

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081822\
 Data File : VN074011.D
 Acq On : 18 Aug 2022 17:51
 Operator : JC\MD
 Sample : N4224-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-0816

Quant Time: Aug 19 00:02:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 16 00:45:21 2022
 Response via : Initial Calibration

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

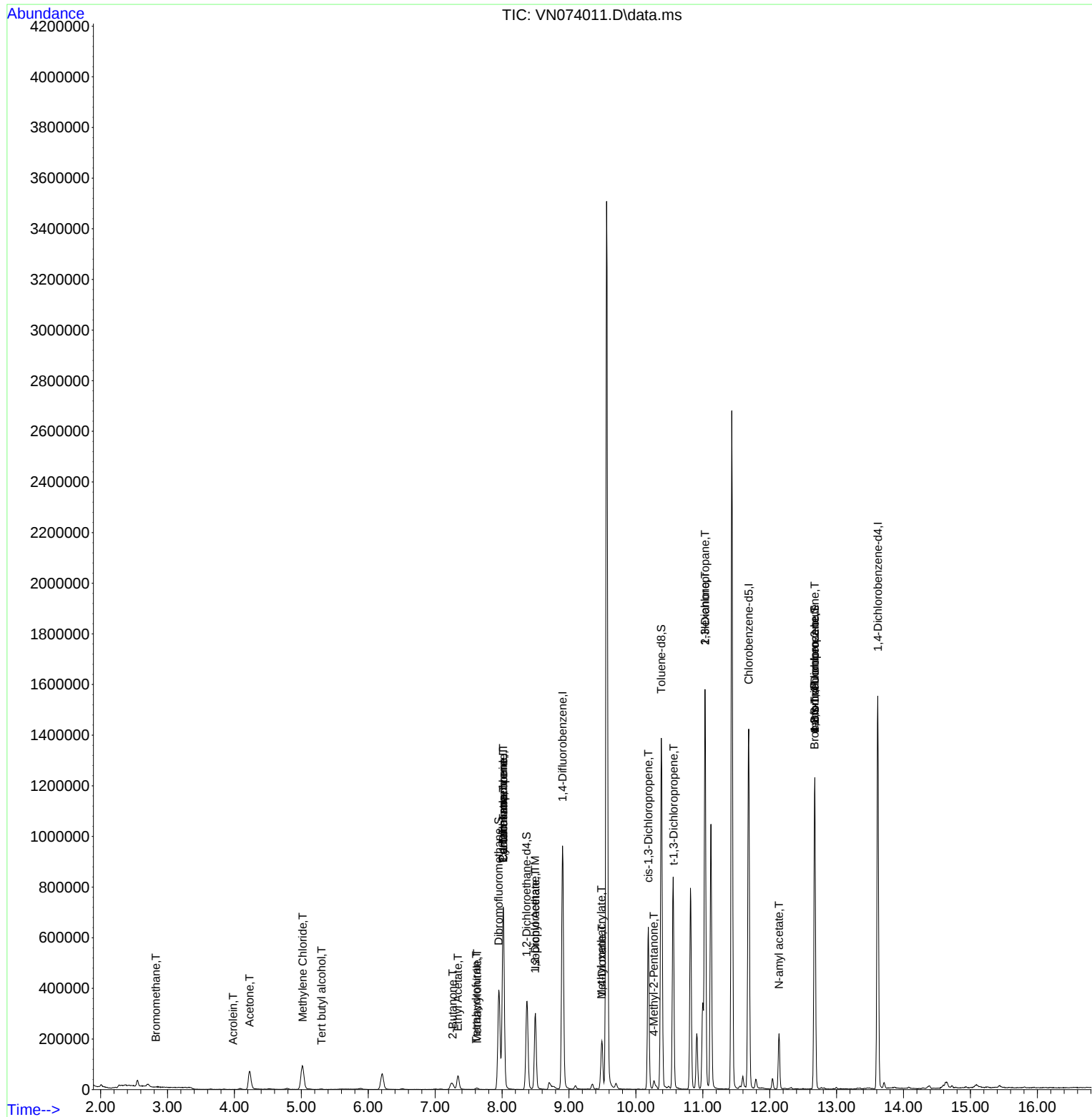
Internal Standards						
1) Pentafluorobenzene	8.016	168	613521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	908500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	890264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	455562	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	301980	50.535	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.060%			
35) Dibromofluoromethane	7.951	113	290101	53.995	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.980%			
50) Toluene-d8	10.380	98	983769	47.278	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.560%			
62) 4-Bromofluorobenzene	12.674	95	408230	59.113	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 118.220%			
Target Compounds					Qvalue	
5) Bromomethane	2.828	94	956	0.220	ug/l	86
11) Tert butyl alcohol	5.304	59	3440	2.574	ug/l #	77
13) Acrolein	3.981	56	195	0.208	ug/l	90
16) Acetone	4.228	43	134259	47.622	ug/l	97
18) Methyl Acetate	4.787	43	8888	Below Cal	#	89
20) Methylene Chloride	5.022	84	82981	13.949	ug/l	96
25) 2-Butanone	7.263	43	20445	4.574	ug/l	99
29) Tetrahydrofuran	7.616	42	4449	1.552	ug/l #	84
31) Cyclohexane	8.016	56	9822	1.179	ug/l #	18
36) 1,1-Dichloropropene	8.016	75	39785	5.331	ug/l #	49
37) Ethyl Acetate	7.339	43	78031	8.631	ug/l	96
38) Carbon Tetrachloride	8.016	117	53429	6.264	ug/l #	16
41) Methacrylonitrile	7.628	41	2404	0.588	ug/l #	37
42) 1,2-Dichloroethane	8.492	62	2048	0.253	ug/l #	74
43) Isopropyl Acetate	8.498	43	327284	25.411	ug/l #	92
48) Methyl methacrylate	9.486	41	11463	2.080	ug/l #	38
49) 1,4-Dioxane	9.492	88	380	2.319	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	30460	3.498	ug/l #	82
53) t-1,3-Dichloropropene	10.563	75	2257	0.262	ug/l #	1
54) cis-1,3-Dichloropropene	10.186	75	125749	13.351	ug/l #	60
57) 1,3-Dichloropropane	11.033	76	18094	1.771	ug/l #	42
59) 2-Hexanone	11.033	43	208050	31.045	ug/l #	49
71) Bromoform	12.668	173	2118	0.331	ug/l #	28
74) N-amyl acetate	12.139	43	64607	5.152	ug/l #	49
76) 1,2,3-Trichloropropane	12.674	75	200772	21.204	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	200772	60.307	ug/l #	10

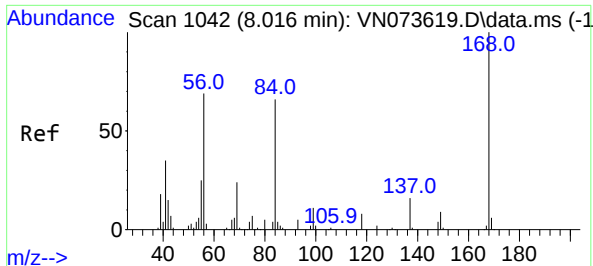
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

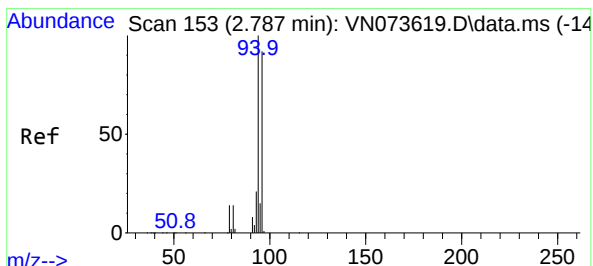
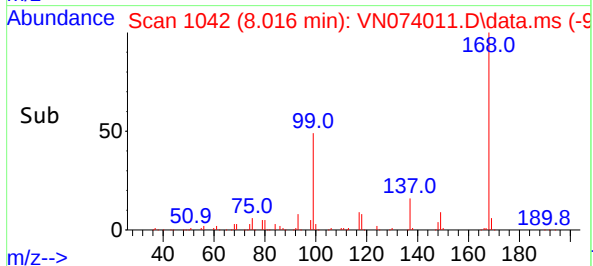
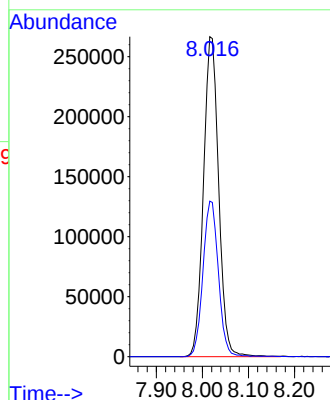
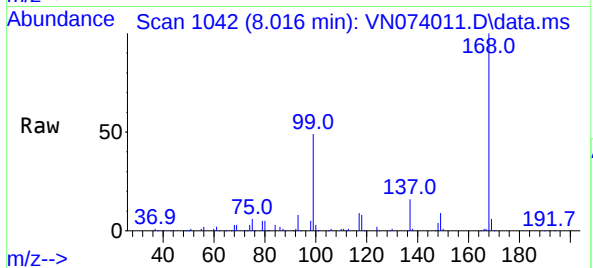




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

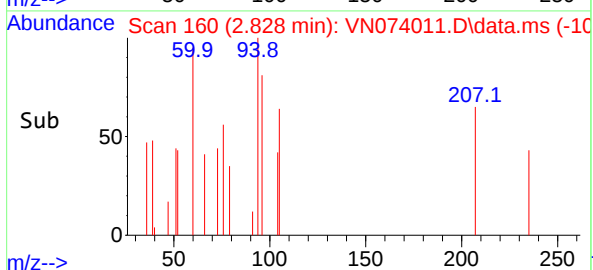
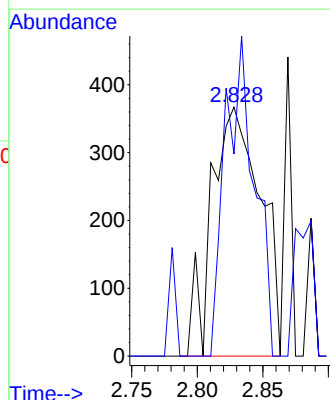
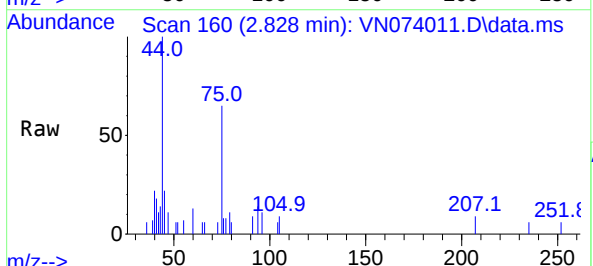
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

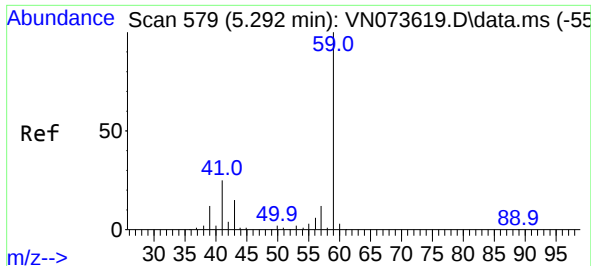
Tgt Ion:168 Resp: 613521
Ion Ratio Lower Upper
168 100
99 48.6 42.3 63.5



#5
Bromomethane
Concen: 0.220 ug/l
RT: 2.828 min Scan# 160
Delta R.T. 0.041 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 94 Resp: 956
Ion Ratio Lower Upper
94 100
96 81.2 76.0 114.0





#11

Tert butyl alcohol

Concen: 2.574 ug/l

RT: 5.304 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN074011.D

Acq: 18 Aug 2022 17:51

Instrument :

MSVOA_N

ClientSampleId :

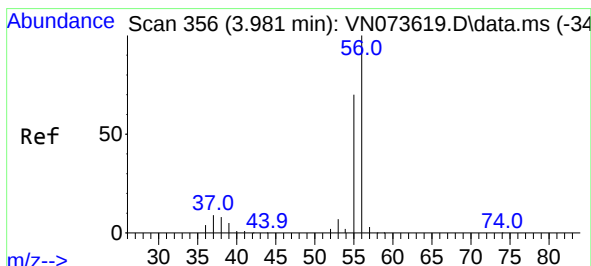
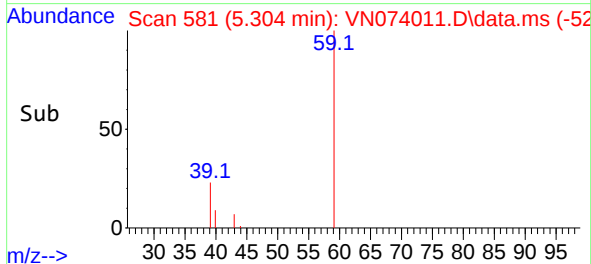
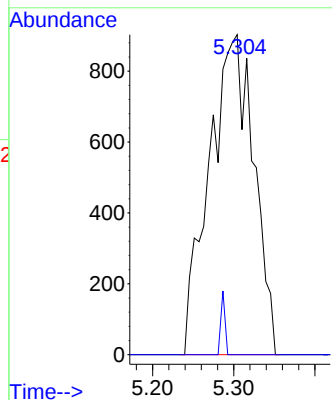
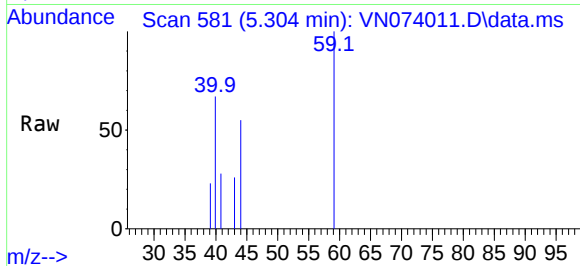
TP1-0816

Tgt Ion: 59 Resp: 3440

Ion Ratio Lower Upper

59 100

57 1.9 8.3 12.5#



#13

Acrolein

Concen: 0.208 ug/l

RT: 3.981 min Scan# 356

Delta R.T. -0.000 min

Lab File: VN074011.D

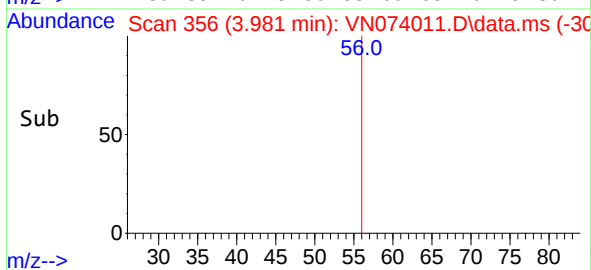
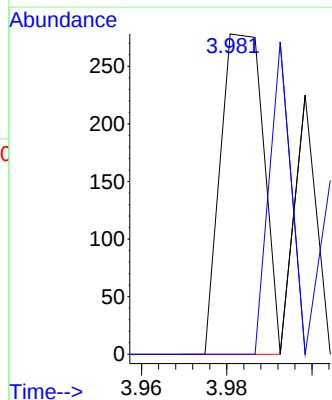
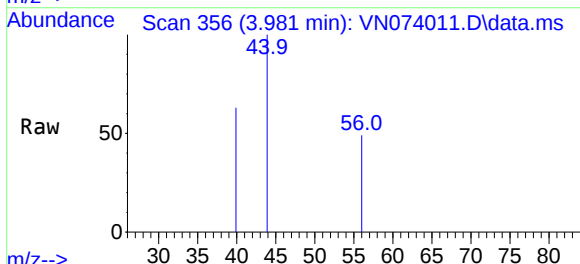
Acq: 18 Aug 2022 17:51

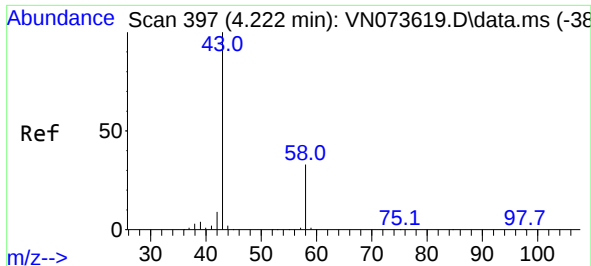
Tgt Ion: 56 Resp: 195

Ion Ratio Lower Upper

56 100

55 76.4 54.8 82.2

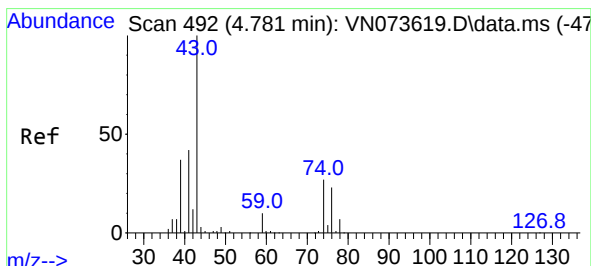
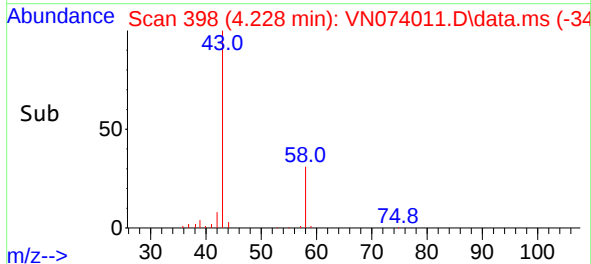
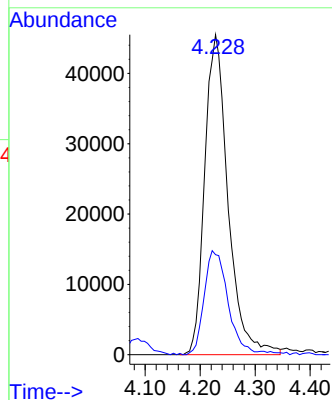
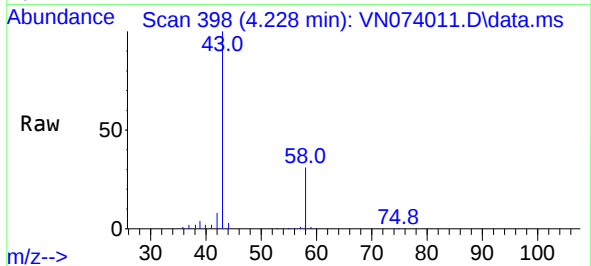




#16
Acetone
Concen: 47.622 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

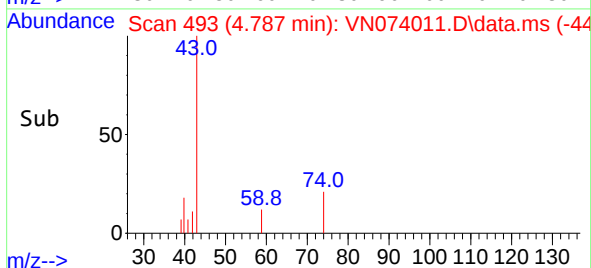
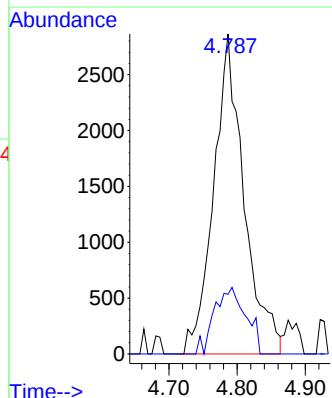
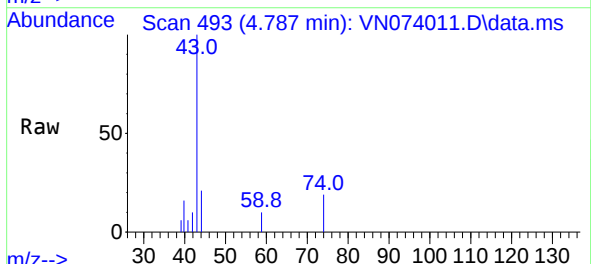
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

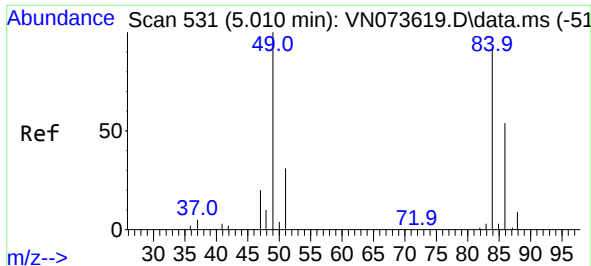
Tgt Ion: 43 Resp: 134259
Ion Ratio Lower Upper
43 100
58 30.9 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.006 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 43 Resp: 8888
Ion Ratio Lower Upper
43 100
74 21.5 21.6 32.4#



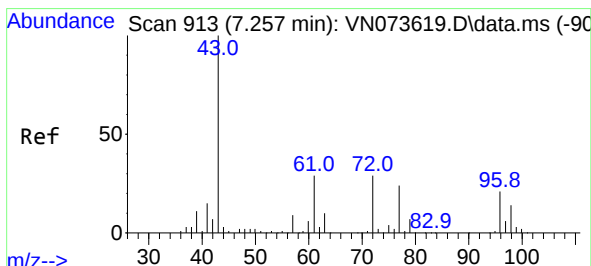
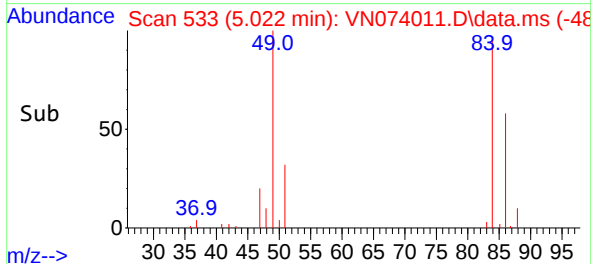
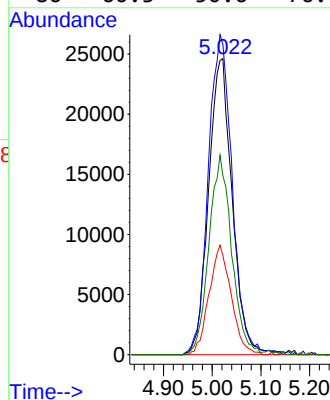
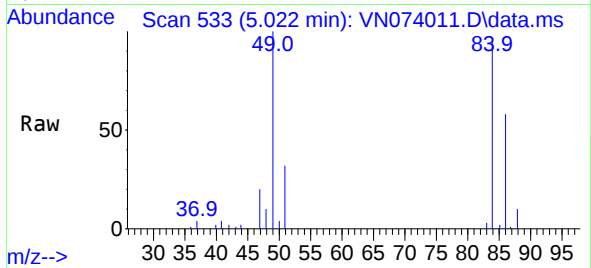


#20
Methylene Chloride
Concen: 13.949 ug/l
RT: 5.022 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

Tgt Ion: 84 Resp: 82981

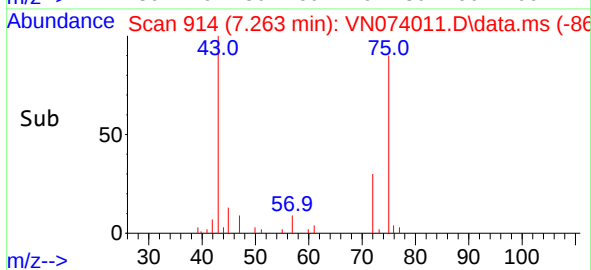
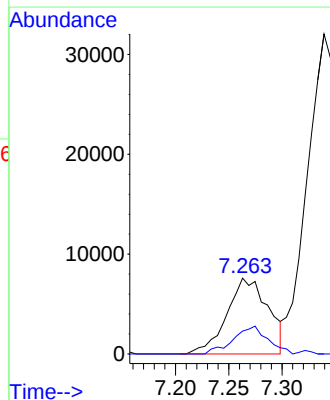
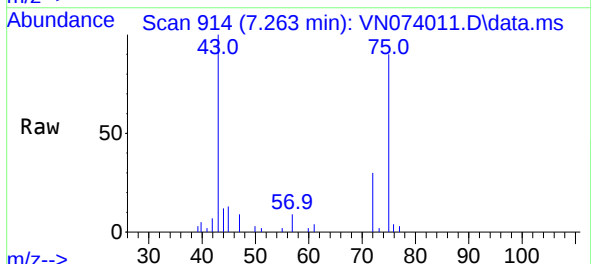
Ion	Ratio	Lower	Upper
84	100		
49	104.8	88.3	132.5
51	33.4	28.2	42.2
86	60.3	50.6	76.0

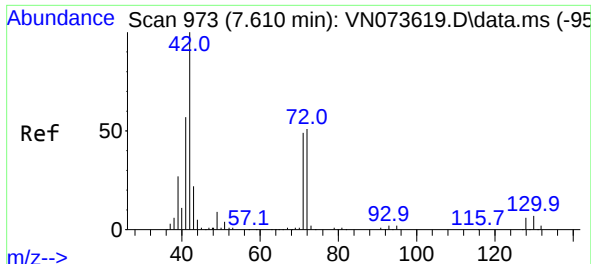


#25
2-Butanone
Concen: 4.574 ug/l
RT: 7.263 min Scan# 914
Delta R.T. 0.006 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 43 Resp: 20445

Ion	Ratio	Lower	Upper
43	100		
72	30.1	23.7	35.5





#29

Tetrahydrofuran

Concen: 1.552 ug/l

RT: 7.616 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN074011.D

Acq: 18 Aug 2022 17:51

Instrument :

MSVOA_N

ClientSampleId :

TP1-0816

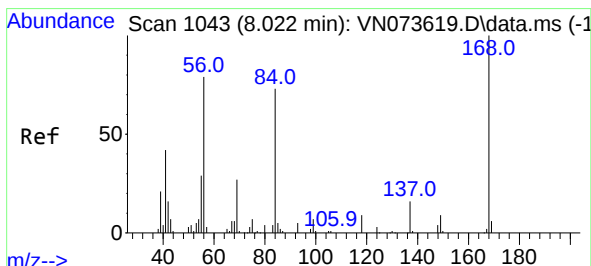
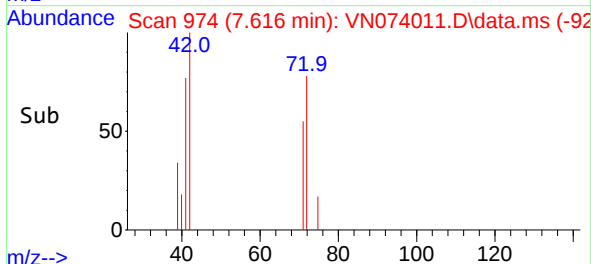
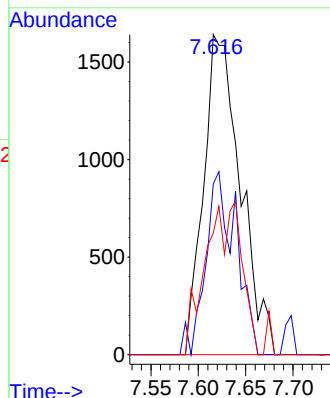
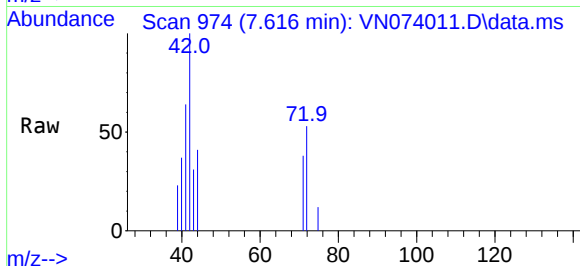
Tgt Ion: 42 Resp: 4449

Ion Ratio Lower Upper

42 100

72 47.0 39.7 59.5

71 26.9 36.6 55.0#



#31

Cyclohexane

Concen: 1.179 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.006 min

Lab File: VN074011.D

Acq: 18 Aug 2022 17:51

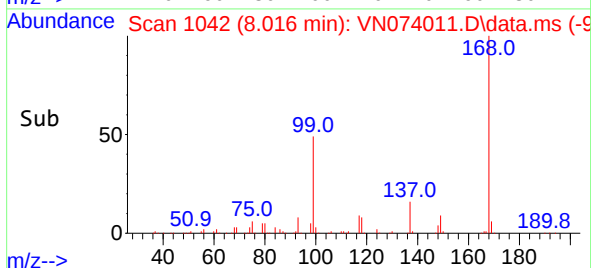
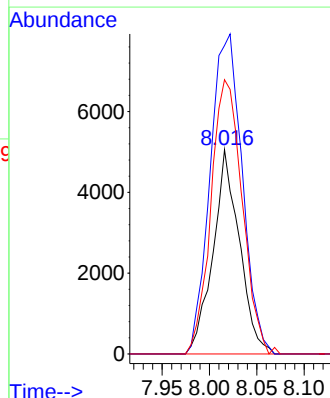
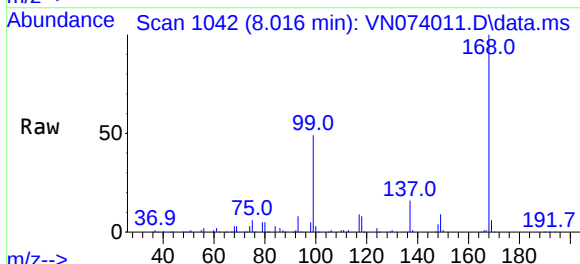
Tgt Ion: 56 Resp: 9822

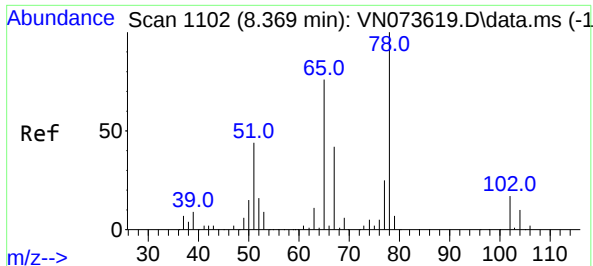
Ion Ratio Lower Upper

56 100

69 151.0 27.8 41.8#

84 134.2 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 50.535 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074011.D

Acq: 18 Aug 2022 17:51

Instrument :

MSVOA_N

ClientSampleId :

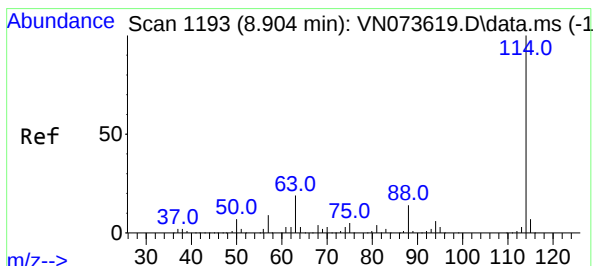
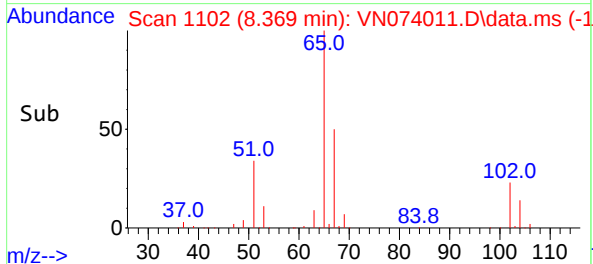
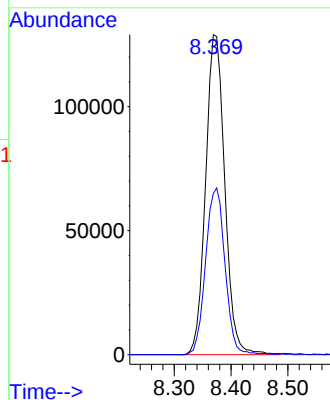
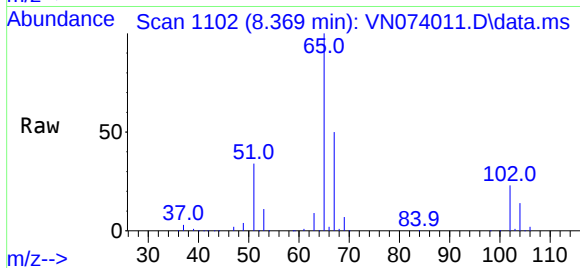
TP1-0816

Tgt Ion: 65 Resp: 301980

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074011.D

Acq: 18 Aug 2022 17:51

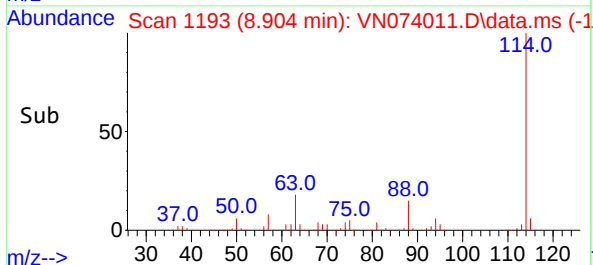
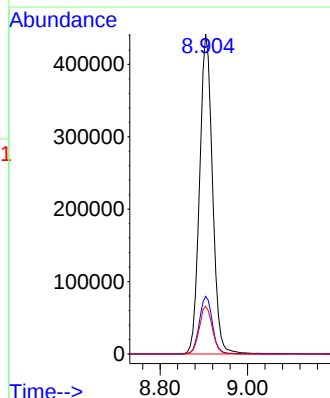
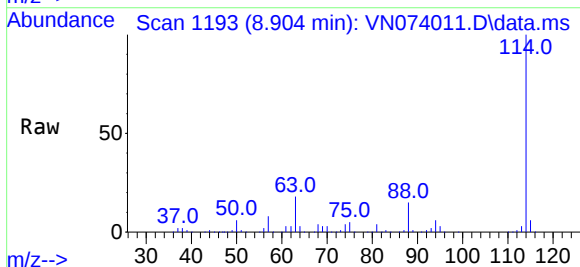
Tgt Ion: 114 Resp: 908500

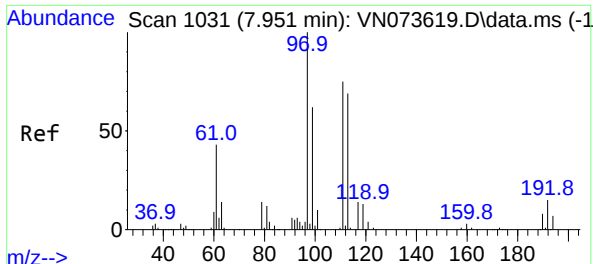
Ion Ratio Lower Upper

114 100

63 18.0 0.0 40.0

88 14.9 0.0 32.6

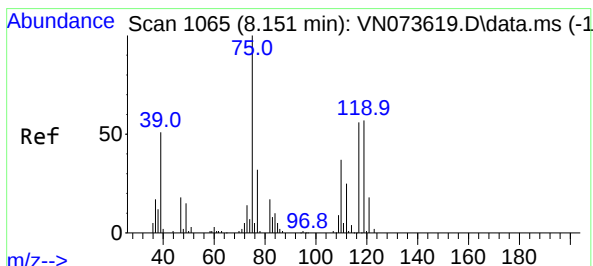
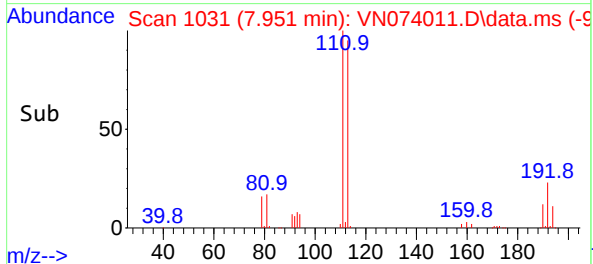
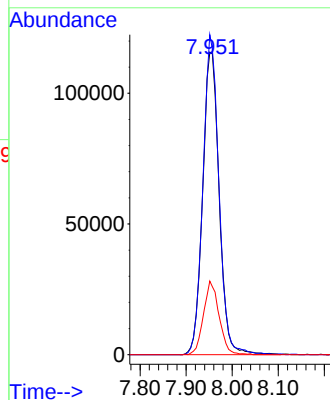
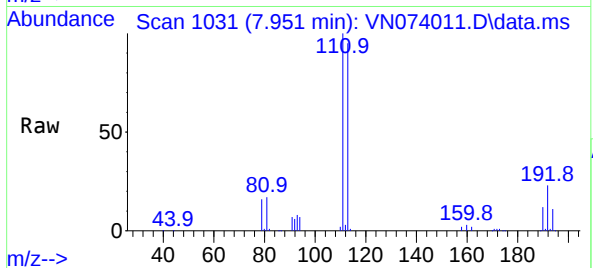




#35
Dibromofluoromethane
Concen: 53.995 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

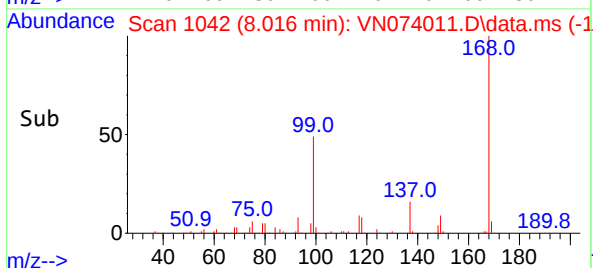
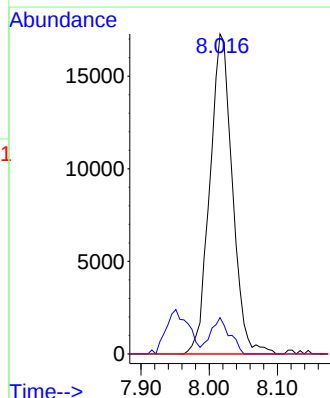
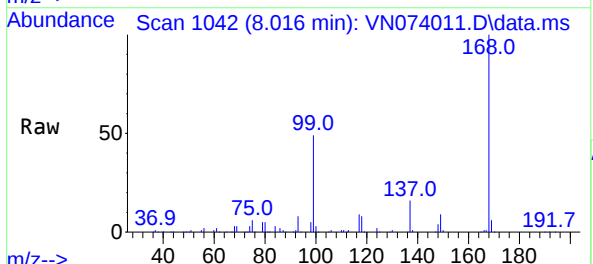
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

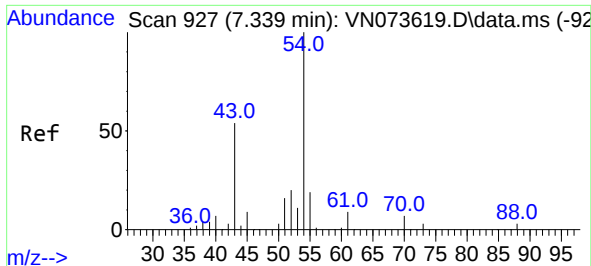
Tgt Ion:113 Resp: 290101
Ion Ratio Lower Upper
113 100
111 102.0 81.4 122.0
192 22.9 17.0 25.6



#36
1,1-Dichloropropene
Concen: 5.331 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 75 Resp: 39785
Ion Ratio Lower Upper
75 100
110 9.7 18.3 54.8#
77 0.0 25.1 37.7#

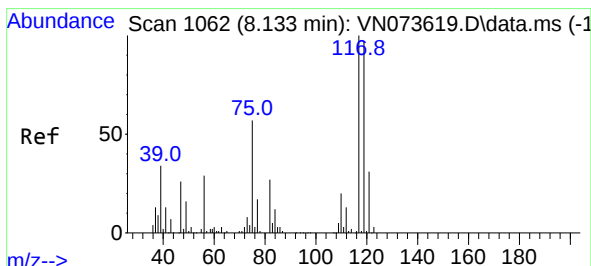
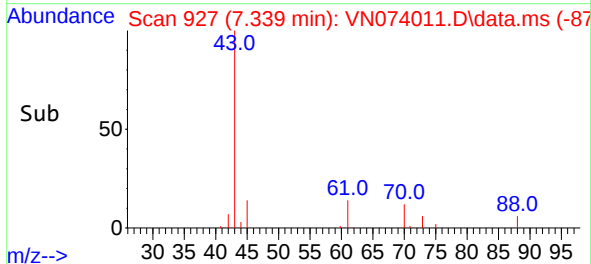
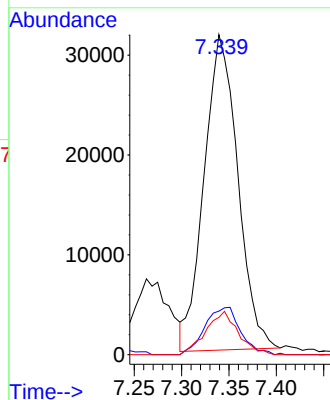
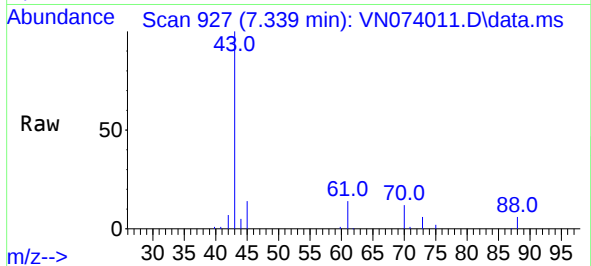




#37
Ethyl Acetate
Concen: 8.631 ug/l
RT: 7.339 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

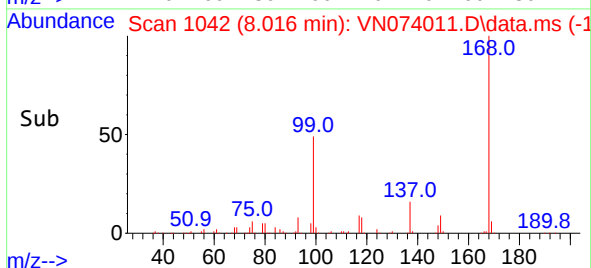
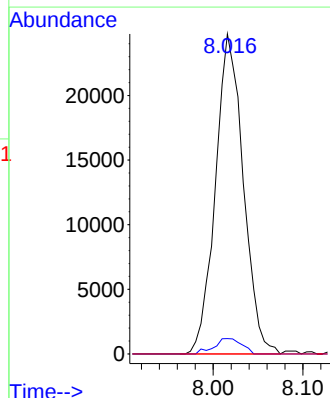
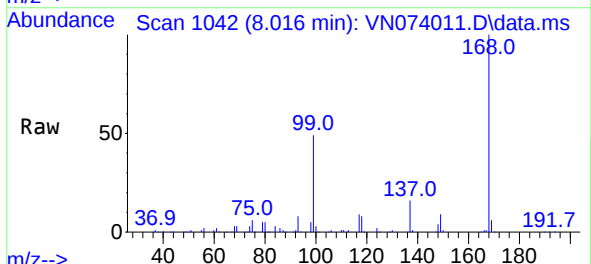
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

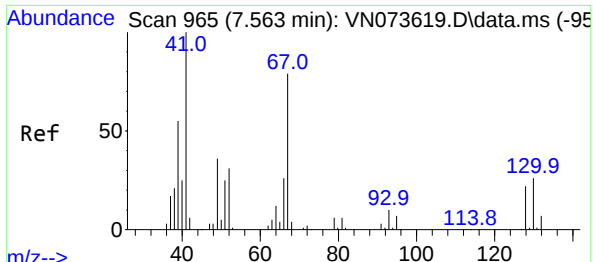
Tgt Ion: 43 Resp: 78031
Ion Ratio Lower Upper
43 100
61 15.9 11.8 17.6
70 13.2 9.3 13.9



#38
Carbon Tetrachloride
Concen: 6.264 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 117 Resp: 53429
Ion Ratio Lower Upper
117 100
119 4.8 75.8 113.8#
121 0.0 24.6 37.0#

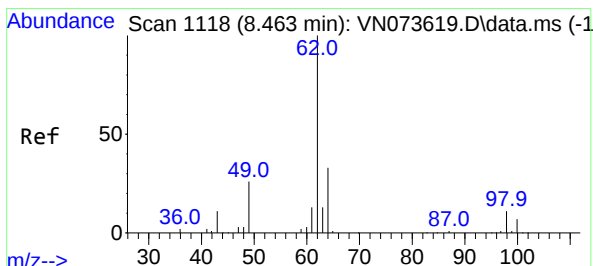
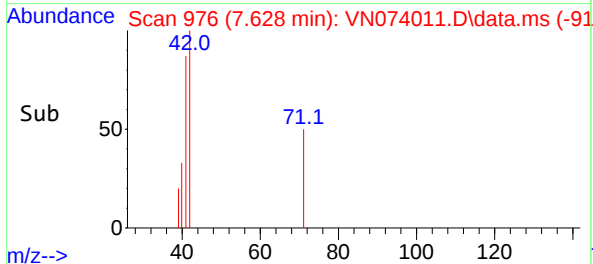
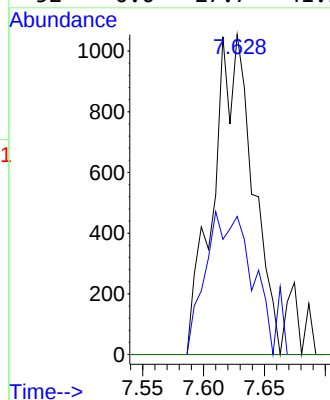
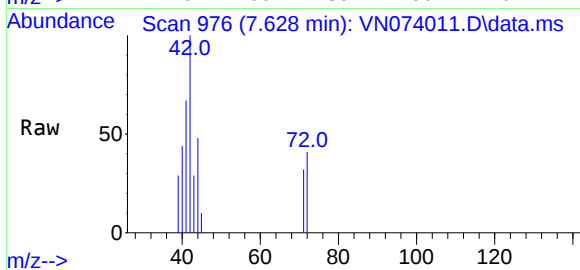




#41
Methacrylonitrile
Concen: 0.588 ug/l
RT: 7.628 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

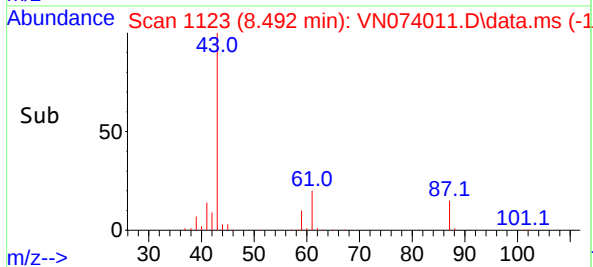
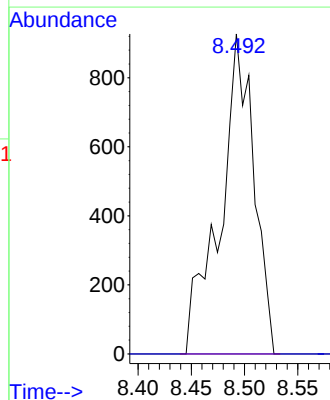
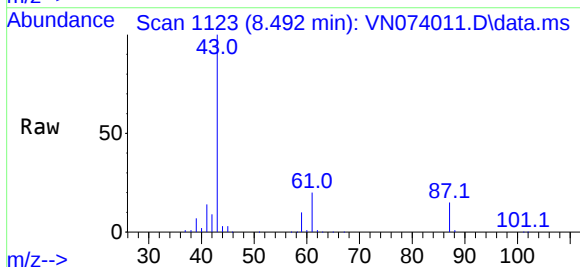
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

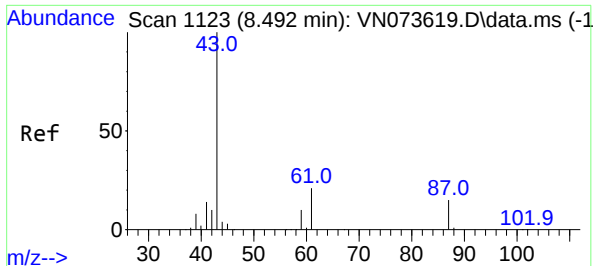
Tgt Ion: 41	Resp: 2404
Ion Ratio	Lower Upper
41 100	
39 50.7	48.6 73.0
67 0.0	73.4 110.2#
52 0.0	27.7 41.5#



#42
1,2-Dichloroethane
Concen: 0.253 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. 0.029 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 62	Resp: 2048
Ion Ratio	Lower Upper
62 100	
98 0.0	0.0 19.4

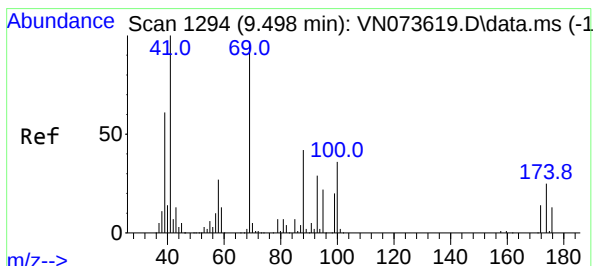
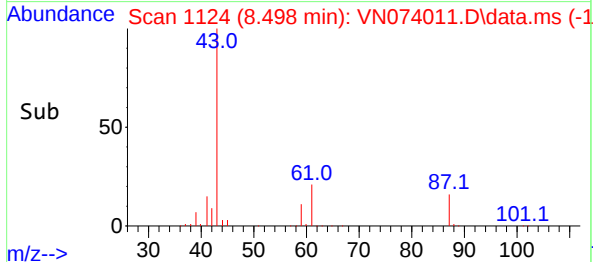
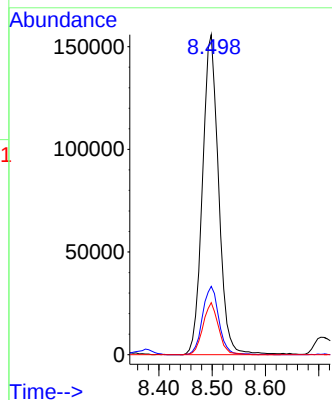
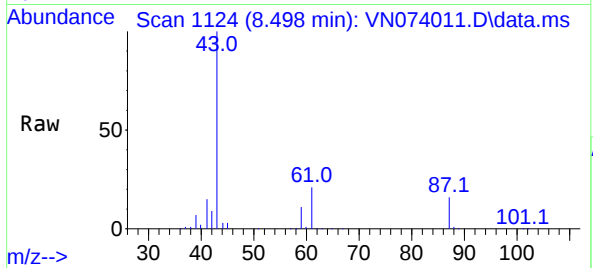




#43
Isopropyl Acetate
Concen: 25.411 ug/l
RT: 8.498 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

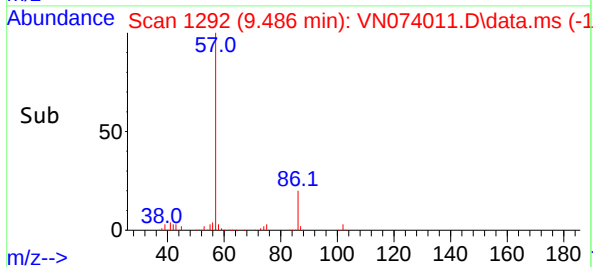
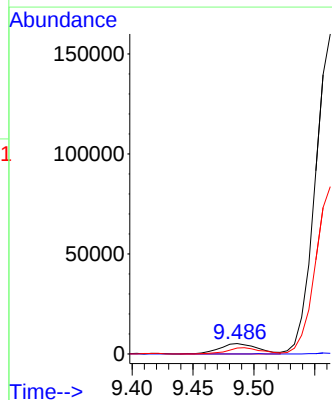
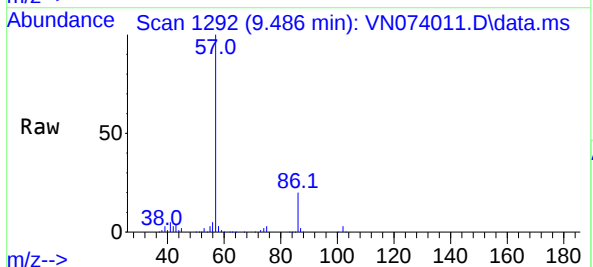
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

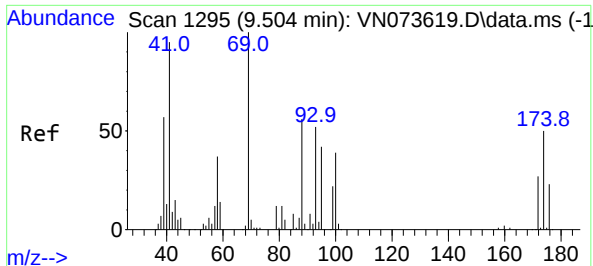
Tgt Ion: 43 Resp: 327284
Ion Ratio Lower Upper
43 100
61 21.6 21.9 32.9#
87 15.7 12.0 18.0



#48
Methyl methacrylate
Concen: 2.080 ug/l
RT: 9.486 min Scan# 1292
Delta R.T. -0.012 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 41 Resp: 11463
Ion Ratio Lower Upper
41 100
69 0.5 74.7 112.1#
39 52.9 45.6 68.4

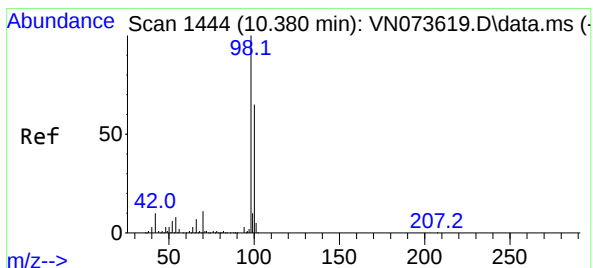
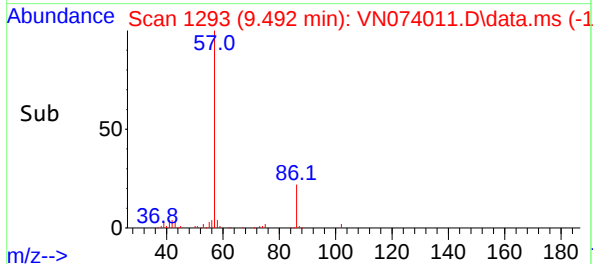
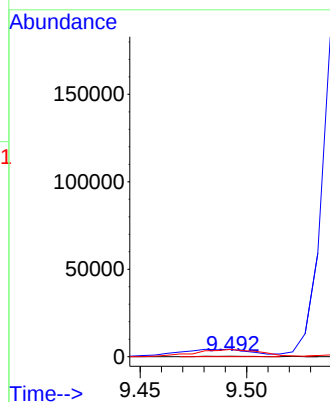
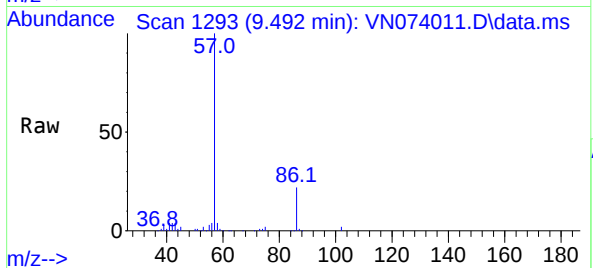




#49
1,4-Dioxane
Concen: 2.319 ug/l
RT: 9.492 min Scan# 1295
Delta R.T. -0.012 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

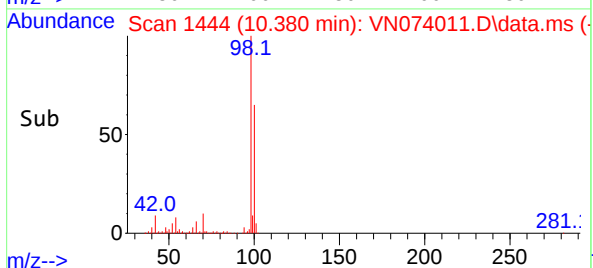
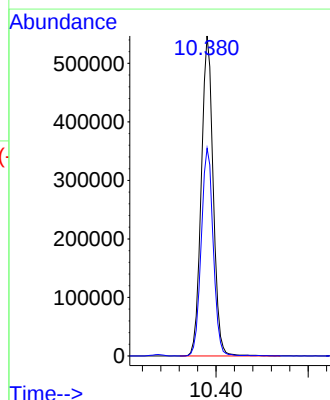
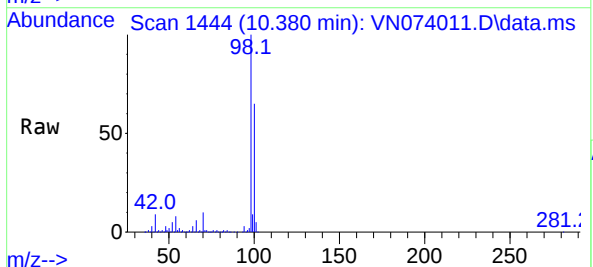
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

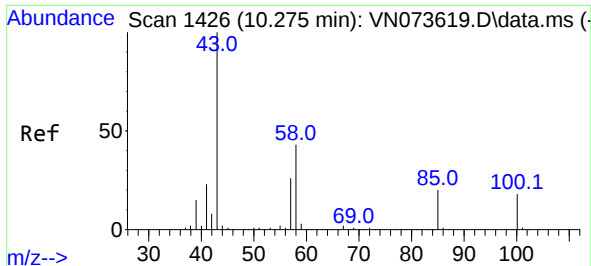
Tgt Ion: 88 Resp: 380
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 2360.3 54.2 81.4#



#50
Toluene-d8
Concen: 47.278 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 98 Resp: 983769
Ion Ratio Lower Upper
98 100
100 65.6 52.6 78.8

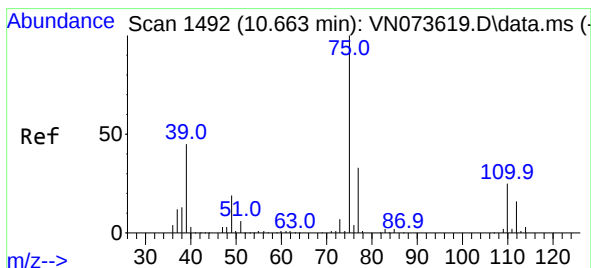
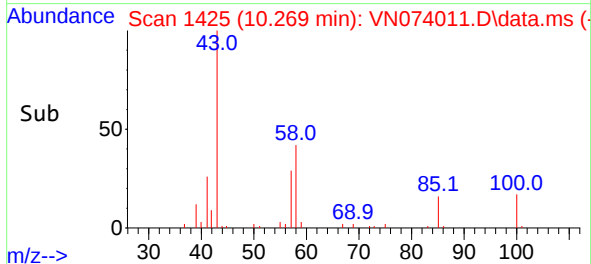
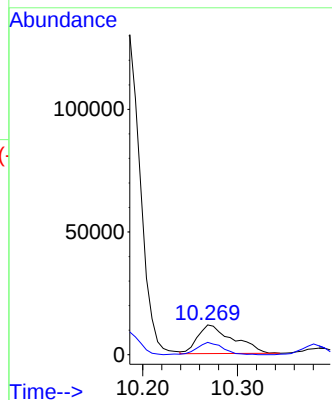
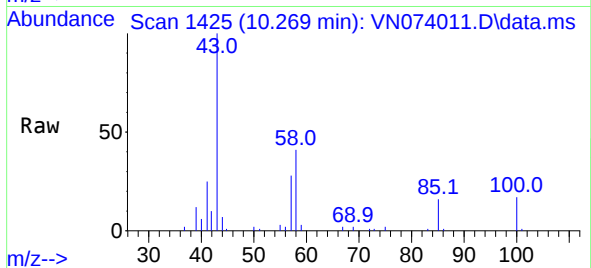




#51
4-Methyl-2-Pentanone
Concen: 3.498 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

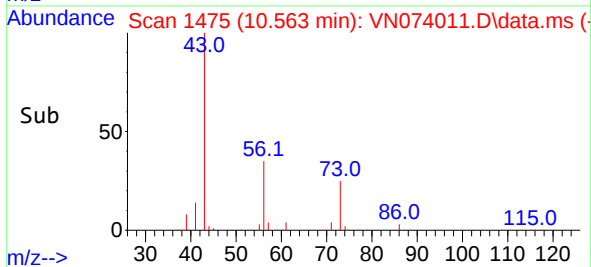
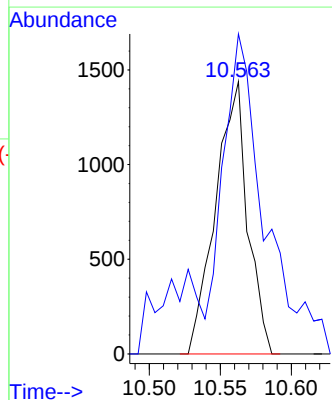
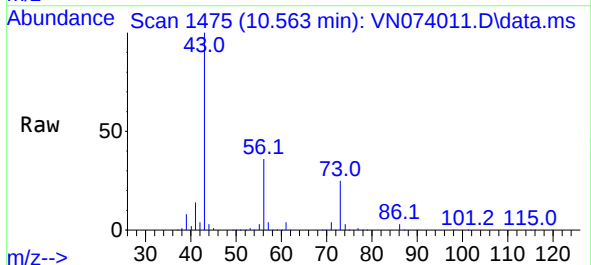
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

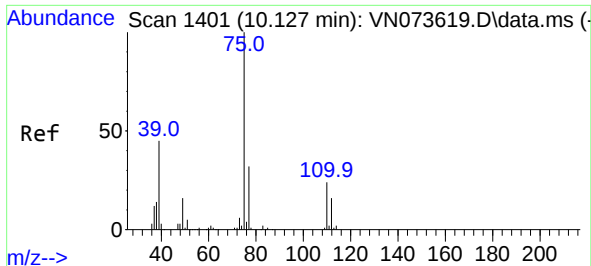
Tgt Ion: 43 Resp: 30460
Ion Ratio Lower Upper
43 100
58 31.0 34.1 51.1#



#53
t-1,3-Dichloropropene
Concen: 0.262 ug/l
RT: 10.563 min Scan# 1475
Delta R.T. -0.100 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 75 Resp: 2257
Ion Ratio Lower Upper
75 100
77 98.3 25.6 38.4#

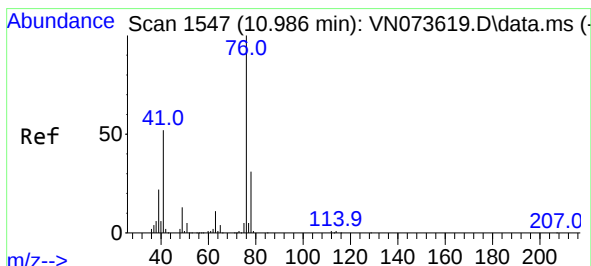
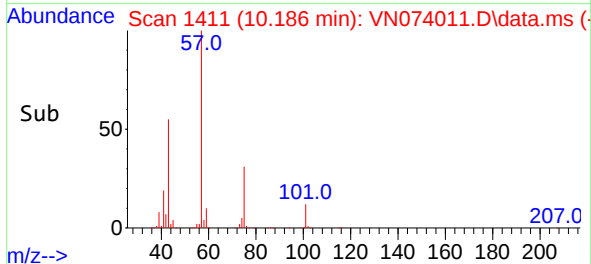
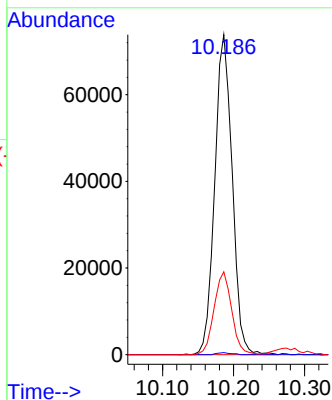
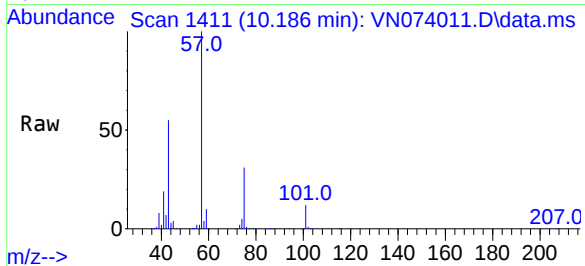




#54
 cis-1,3-Dichloropropene
 Concen: 13.351 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN074011.D
 Acq: 18 Aug 2022 17:51

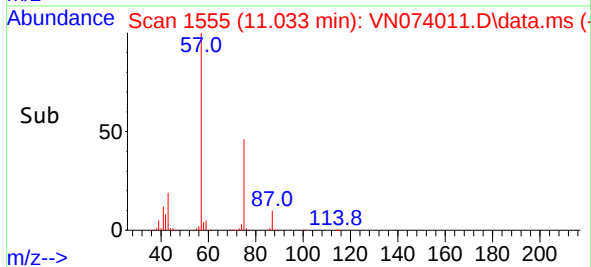
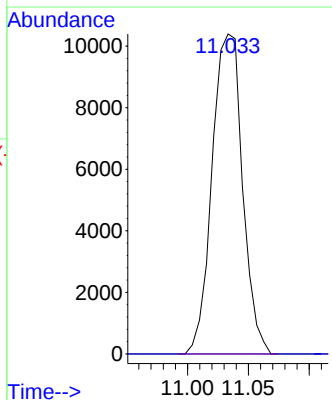
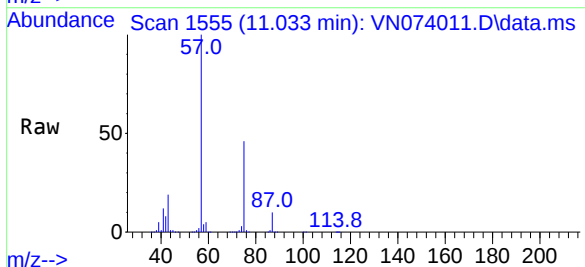
Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-0816

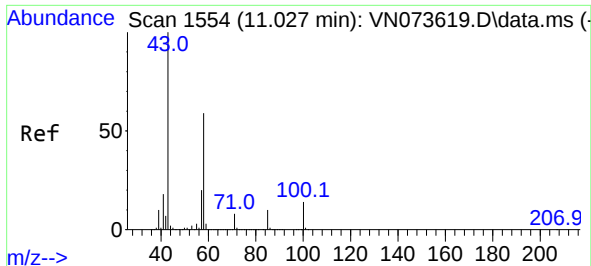
Tgt Ion: 75 Resp: 125749
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 25.9 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 1.771 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN074011.D
 Acq: 18 Aug 2022 17:51

Tgt Ion: 76 Resp: 18094
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

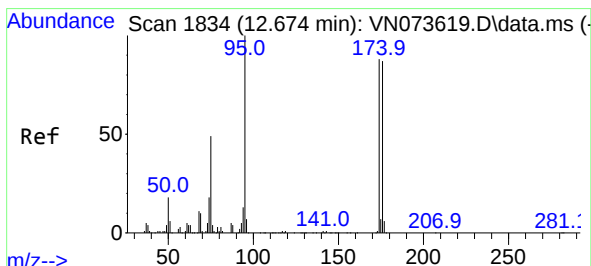
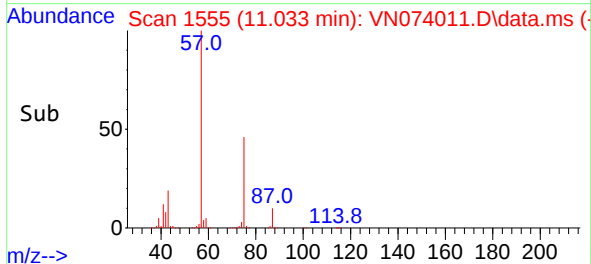
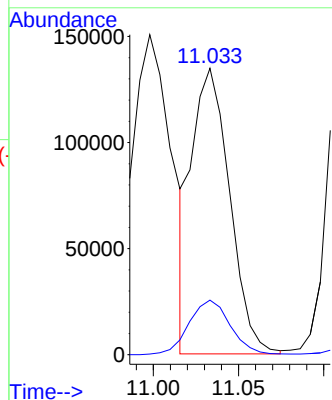
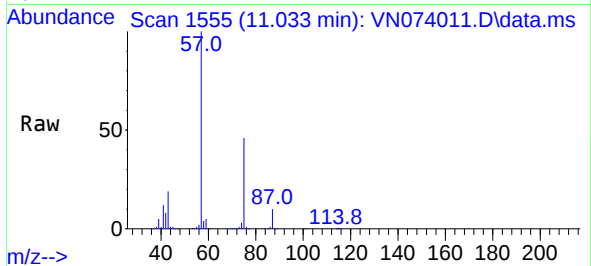




#59
2-Hexanone
Concen: 31.045 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

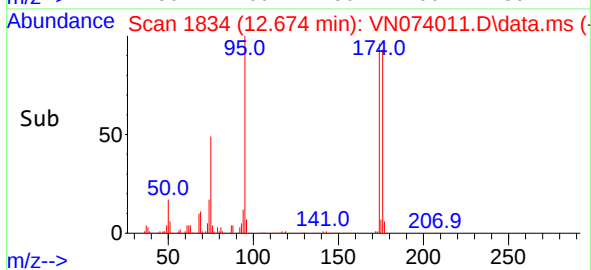
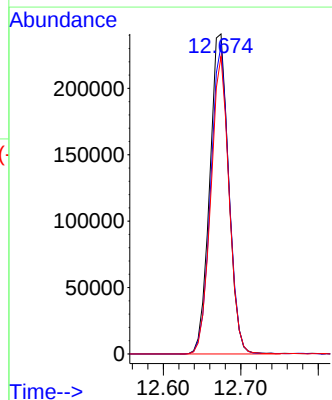
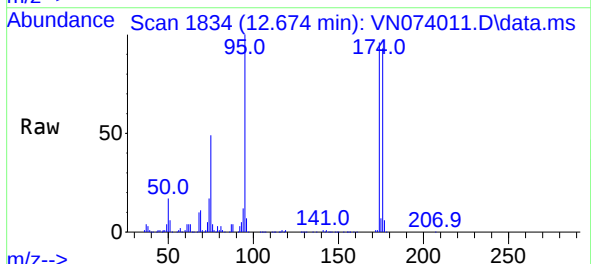
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

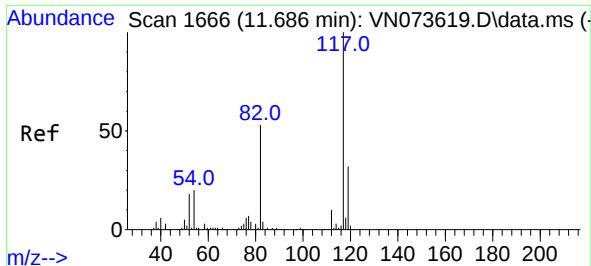
Tgt Ion: 43 Resp: 208050
Ion Ratio Lower Upper
43 100
58 21.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 59.113 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 95 Resp: 408230
Ion Ratio Lower Upper
95 100
174 93.1 0.0 167.6
176 89.3 0.0 163.4

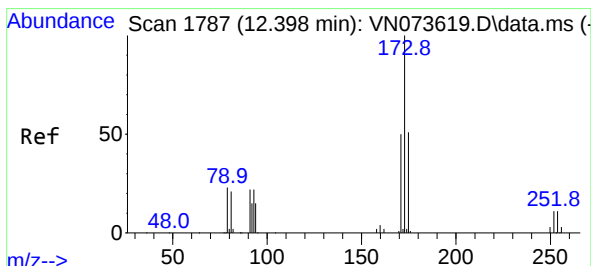
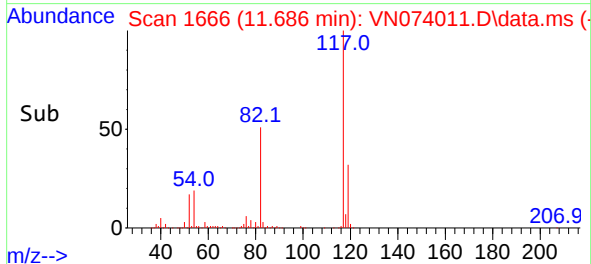
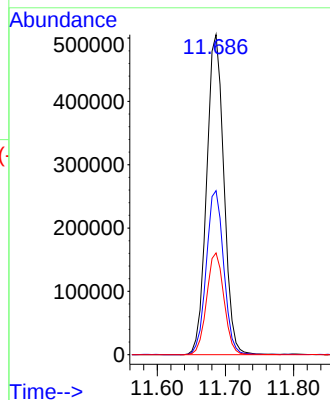
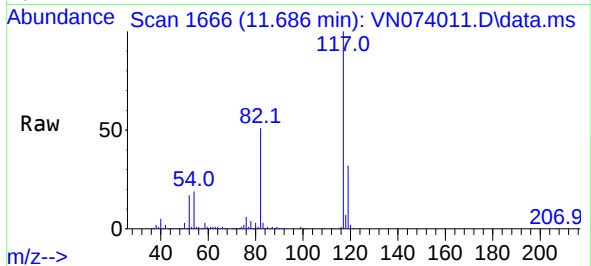




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

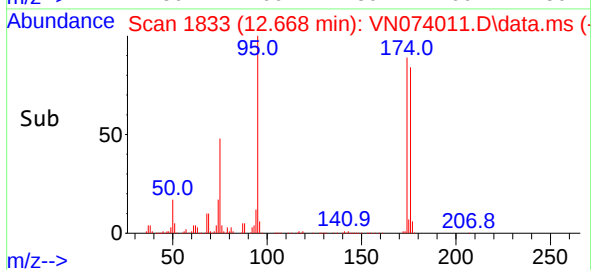
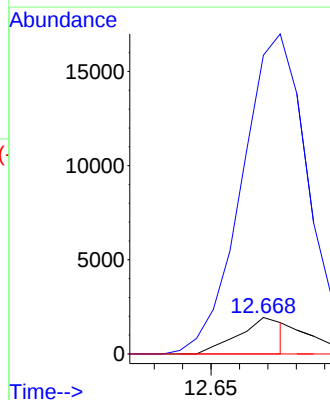
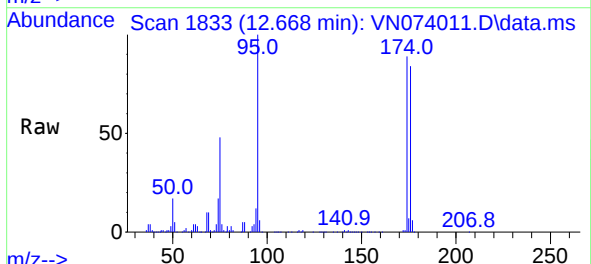
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

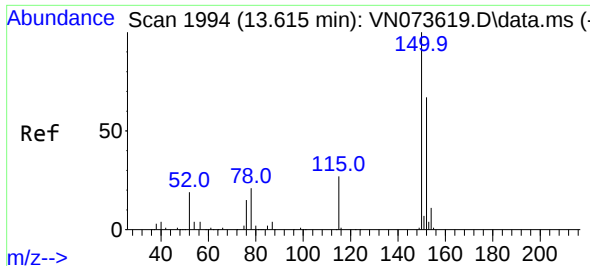
Tgt Ion:117 Resp: 890264
Ion Ratio Lower Upper
117 100
82 51.2 44.2 66.2
119 31.8 25.4 38.0



#71
Bromoform
Concen: 0.331 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.270 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion:173 Resp: 2118
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#

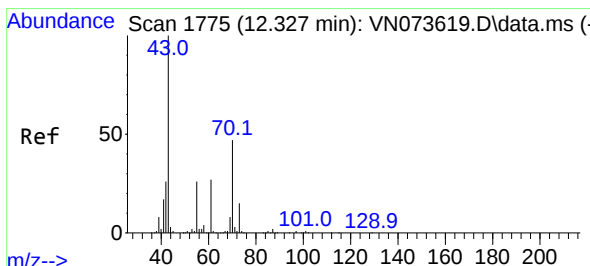
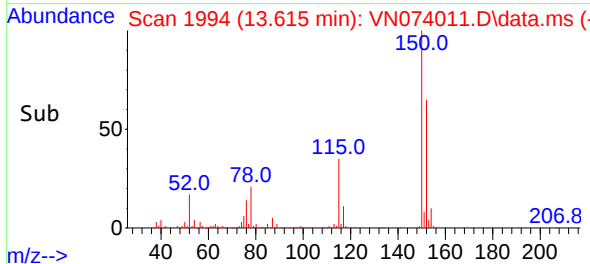
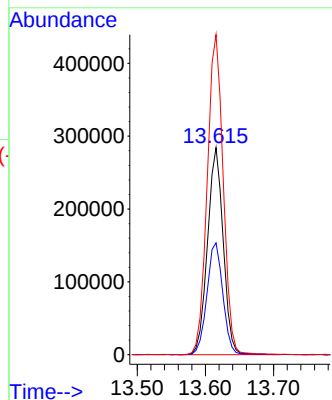
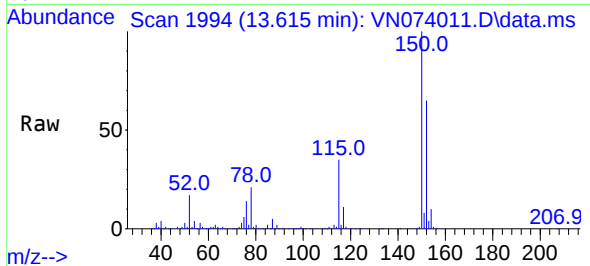




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

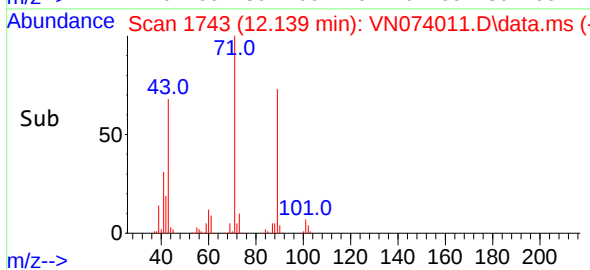
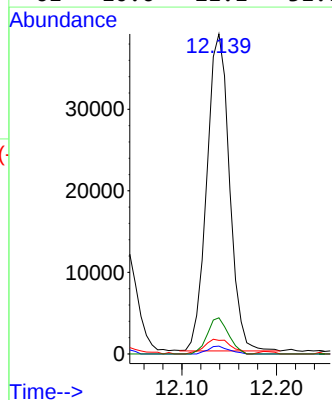
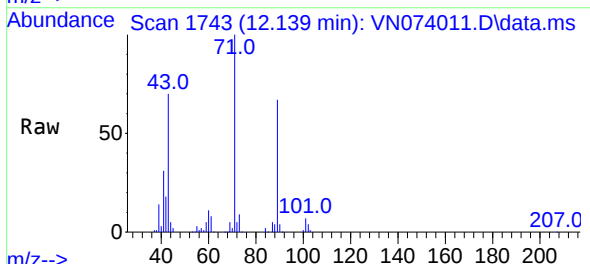
Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

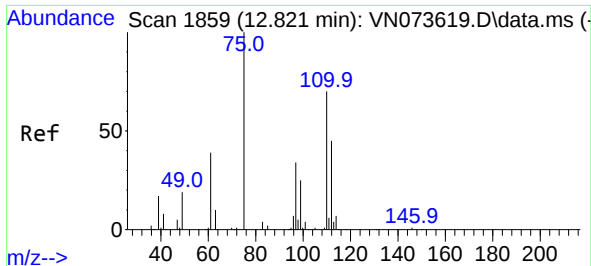
Tgt Ion:152 Resp: 455562
Ion Ratio Lower Upper
152 100
115 55.0 28.9 86.7
150 157.1 0.0 356.2



#74
N-ethyl acetate
Concen: 5.152 ug/l
RT: 12.139 min Scan# 1743
Delta R.T. -0.188 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 43 Resp: 64607
Ion Ratio Lower Upper
43 100
70 2.3 39.0 58.4#
55 5.4 21.1 31.7#
61 10.6 21.1 31.7#

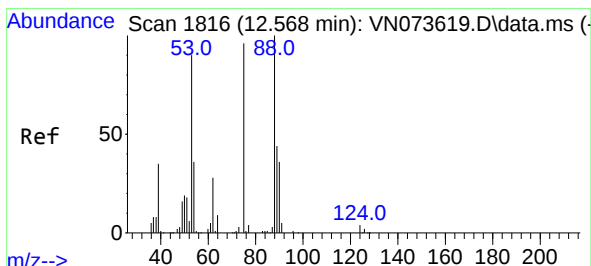
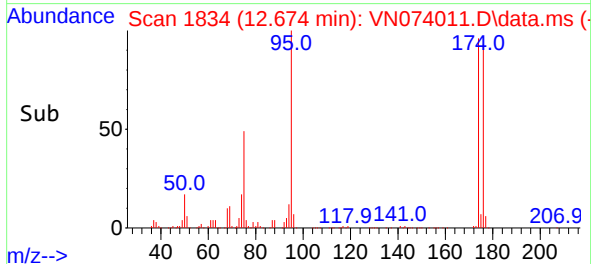
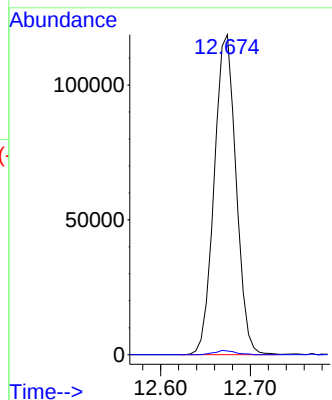
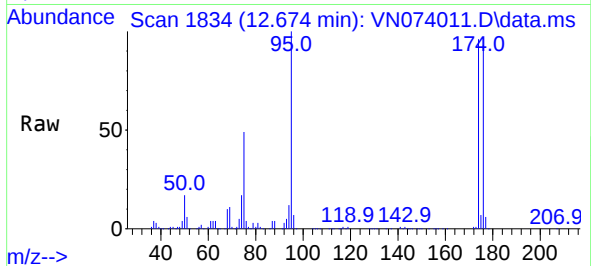




#76
1,2,3-Trichloropropane
Concen: 21.204 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Instrument :
MSVOA_N
ClientSampleId :
TP1-0816

Tgt Ion: 75 Resp: 200772
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.307 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074011.D
Acq: 18 Aug 2022 17:51

Tgt Ion: 75 Resp: 200772
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

