

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080822\
 Data File : VN073770.D
 Acq On : 08 Aug 2022 15:11
 Operator : JC\MD
 Sample : N4024-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MANHOLE

Quant Time: Aug 09 00:27:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

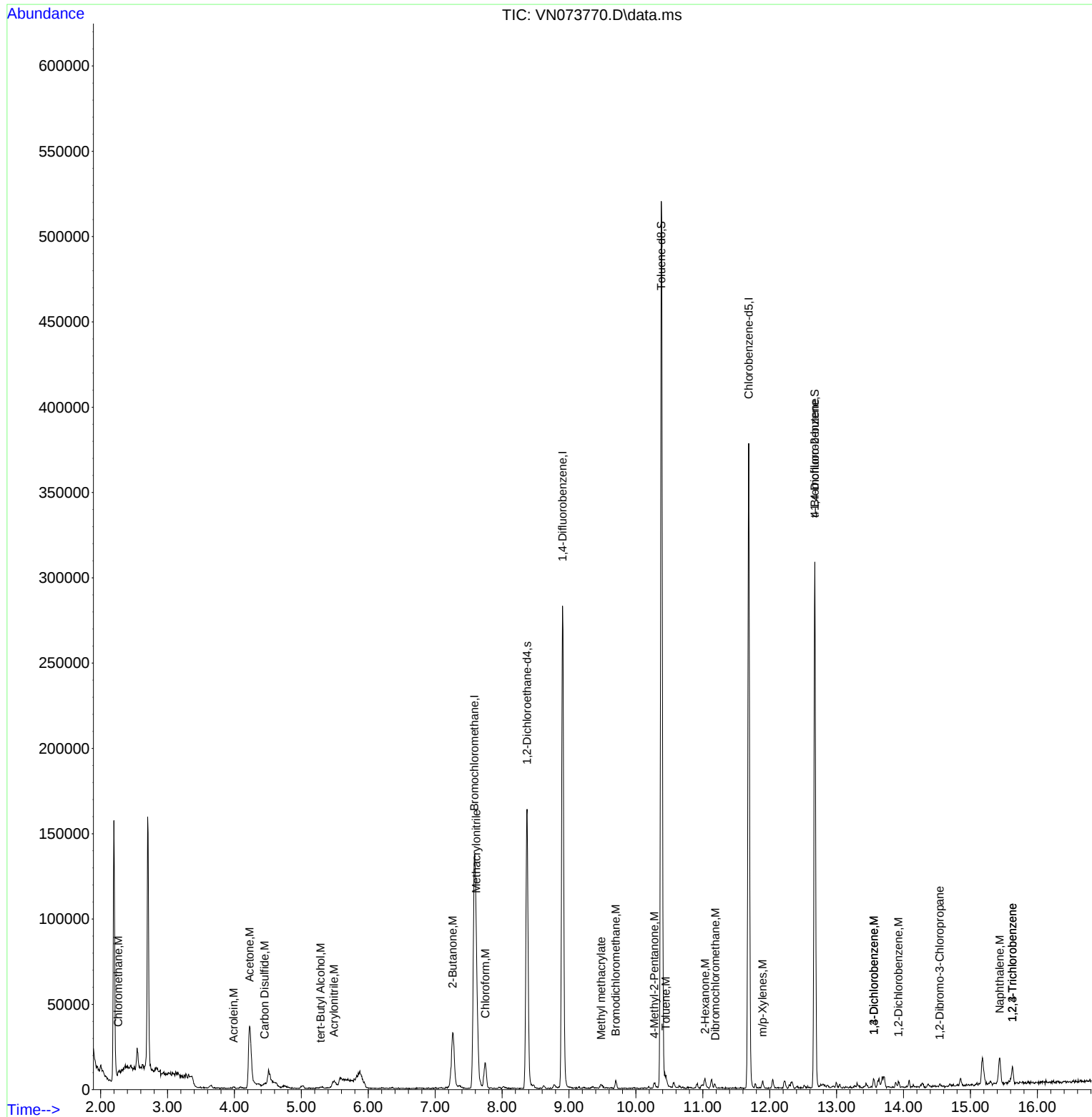
Internal Standards						
1) Bromochloromethane	7.586	128	52313	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	262070	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	227700	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.375	65	133374	29.487	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.300%
60) 4-Bromofluorobenzene	12.674	95	101041	25.061	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.533%
63) Toluene-d8	10.380	98	375922	29.320	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.733%
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	1354	0.288	ug/l #	85
13) Acrolein	3.987	56	780	0.797	ug/l #	66
14) Acrylonitrile	5.487	53	3199	1.245	ug/l #	82
15) Acetone	4.228	58	22942	32.124	ug/l	74
16) Carbon Disulfide	4.451	76	1880	0.210	ug/l #	73
23) tert-Butyl Alcohol	5.287	59	737	0.812	ug/l #	100
25) Chloroform	7.751	83	15490	2.140	ug/l	87
30) 2-Butanone	7.263	43	50718	14.983	ug/l	99
35) Methacrylonitrile	7.616	41	26158	9.520	ug/l #	42
41) Bromodichloromethane	9.698	83	3044	0.573	ug/l #	74
46) Methyl methacrylate	9.480	41	1042	0.261	ug/l #	7
53) Dibromochloromethane	11.186	129	1526	0.370	ug/l	95
58) 4-Methyl-2-Pentanone	10.275	43	2696	0.458	ug/l #	71
59) 2-Hexanone	11.033	43	4723	1.041	ug/l #	87
62) Toluene	10.445	91	4059	0.256	ug/l	99
67) m/p-Xylenes	11.892	106	1434	0.222	ug/l	96
77) t-1,4-Dichloro-2-butene	12.674	75	52037	29.594	ug/l #	8
83) 1,3-Dichlorobenzene	13.557	146	1886	0.252	ug/l	87
84) 1,4-Dichlorobenzene	13.557	146	1886	0.262	ug/l	89
87) 1,2-Dichlorobenzene	13.921	146	1609	0.213	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.539	75	328	0.260	ug/l #	41
89) 1,2,4-Trichlorobenzene	15.627	180	4300	1.034	ug/l	90
91) Naphthalene	15.439	128	18016	1.320	ug/l	98
92) 1,2,3-Trichlorobenzene	15.627	180	4300	1.007	ug/l	91

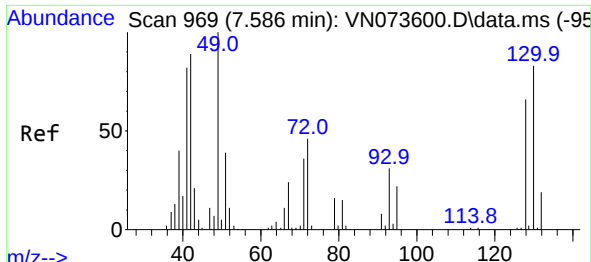
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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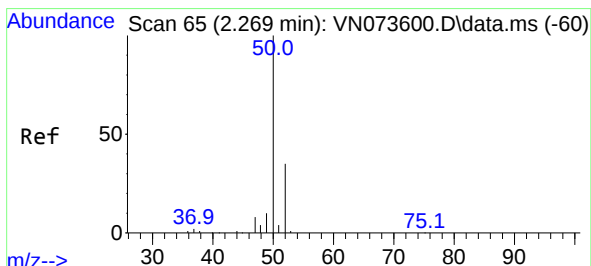
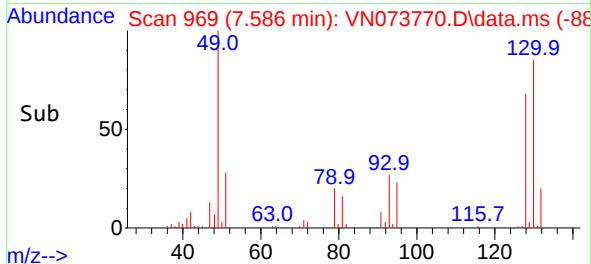
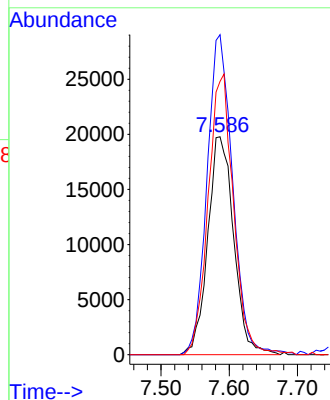
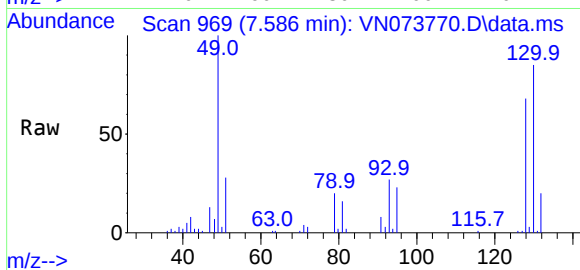




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.586 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

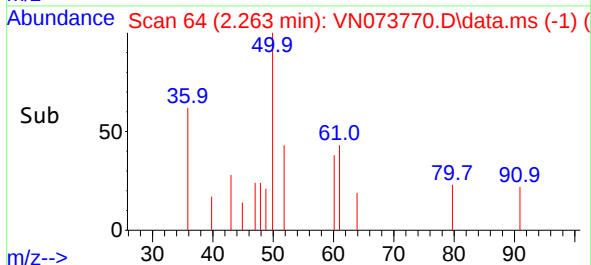
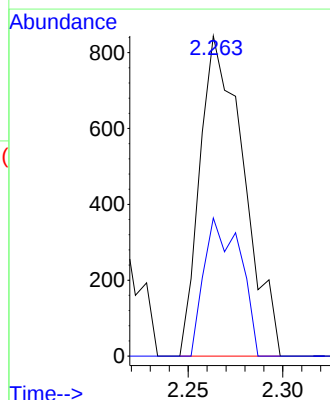
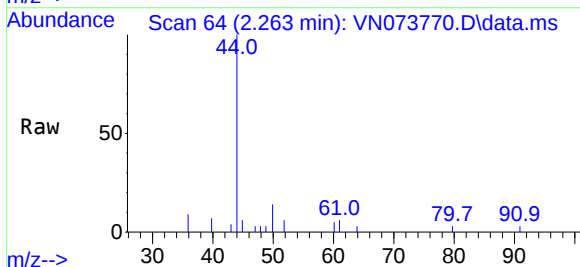
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MSVOA_N
ClientSampleId :
MANHOLE

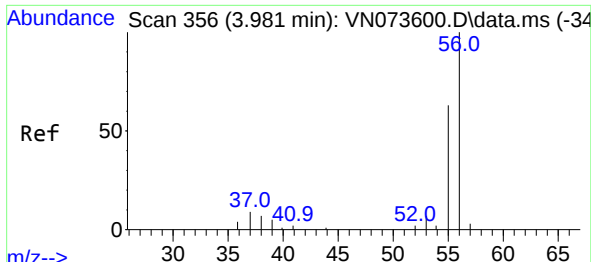
Tgt Ion:128 Resp: 52313
Ion Ratio Lower Upper
128 100
49 144.0 0.0 392.3
130 125.6 0.0 320.2



#3
Chloromethane
Concen: 0.288 ug/l
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 50 Resp: 1354
Ion Ratio Lower Upper
50 100
52 43.1 27.8 41.6#

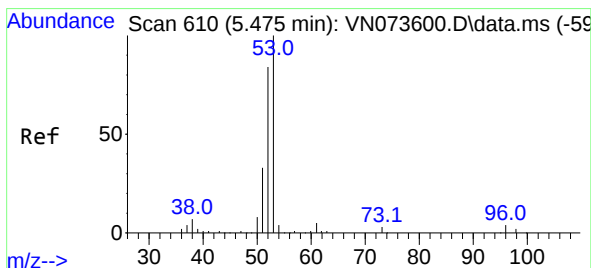
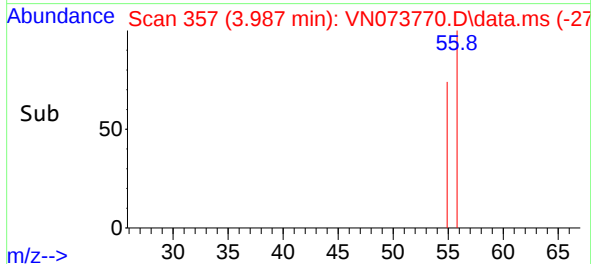
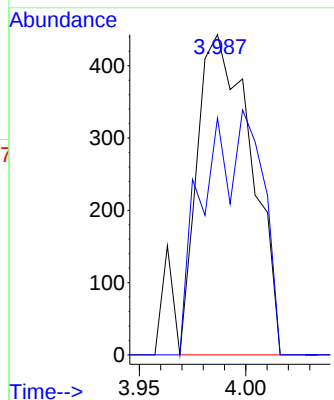
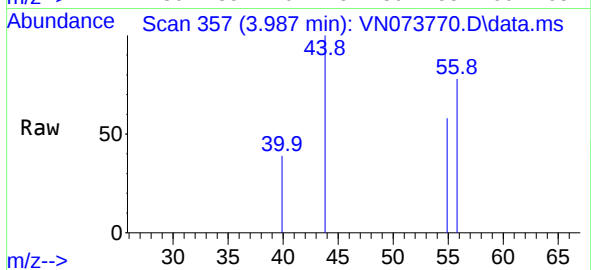




#13
Acrolein
Concen: 0.797 ug/l
RT: 3.987 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

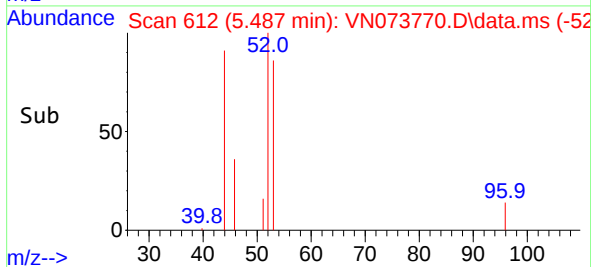
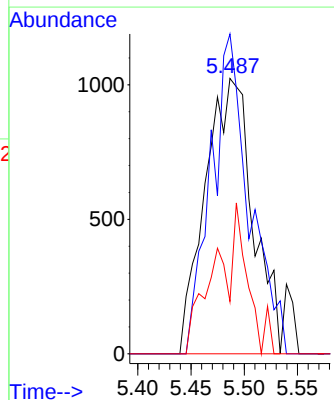
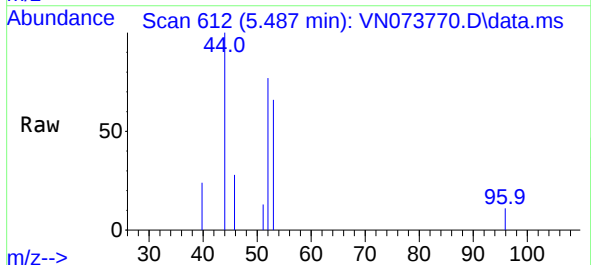
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ClientSampleId :
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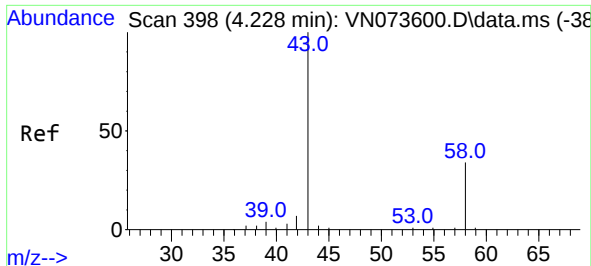
Tgt Ion: 56 Resp: 780
Ion Ratio Lower Upper
56 100
55 44.0 57.6 86.4#



#14
Acrylonitrile
Concen: 1.245 ug/l
RT: 5.487 min Scan# 612
Delta R.T. 0.012 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 53 Resp: 3199
Ion Ratio Lower Upper
53 100
52 75.6 41.8 125.4
51 14.8 19.0 57.0#

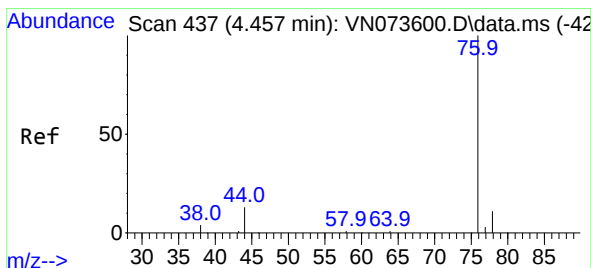
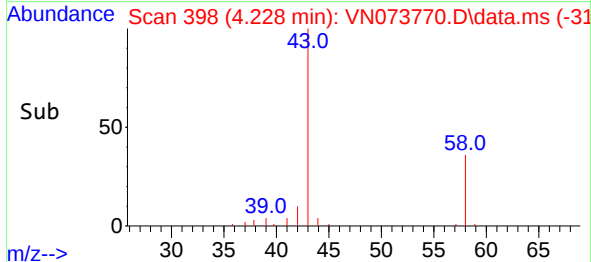
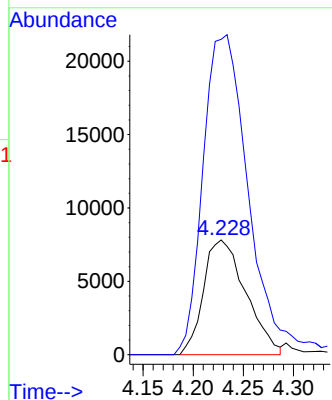
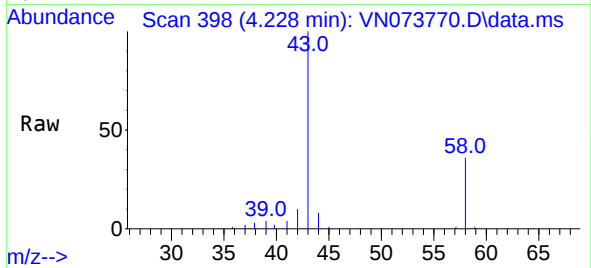




#15
Acetone
Concen: 32.124 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

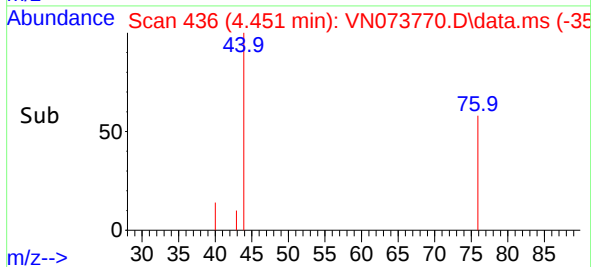
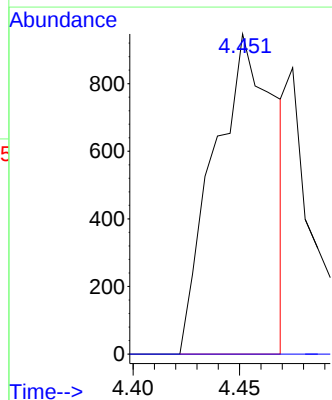
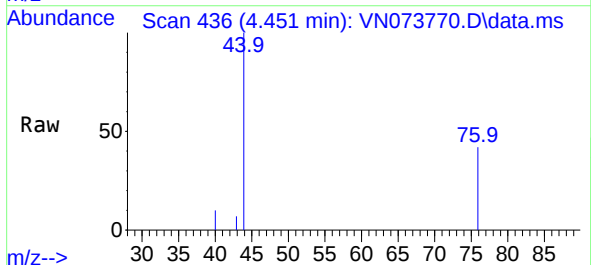
Instrument :
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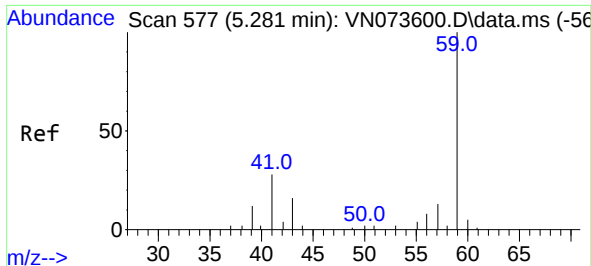
Tgt Ion: 58 Resp: 22942
Ion Ratio Lower Upper
58 100
43 268.2 256.6 384.8



#16
Carbon Disulfide
Concen: 0.210 ug/l
RT: 4.451 min Scan# 436
Delta R.T. -0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 76 Resp: 1880
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#

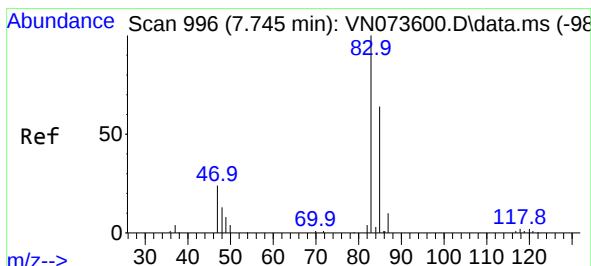
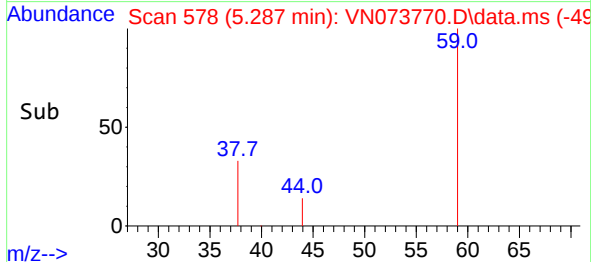
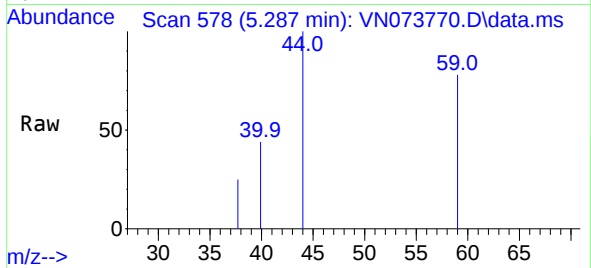




#23
tert-Butyl Alcohol
Concen: 0.812 ug/l
RT: 5.287 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

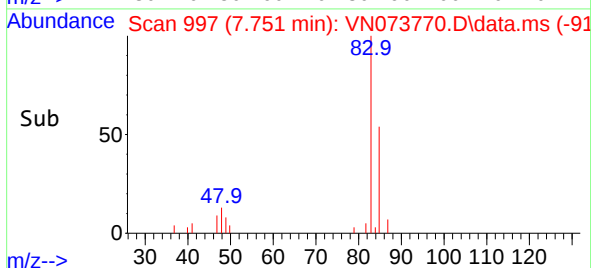
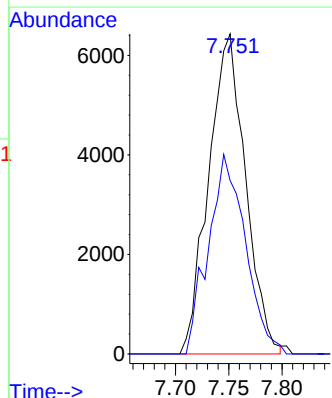
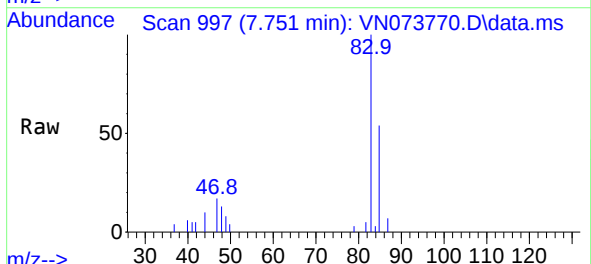
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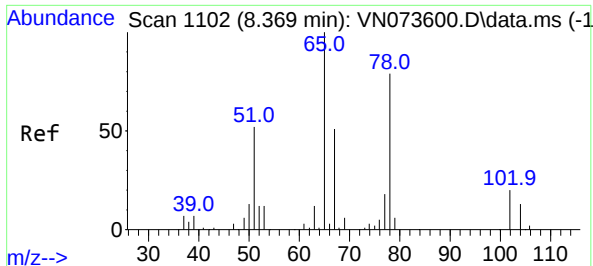
Tgt Ion: 59 Resp: 737
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.140 ug/l
RT: 7.751 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 83 Resp: 15490
Ion Ratio Lower Upper
83 100
85 54.2 51.3 76.9

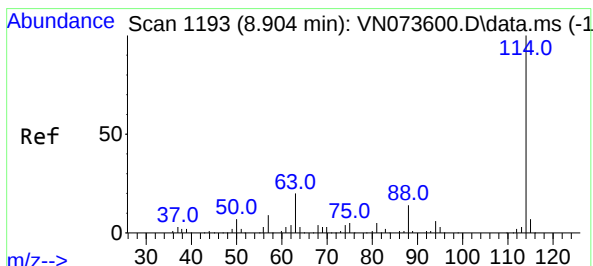
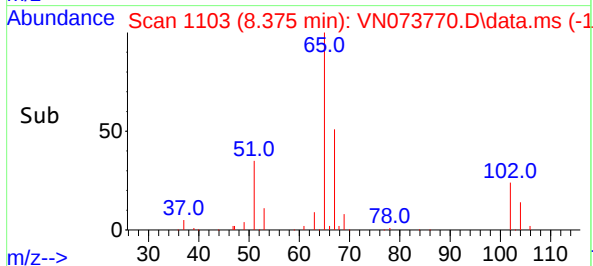
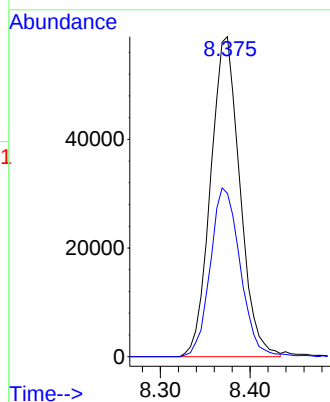
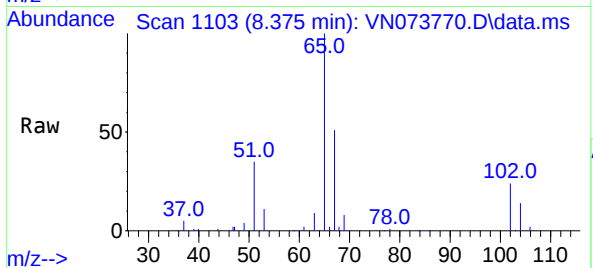




#27
1,2-Dichloroethane-d4
Concen: 29.487 ug/l
RT: 8.375 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

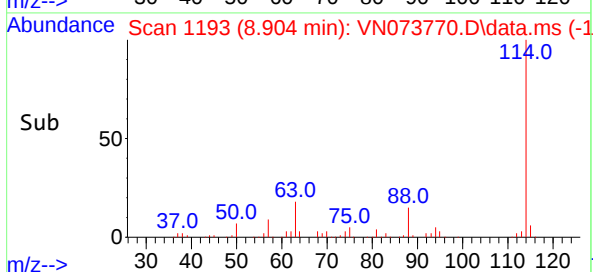
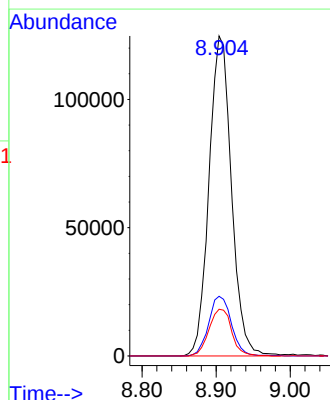
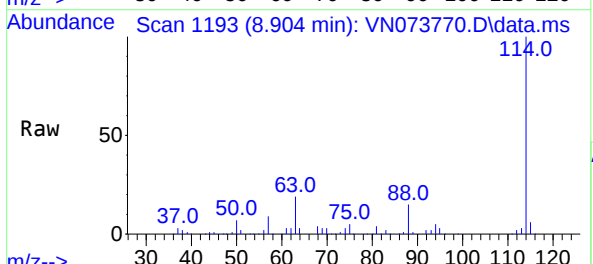
Instrument :
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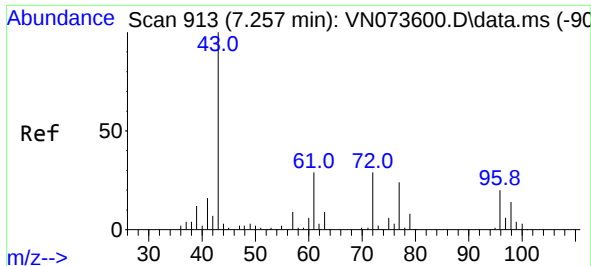
Tgt Ion: 65 Resp: 133374
Ion Ratio Lower Upper
65 100
67 53.9 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 114 Resp: 262070
Ion Ratio Lower Upper
114 100
63 18.9 15.8 23.6
88 14.8 11.6 17.4

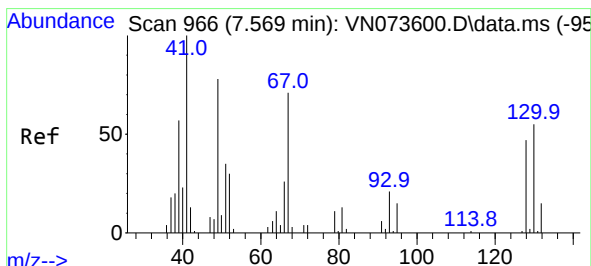
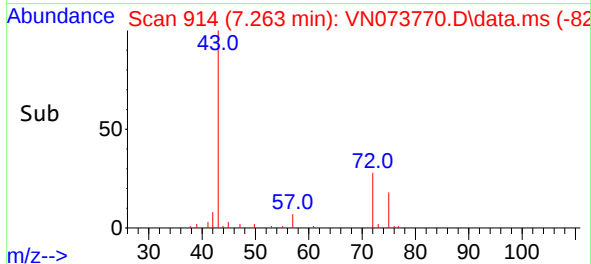
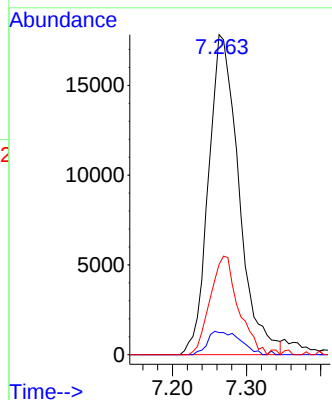
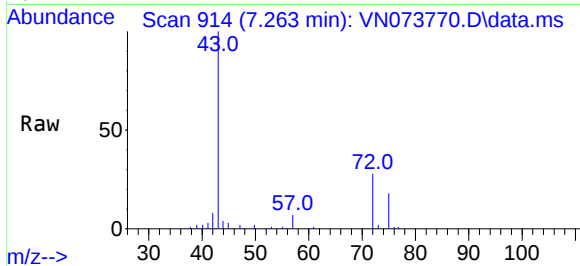




#30
2-Butanone
Concen: 14.983 ug/l
RT: 7.263 min Scan# 913
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

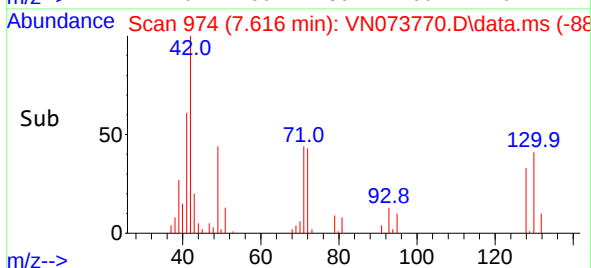
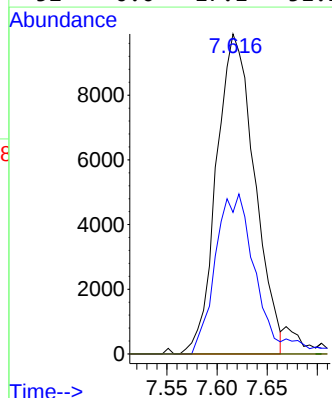
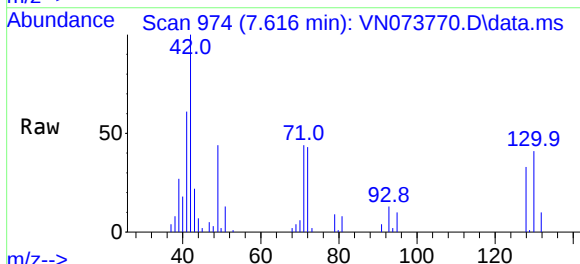
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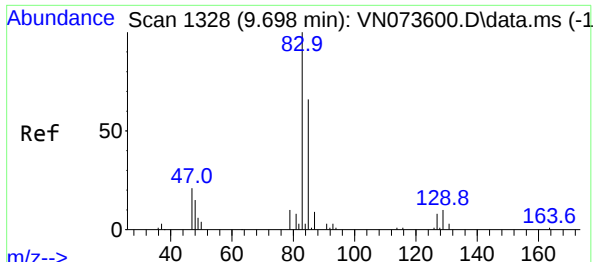
Tgt Ion: 43 Resp: 50718
Ion Ratio Lower Upper
43 100
57 7.8 6.7 10.1
72 28.6 23.2 34.8



#35
Methacrylonitrile
Concen: 9.520 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.047 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 41 Resp: 26158
Ion Ratio Lower Upper
41 100
39 44.2 28.0 83.9
67 0.0 37.7 113.1#
52 0.0 17.1 51.2#

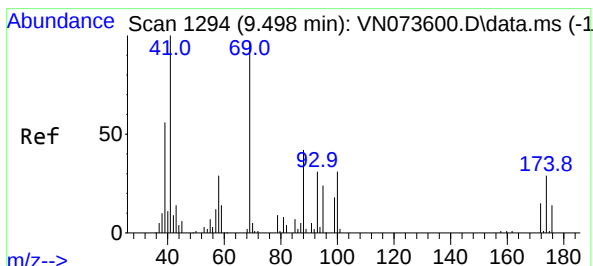
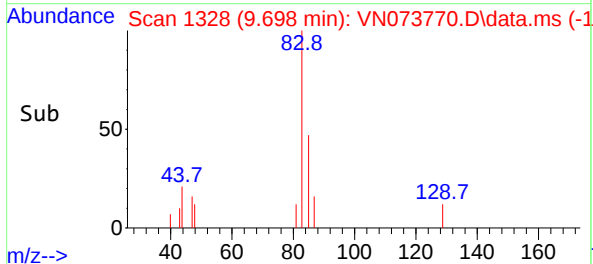
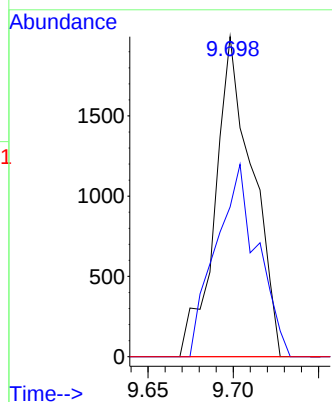
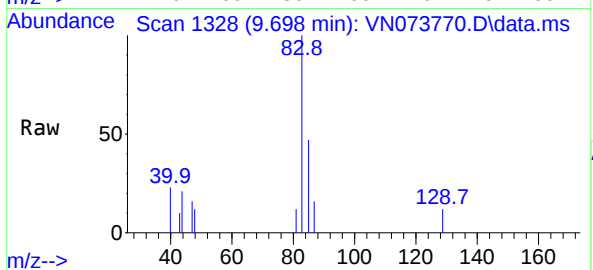




#41
Bromodichloromethane
Concen: 0.573 ug/l
RT: 9.698 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

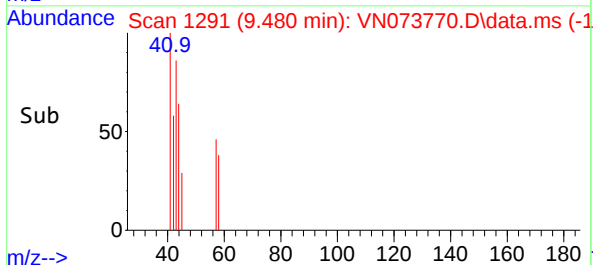
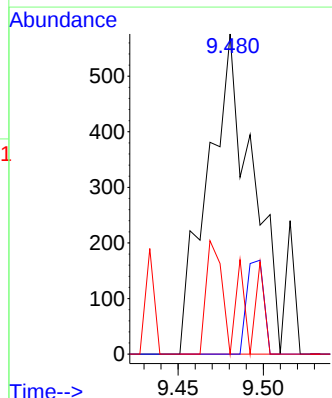
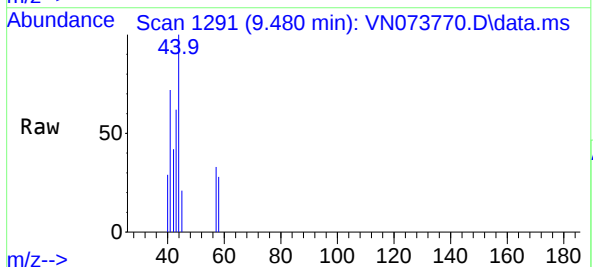
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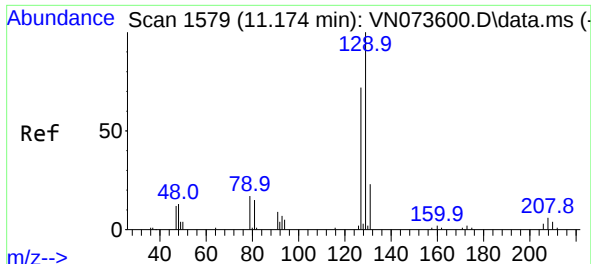
Tgt Ion: 83 Resp: 3044
Ion Ratio Lower Upper
83 100
85 46.8 54.1 81.1#
127 0.0 7.6 11.4#



#46
Methyl methacrylate
Concen: 0.261 ug/l
RT: 9.480 min Scan# 1291
Delta R.T. -0.018 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 41 Resp: 1042
Ion Ratio Lower Upper
41 100
69 0.0 44.4 133.2#
39 0.0 39.9 119.6#

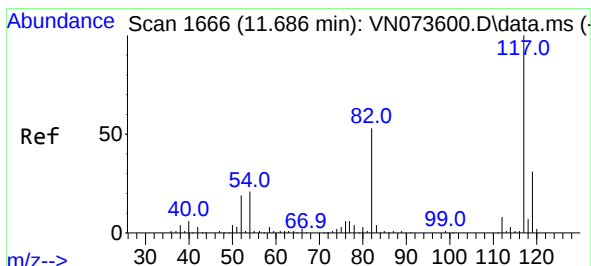
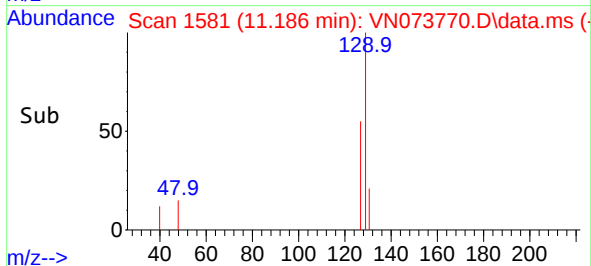
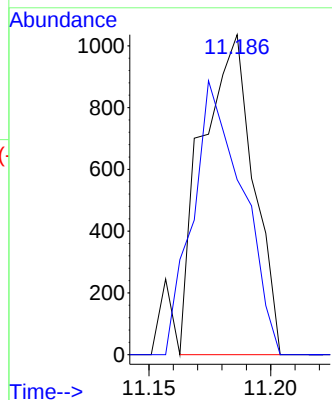
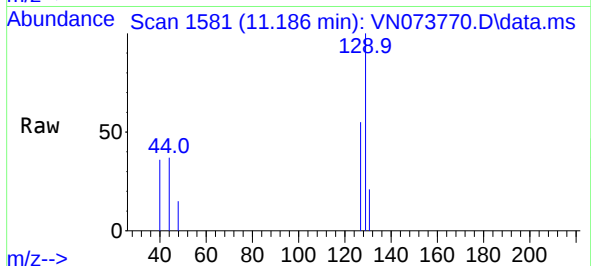




#53
Dibromochloromethane
Concen: 0.370 ug/l
RT: 11.186 min Scan# 1579
Delta R.T. 0.012 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

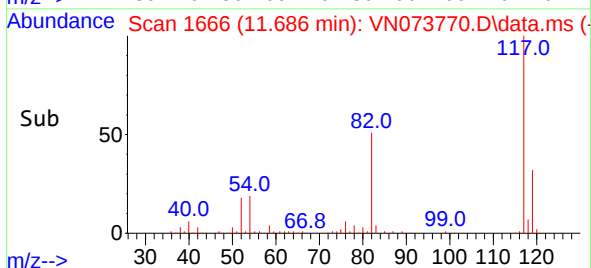
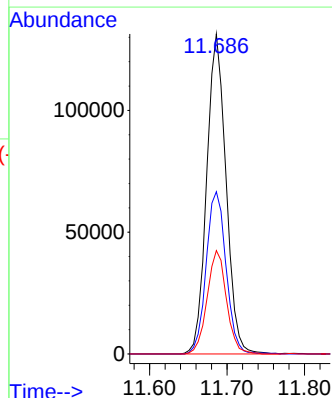
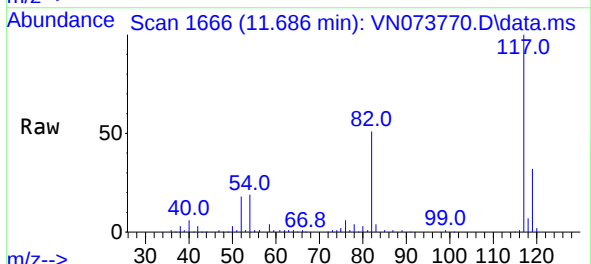
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

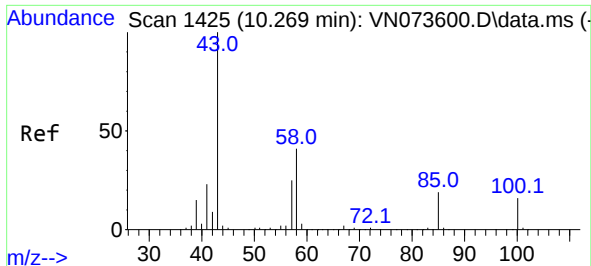
Tgt Ion:129 Resp: 1526
Ion Ratio Lower Upper
129 100
127 82.5 39.0 117.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion:117 Resp: 227700
Ion Ratio Lower Upper
117 100
82 51.9 43.6 65.4
119 32.4 25.8 38.6

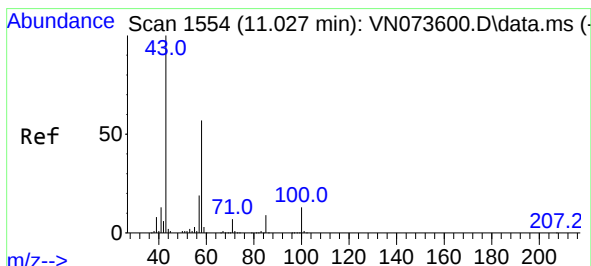
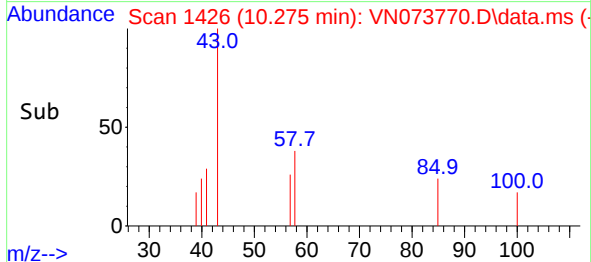
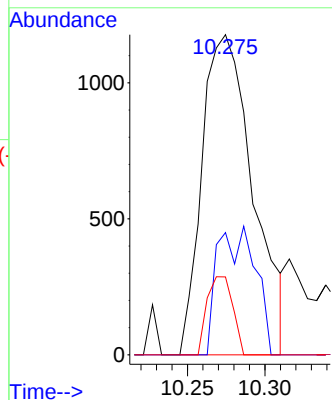
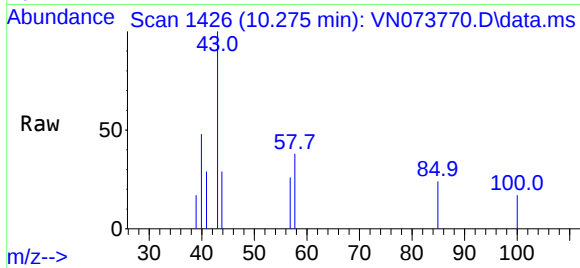




#58
4-Methyl-2-Pentanone
Concen: 0.458 ug/l
RT: 10.275 min Scan# 1425
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

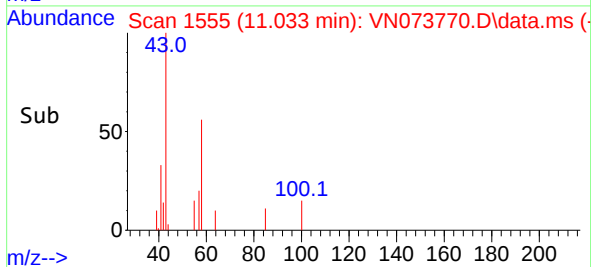
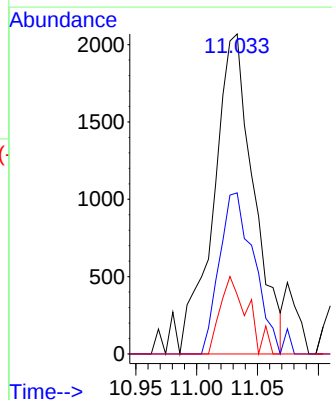
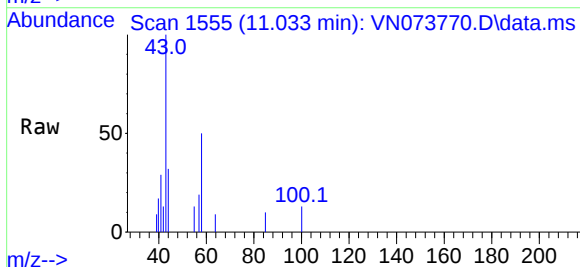
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

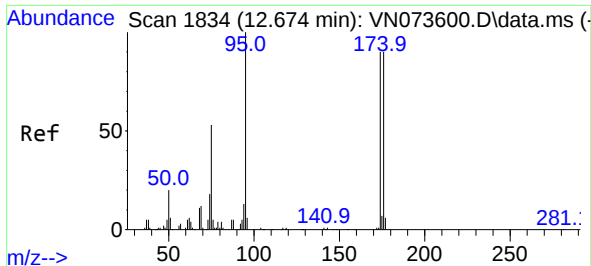
Tgt Ion:	43	Resp:	2696
Ion	Ratio	Lower	Upper
43	100		
58	15.5	30.0	45.0#
85	12.2	15.0	22.6#



#59
2-Hexanone
Concen: 1.041 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion:	43	Resp:	4723
Ion	Ratio	Lower	Upper
43	100		
58	43.5	42.2	63.2
57	12.6	15.0	22.4#

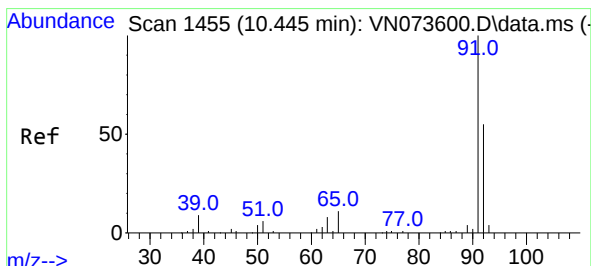
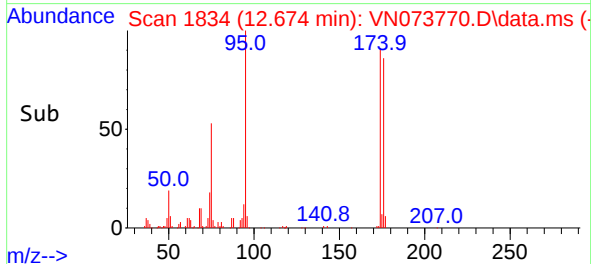
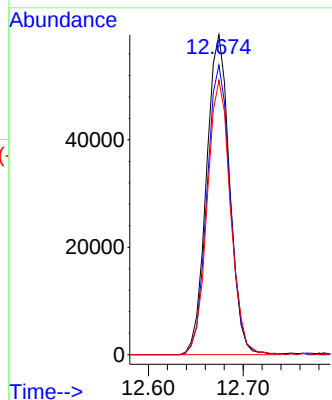
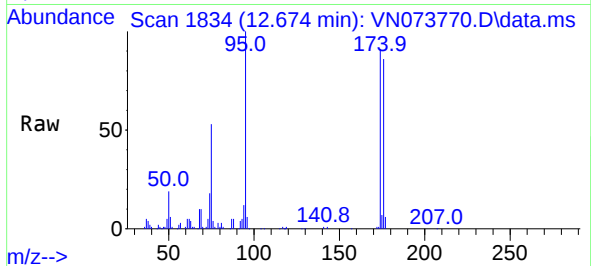




#60
4-Bromofluorobenzene
Concen: 25.061 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

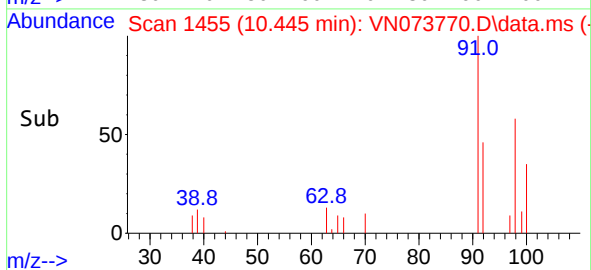
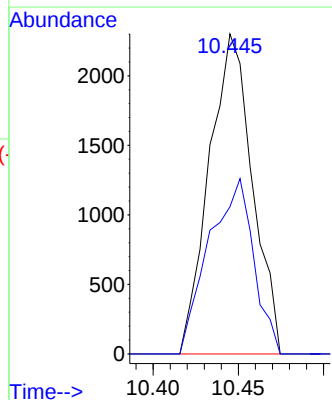
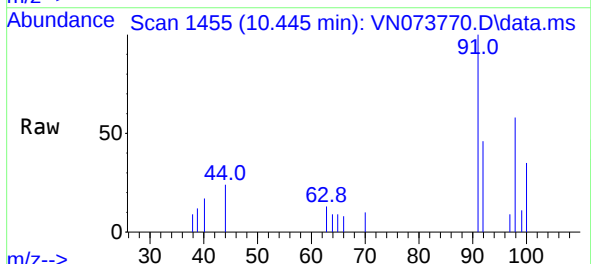
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

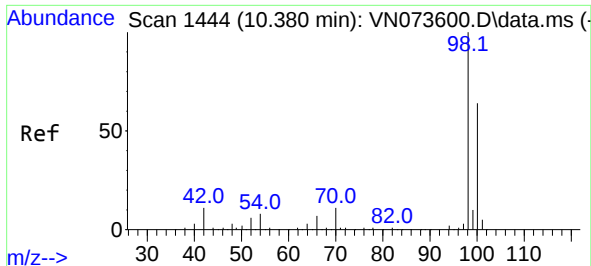
Tgt Ion: 95 Resp: 101041
Ion Ratio Lower Upper
95 100
174 91.3 62.9 94.3
176 86.5 61.0 91.4



#62
Toluene
Concen: 0.256 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 91 Resp: 4059
Ion Ratio Lower Upper
91 100
92 56.5 44.6 67.0

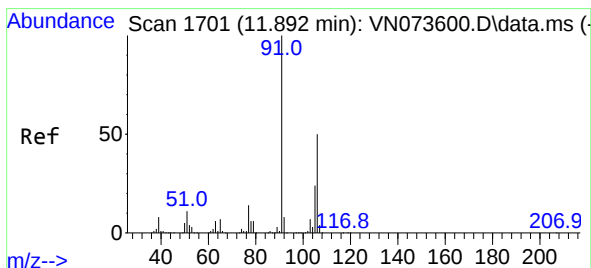
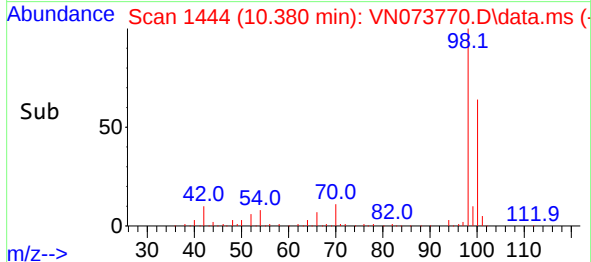
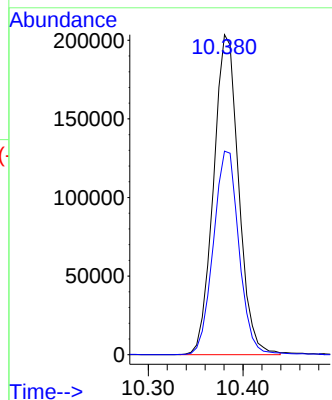
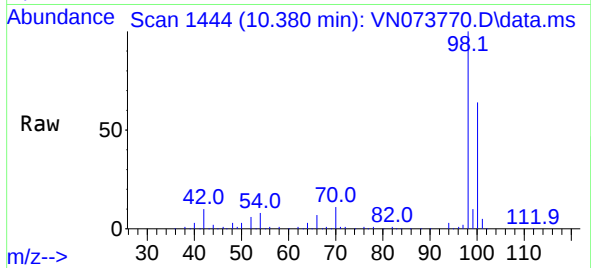




#63
Toluene-d8
Concen: 29.320 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

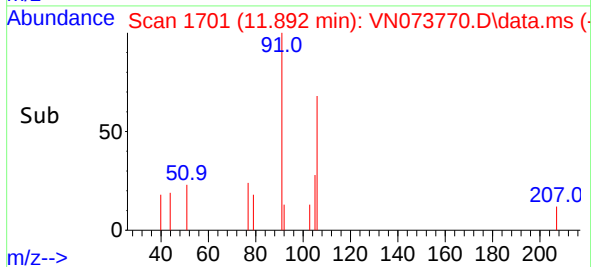
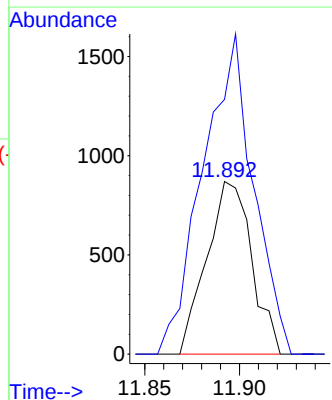
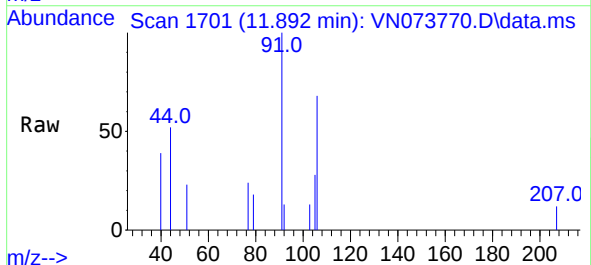
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

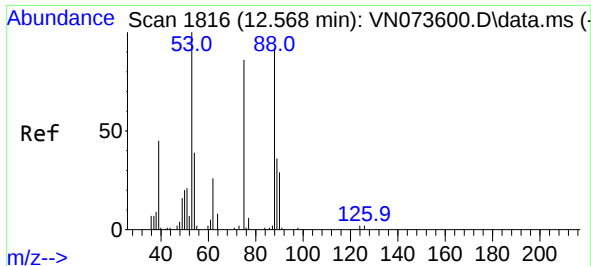
Tgt Ion: 98 Resp: 375922
Ion Ratio Lower Upper
98 100
100 64.8 50.6 76.0



#67
m/p-Xylenes
Concen: 0.222 ug/l
RT: 11.892 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 106 Resp: 1434
Ion Ratio Lower Upper
106 100
91 209.1 162.9 244.3

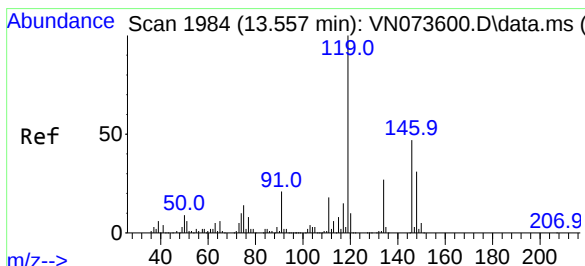
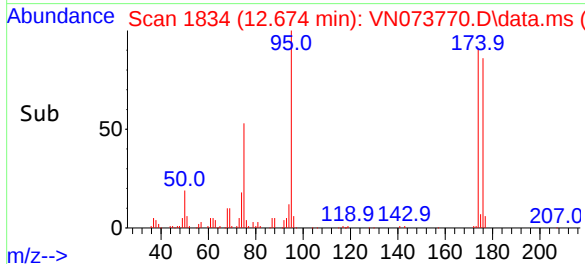
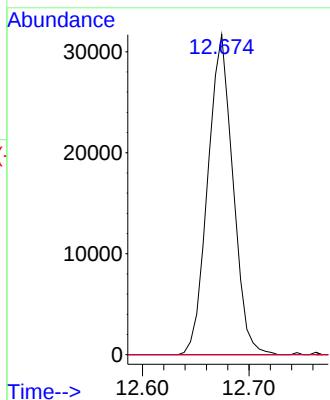
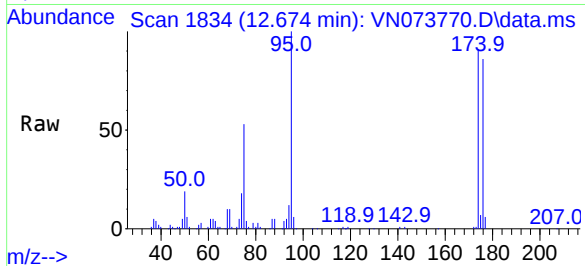




#77
t-1,4-Dichloro-2-butene
Concen: 29.594 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

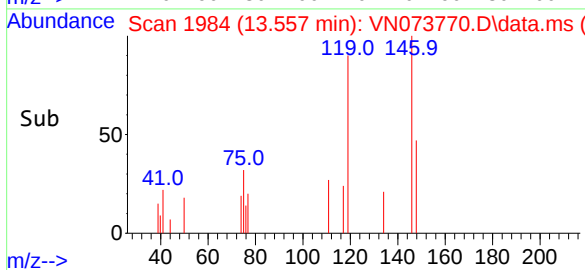
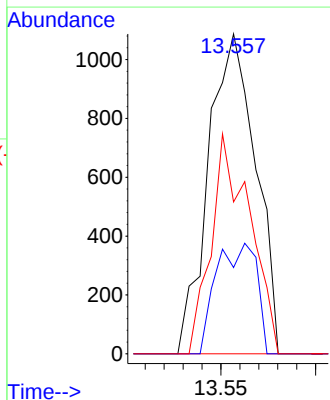
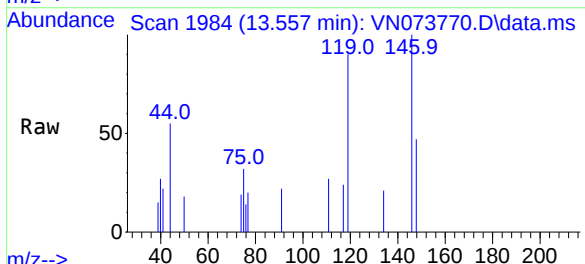
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

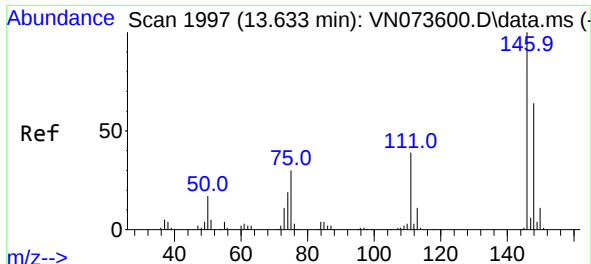
Tgt Ion: 75 Resp: 52037
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#83
1,3-Dichlorobenzene
Concen: 0.252 ug/l
RT: 13.557 min Scan# 1984
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion:146 Resp: 1886
Ion Ratio Lower Upper
146 100
111 29.5 20.8 62.2
148 56.2 31.4 94.3

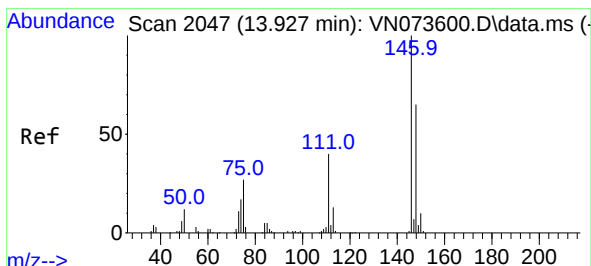
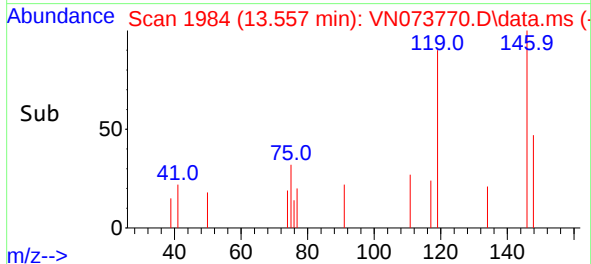
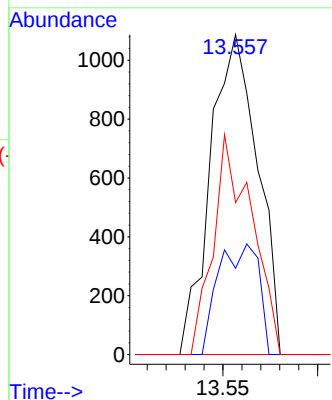
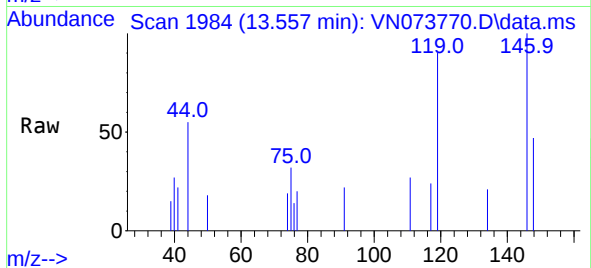




#84
1,4-Dichlorobenzene
Concen: 0.262 ug/l
RT: 13.557 min Scan# 1997
Delta R.T. -0.076 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

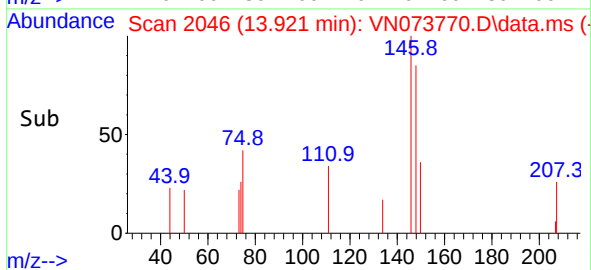
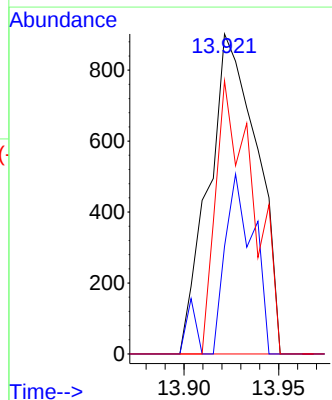
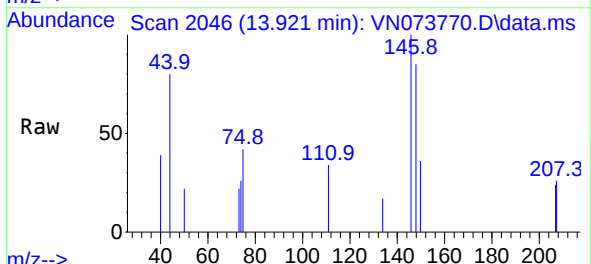
Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

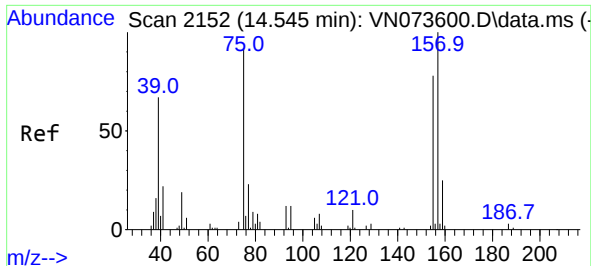
Tgt Ion:146	Resp:	1886
Ion	Ratio	Lower Upper
146	100	
111	29.5	19.5 58.5
148	56.2	31.1 93.5



#87
1,2-Dichlorobenzene
Concen: 0.213 ug/l
RT: 13.921 min Scan# 2046
Delta R.T. -0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

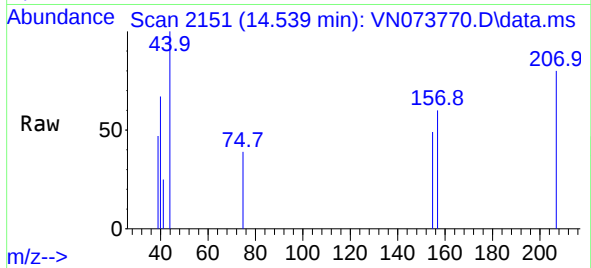
Tgt Ion:146	Resp:	1609
Ion	Ratio	Lower Upper
146	100	
111	32.6	21.4 64.2
148	66.1	32.5 97.4



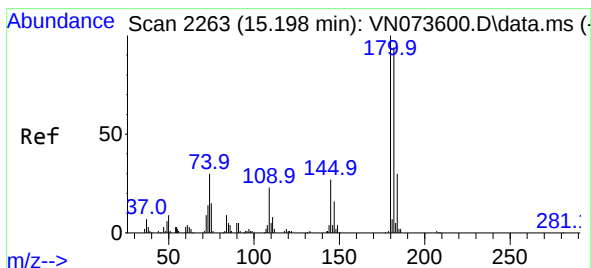
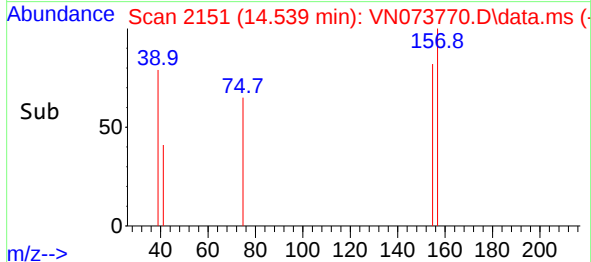
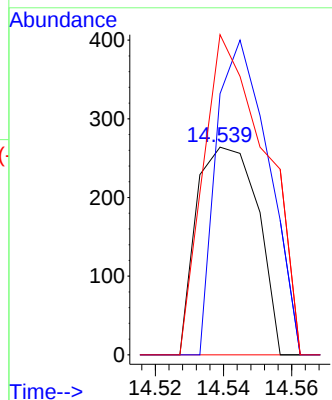


#88
1,2-Dibromo-3-Chloropropane
Concen: 0.260 ug/l
RT: 14.539 min Scan# 2151
Delta R.T. -0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Instrument :
MSVOA_N
ClientSampleId :
MANHOLE

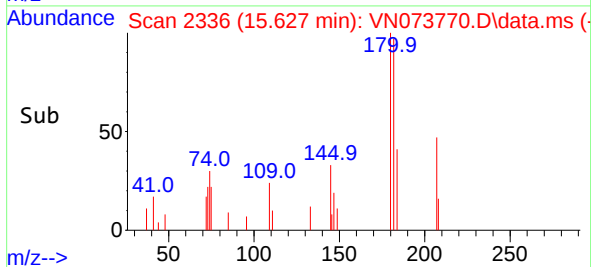
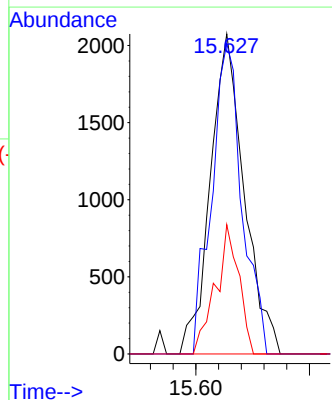
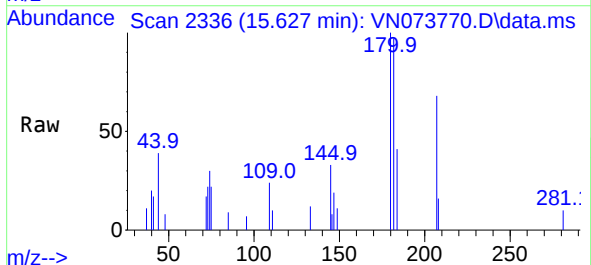


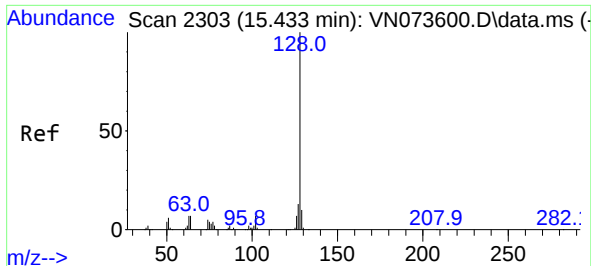
Tgt Ion: 75 Resp: 328
Ion Ratio Lower Upper
75 100
155 129.9 63.8 95.8#
157 157.9 77.9 116.9#



#89
1,2,4-Trichlorobenzene
Concen: 1.034 ug/l
RT: 15.627 min Scan# 2336
Delta R.T. 0.429 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion: 180 Resp: 4300
Ion Ratio Lower Upper
180 100
182 87.3 77.7 116.5
145 27.7 26.6 39.8

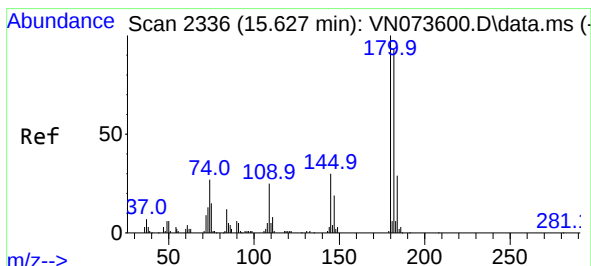
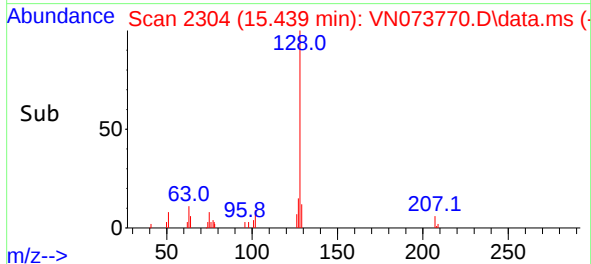
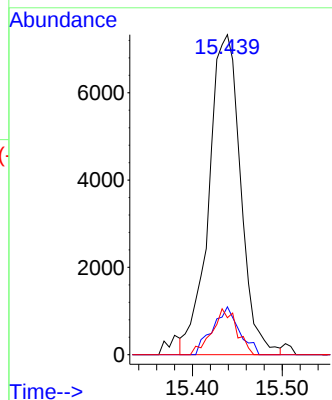
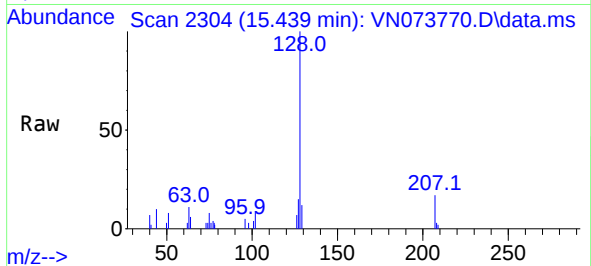




#91
Naphthalene
Concen: 1.320 ug/l
RT: 15.439 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion:	128	Resp:	18016
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.7	16.1
129	11.2	9.0	13.6



#92
1,2,3-Trichlorobenzene
Concen: 1.007 ug/l
RT: 15.627 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VN073770.D
Acq: 08 Aug 2022 15:11

Tgt Ion:	180	Resp:	4300
Ion	Ratio	Lower	Upper
180	100		
182	87.3	0.0	190.0
145	27.7	0.0	67.8

