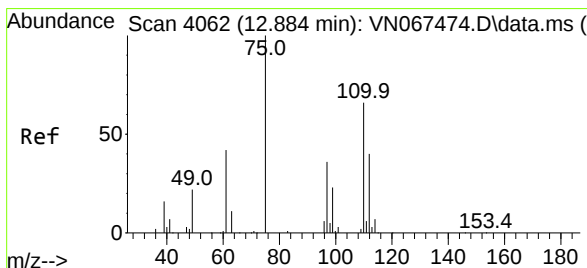
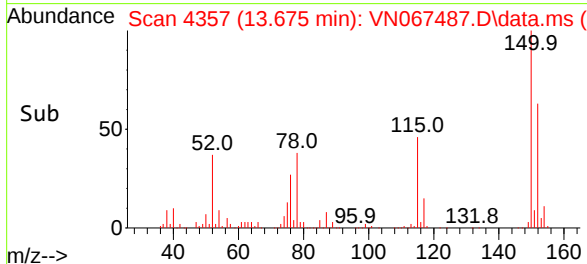
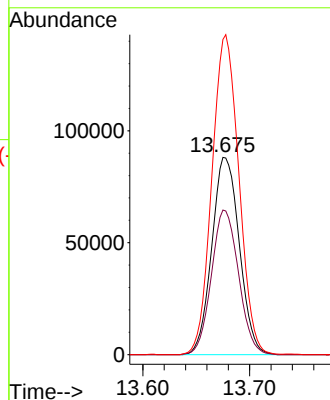
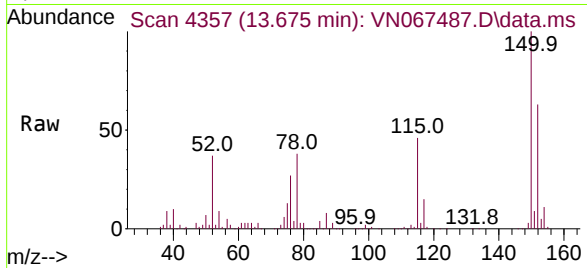




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.675 min Scan# 4357
 Delta R.T. -0.000 min
 Lab File: VN067487.D
 Acq: 24 Jun 2021 16:55

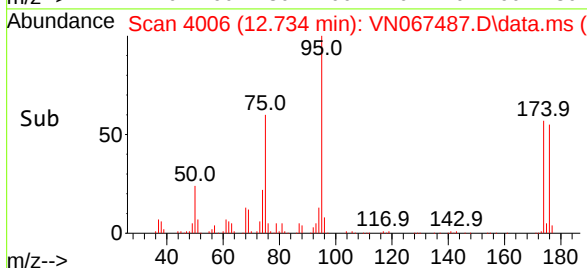
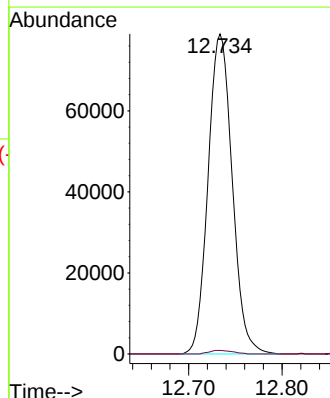
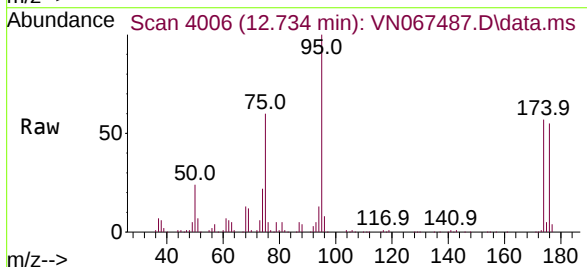
Instrument :
 MSVOA_N
 ClientSampled :

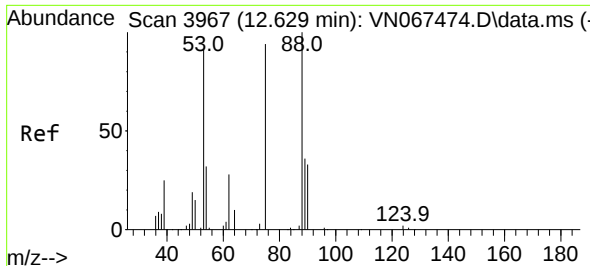
Tgt Ion:152 Resp: 157793
 Ion Ratio Lower Upper
 152 100
 115 72.3 36.1 108.5
 150 158.7 0.0 351.8



#76
 1,2,3-Trichloropropane
 Concen: 30.52 ug/l
 RT: 12.734 min Scan# 4006
 Delta R.T. -0.150 min
 Lab File: VN067487.D
 Acq: 24 Jun 2021 16:55

Tgt Ion: 75 Resp: 141746
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#

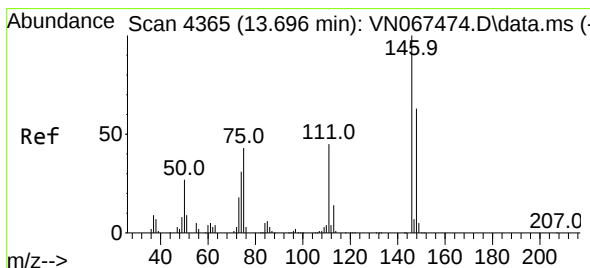
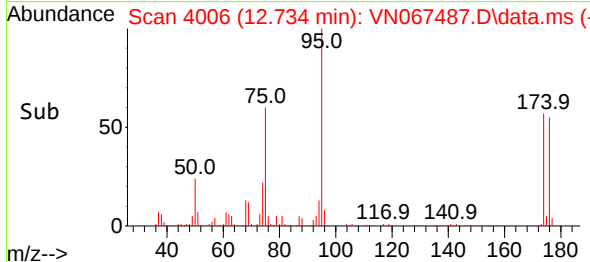
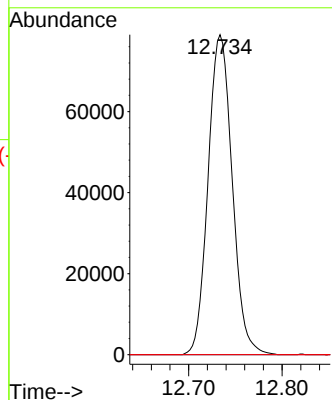
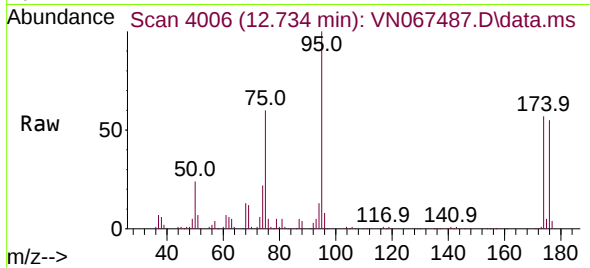




#81
trans-1,4-Dichloro-2-butene
Concen: 83.52 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

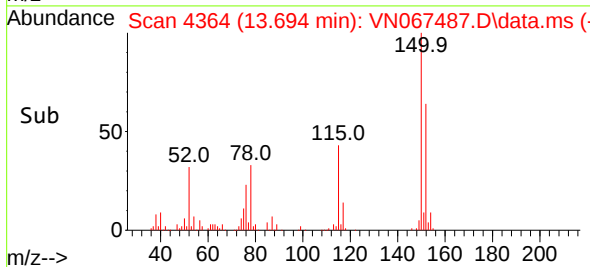
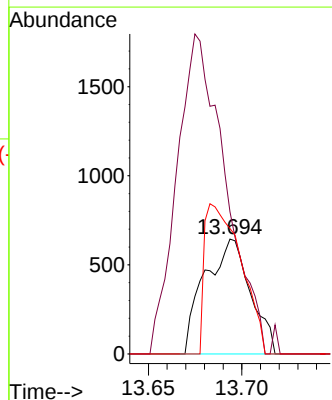
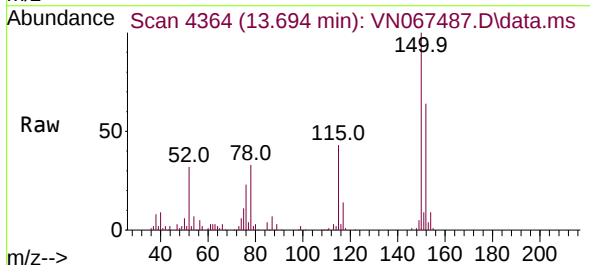
Instrument :
MSVOA_N
ClientSampleId :

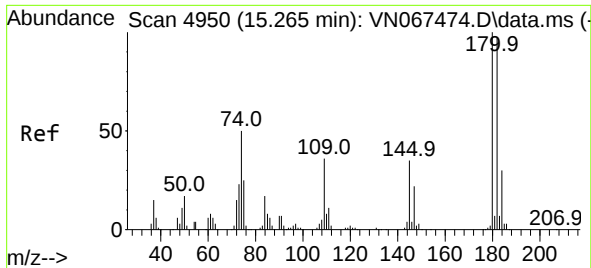
Tgt Ion: 75 Resp: 141746
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



#88
1,4-Dichlorobenzene
Concen: 0.20 ug/l
RT: 13.694 min Scan# 4364
Delta R.T. -0.002 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

Tgt Ion:146 Resp: 1095
Ion Ratio Lower Upper
146 100
111 297.1 23.4 70.2#
148 104.4 31.8 95.3#

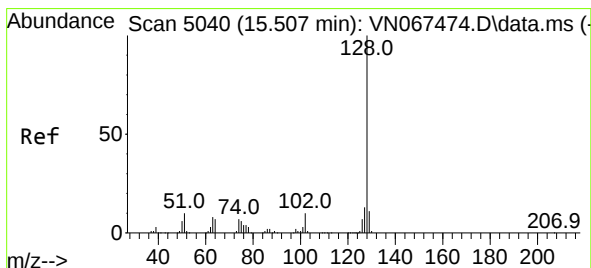
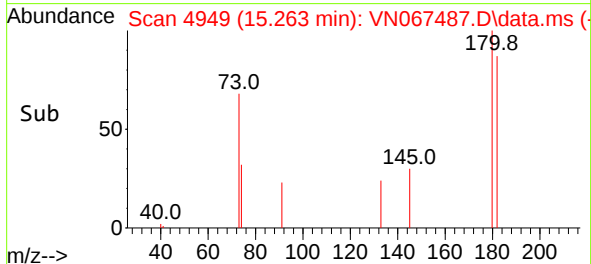
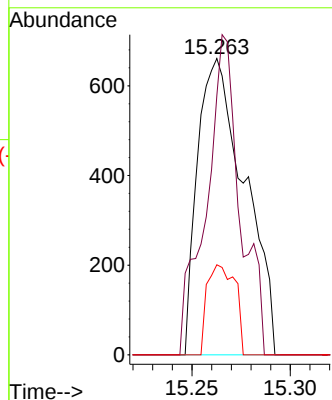
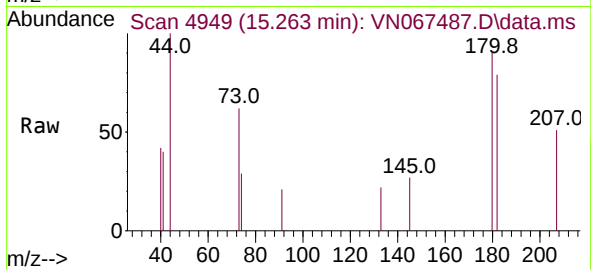




#93
1,2,4-Trichlorobenzene
Concen: 2.72 ug/l
RT: 15.263 min Scan# 4949
Delta R.T. -0.002 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

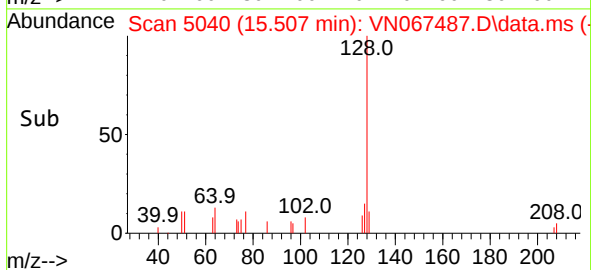
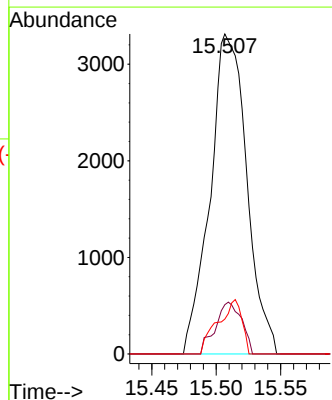
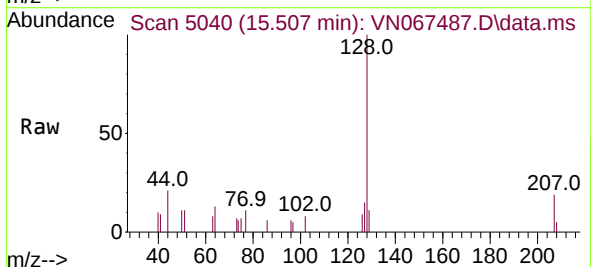
Instrument :
MSVOA_N
ClientSampled :

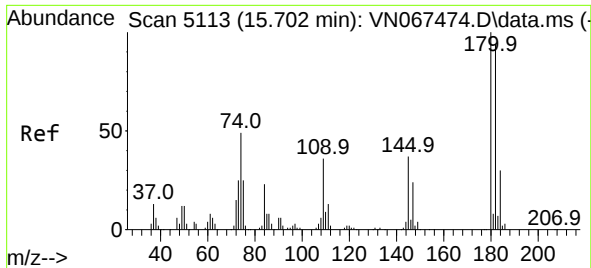
Tgt Ion:180 Resp: 1100
Ion Ratio Lower Upper
180 100
182 77.8 47.5 142.5
145 18.0 17.2 51.6



#95
Naphthalene
Concen: 4.03 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN067487.D
Acq: 24 Jun 2021 16:55

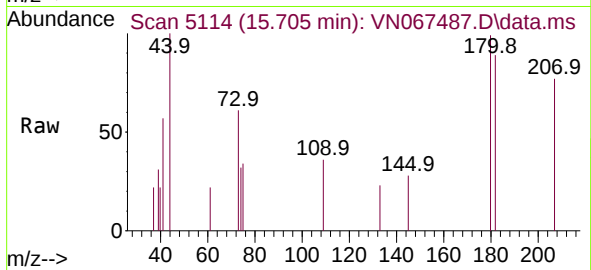
Tgt Ion:128 Resp: 6543
Ion Ratio Lower Upper
128 100
127 11.6 10.6 15.8
129 11.2 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 2.96 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.003 min
 Lab File: VN067487.D
 Acq: 24 Jun 2021 16:55

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1151
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.8	143.3
145	20.2	18.2	54.6

