

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052324\
 Data File : VN082319.D
 Acq On : 23 May 2024 14:17
 Operator : JC\MD
 Sample : P2554-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 24 04:18:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 16 05:21:06 2024
 Response via : Initial Calibration

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

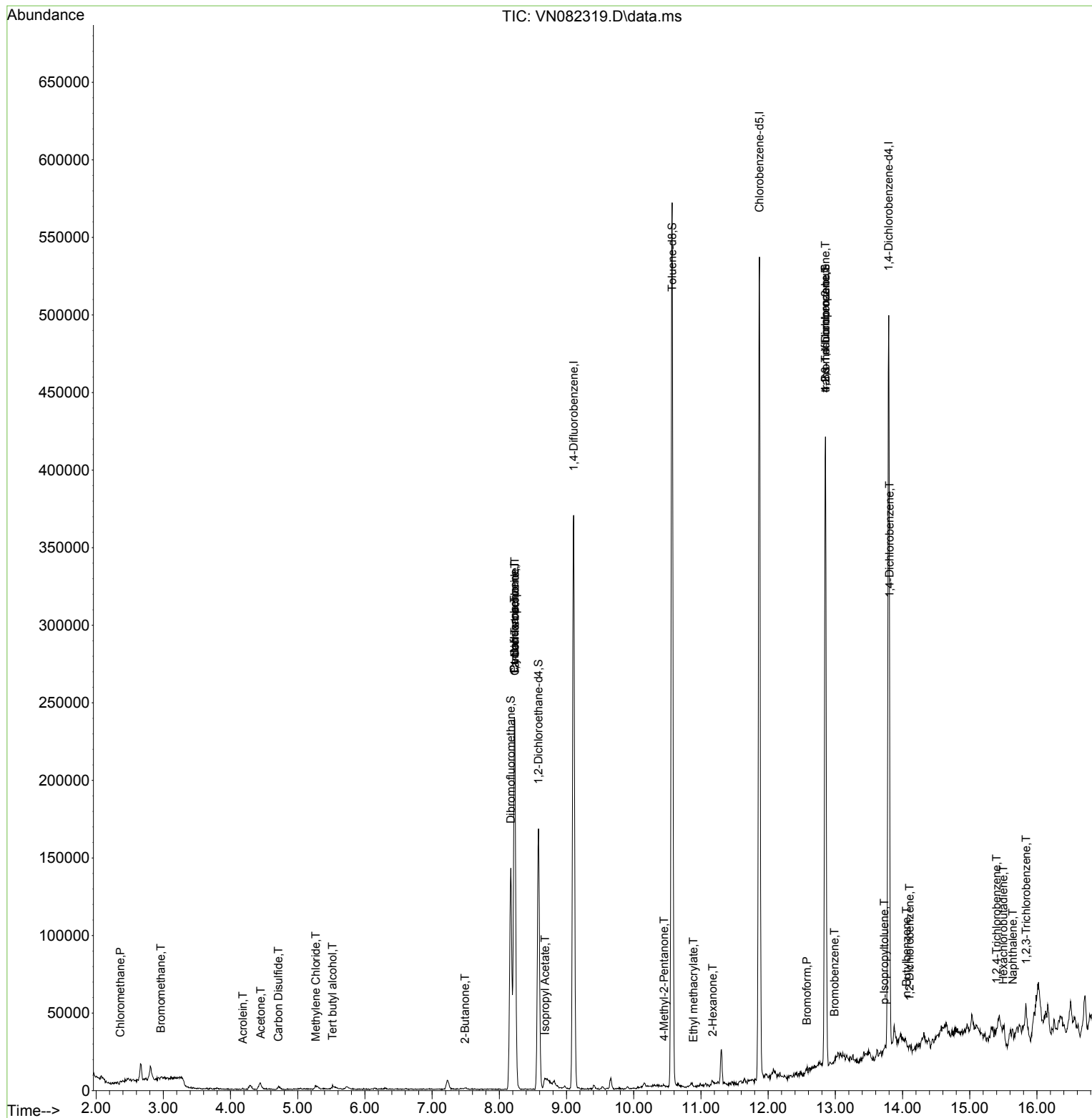
Internal Standards						
1) Pentafluorobenzene	8.224	168	168405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	297506	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	273315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	122779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	136932	51.494	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.980%			
35) Dibromofluoromethane	8.171	113	95997	52.454	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.900%			
50) Toluene-d8	10.571	98	377820	53.847	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.700%			
62) 4-Bromofluorobenzene	12.853	95	132392	52.864	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.720%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	752	0.273	ug/l #	77
5) Bromomethane	2.965	94	574	0.386	ug/l	94
11) Tert butyl alcohol	5.518	59	2644	6.194	ug/l #	78
13) Acrolein	4.183	56	291	0.920	ug/l #	37
16) Acetone	4.448	43	8487	7.780	ug/l #	82
17) Carbon Disulfide	4.712	76	1275	0.215	ug/l #	74
20) Methylene Chloride	5.271	84	1375	0.625	ug/l #	83
25) 2-Butanone	7.489	43	1789	1.082	ug/l #	43
31) Cyclohexane	8.224	56	5460	1.286	ug/l #	53
36) 1,1-Dichloropropene	8.230	75	15800	5.148	ug/l #	49
38) Carbon Tetrachloride	8.230	117	18692	6.007	ug/l #	16
43) Isopropyl Acetate	8.683	43	8327	1.368	ug/l #	52
51) 4-Methyl-2-Pentanone	10.453	43	901	0.261	ug/l #	67
56) Ethyl methacrylate	10.888	69	681	0.201	ug/l #	43
59) 2-Hexanone	11.177	43	4221	1.667	ug/l #	23
71) Bromoform	12.576	173	494	1.009	ug/l #	28
76) 1,2,3-Trichloropropane	12.853	75	78157	30.244	ug/l #	1
77) Bromobenzene	12.988	156	503	0.216	ug/l #	20
81) trans-1,4-Dichloro-2-b...	12.853	75	78157	70.740	ug/l #	12
86) p-Isopropyltoluene	13.729	119	1881	0.242	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	1266	0.295	ug/l #	1
89) n-Butylbenzene	14.059	91	2278	0.326	ug/l	86
91) 1,2-Dichlorobenzene	14.106	146	834	0.209	ug/l #	43
93) 1,2,4-Trichlorobenzene	15.400	180	928	0.415	ug/l #	87
94) Hexachlorobutadiene	15.500	225	428	0.437	ug/l	85
95) Naphthalene	15.641	128	3994	0.570	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.841	180	758	0.339	ug/l #	1

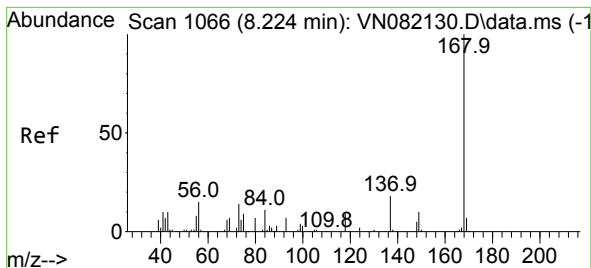
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 16 05:21:06 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

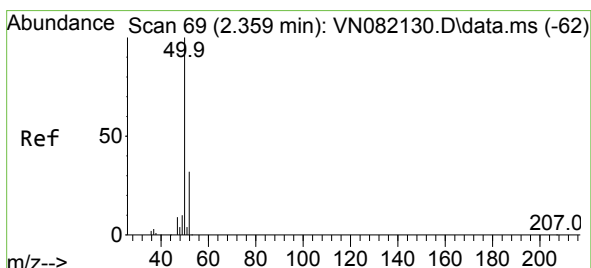
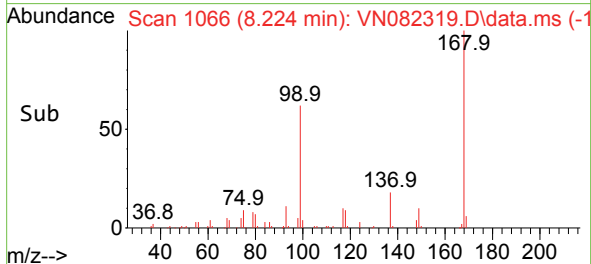
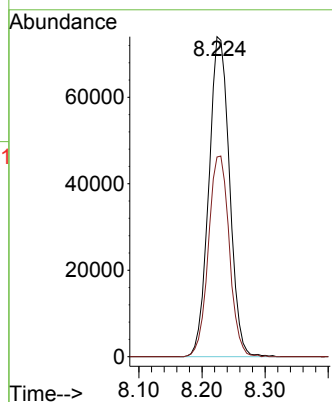
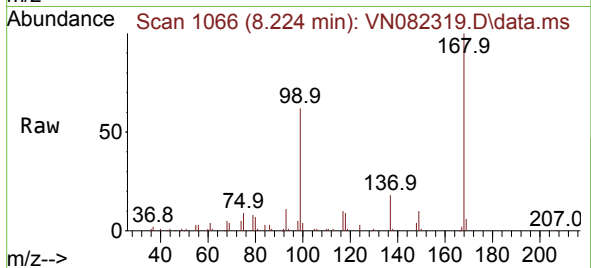
ClientSampleId :

Tgt Ion:168 Resp: 168405

Ion Ratio Lower Upper

168 100

99 62.4 48.2 72.4



#3

Chloromethane

Concen: 0.273 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN082319.D

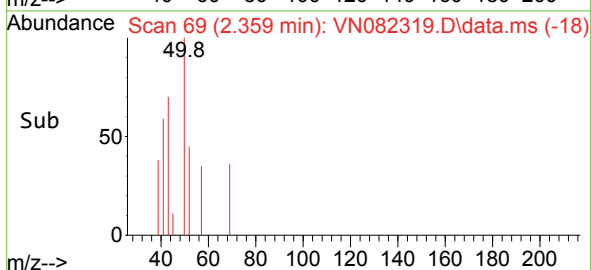
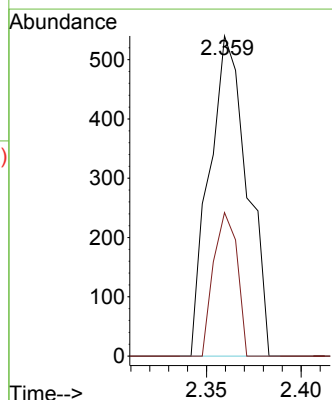
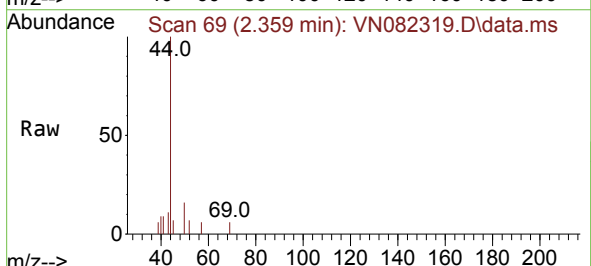
Acq: 23 May 2024 14:17

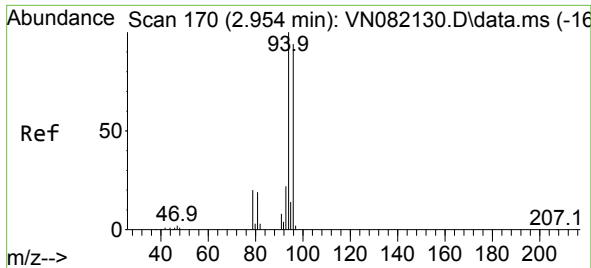
Tgt Ion: 50 Resp: 752

Ion Ratio Lower Upper

50 100

52 44.8 25.5 38.3#

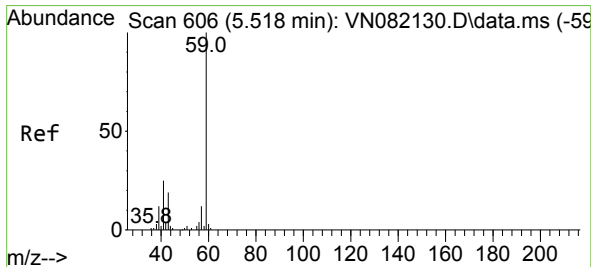
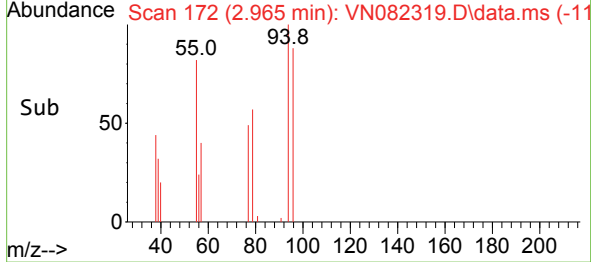
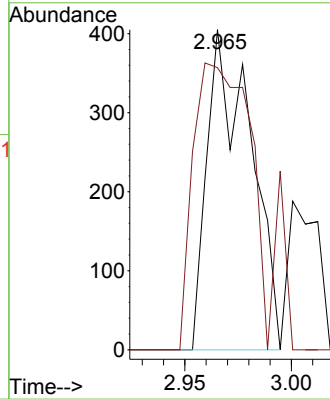
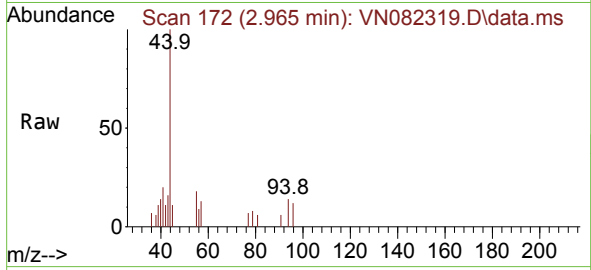




#5
Bromomethane
Concen: 0.386 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

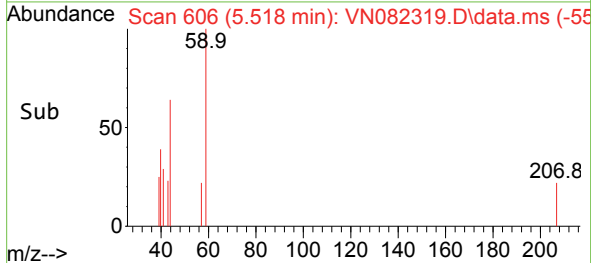
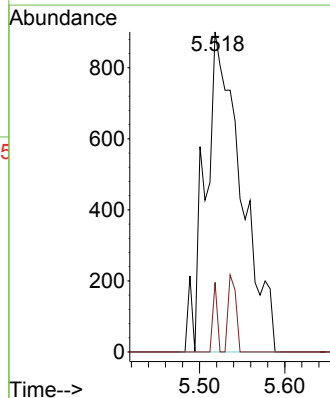
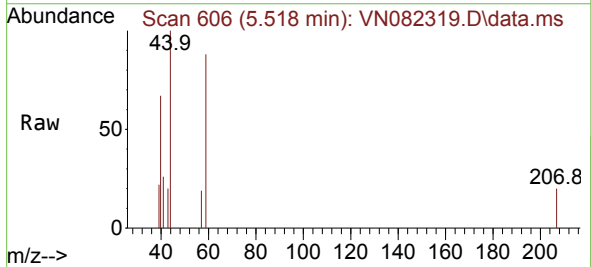
Instrument :
MSVOA_N
ClientSampleId :

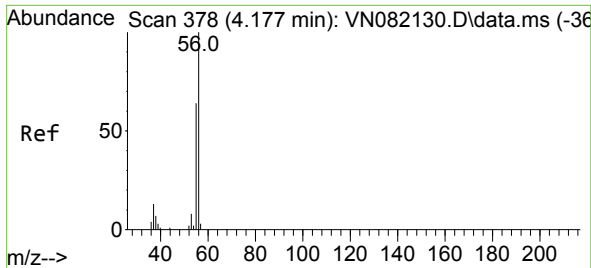
Tgt Ion: 94 Resp: 574
Ion Ratio Lower Upper
94 100
96 88.1 74.8 112.2



#11
Tert butyl alcohol
Concen: 6.194 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion: 59 Resp: 2644
Ion Ratio Lower Upper
59 100
57 2.6 8.9 13.3#





#13

Acrolein

Concen: 0.920 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

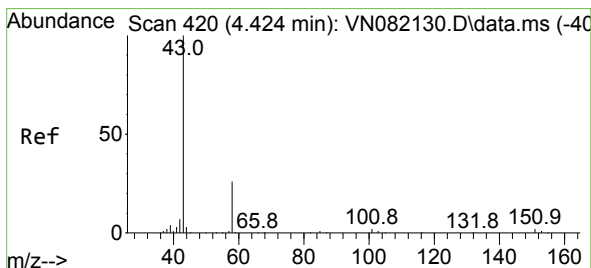
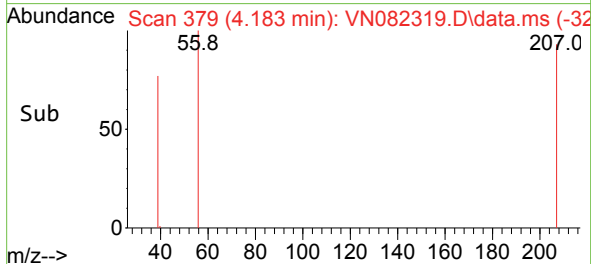
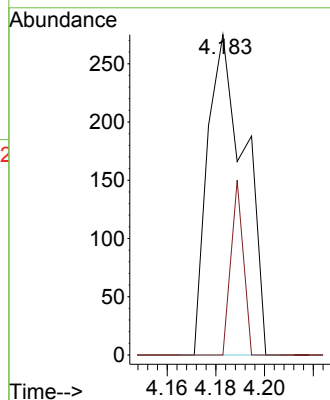
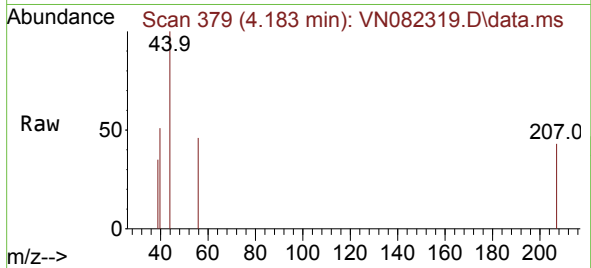
ClientSampleId :

Tgt Ion: 56 Resp: 291

Ion Ratio Lower Upper

56 100

55 18.2 55.8 83.8#



#16

Acetone

Concen: 7.780 ug/l

RT: 4.448 min Scan# 424

Delta R.T. 0.024 min

Lab File: VN082319.D

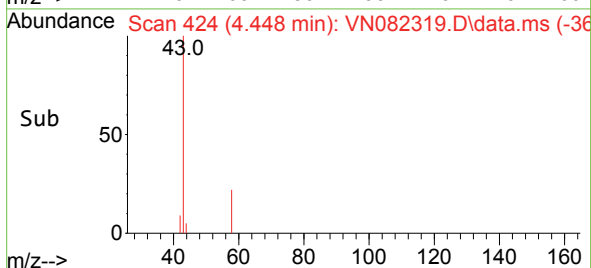
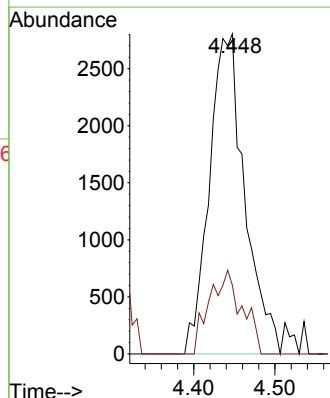
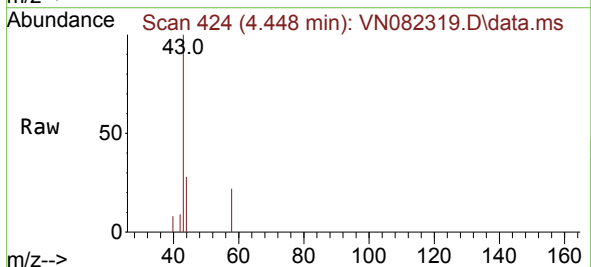
Acq: 23 May 2024 14:17

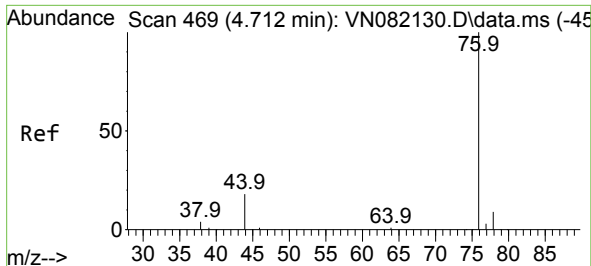
Tgt Ion: 43 Resp: 8487

Ion Ratio Lower Upper

43 100

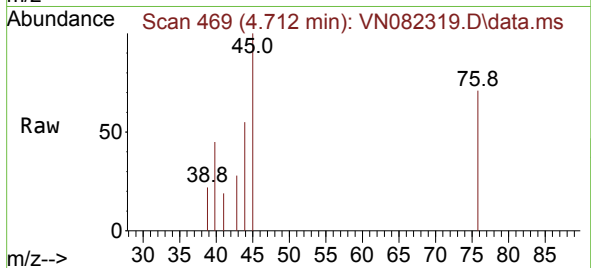
58 21.5 25.2 37.8#



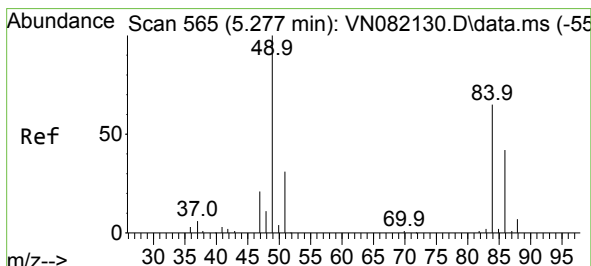
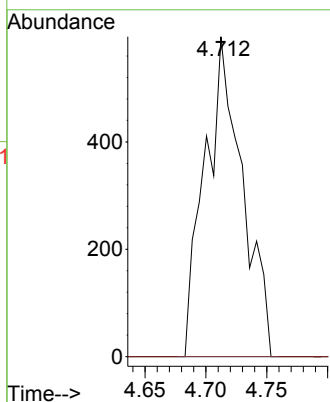
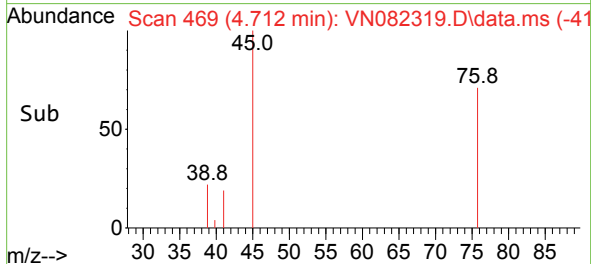


#17
Carbon Disulfide
Concen: 0.215 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

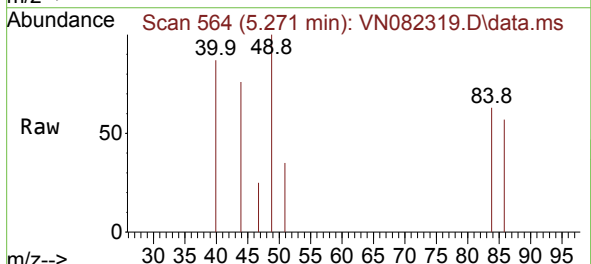
Instrument :
MSVOA_N
ClientSampleId :



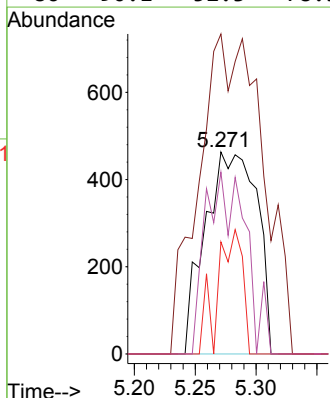
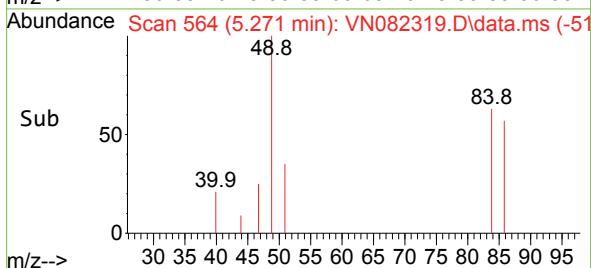
Tgt Ion: 76 Resp: 1275
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#

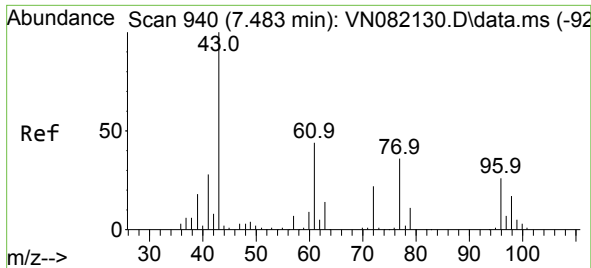


#20
Methylene Chloride
Concen: 0.625 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17



Tgt Ion: 84 Resp: 1375
Ion Ratio Lower Upper
84 100
49 106.9 84.9 127.3
51 55.5 27.0 40.6#
86 90.1 52.3 78.5#

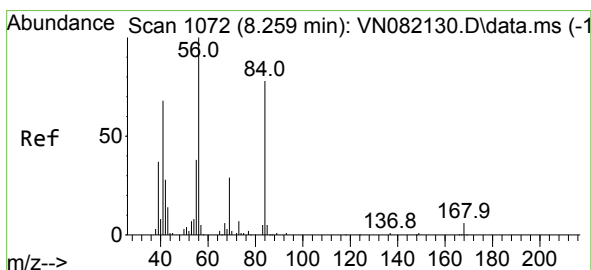
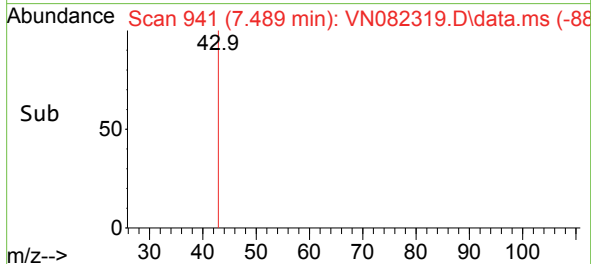
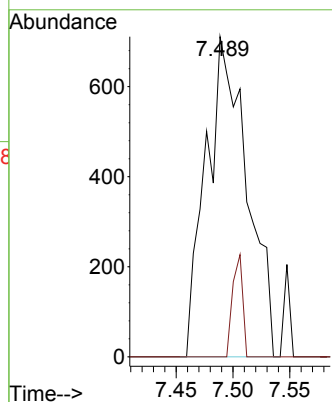
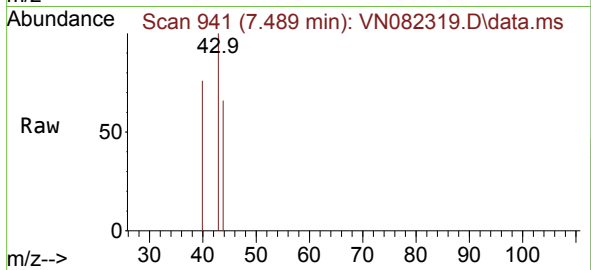




#25
2-Butanone
Concen: 1.082 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

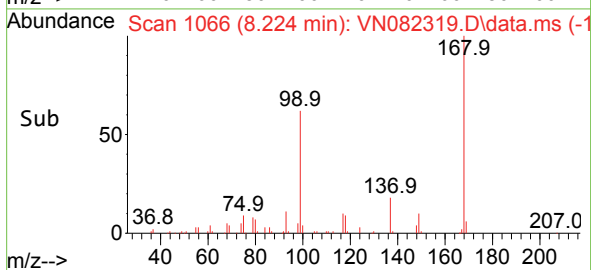
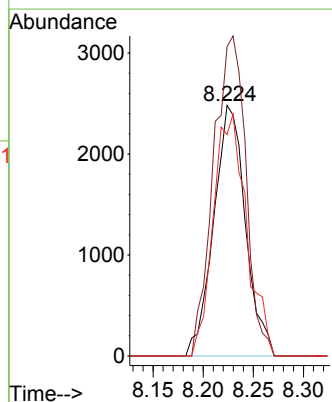
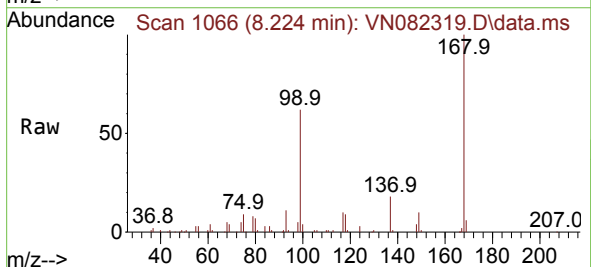
Instrument :
MSVOA_N
ClientSampleId :

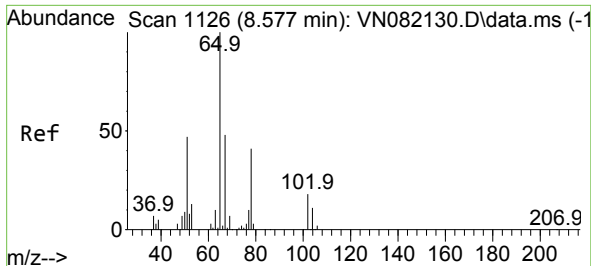
Tgt Ion: 43 Resp: 1789
Ion Ratio Lower Upper
43 100
72 0.0 25.3 37.9#



#31
Cyclohexane
Concen: 1.286 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion: 56 Resp: 5460
Ion Ratio Lower Upper
56 100
69 123.4 24.4 36.6#
84 88.4 77.0 115.4





#33

1,2-Dichloroethane-d4

Concen: 51.494 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

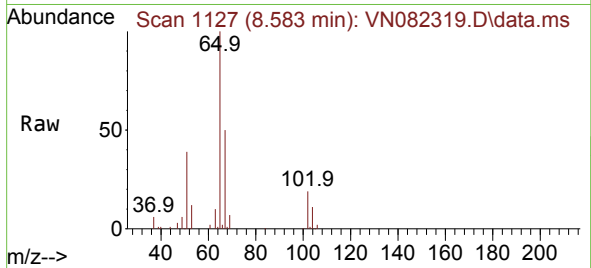
Lab File: VN082319.D

Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :

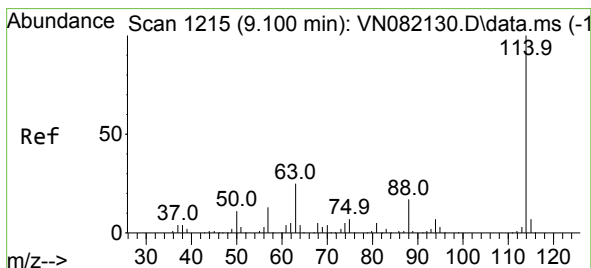
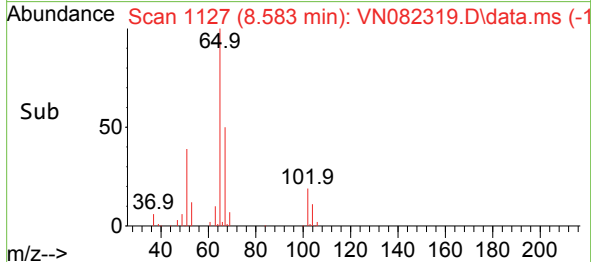
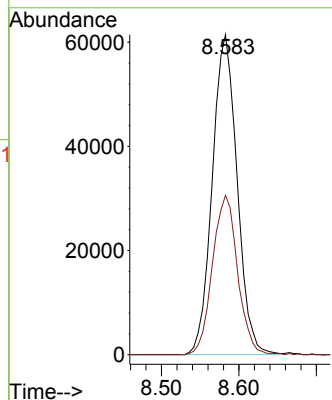


Tgt Ion: 65 Resp: 136932

Ion Ratio Lower Upper

65 100

67 50.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

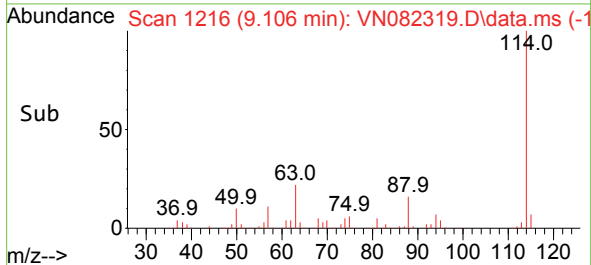
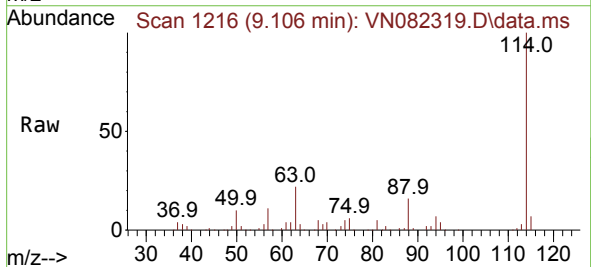
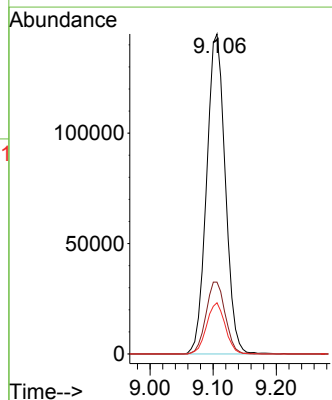
Tgt Ion: 114 Resp: 297506

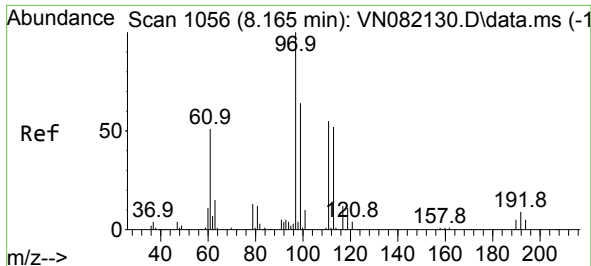
Ion Ratio Lower Upper

114 100

63 22.4 0.0 41.0

88 16.0 0.0 31.4

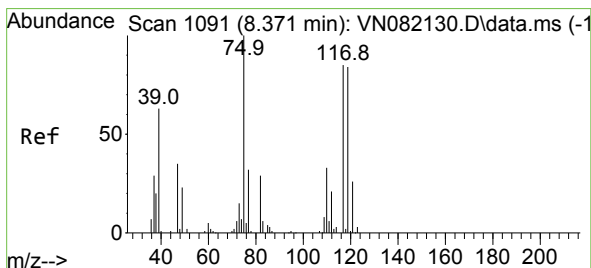
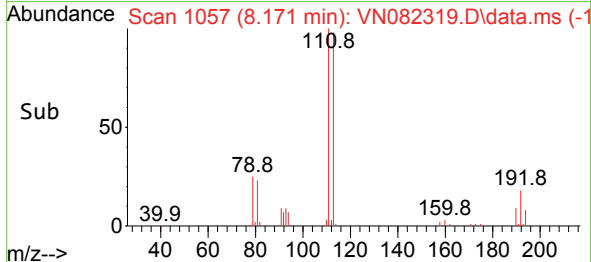
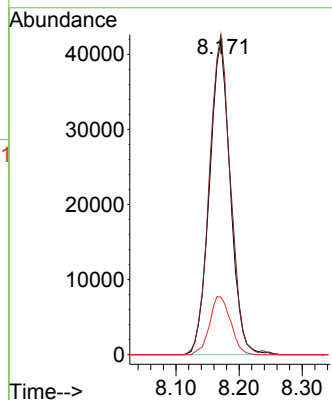
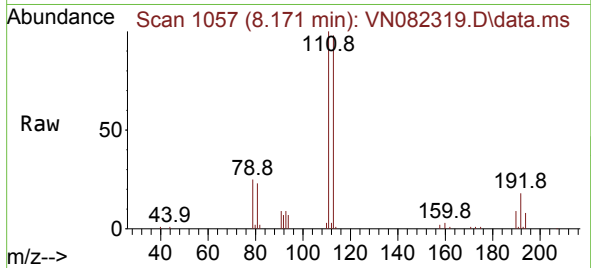




#35
Dibromofluoromethane
Concen: 52.454 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

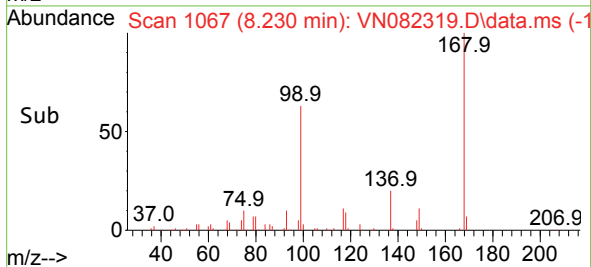
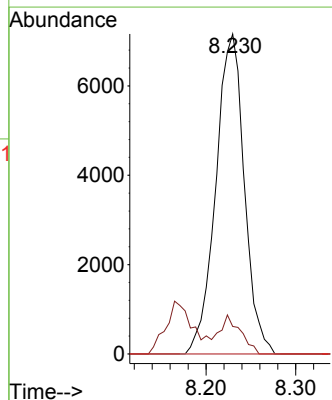
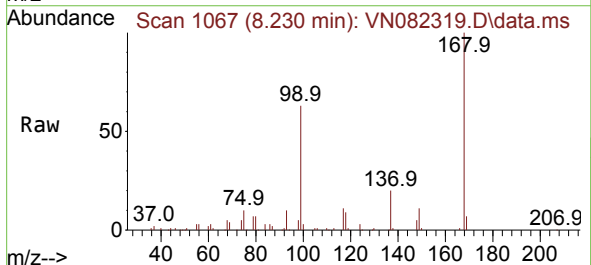
Instrument :
MSVOA_N
ClientSampleId :

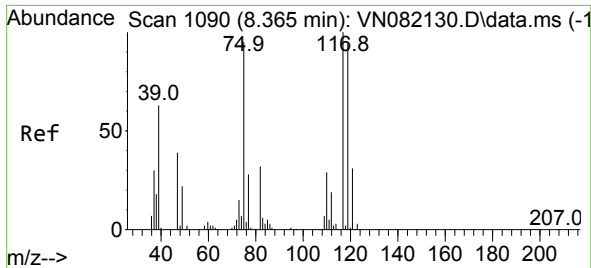
Tgt Ion: 113 Resp: 95997
Ion Ratio Lower Upper
113 100
111 102.9 83.4 125.2
192 18.7 14.0 21.0



#36
1,1-Dichloropropene
Concen: 5.148 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

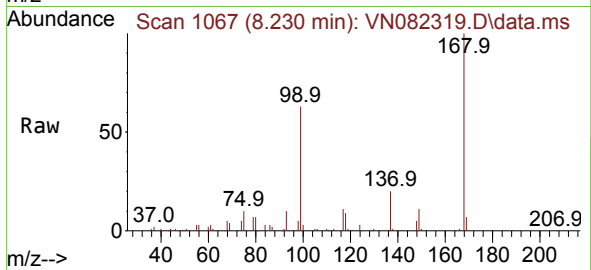
Tgt Ion: 75 Resp: 15800
Ion Ratio Lower Upper
75 100
110 8.8 17.8 53.5#
77 0.0 25.0 37.4#



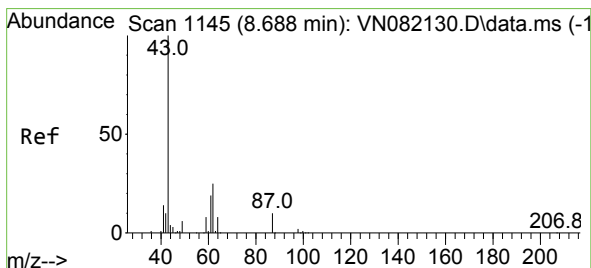
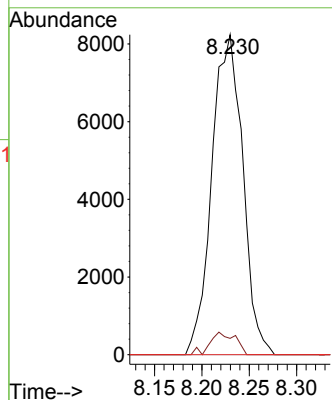
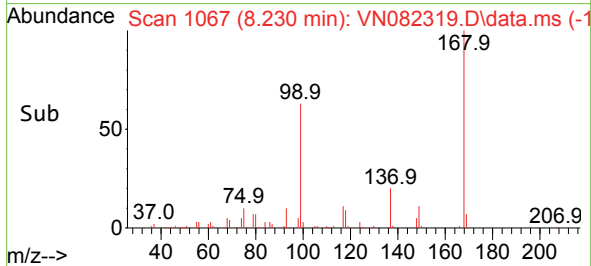


#38
Carbon Tetrachloride
Concen: 6.007 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

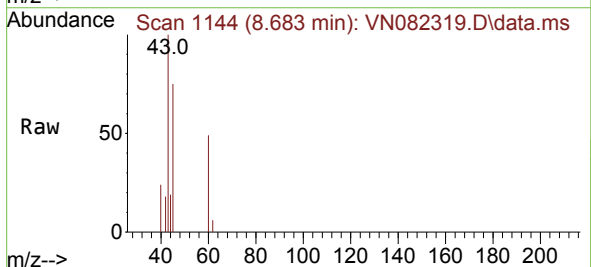
Instrument :
MSVOA_N
ClientSampleId :



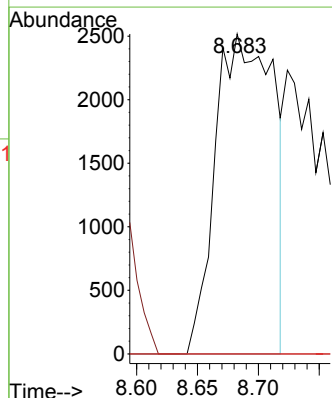
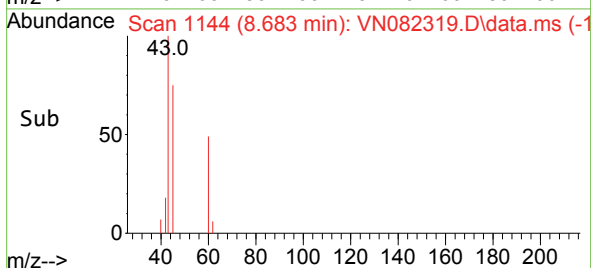
Tgt Ion:117 Resp: 18692
Ion Ratio Lower Upper
117 100
119 5.1 76.5 114.7#
121 0.0 23.9 35.9#

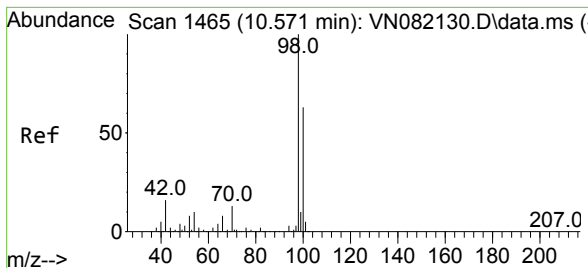


#43
Isopropyl Acetate
Concen: 1.368 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17



Tgt Ion: 43 Resp: 8327
Ion Ratio Lower Upper
43 100
61 0.0 22.8 34.2#
87 0.0 12.0 18.0#

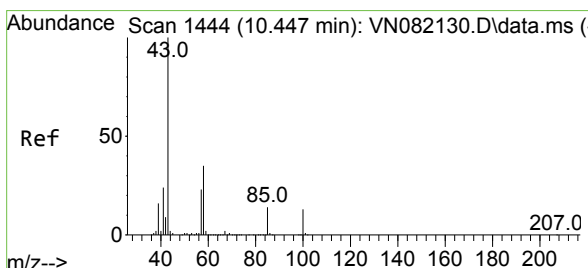
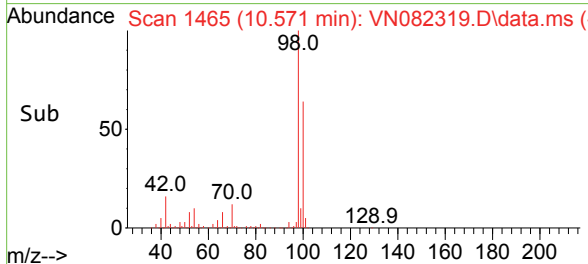
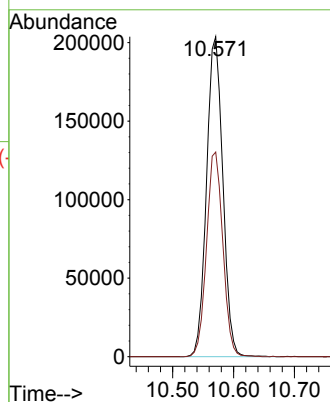
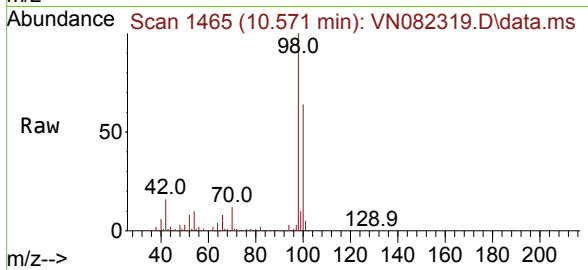




#50
Toluene-d8
Concen: 53.847 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

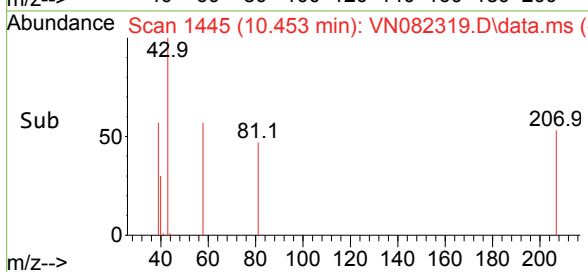
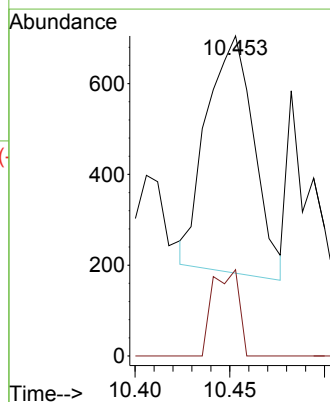
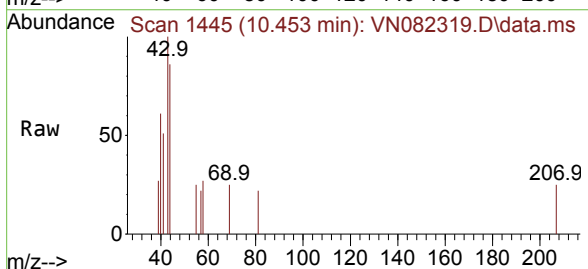
Instrument :
MSVOA_N
ClientSampleId :

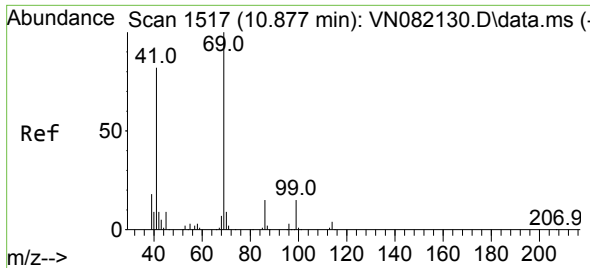
Tgt Ion: 98 Resp: 377820
Ion Ratio Lower Upper
98 100
100 64.1 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 0.261 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

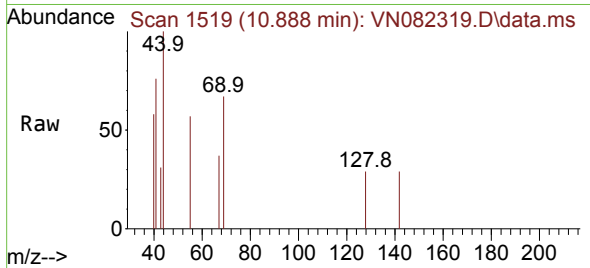
Tgt Ion: 43 Resp: 901
Ion Ratio Lower Upper
43 100
58 20.5 33.2 49.8#



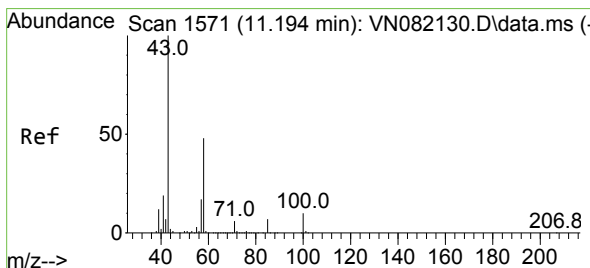
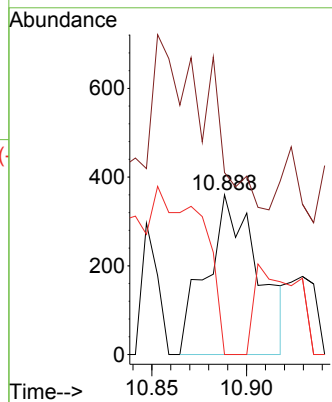
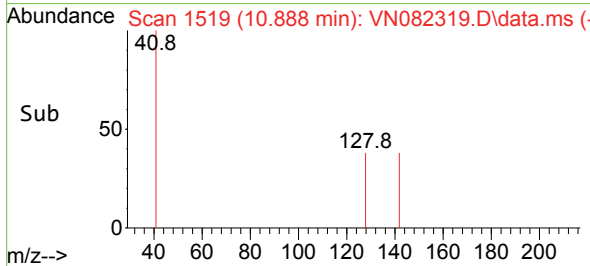


#56
Ethyl methacrylate
Concen: 0.201 ug/l
RT: 10.888 min Scan# 1519
Delta R.T. 0.012 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Instrument :
MSVOA_N
ClientSampleId :

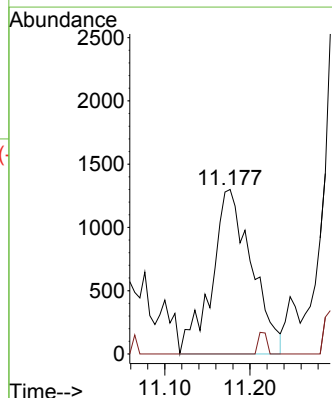
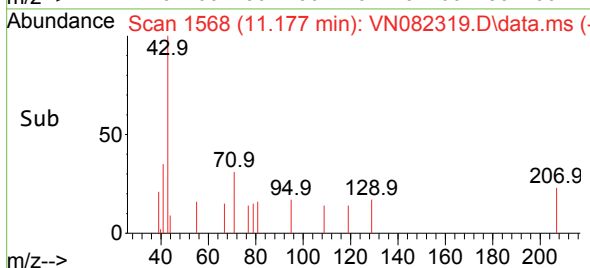
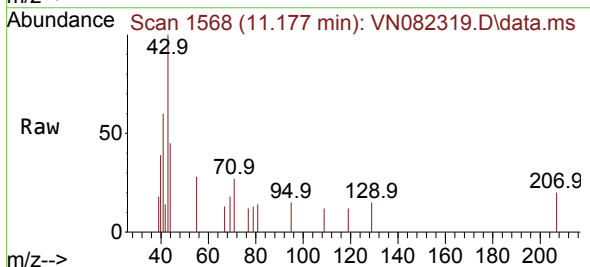


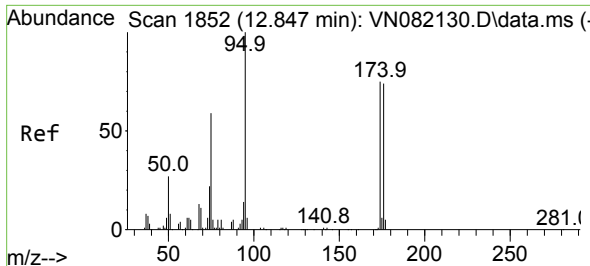
Tgt Ion: 69 Resp: 681
Ion Ratio Lower Upper
69 100
41 0.0 46.6 70.0#
39 44.8 26.5 39.7#



#59
2-Hexanone
Concen: 1.667 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.018 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion: 43 Resp: 4221
Ion Ratio Lower Upper
43 100
58 0.0 28.3 84.9#

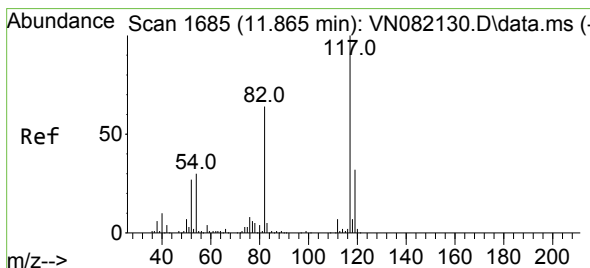
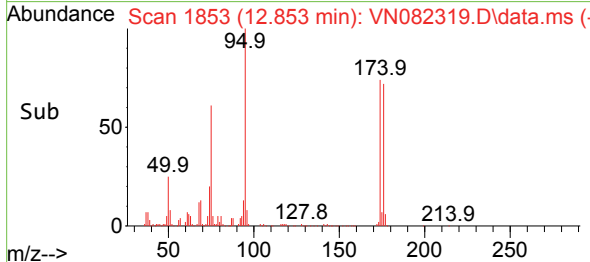
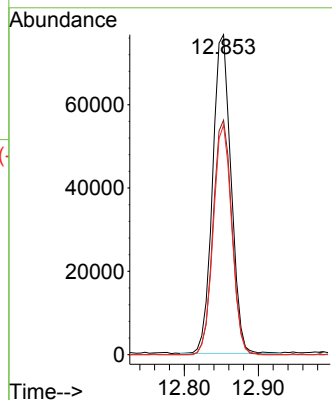
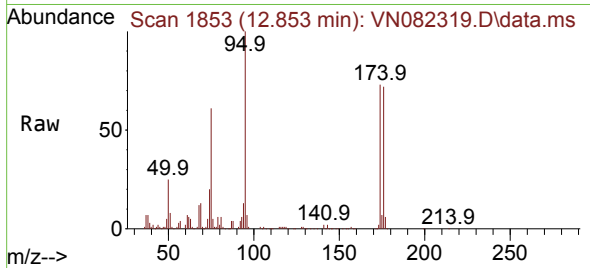




#62
4-Bromofluorobenzene
Concen: 52.864 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

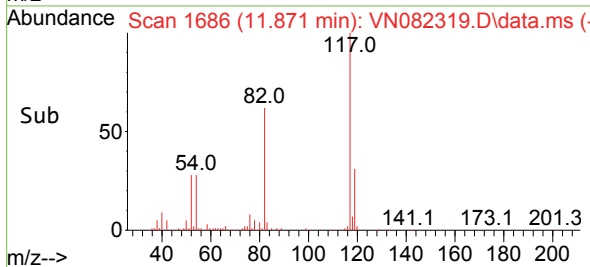
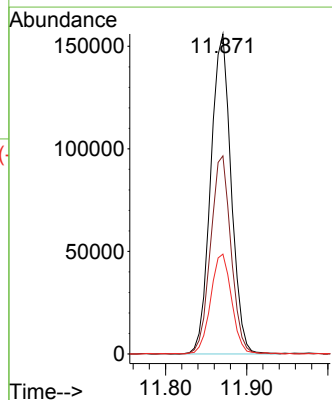
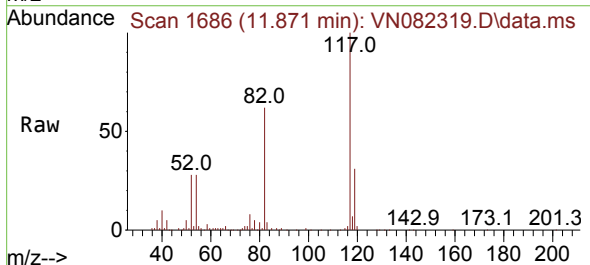
Instrument :
MSVOA_N
ClientSampleId :

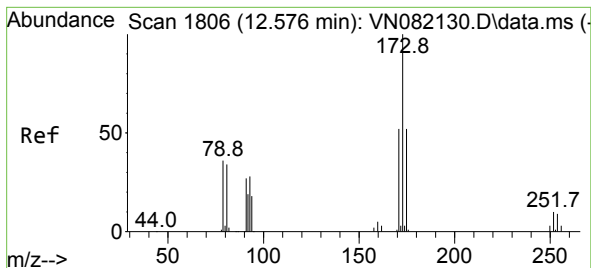
Tgt Ion: 95 Resp: 132392
Ion Ratio Lower Upper
95 100
174 74.7 0.0 160.6
176 72.0 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion: 117 Resp: 273315
Ion Ratio Lower Upper
117 100
82 61.9 44.6 66.8
119 31.1 25.9 38.9





#71

Bromoform

Concen: 1.009 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN082319.D

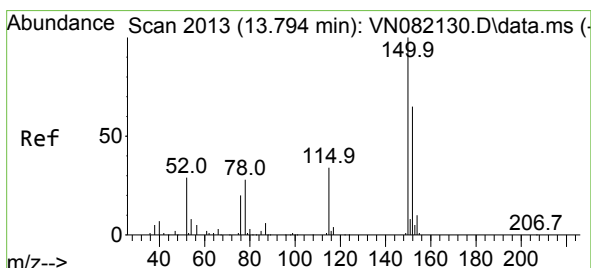
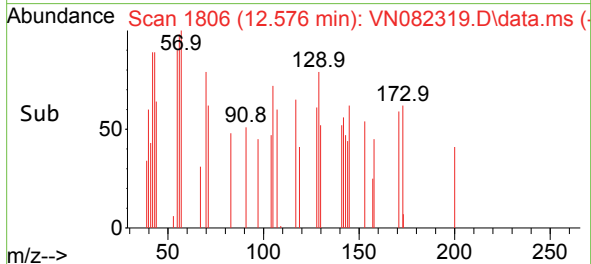
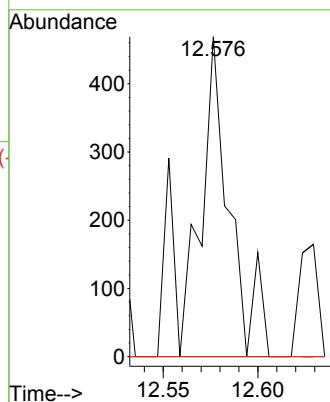
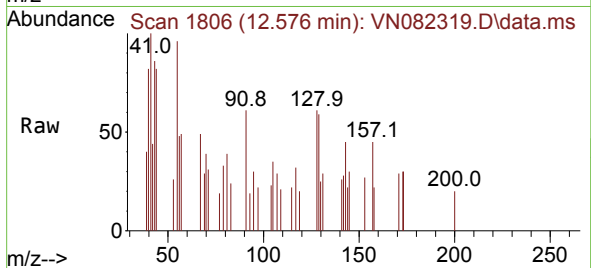
Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173	Resp:	494
Ion Ratio	Lower	Upper
173	100	
175	0.0	24.6
254	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

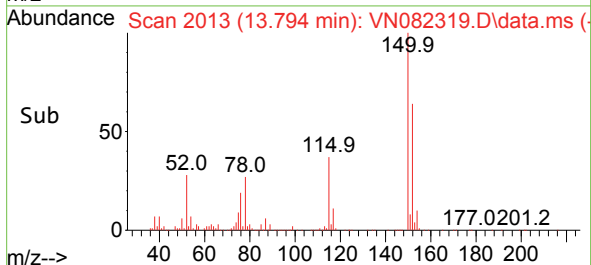
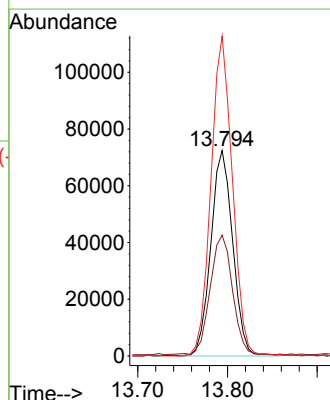
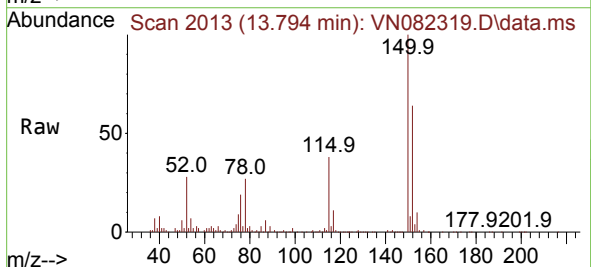
RT: 13.794 min Scan# 2013

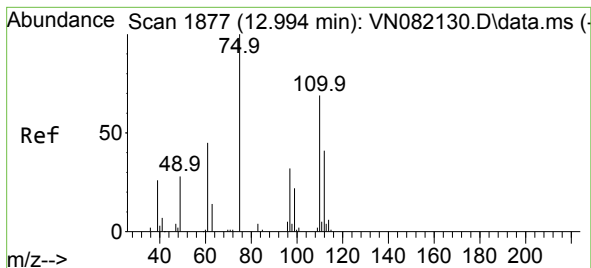
Delta R.T. 0.000 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

Tgt Ion:152	Resp:	122779
Ion Ratio	Lower	Upper
152	100	
115	59.2	30.4
150	152.4	0.0





#76

1,2,3-Trichloropropane

Concen: 30.244 ug/l

RT: 12.853 min Scan# 11

Delta R.T. -0.141 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

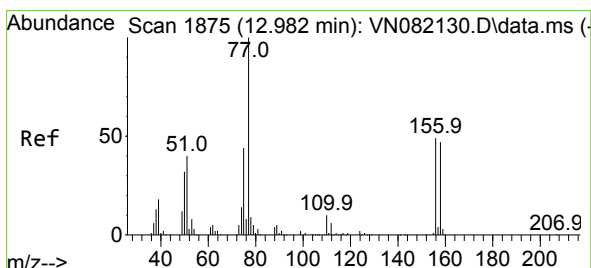
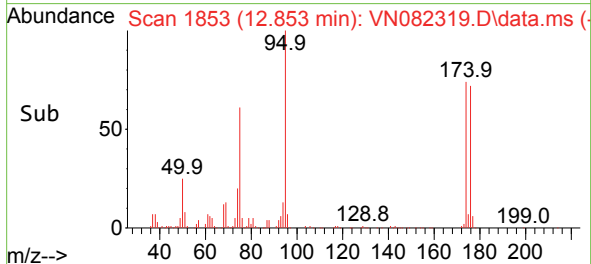
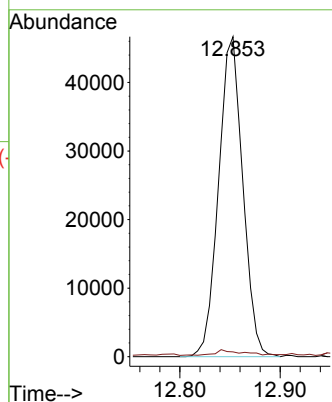
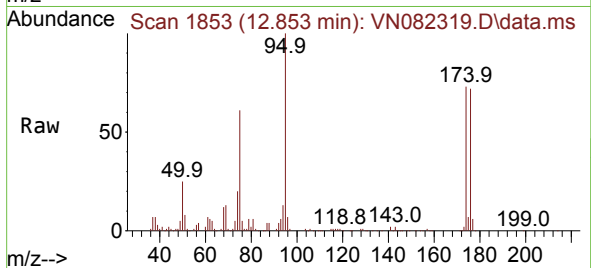
ClientSampleId :

Tgt Ion: 75 Resp: 78157

Ion Ratio Lower Upper

75 100

77 1.6 90.5 271.3#



#77

Bromobenzene

Concen: 0.216 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. 0.006 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

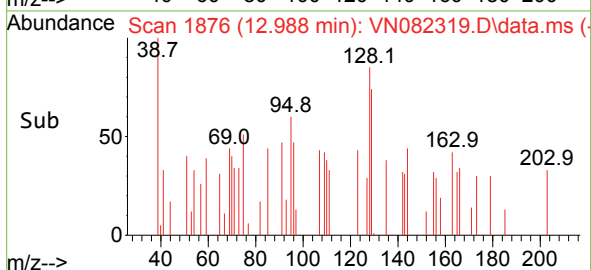
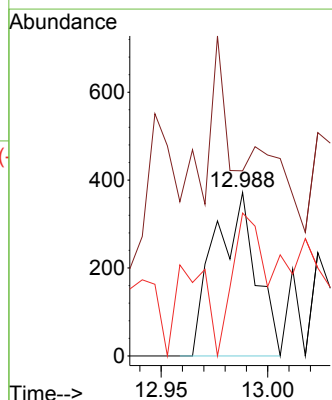
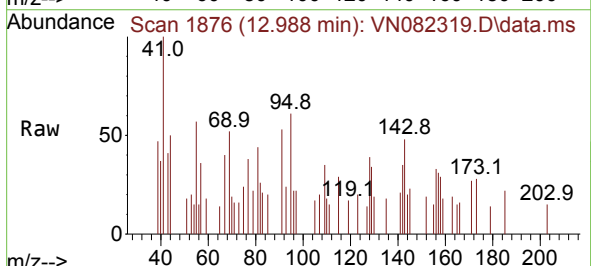
Tgt Ion: 156 Resp: 503

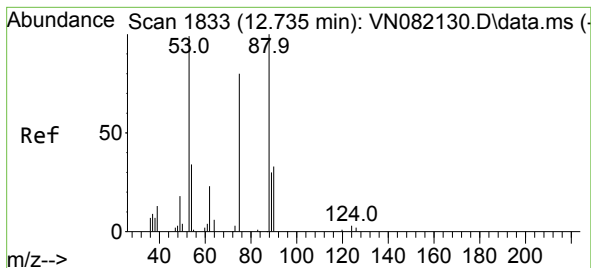
Ion Ratio Lower Upper

156 100

77 44.1 100.2 300.6#

158 65.4 49.1 147.3

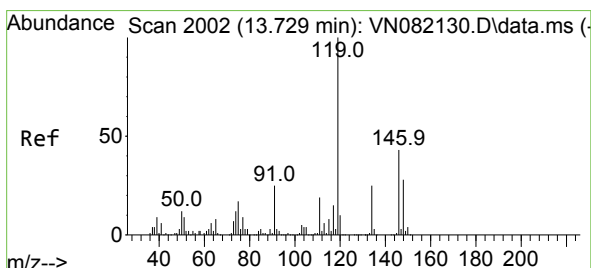
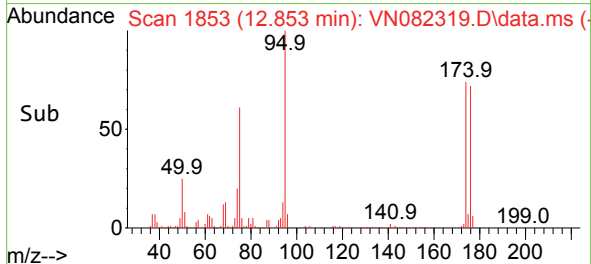
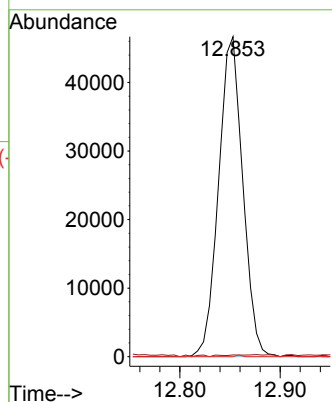
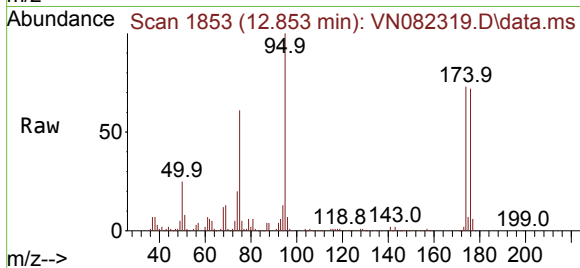




#81
trans-1,4-Dichloro-2-butene
Concen: 70.740 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

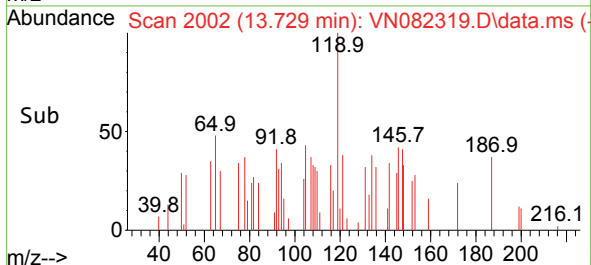
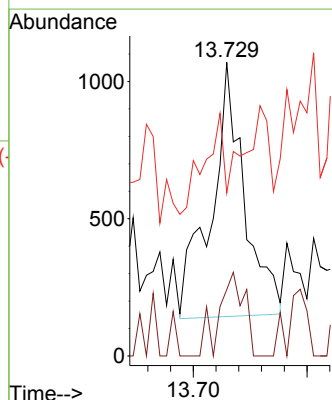
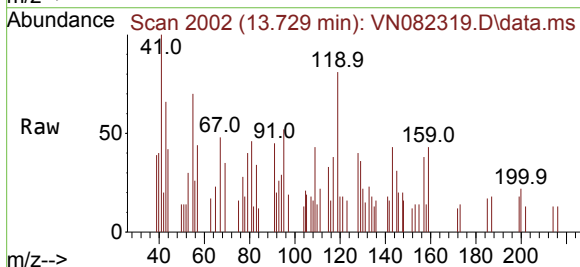
Instrument :
MSVOA_N
ClientSampleId :

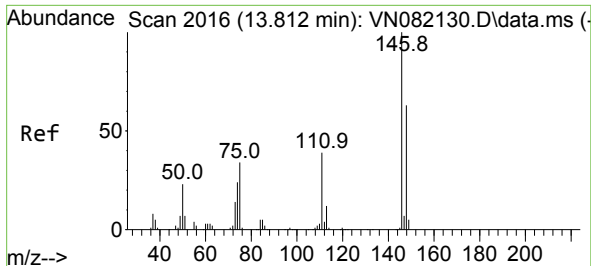
Tgt Ion: 75 Resp: 78157
Ion Ratio Lower Upper
75 100
53 0.0 72.9 109.3#
89 0.1 39.1 58.7#



#86
p-Isopropyltoluene
Concen: 0.242 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion: 119 Resp: 1881
Ion Ratio Lower Upper
119 100
134 25.0 13.2 39.5
91 23.1 11.8 35.3

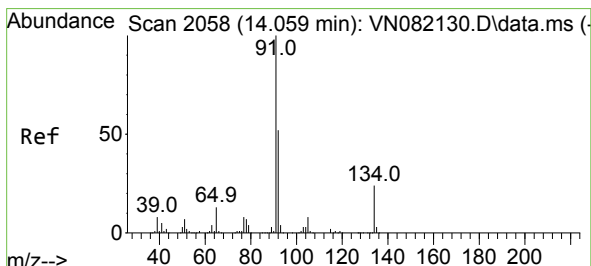
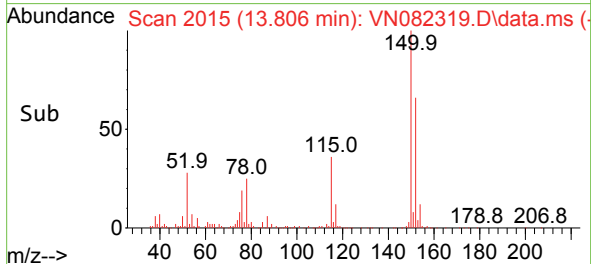
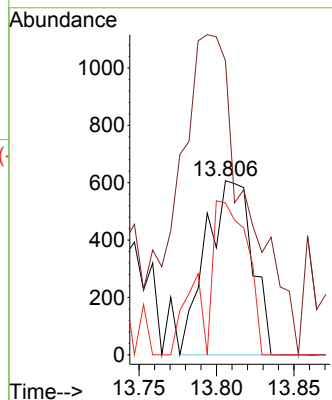
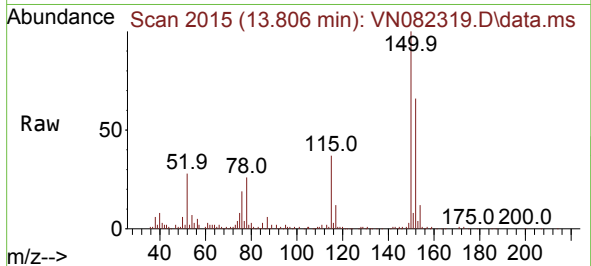




#88
1,4-Dichlorobenzene
Concen: 0.295 ug/l
RT: 13.806 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

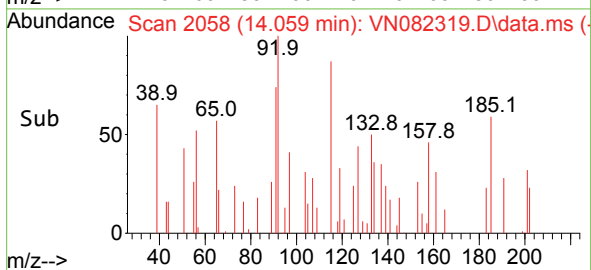
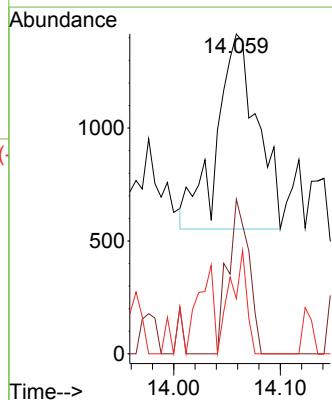
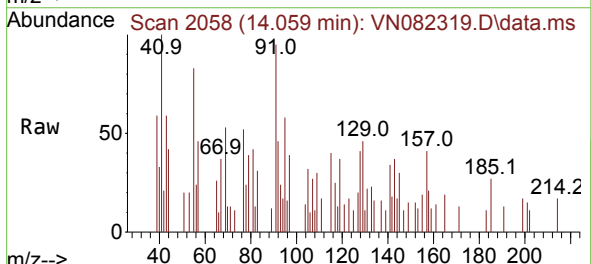
Instrument :
MSVOA_N
ClientSampleId :

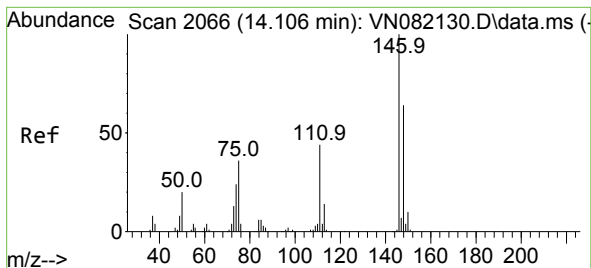
Tgt Ion:146 Resp: 1266
Ion Ratio Lower Upper
146 100
111 250.8 19.3 57.9#
148 82.0 31.3 93.9



#89
n-Butylbenzene
Concen: 0.326 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion: 91 Resp: 2278
Ion Ratio Lower Upper
91 100
92 41.0 26.2 78.5
134 21.5 13.2 39.5





#91

1,2-Dichlorobenzene

Concen: 0.209 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN082319.D

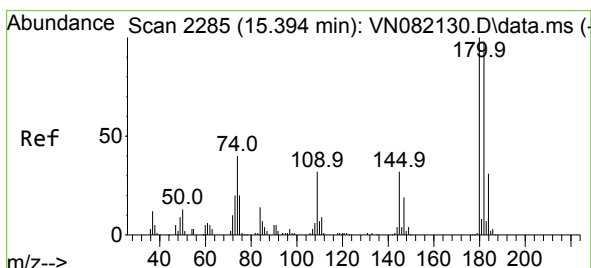
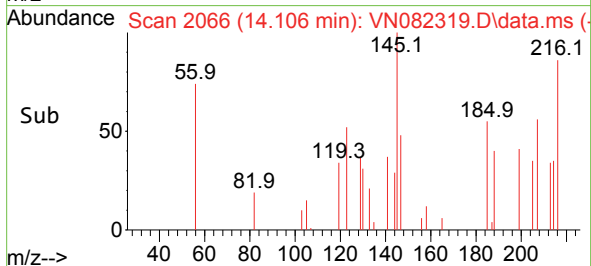
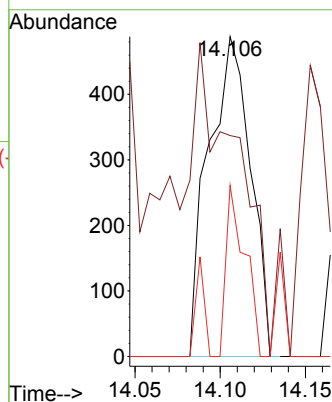
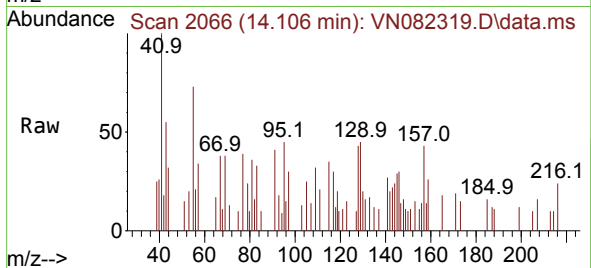
Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	146	Resp:	834
Ion Ratio	Lower	Upper	
146	100		
111	0.0	21.3	64.0#
148	24.2	31.8	95.4#



#93

1,2,4-Trichlorobenzene

Concen: 0.415 ug/l

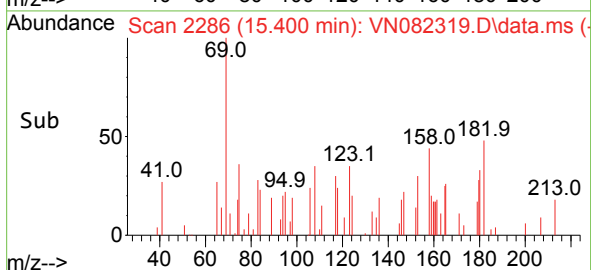
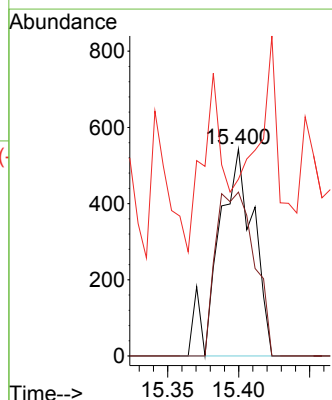
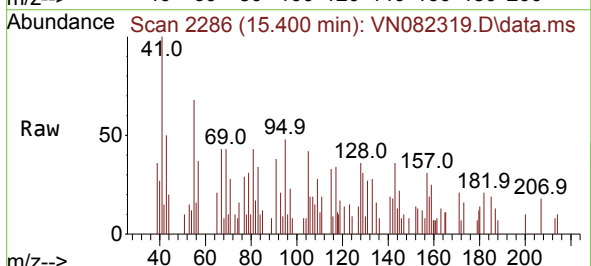
RT: 15.400 min Scan# 2286

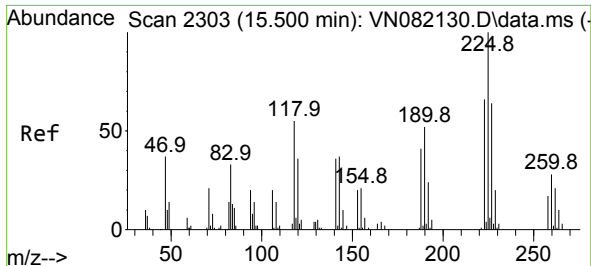
Delta R.T. 0.006 min

Lab File: VN082319.D

Acq: 23 May 2024 14:17

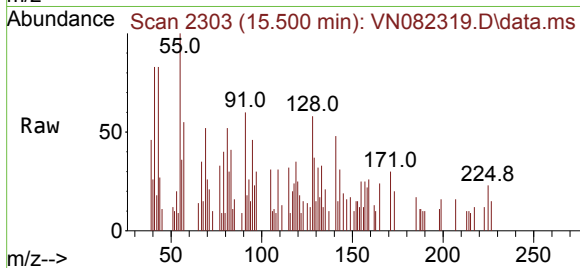
Tgt Ion:	180	Resp:	928
Ion Ratio	Lower	Upper	
180	100		
182	87.7	46.7	140.0
145	50.2	16.2	48.6#



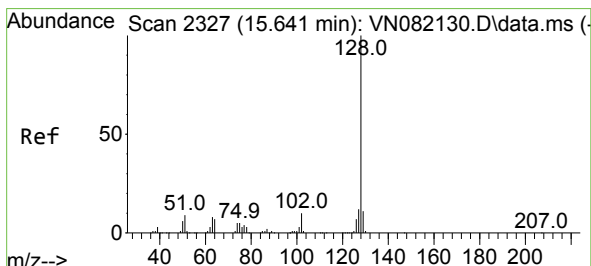
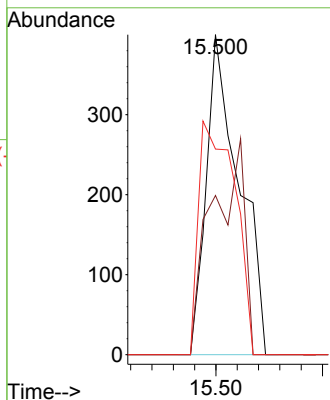
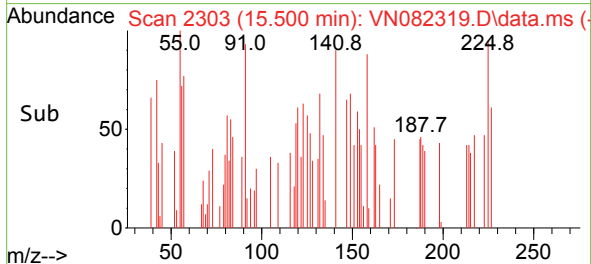


#94
Hexachlorobutadiene
Concen: 0.437 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Instrument :
MSVOA_N
ClientSampleId :

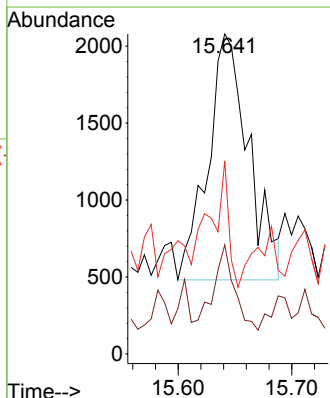
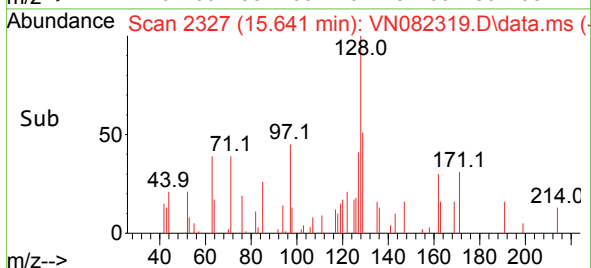
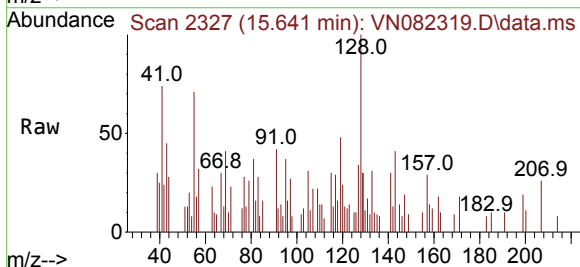


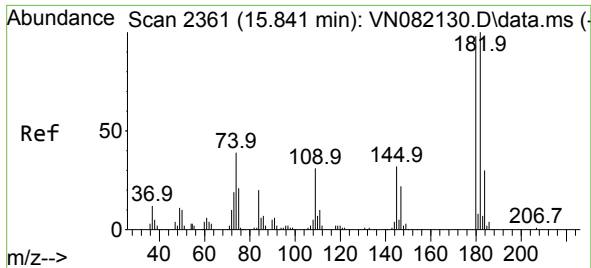
Tgt Ion:225 Resp: 428
Ion Ratio Lower Upper
225 100
223 65.9 31.1 93.2
227 80.8 30.6 91.6



#95
Naphthalene
Concen: 0.570 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN082319.D
Acq: 23 May 2024 14:17

Tgt Ion:128 Resp: 3994
Ion Ratio Lower Upper
128 100
127 17.2 10.1 15.1#
129 23.5 8.9 13.3#





#96

1,2,3-Trichlorobenzene

Concen: 0.339 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.000 min

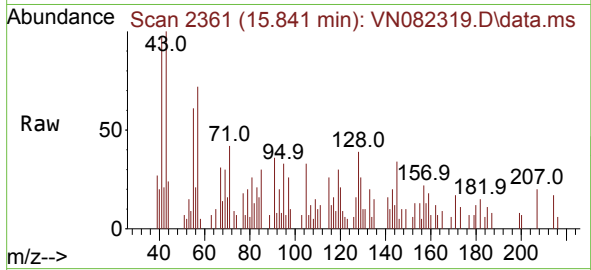
Lab File: VN082319.D

Acq: 23 May 2024 14:17

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 758

Ion Ratio Lower Upper

180 100

182 124.4 46.0 137.8

145 286.3 17.1 51.3#

