

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041322\
 Data File : VN071981.D
 Acq On : 13 Apr 2022 17:17
 Operator : JC\MD
 Sample : N2349-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-5

Quant Time: Apr 14 02:35:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

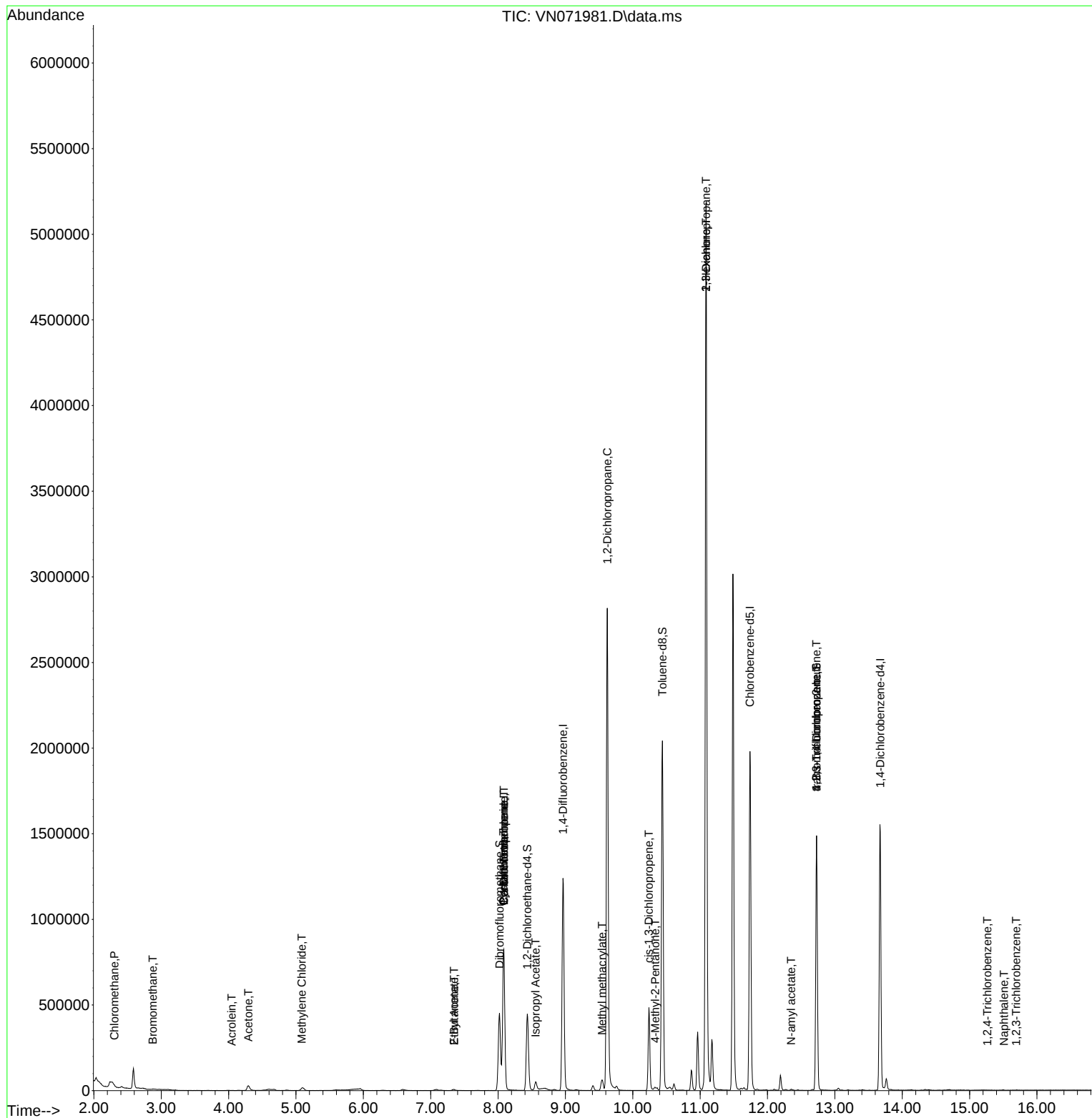
Internal Standards						
1) Pentafluorobenzene	8.086	168	699286	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1174469	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1258939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	465354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	373308	46.762	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	93.520%		
35) Dibromofluoromethane	8.022	113	338266	48.945	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.900%		
50) Toluene-d8	10.439	98	1520063	53.766	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	107.540%		
62) 4-Bromofluorobenzene	12.727	95	525935	57.520	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	115.040%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	2540	0.361	ug/l	96
5) Bromomethane	2.875	94	1487	0.296	ug/l	86
13) Acrolein	4.045	56	396	0.251	ug/l #	75
16) Acetone	4.292	43	50032	14.665	ug/l	94
18) Methyl Acetate	4.863	43	5994	Below Cal	#	85
20) Methylene Chloride	5.087	84	15331	2.132	ug/l #	80
25) 2-Butanone	7.345	43	12615	2.565	ug/l	99
31) Cyclohexane	8.080	56	10660	0.982	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	45777	4.743	ug/l #	49
37) Ethyl Acetate	7.345	43	12615	1.194	ug/l #	67
38) Carbon Tetrachloride	8.086	117	60649	6.412	ug/l #	17
43) Isopropyl Acetate	8.557	43	58272	3.317	ug/l #	90
45) 1,2-Dichloropropane	9.622	63	3940	0.517	ug/l #	44
48) Methyl methacrylate	9.545	41	17088	2.344	ug/l #	22
49) 1,4-Dioxane	9.616	88	535	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.333	43	9366	0.927	ug/l #	79
54) cis-1,3-Dichloropropene	10.239	75	100268	8.506	ug/l #	58
57) 1,3-Dichloropropane	11.086	76	61294	4.622	ug/l #	42
59) 2-Hexanone	11.086	43	723083	101.667	ug/l #	49
74) N-amyl acetate	12.351	43	5853	0.521	ug/l #	42
76) 1,2,3-Trichloropropane	12.727	75	249395	23.134	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	249395	71.693	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.262	180	471	2.147	ug/l #	81
95) Naphthalene	15.509	128	2418	3.908	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.692	180	472	2.477	ug/l #	60

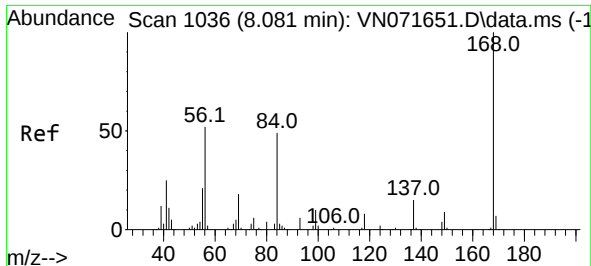
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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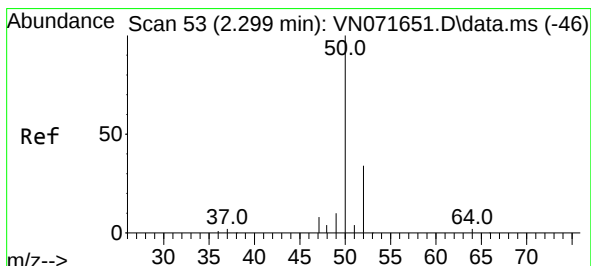
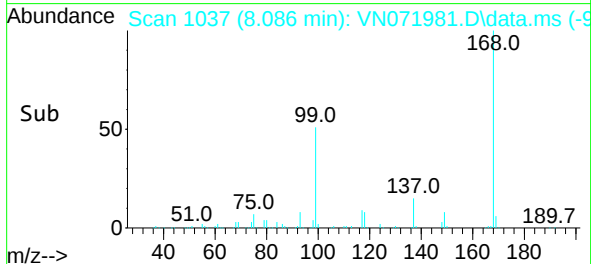
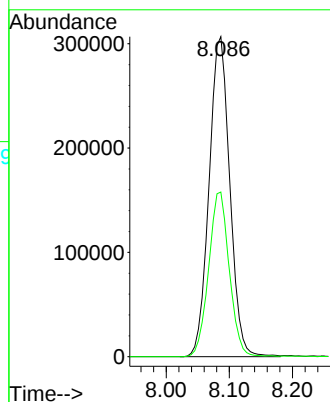
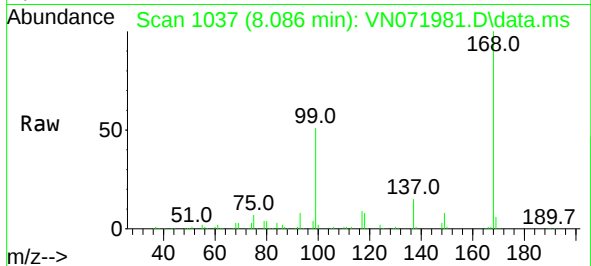




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

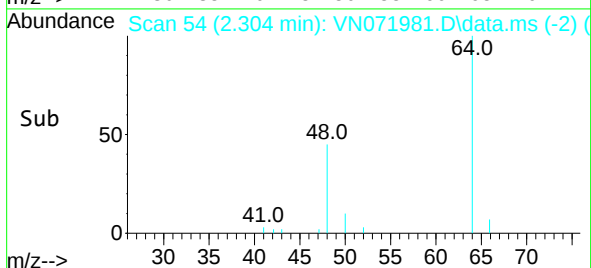
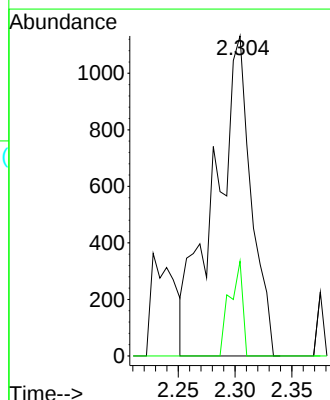
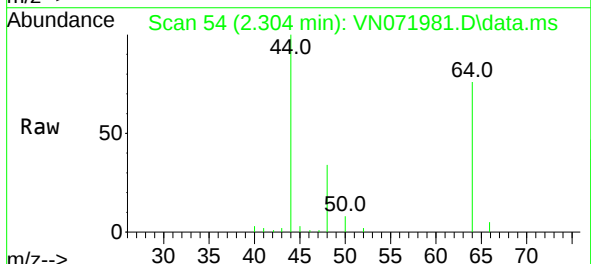
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

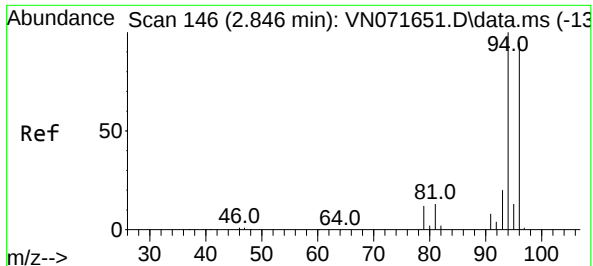
Tgt Ion:168 Resp: 699286
Ion Ratio Lower Upper
168 100
99 51.4 42.3 63.5



#3
Chloromethane
Concen: 0.361 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.005 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 50 Resp: 2540
Ion Ratio Lower Upper
50 100
52 29.6 25.7 38.5





#5

Bromomethane

Concen: 0.296 ug/l

RT: 2.875 min Scan# 11

Delta R.T. 0.029 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

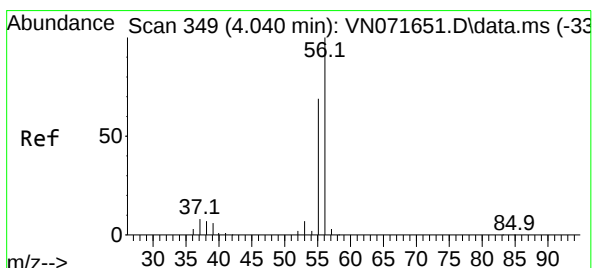
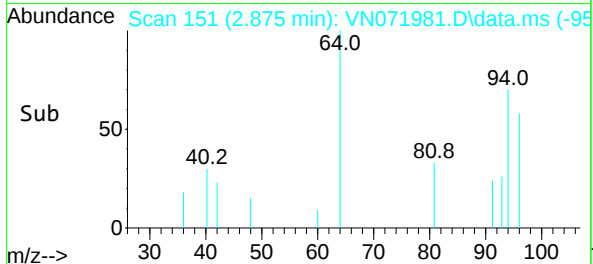
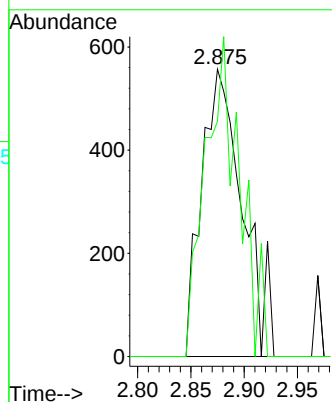
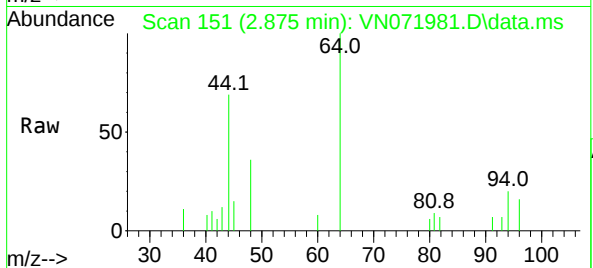
DEL-5

Tgt Ion: 94 Resp: 1487

Ion Ratio Lower Upper

94 100

96 81.9 76.0 114.0



#13

Acrolein

Concen: 0.251 ug/l

RT: 4.045 min Scan# 350

Delta R.T. 0.005 min

Lab File: VN071981.D

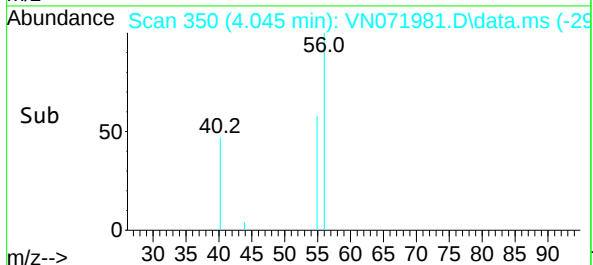
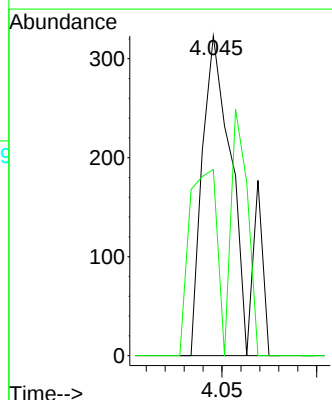
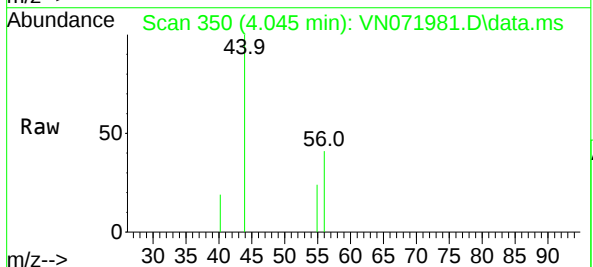
Acq: 13 Apr 2022 17:17

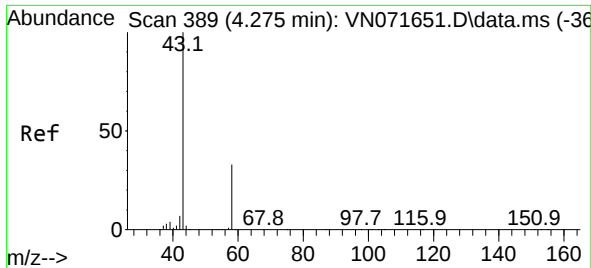
Tgt Ion: 56 Resp: 396

Ion Ratio Lower Upper

56 100

55 48.0 54.8 82.2#

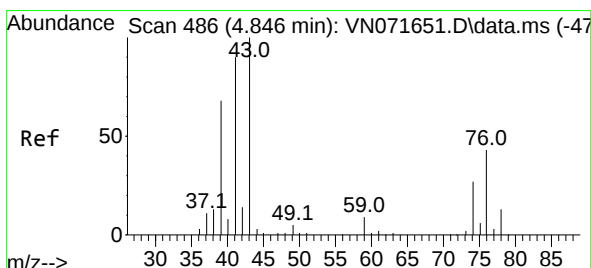
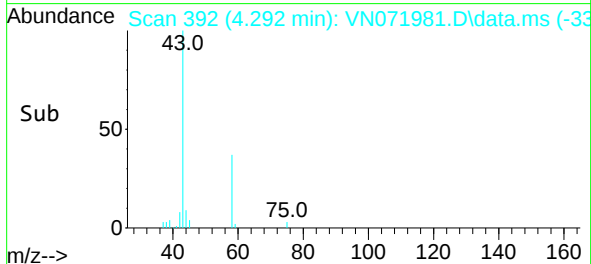
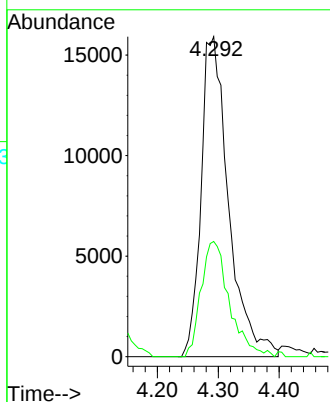
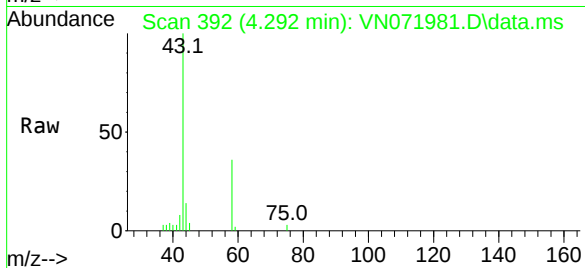




#16
Acetone
Concen: 14.665 ug/l
RT: 4.292 min Scan# 391
Delta R.T. 0.017 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

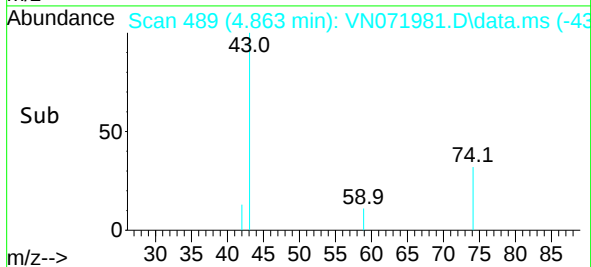
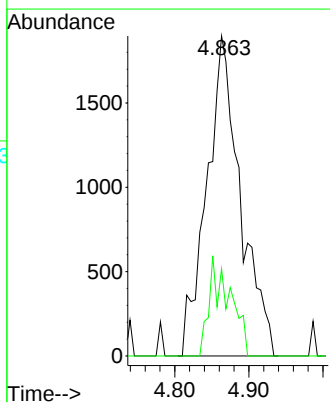
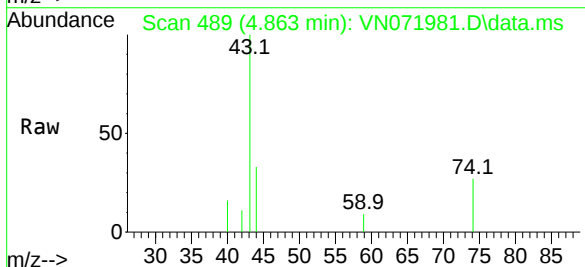
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

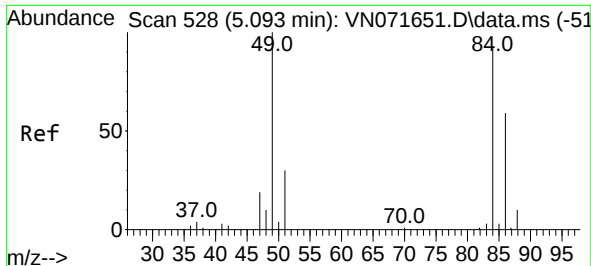
Tgt Ion: 43 Resp: 50032
Ion Ratio Lower Upper
43 100
58 36.0 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.863 min Scan# 489
Delta R.T. 0.017 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 43 Resp: 5994
Ion Ratio Lower Upper
43 100
74 19.4 21.6 32.4#

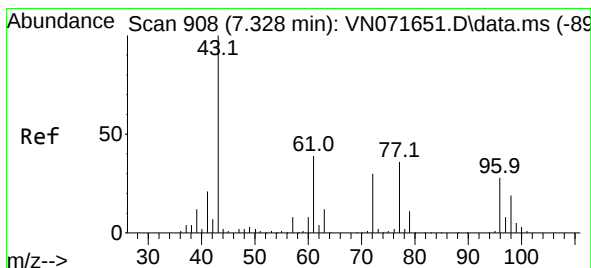
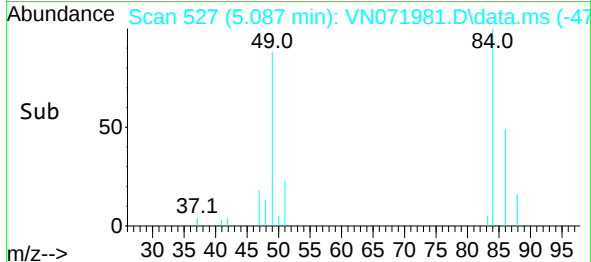
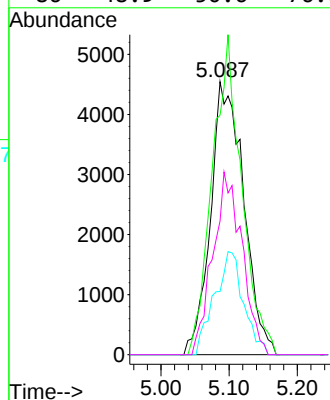
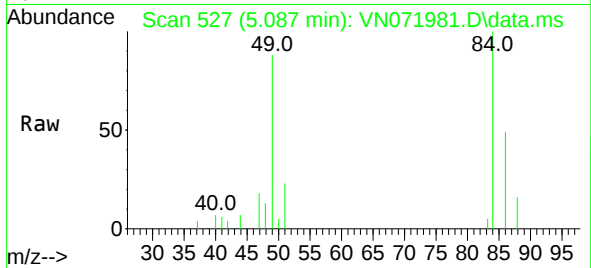




#20
Methylene Chloride
Concen: 2.132 ug/l
RT: 5.087 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

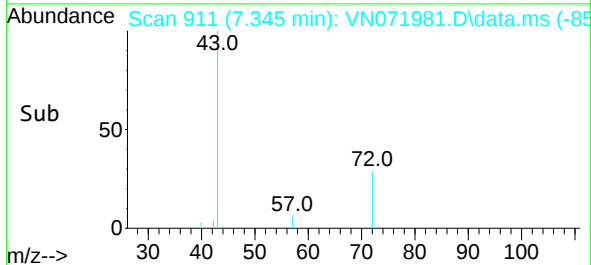
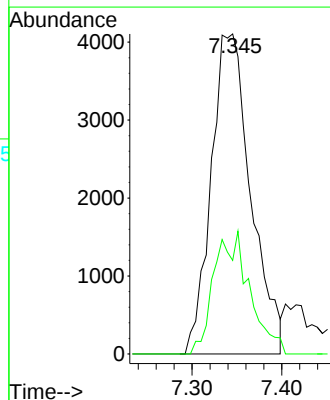
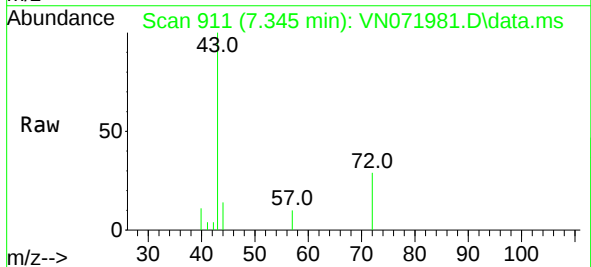
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

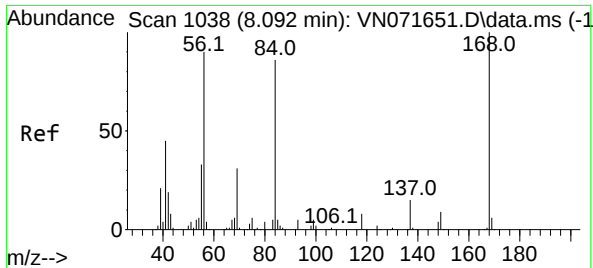
Tgt Ion: 84	Resp: 15331
Ion Ratio	Lower Upper
84 100	
49 87.7	88.3 132.5#
51 23.2	28.2 42.2#
86 48.9	50.6 76.0#



#25
2-Butanone
Concen: 2.565 ug/l
RT: 7.345 min Scan# 911
Delta R.T. 0.017 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 43	Resp: 12615
Ion Ratio	Lower Upper
43 100	
72 29.2	23.7 35.5

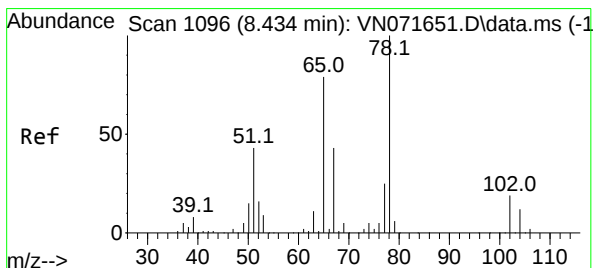
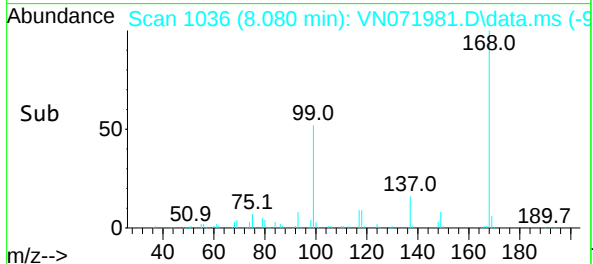
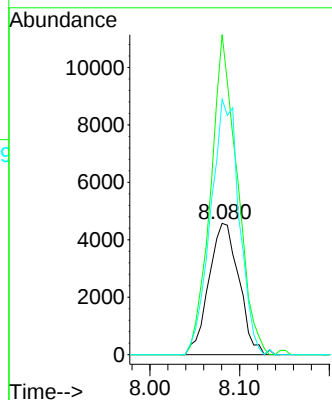
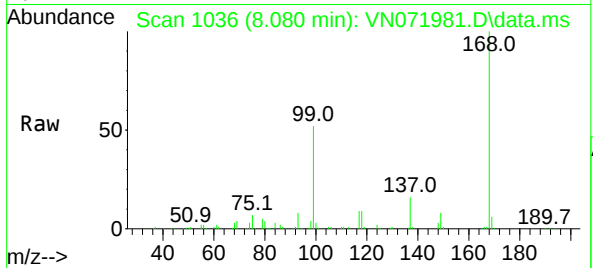




#31
Cyclohexane
Concen: 0.982 ug/l
RT: 8.080 min Scan# 1036
Delta R.T. -0.012 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

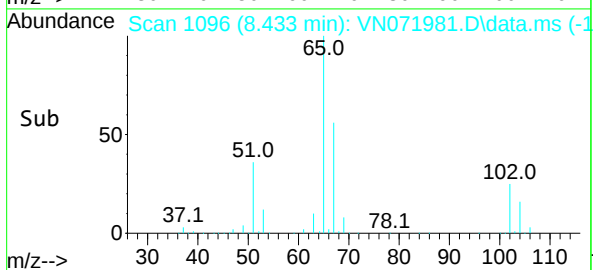
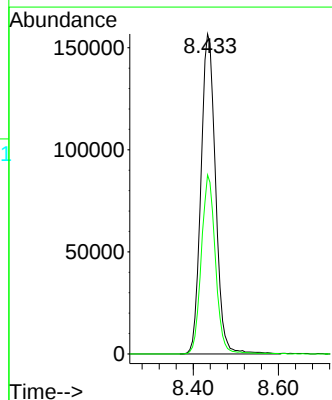
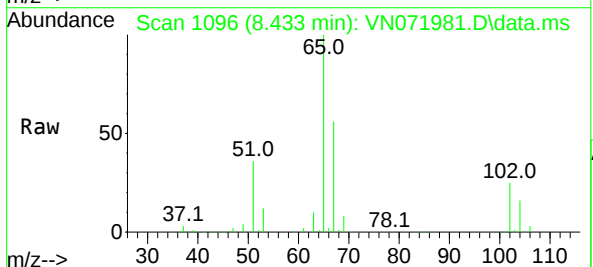
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

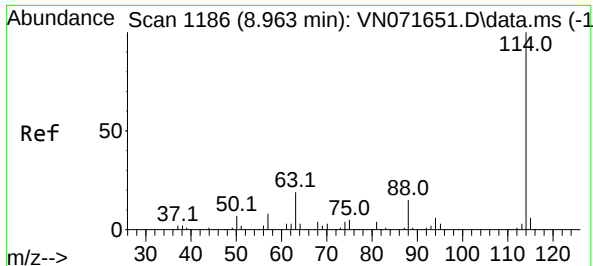
Tgt Ion: 56 Resp: 10660
Ion Ratio Lower Upper
56 100
69 243.7 27.8 41.8#
84 194.5 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 46.762 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 65 Resp: 373308
Ion Ratio Lower Upper
65 100
67 54.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

DEL-5

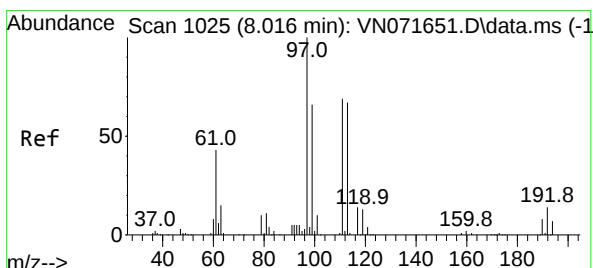
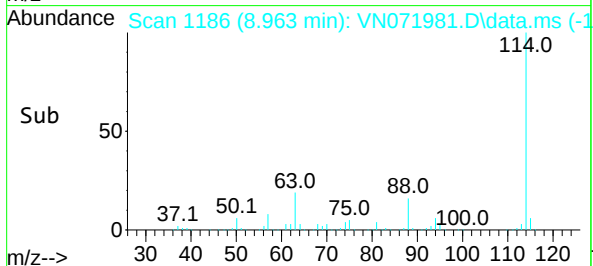
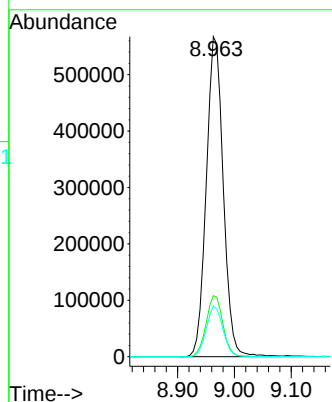
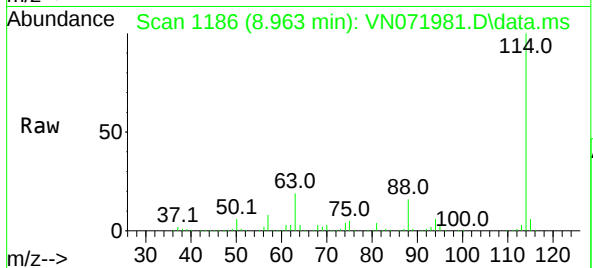
Tgt Ion:114 Resp: 1174469

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 15.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.945 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

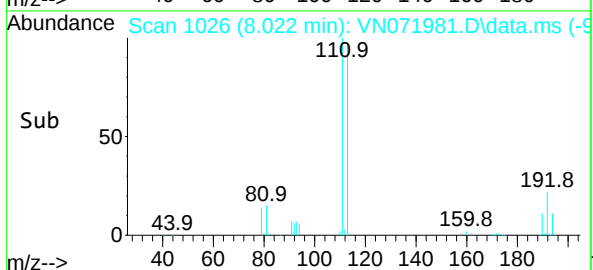
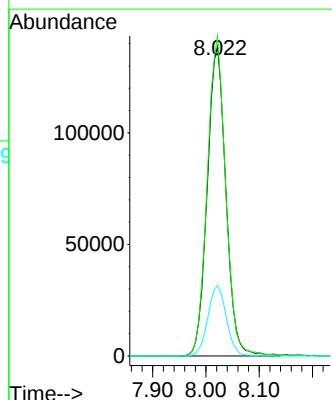
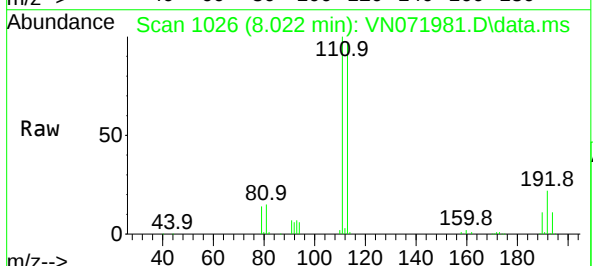
Tgt Ion:113 Resp: 338266

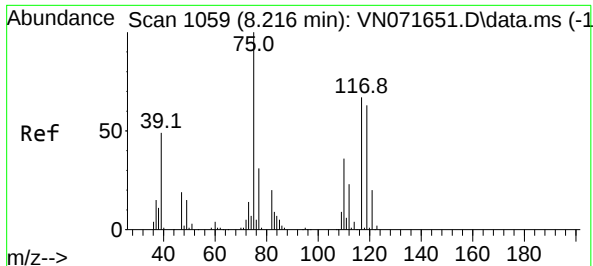
Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

192 22.5 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.743 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.130 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

DEL-5

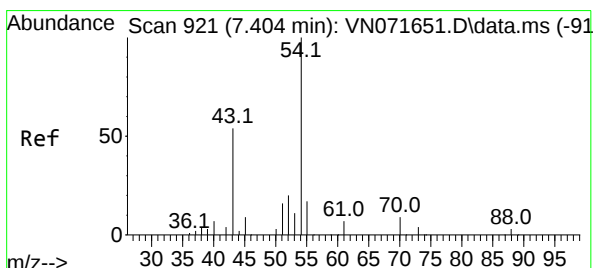
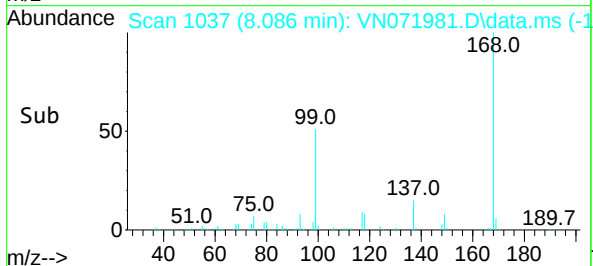
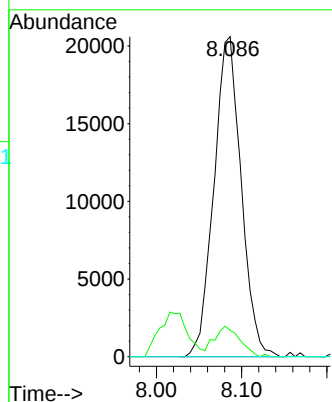
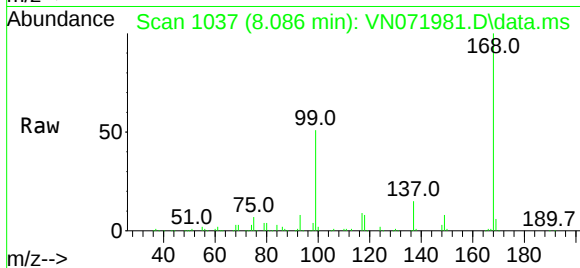
Tgt Ion: 75 Resp: 45777

Ion Ratio Lower Upper

75 100

110 8.9 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 1.194 ug/l

RT: 7.345 min Scan# 911

Delta R.T. -0.059 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

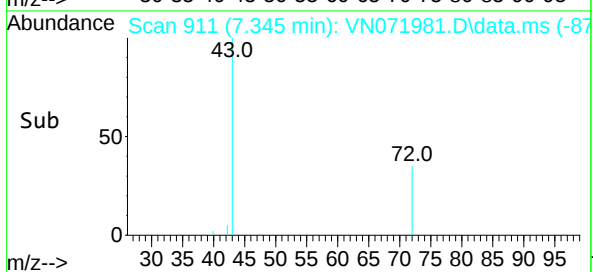
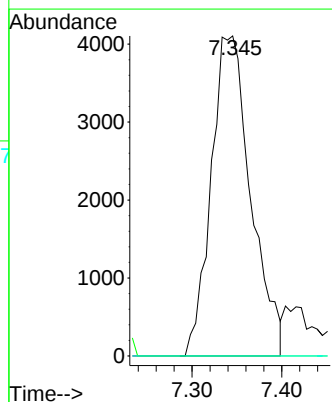
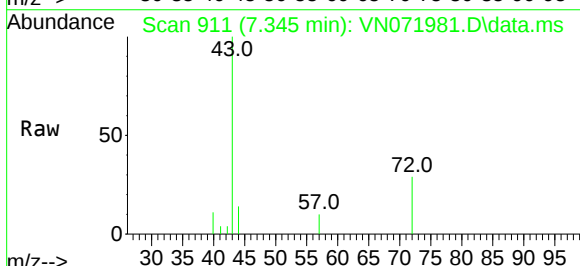
Tgt Ion: 43 Resp: 12615

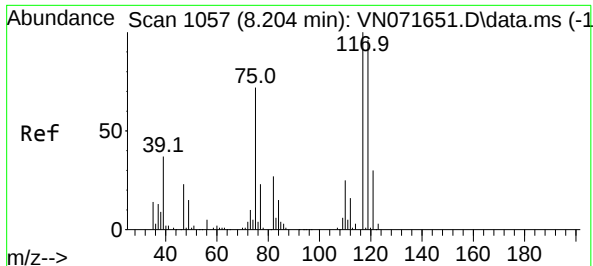
Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 9.3 13.9#

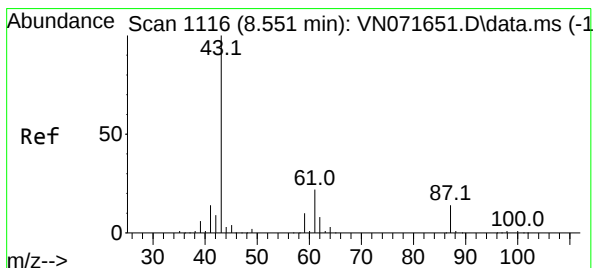
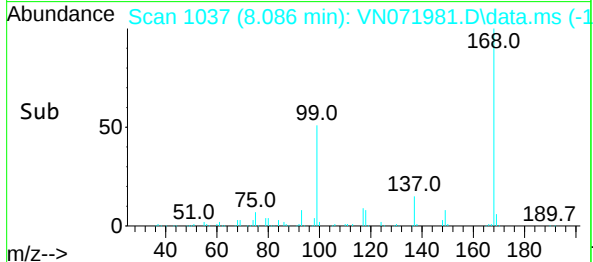
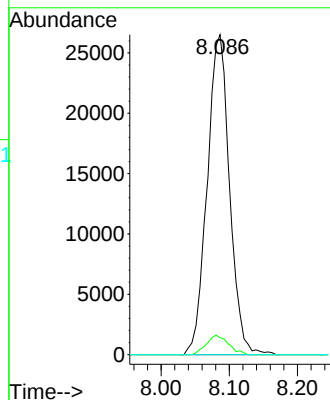
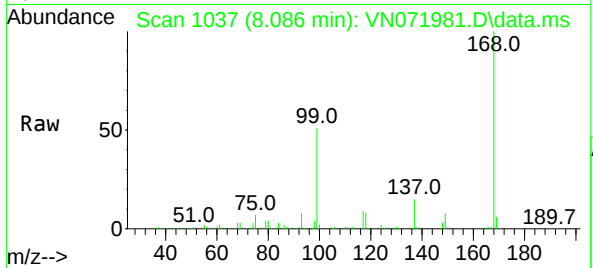




#38
Carbon Tetrachloride
Concen: 6.412 ug/l
RT: 8.086 min Scan# 1107
Delta R.T. -0.118 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

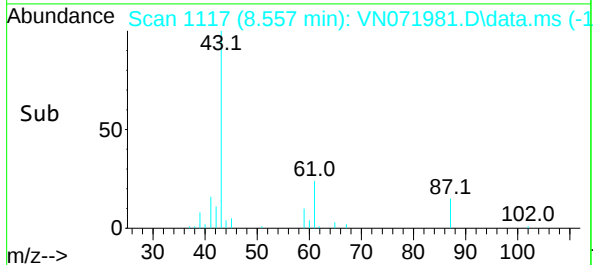
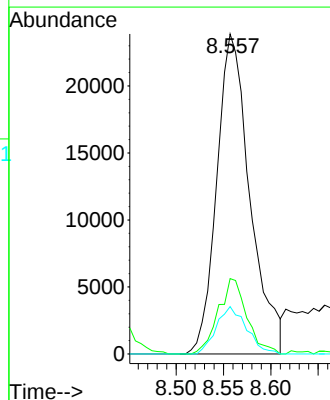
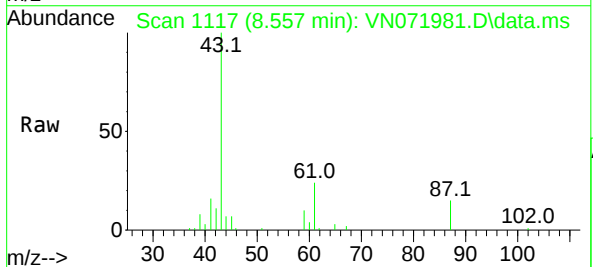
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

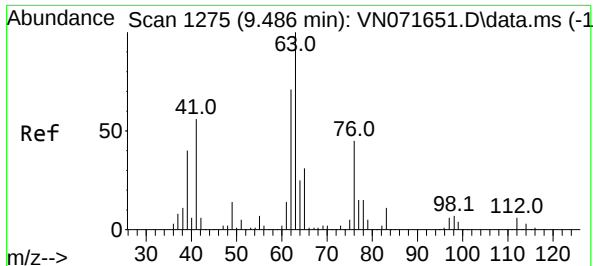
Tgt Ion:117 Resp: 60649
Ion Ratio Lower Upper
117 100
119 5.3 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 3.317 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 43 Resp: 58272
Ion Ratio Lower Upper
43 100
61 20.3 21.9 32.9#
87 13.4 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.517 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.136 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

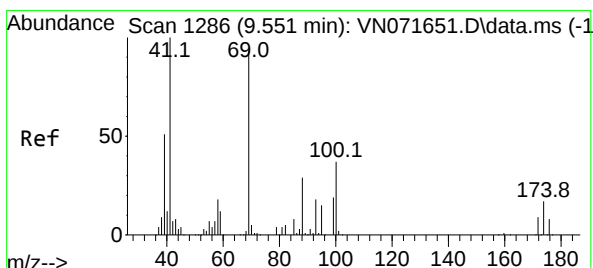
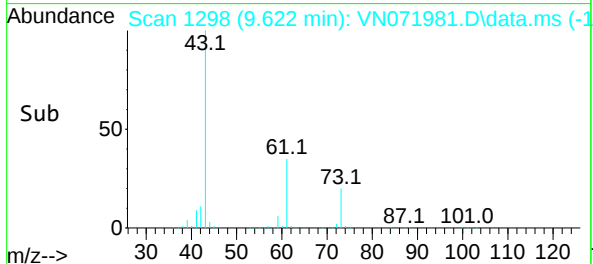
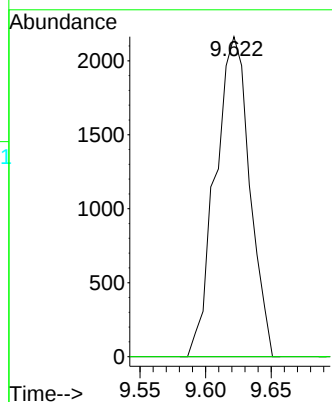
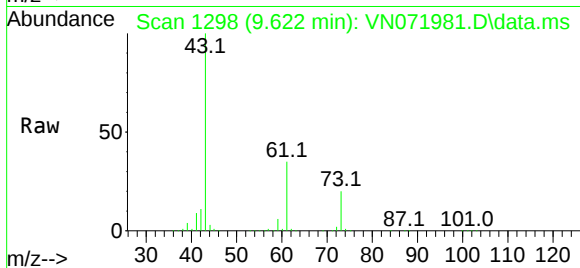
DEL-5

Tgt Ion: 63 Resp: 3940

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.344 ug/l

RT: 9.545 min Scan# 1285

Delta R.T. -0.006 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

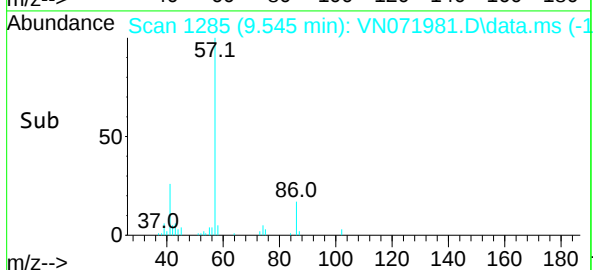
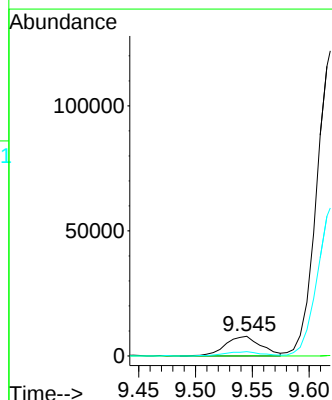
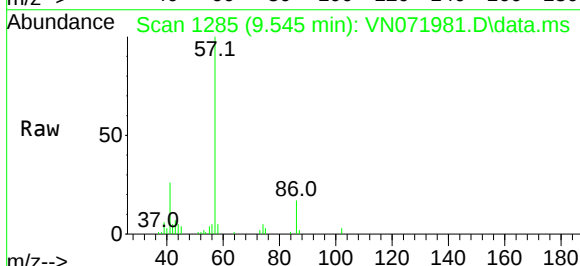
Tgt Ion: 41 Resp: 17088

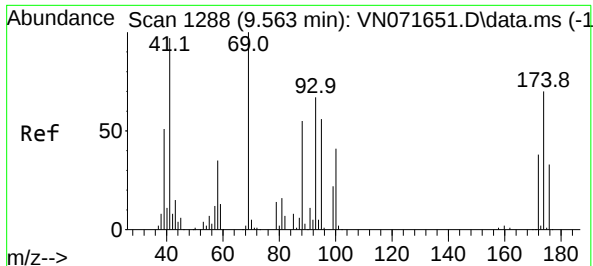
Ion Ratio Lower Upper

41 100

69 0.3 74.7 112.1#

39 22.5 45.6 68.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.616 min Scan# 1288

Delta R.T. 0.053 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

DEL-5

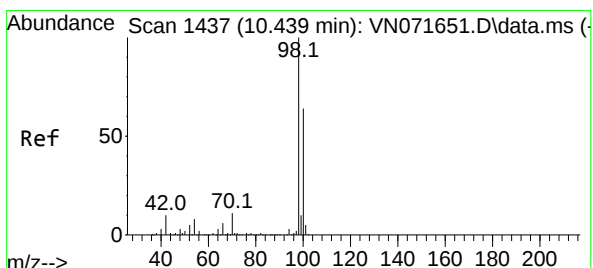
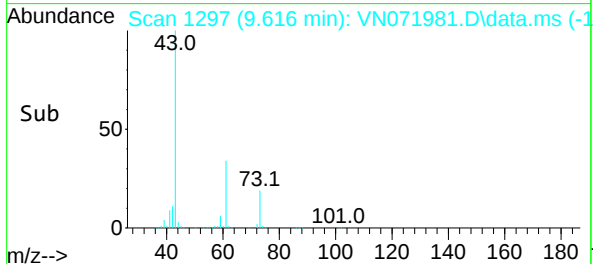
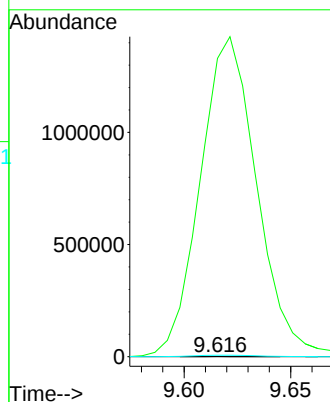
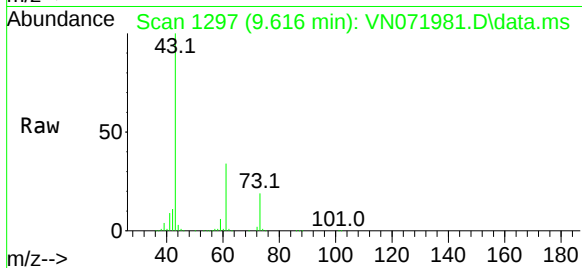
Tgt Ion: 88 Resp: 535

Ion Ratio Lower Upper

88 100

43 501932.9 20.2 30.4#

58 2680.4 54.2 81.4#



#50

Toluene-d8

Concen: 53.766 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN071981.D

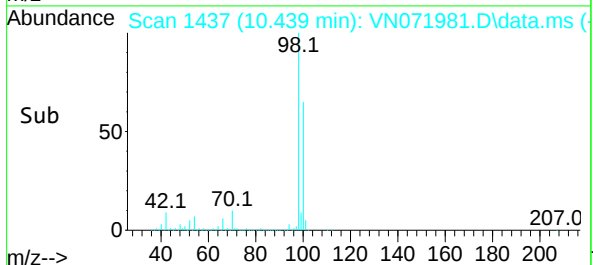
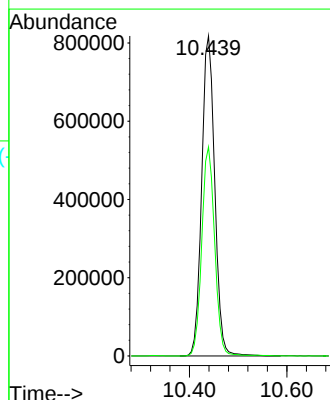
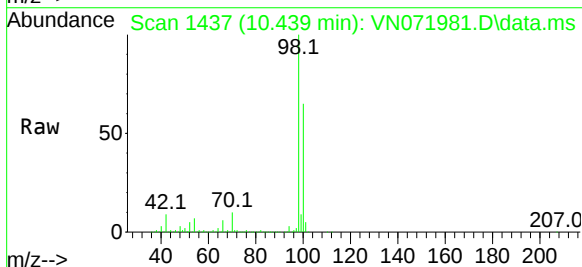
Acq: 13 Apr 2022 17:17

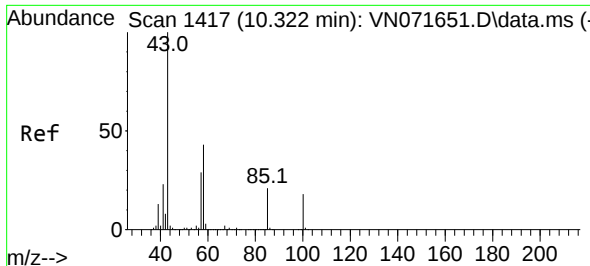
Tgt Ion: 98 Resp: 1520063

Ion Ratio Lower Upper

98 100

100 64.5 52.6 78.8

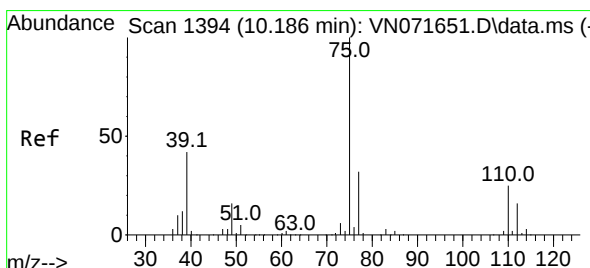
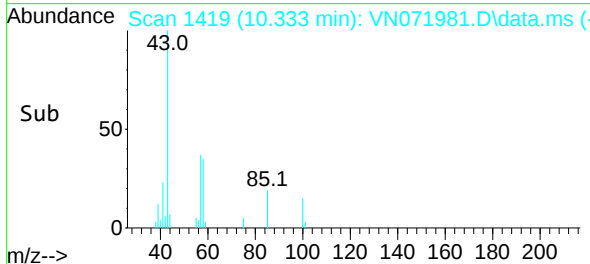
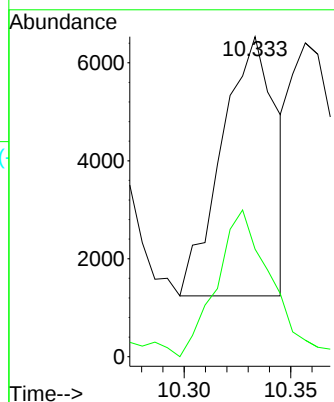
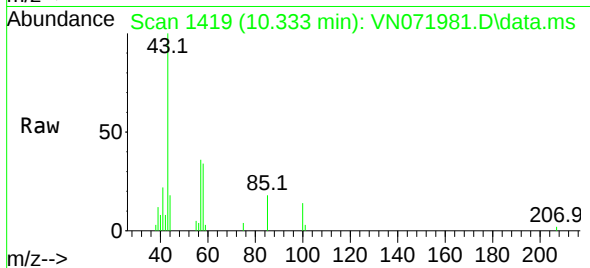




#51
4-Methyl-2-Pentanone
Concen: 0.927 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.011 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

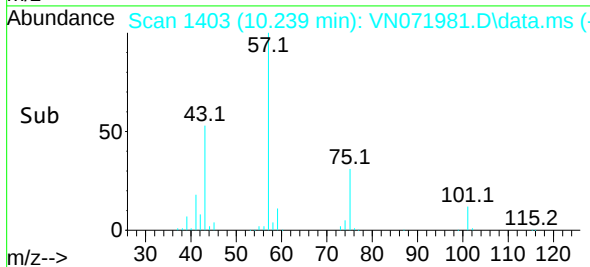
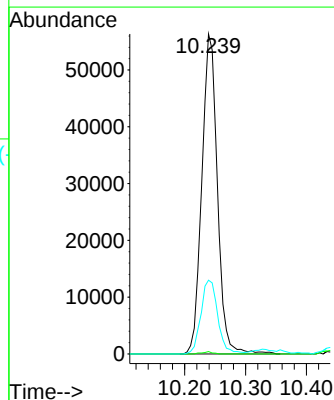
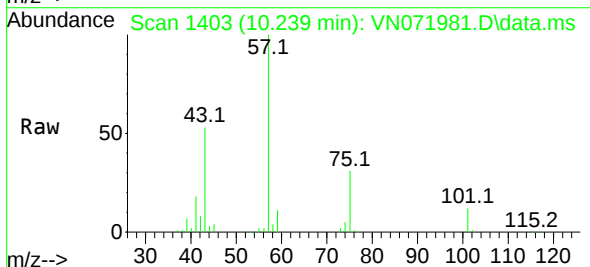
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

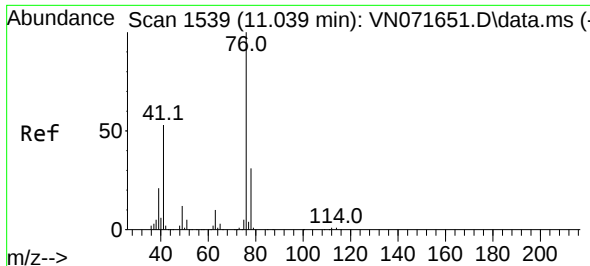
Tgt Ion: 43 Resp: 9366
Ion Ratio Lower Upper
43 100
58 56.2 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 8.506 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 75 Resp: 100268
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 23.1 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 4.622 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

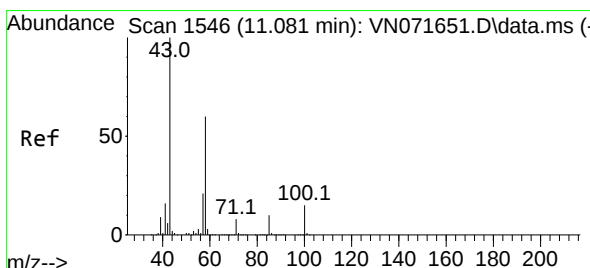
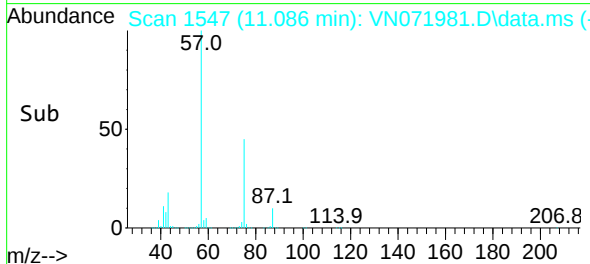
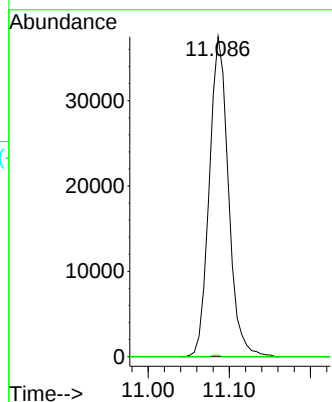
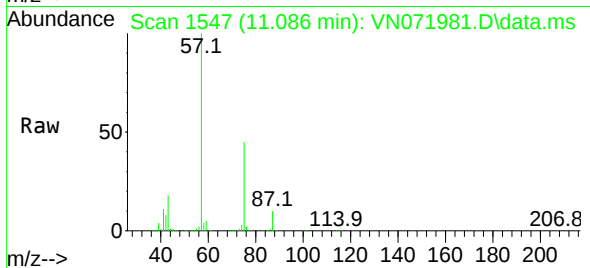
DEL-5

Tgt Ion: 76 Resp: 61294

Ion Ratio Lower Upper

76 100

78 0.2 26.2 39.2#



#59

2-Hexanone

Concen: 101.667 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.005 min

Lab File: VN071981.D

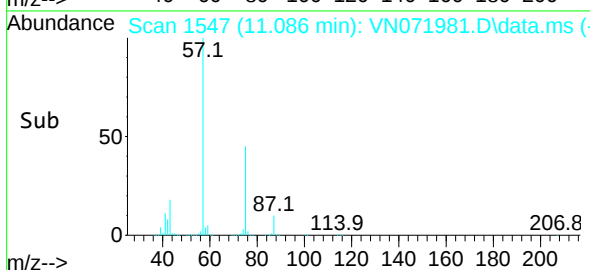
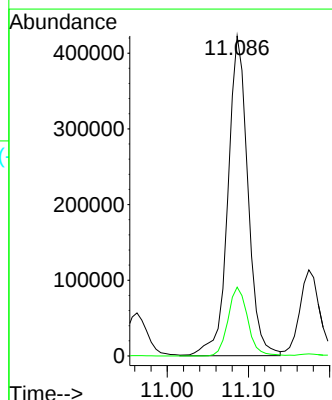
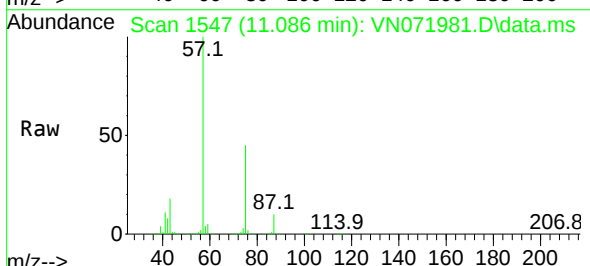
Acq: 13 Apr 2022 17:17

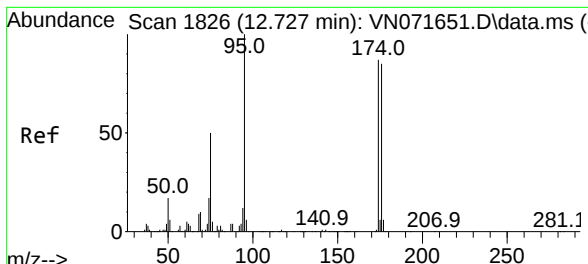
Tgt Ion: 43 Resp: 723083

Ion Ratio Lower Upper

43 100

58 21.1 29.7 89.1#

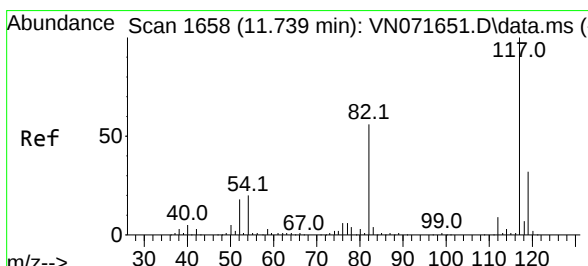
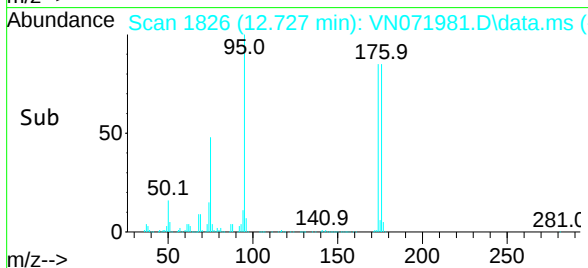
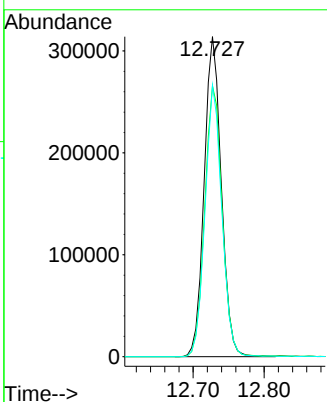
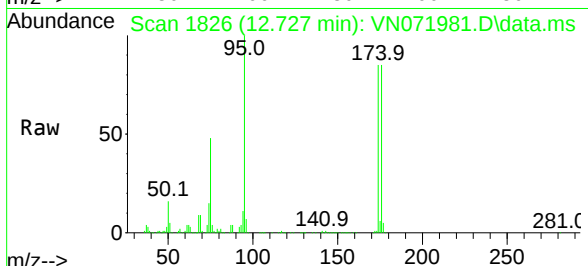




#62
 4-Bromofluorobenzene
 Concen: 57.520 ug/l
 RT: 12.727 min Scan# 1826
 Delta R.T. 0.000 min
 Lab File: VN071981.D
 Acq: 13 Apr 2022 17:17

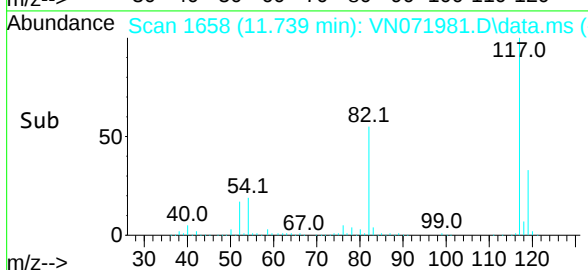
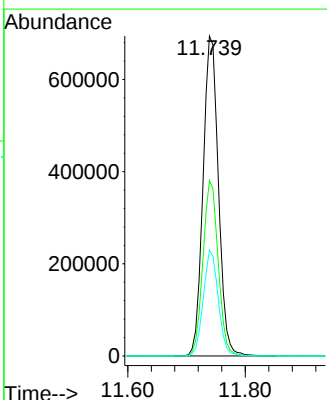
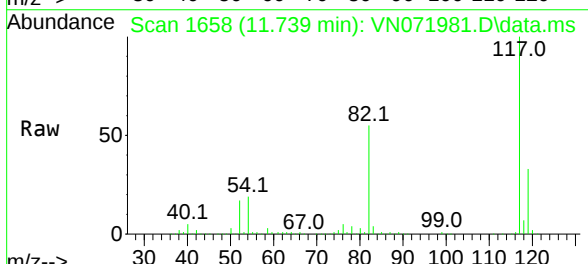
Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-5

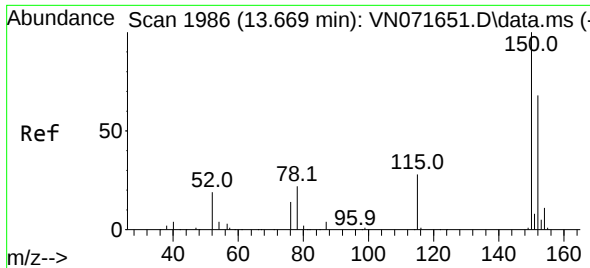
Tgt Ion:	95	Resp:	525935
Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	167.6
176	83.3	0.0	163.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.739 min Scan# 1658
 Delta R.T. 0.000 min
 Lab File: VN071981.D
 Acq: 13 Apr 2022 17:17

Tgt Ion:	117	Resp:	1258939
Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.2	66.2
119	33.1	25.4	38.0

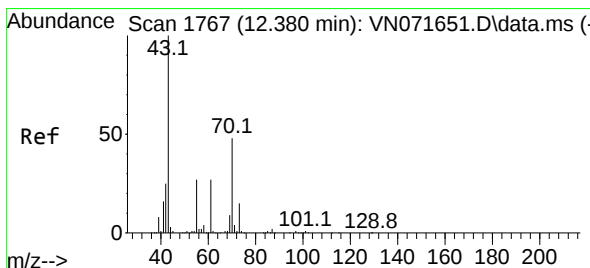
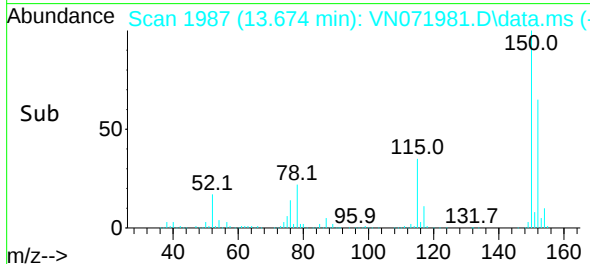
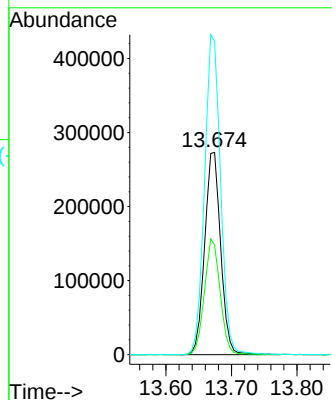
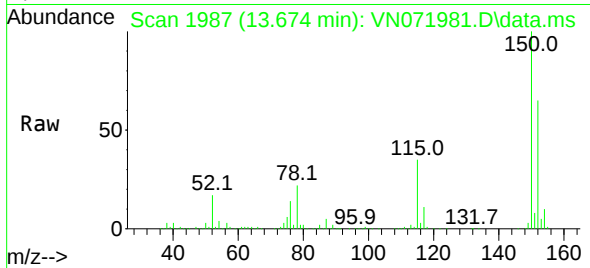




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1986
Delta R.T. 0.005 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

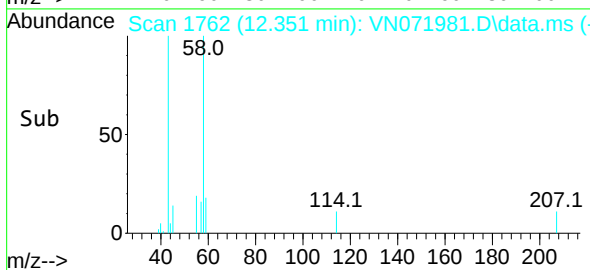
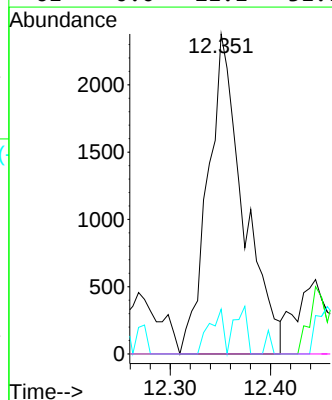
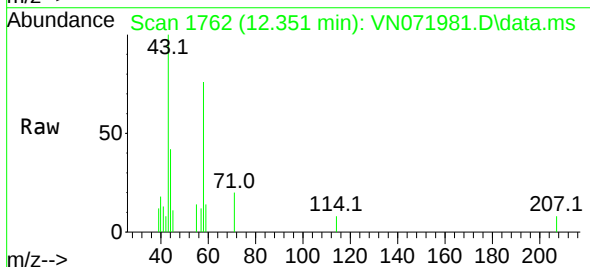
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

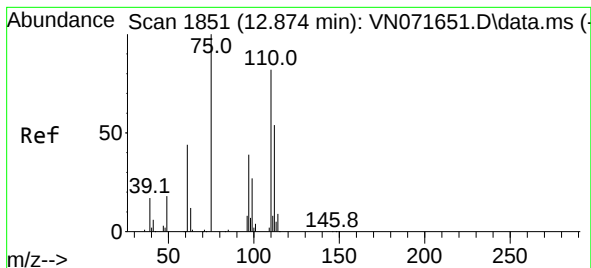
Tgt Ion:152 Resp: 465354
Ion Ratio Lower Upper
152 100
115 56.2 28.9 86.7
150 158.5 0.0 356.2



#74
N-ethyl acetate
Concen: 0.521 ug/l
RT: 12.351 min Scan# 1762
Delta R.T. -0.029 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 43 Resp: 5853
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 5.6 21.1 31.7#
61 0.0 21.1 31.7#

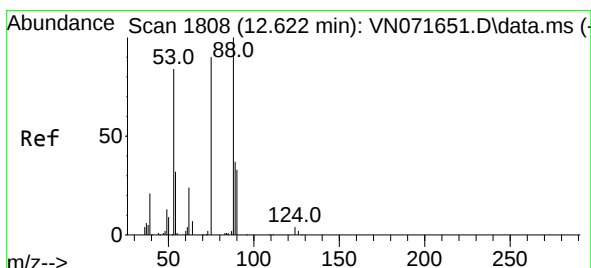
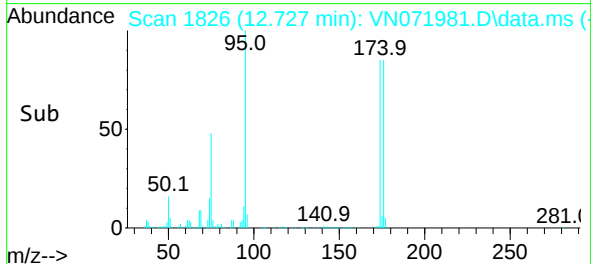
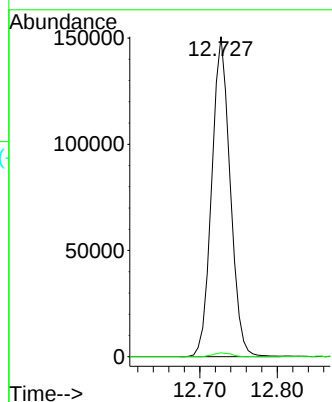
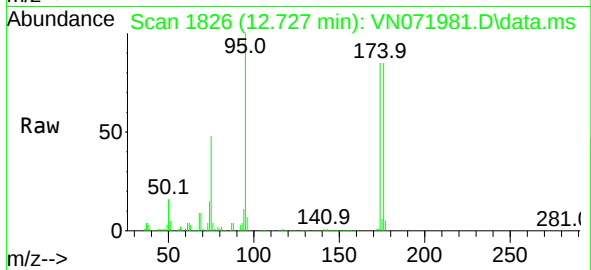




#76
1,2,3-Trichloropropane
Concen: 23.134 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

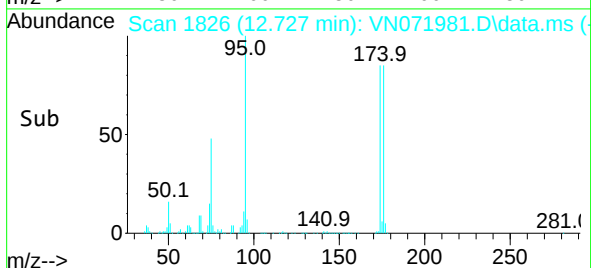
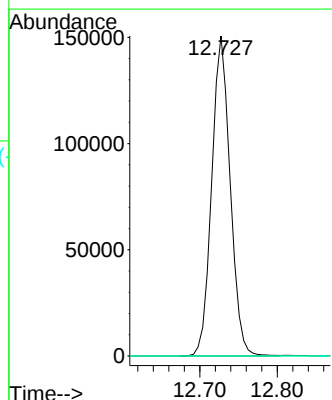
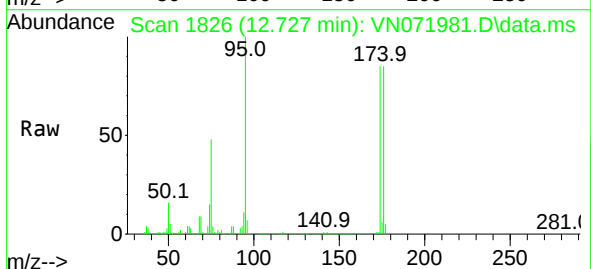
Instrument :
MSVOA_N
ClientSampleId :
DEL-5

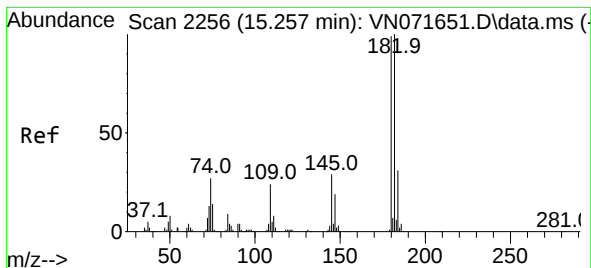
Tgt Ion: 75 Resp: 249395
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.693 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN071981.D
Acq: 13 Apr 2022 17:17

Tgt Ion: 75 Resp: 249395
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#93

1,2,4-Trichlorobenzene

Concen: 2.147 ug/l

RT: 15.262 min Scan# 2257

Delta R.T. 0.005 min

Lab File: VN071981.D

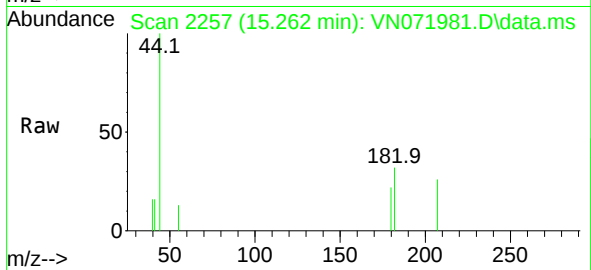
Acq: 13 Apr 2022 17:17

Instrument :

MSVOA_N

ClientSampleId :

DEL-5



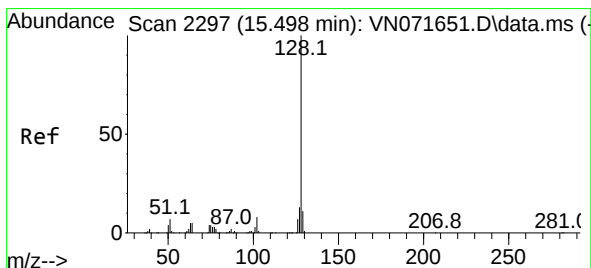
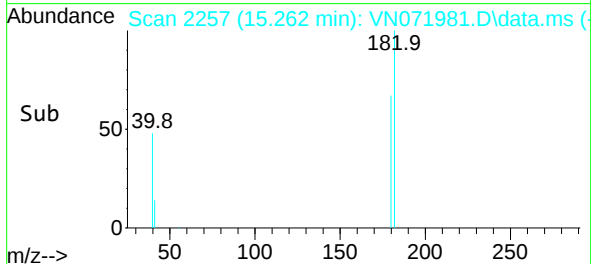
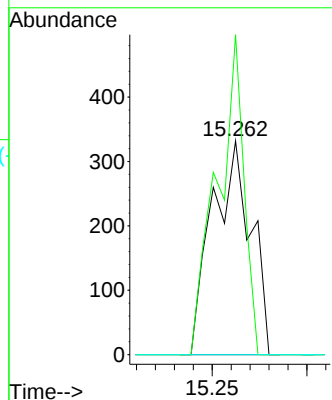
Tgt Ion:180 Resp: 471

Ion Ratio Lower Upper

180 100

182 103.6 47.5 142.5

145 0.0 14.5 43.5#



#95

Naphthalene

Concen: 3.908 ug/l

RT: 15.509 min Scan# 2299

Delta R.T. 0.011 min

Lab File: VN071981.D

Acq: 13 Apr 2022 17:17

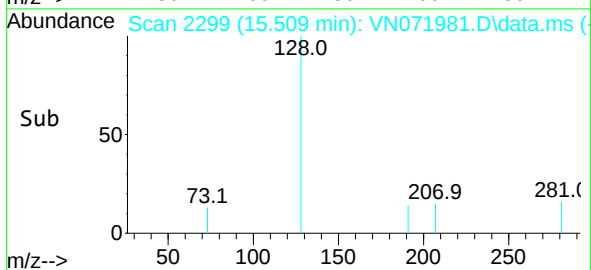
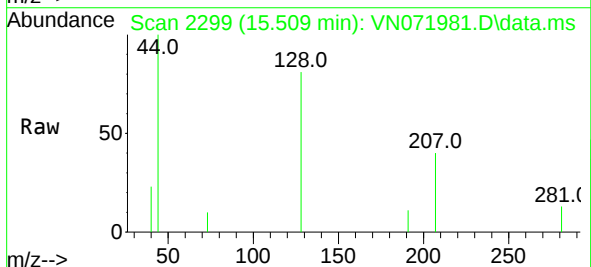
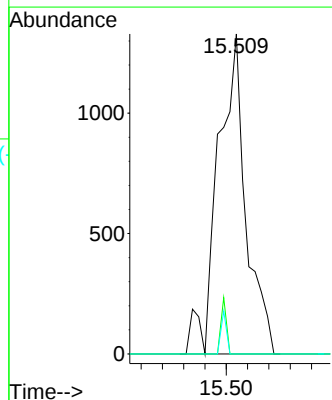
Tgt Ion:128 Resp: 2418

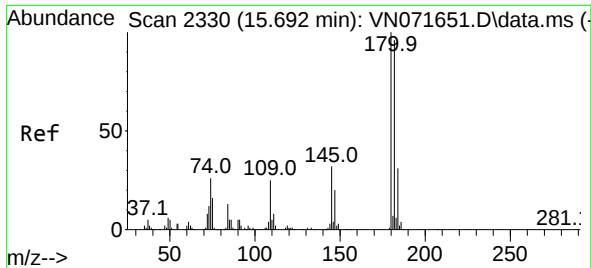
Ion Ratio Lower Upper

128 100

127 3.4 10.3 15.5#

129 2.6 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.477 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN071981.D
 Acq: 13 Apr 2022 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-5

Tgt Ion:180 Resp: 472
 Ion Ratio Lower Upper
 180 100
 182 137.1 47.8 143.3
 145 14.0 15.5 46.5#

