

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121621\
 Data File : VX025822.D
 Acq On : 15 Dec 2021 18:13
 Operator : JC/MD
 Sample : PB141382ZHE#02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB141382ZHE#02

Quant Time: Dec 16 07:30:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 14 07:02:11 2021
 Response via : Initial Calibration

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

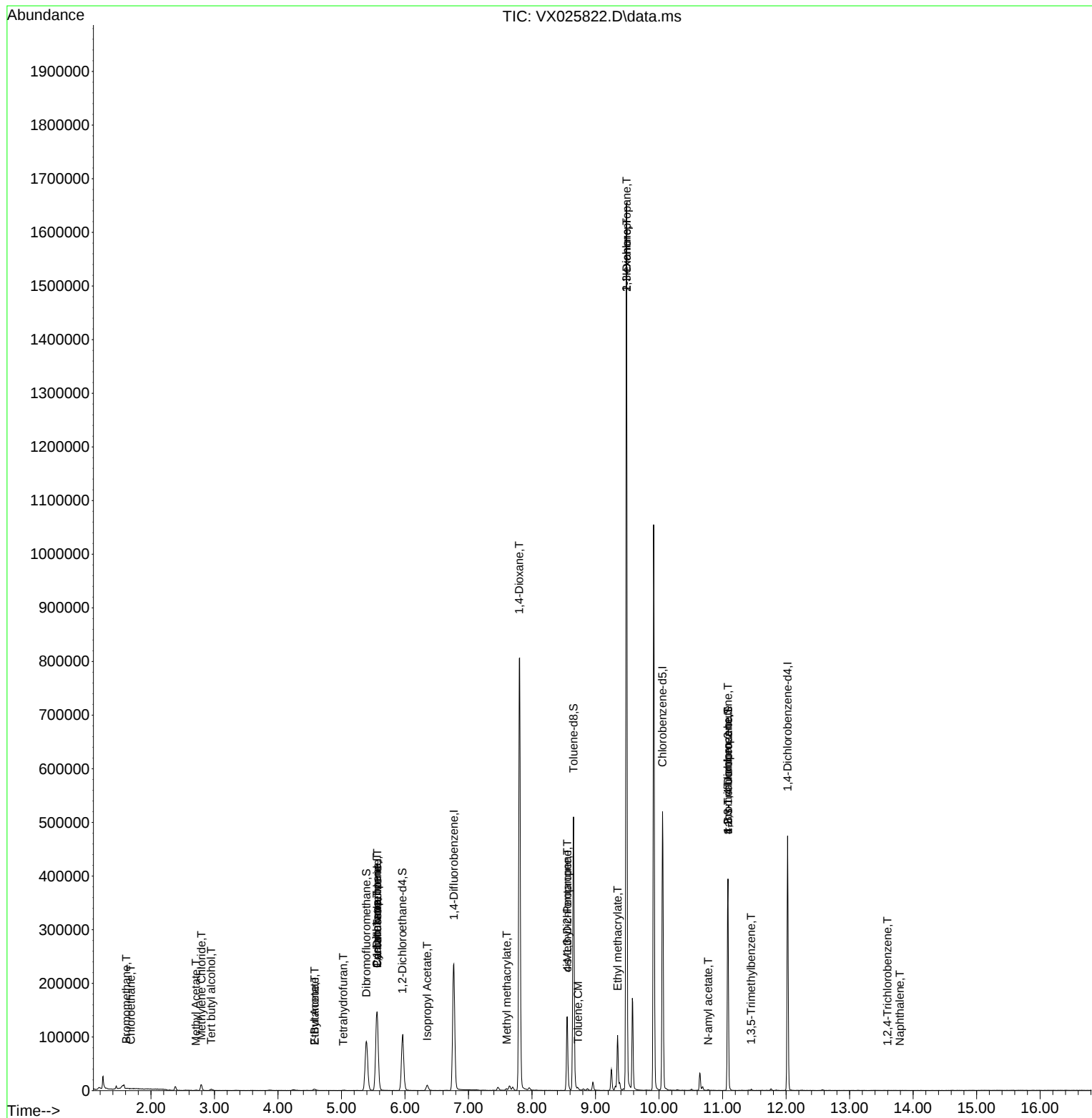
Internal Standards						
1) Pentafluorobenzene	5.562	168	139866	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	242525	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	235595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	94754	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	95227	47.320	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.640%		
35) Dibromofluoromethane	5.391	113	79314	46.893	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.780%		
50) Toluene-d8	8.653	98	296439	48.103	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.200%		
62) 4-Bromofluorobenzene	11.085	95	102657	43.853	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.700%		
Target Compounds						Qvalue
5) Bromomethane	1.611	94	328	0.265	ug/l #	73
6) Chloroethane	1.685	64	298	0.237	ug/l #	42
11) Tert butyl alcohol	2.946	59	1803	4.466	ug/l #	73
16) Acetone	2.380	43	7600	Below Cal		98
18) Methyl Acetate	2.709	43	1016	0.331	ug/l	91
20) Methylene Chloride	2.794	84	5004	0.513	ug/l	94
25) 2-Butanone	4.574	43	4268	3.153	ug/l #	89
29) Tetrahydrofuran	5.025	42	295	0.343	ug/l #	44
31) Cyclohexane	5.556	56	3383	1.382	ug/l #	42
36) 1,1-Dichloropropene	5.556	75	11383	4.963	ug/l #	50
37) Ethyl Acetate	4.574	43	4268	1.675	ug/l #	70
38) Carbon Tetrachloride	5.562	117	14777	5.537	ug/l #	16
43) Isopropyl Acetate	6.348	43	12829	3.125	ug/l	97
48) Methyl methacrylate	7.604	41	4351	2.250	ug/l #	12
49) 1,4-Dioxane	7.799	88	63	1.493	ug/l #	1
51) 4-Methyl-2-Pentanone	8.555	43	49022	18.240	ug/l #	50
52) Toluene	8.726	92	923	0.212	ug/l	92
54) cis-1,3-Dichloropropene	8.555	75	22730	8.236	ug/l #	63
56) Ethyl methacrylate	9.348	69	600	0.223	ug/l #	1
57) 1,3-Dichloropropane	9.488	76	14572	4.752	ug/l #	42
59) 2-Hexanone	9.488	43	191271	93.926	ug/l #	51
74) N-amyl acetate	10.774	43	1126	0.407	ug/l #	46
76) 1,2,3-Trichloropropane	11.085	75	51412	23.681	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.451	105	1209	0.212	ug/l	86
81) trans-1,4-Dichloro-2-b...	11.085	75	51412	73.419	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.597	180	19	3.380	ug/l #	13
95) Naphthalene	13.792	128	52	2.419	ug/l #	69

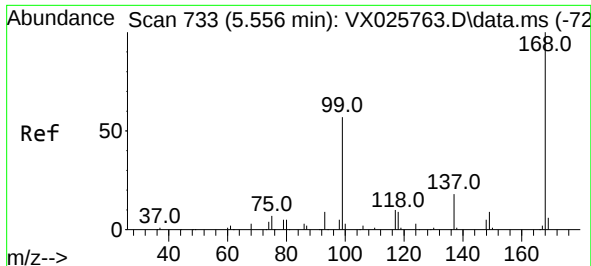
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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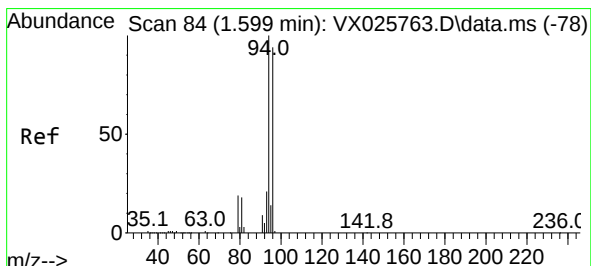
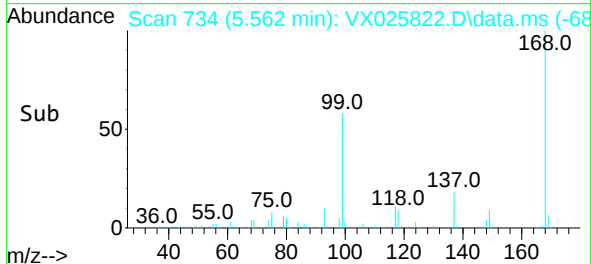
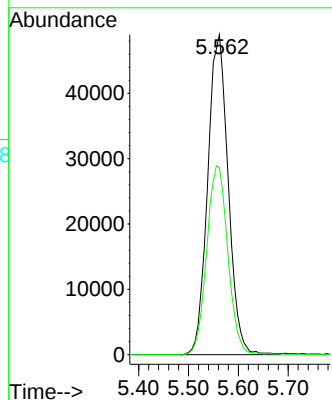
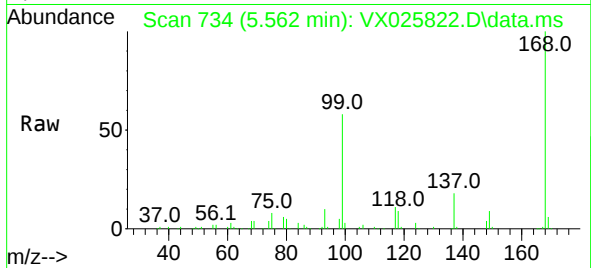




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

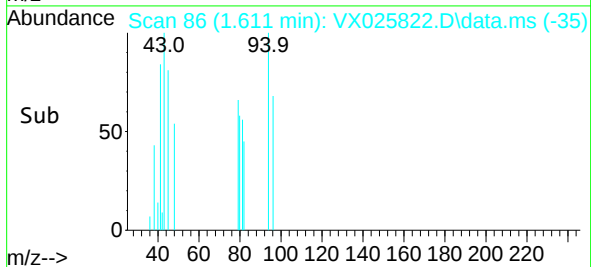
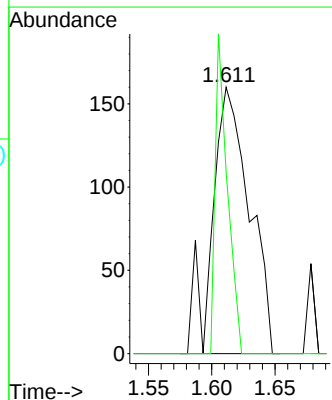
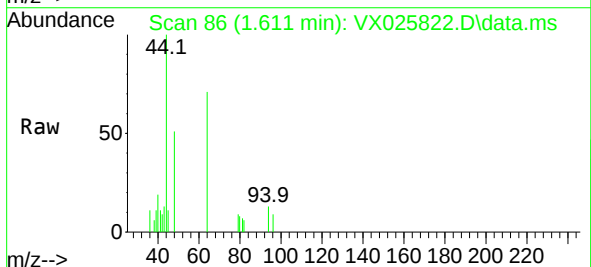
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

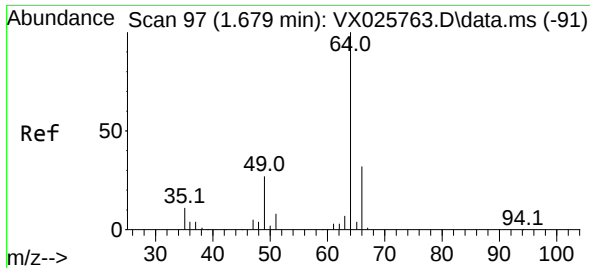
Tgt Ion:168 Resp: 139866
Ion Ratio Lower Upper
168 100
99 58.5 45.8 68.8



#5
Bromomethane
Concen: 0.265 ug/l
RT: 1.611 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 94 Resp: 328
Ion Ratio Lower Upper
94 100
96 68.1 75.0 112.4#

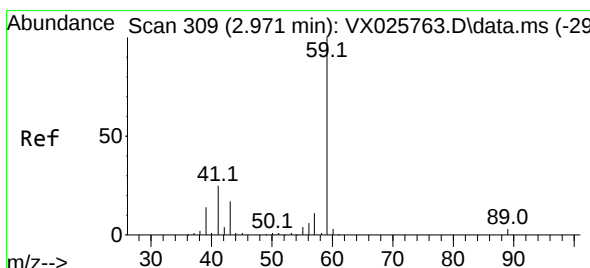
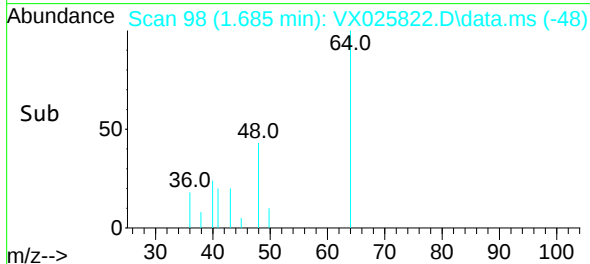
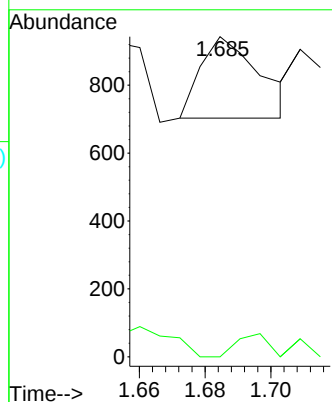
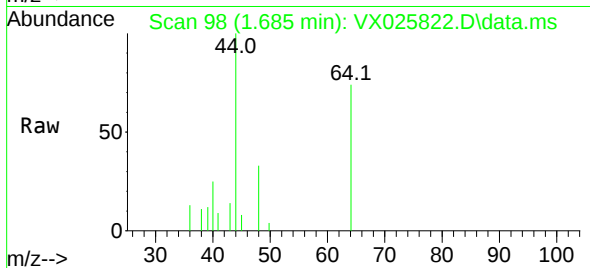




#6
Chloroethane
Concen: 0.237 ug/l
RT: 1.685 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

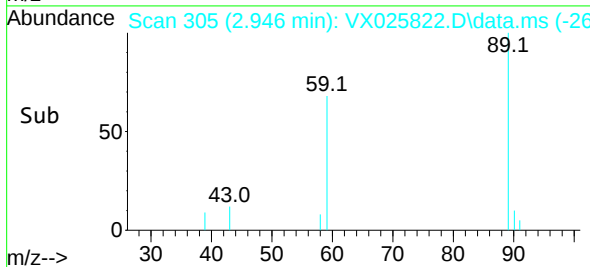
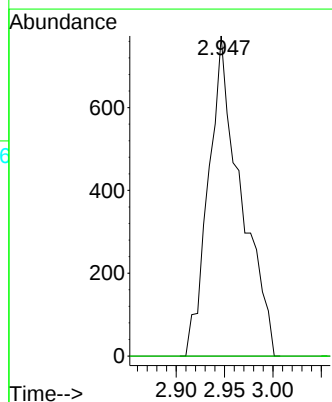
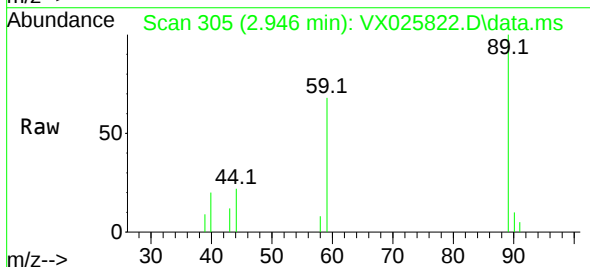
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

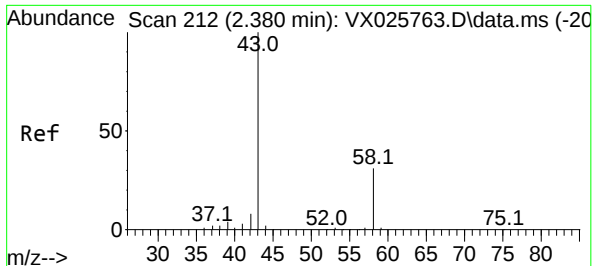
Tgt Ion: 64 Resp: 298
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#



#11
Tert butyl alcohol
Concen: 4.466 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.025 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 59 Resp: 1803
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

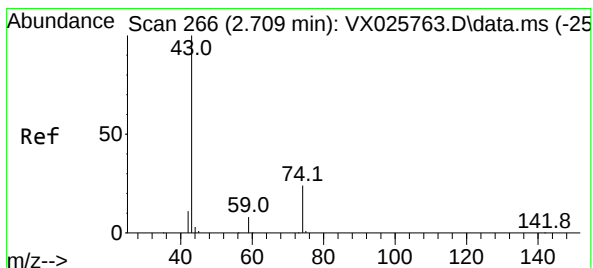
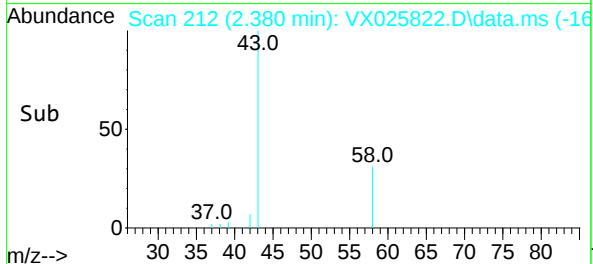
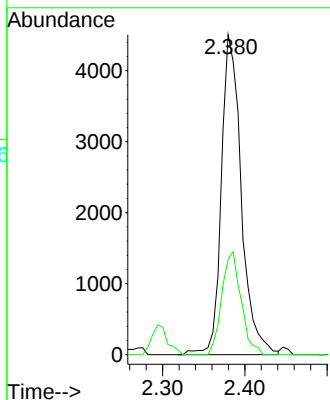
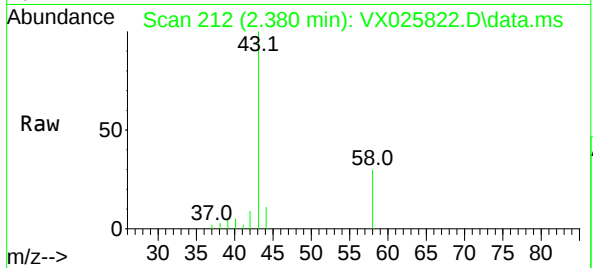




#16
Acetone
Concen: Below Cal
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

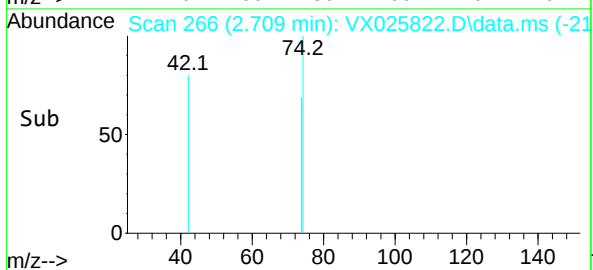
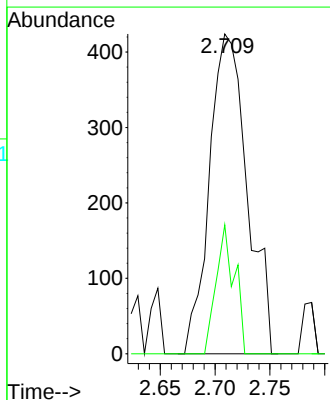
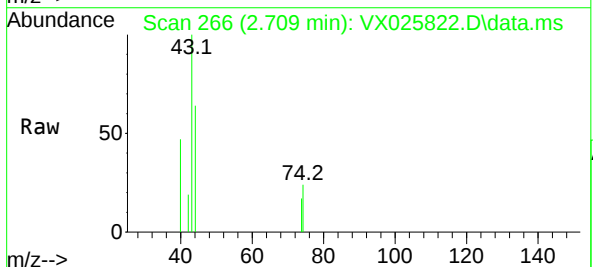
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

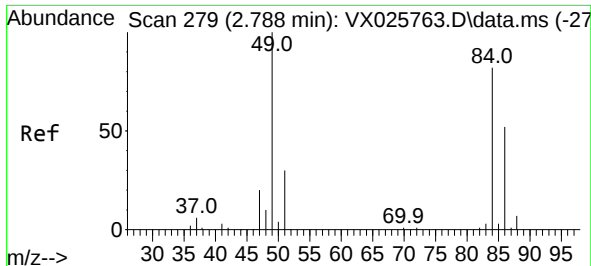
Tgt Ion: 43 Resp: 7600
Ion Ratio Lower Upper
43 100
58 29.8 24.8 37.2



#18
Methyl Acetate
Concen: 0.331 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
74 19.7 19.1 28.7

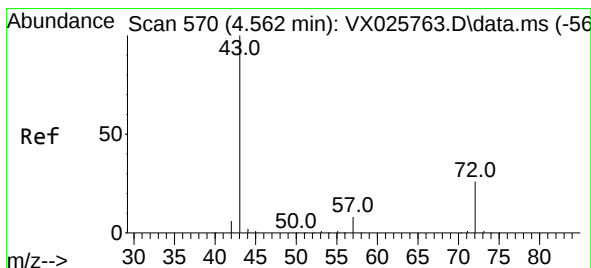
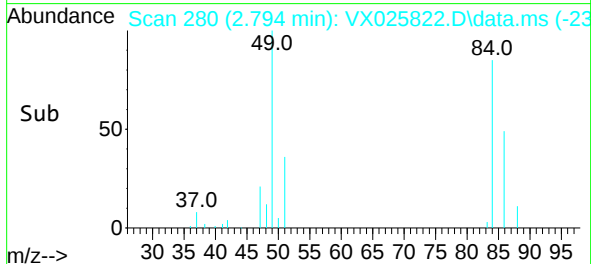
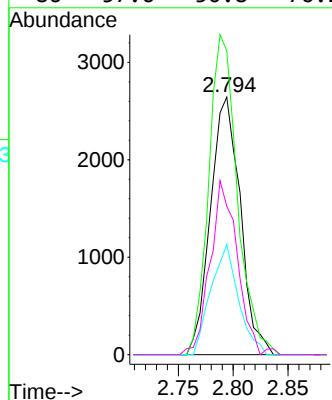
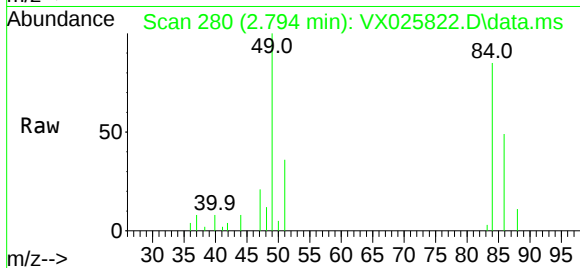




#20
Methylene Chloride
Concen: 0.513 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

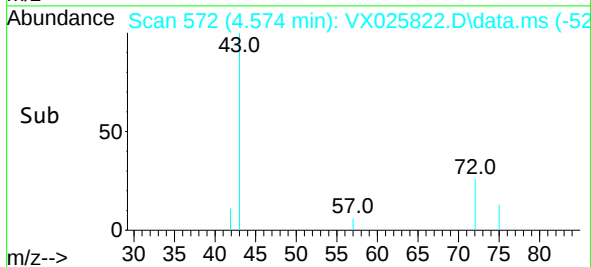
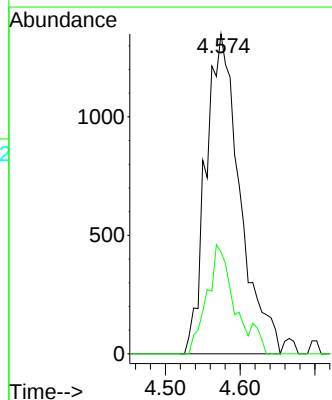
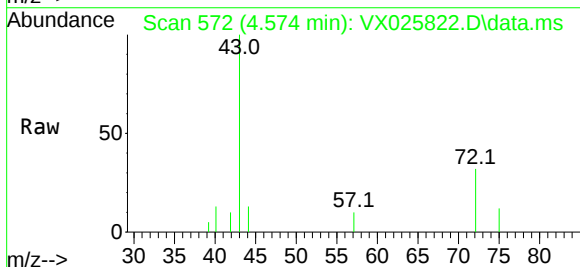
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

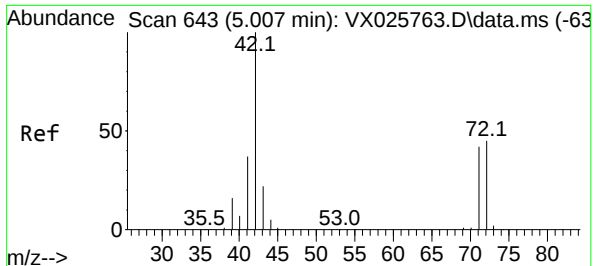
Tgt Ion:	84	Resp:	5004
Ion	Ratio	Lower	Upper
84	100		
49	118.0	97.1	145.7
51	42.7	29.3	43.9
86	57.6	50.8	76.2



#25
2-Butanone
Concen: 3.153 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.012 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion:	43	Resp:	4268
Ion	Ratio	Lower	Upper
43	100		
72	31.9	21.0	31.4#





#29

Tetrahydrofuran

Concen: 0.343 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX025822.D

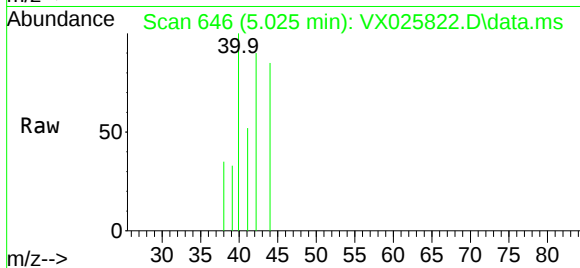
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Instrument :

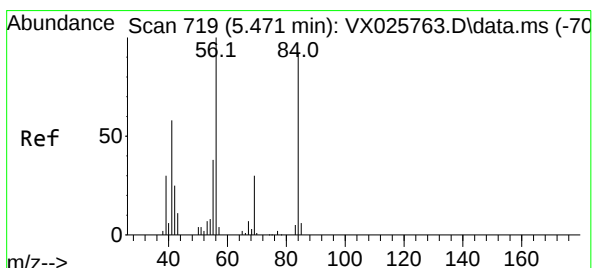
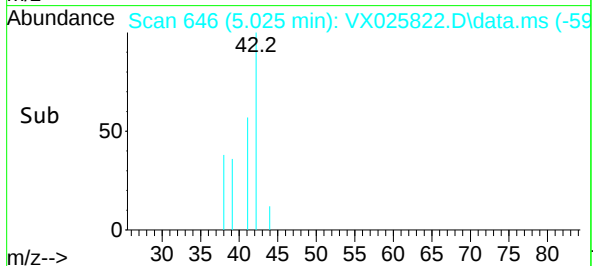
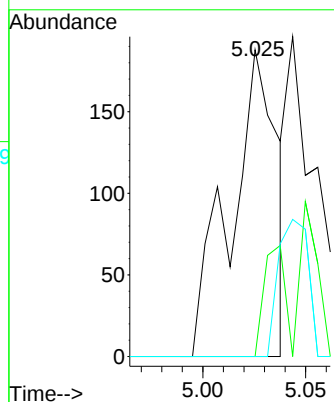
MSVOA_X

ClientSampleId :

PB141382ZHE#02



Tgt Ion:	42	Resp:	295
Ion Ratio	Lower	Upper	
42	100		
72	16.3	37.0	55.6#
71	0.0	34.1	51.1#



#31

Cyclohexane

Concen: 1.382 ug/l

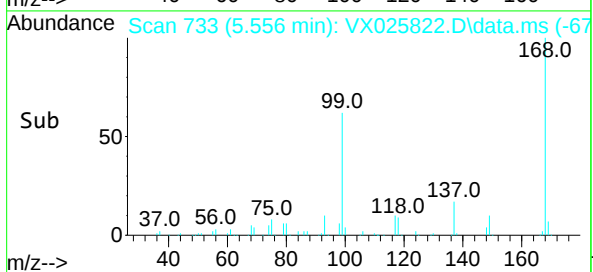
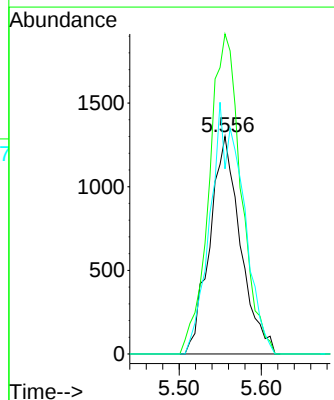
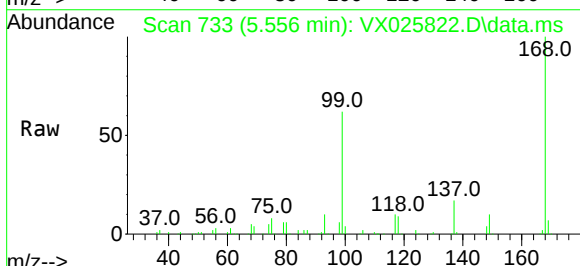
RT: 5.556 min Scan# 733

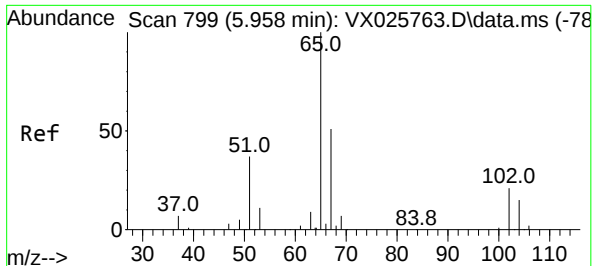
Delta R.T. 0.085 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

Tgt Ion:	56	Resp:	3383
Ion Ratio	Lower	Upper	
56	100		
69	147.2	23.9	35.9#
84	85.2	73.2	109.8





#33

1,2-Dichloroethane-d4

Concen: 47.320 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

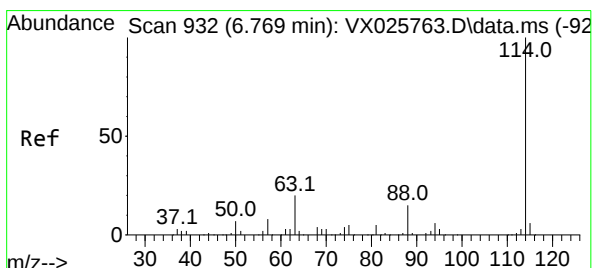
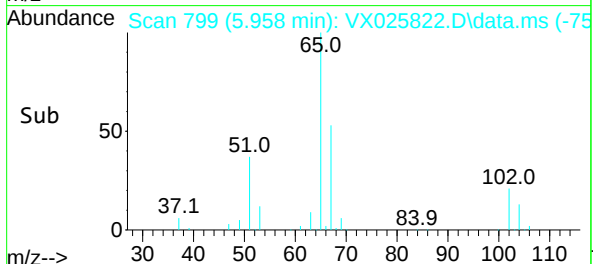
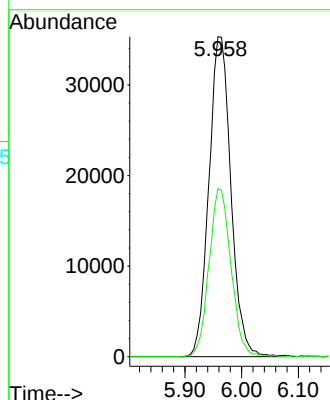
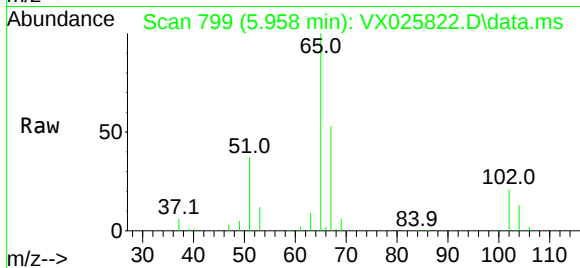
PB141382ZHE#02

Tgt Ion: 65 Resp: 95227

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

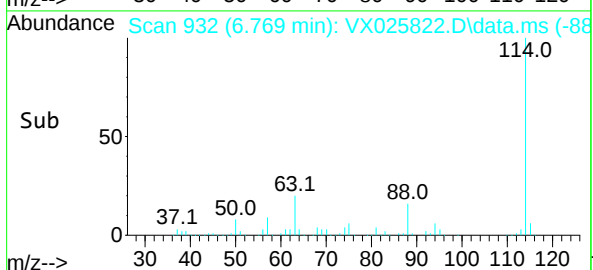
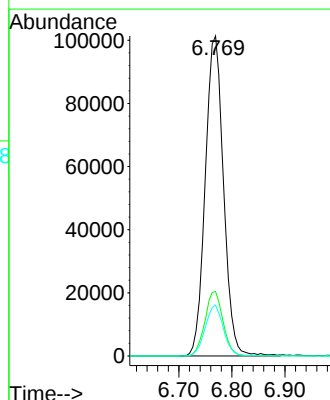
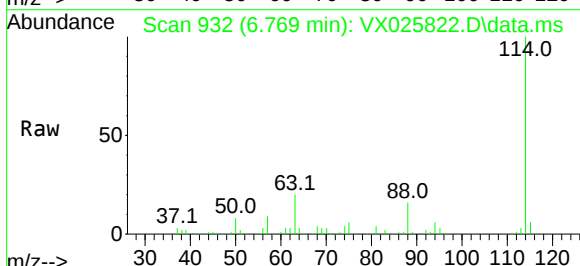
Tgt Ion: 114 Resp: 242525

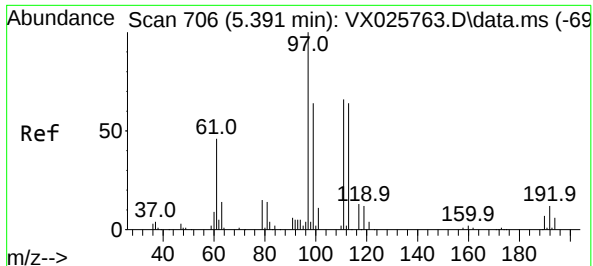
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

88 15.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 46.893 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX025822.D

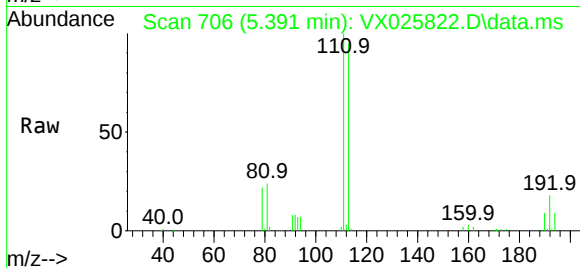
Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB141382ZHE#02



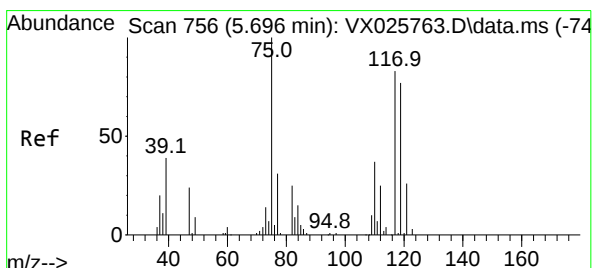
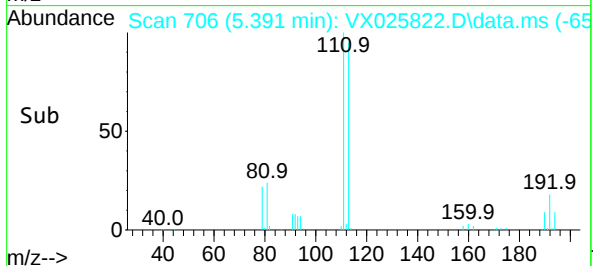
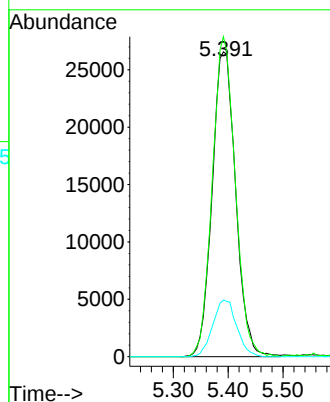
Tgt Ion:113 Resp: 79314

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

192 18.9 15.0 22.4



#36

1,1-Dichloropropene

Concen: 4.963 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

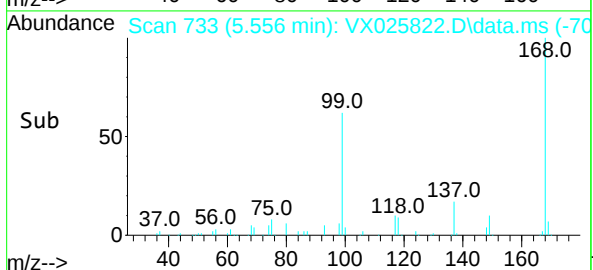
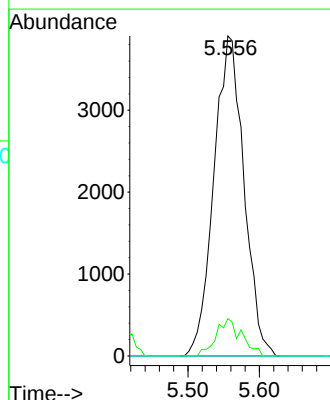
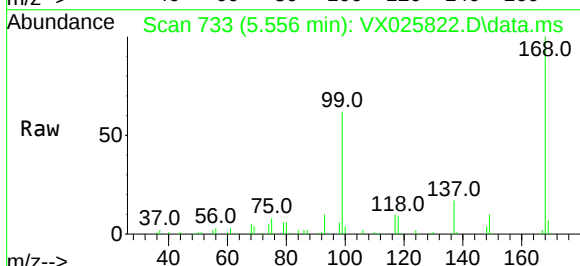
Tgt Ion: 75 Resp: 11383

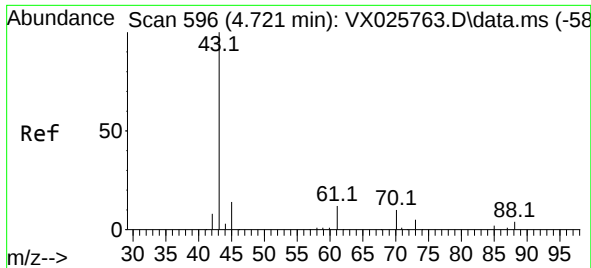
Ion Ratio Lower Upper

75 100

110 9.9 18.2 54.6#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.675 ug/l

RT: 4.574 min Scan# 51

Delta R.T. -0.147 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB141382ZHE#02

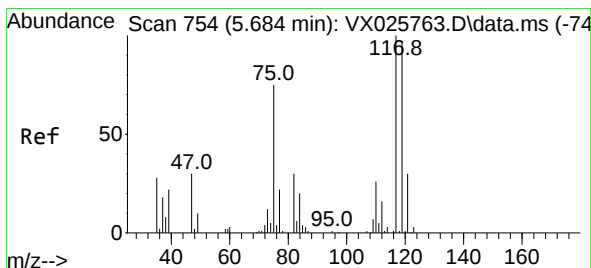
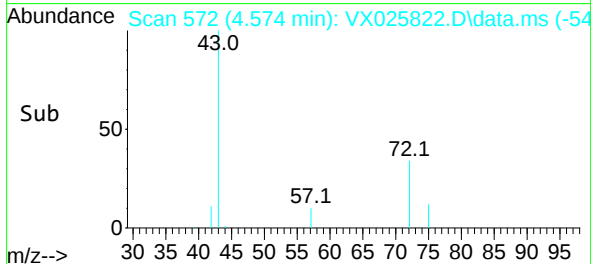
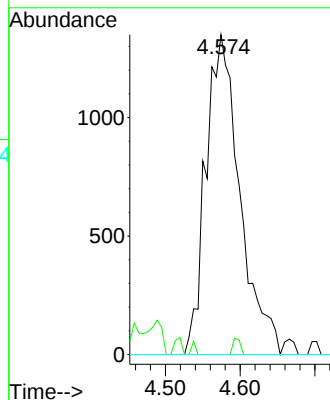
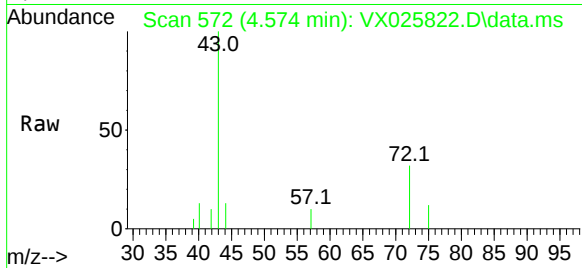
Tgt Ion: 43 Resp: 4268

Ion Ratio Lower Upper

43 100

61 1.1 10.7 16.1#

70 0.0 8.5 12.7#



#38

Carbon Tetrachloride

Concen: 5.537 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.122 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

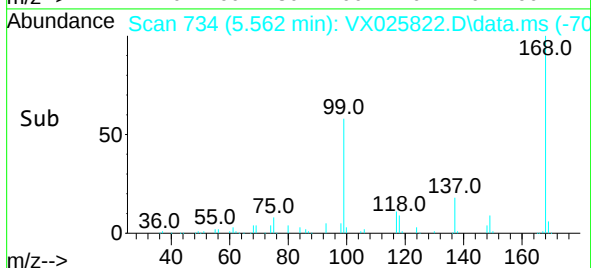
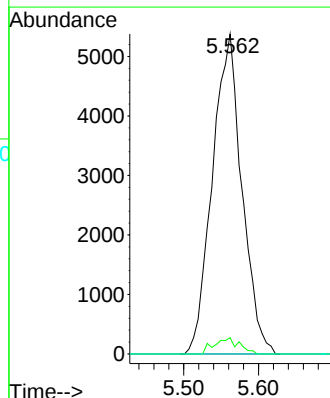
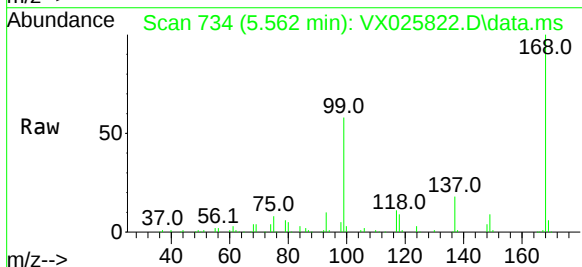
Tgt Ion: 117 Resp: 14777

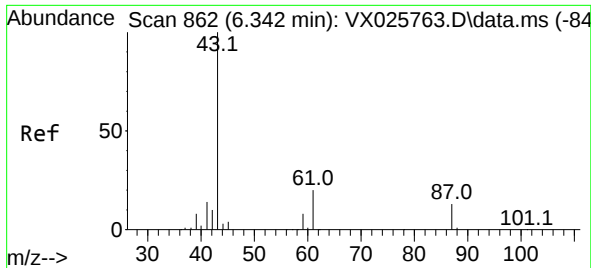
Ion Ratio Lower Upper

117 100

119 5.1 77.2 115.8#

121 0.0 23.8 35.8#

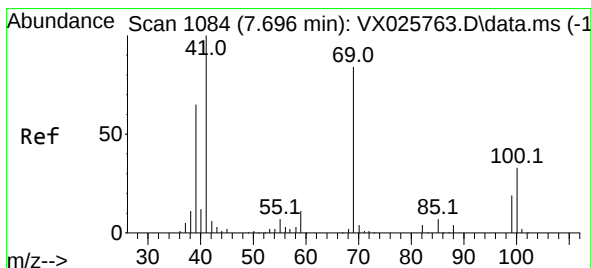
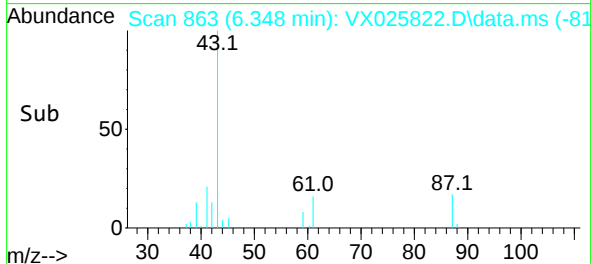
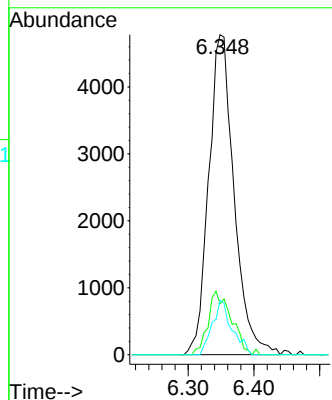
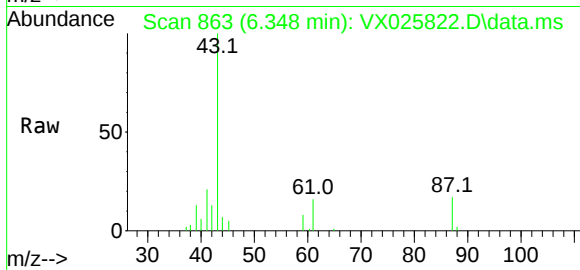




#43
Isopropyl Acetate
Concen: 3.125 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.006 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

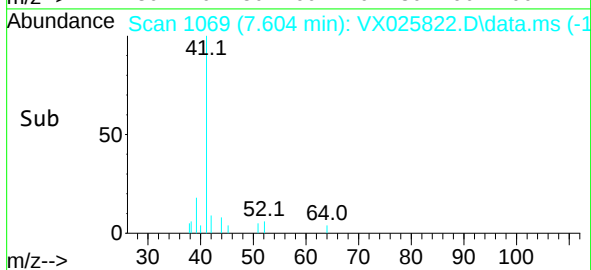
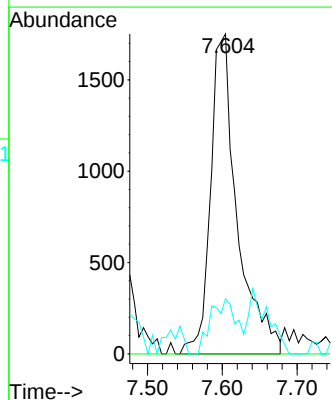
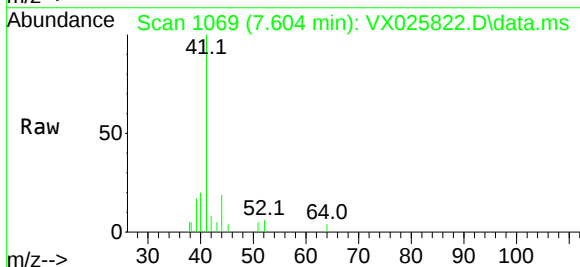
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

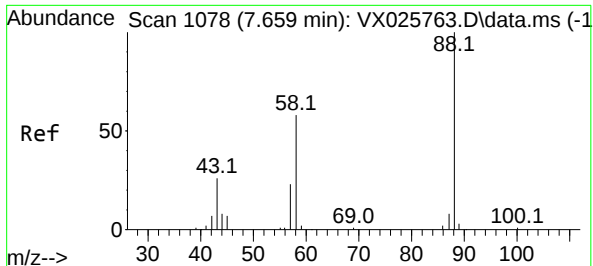
Tgt Ion: 43 Resp: 12829
Ion Ratio Lower Upper
43 100
61 18.2 15.7 23.5
87 13.2 11.2 16.8



#48
Methyl methacrylate
Concen: 2.250 ug/l
RT: 7.604 min Scan# 1069
Delta R.T. -0.092 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 41 Resp: 4351
Ion Ratio Lower Upper
41 100
69 0.0 67.3 100.9#
39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 1.493 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB141382ZHE#02

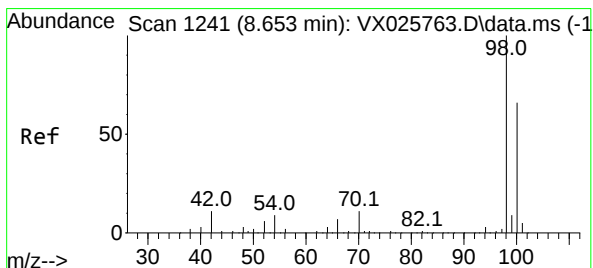
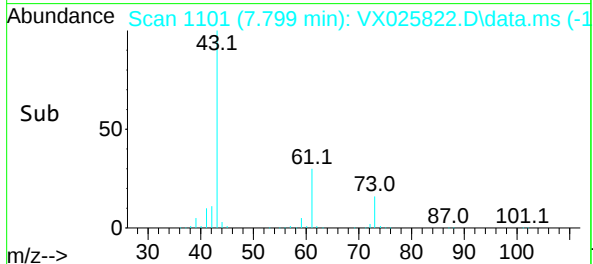
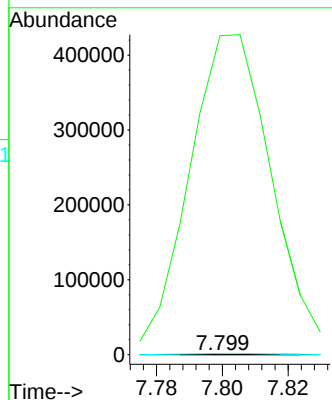
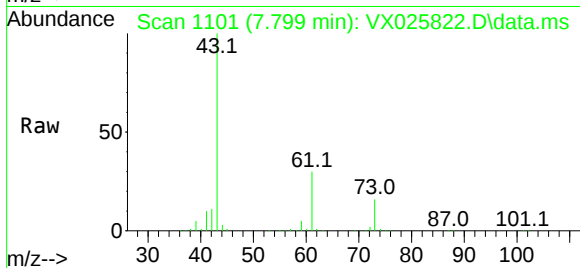
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 1210727.0 25.3 37.9#

58 5557.1 51.8 77.6#



#50

Toluene-d8

Concen: 48.103 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX025822.D

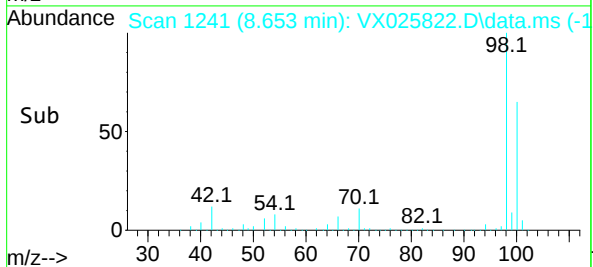
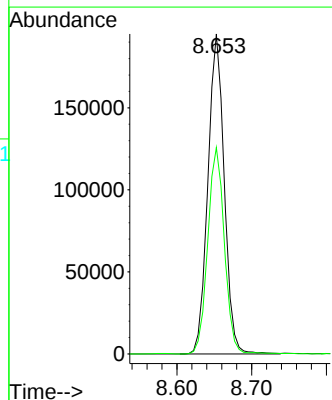
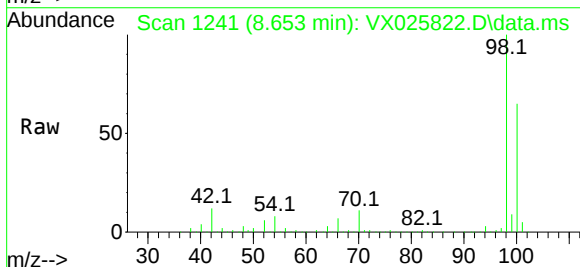
Acq: 15 Dec 2021 18:13

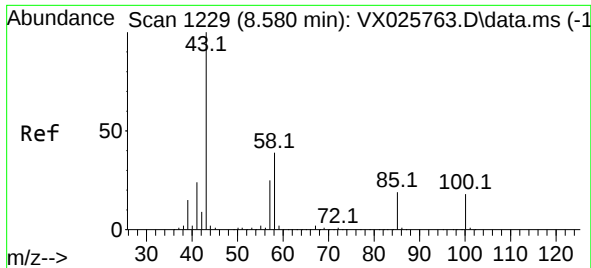
Tgt Ion: 98 Resp: 296439

Ion Ratio Lower Upper

98 100

100 65.8 52.6 78.8

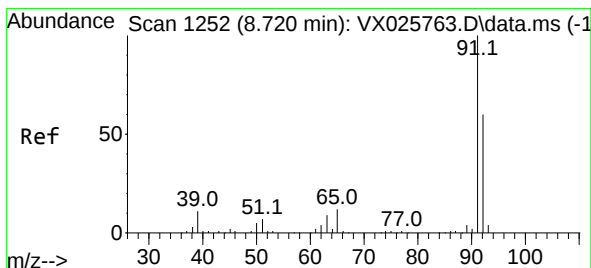
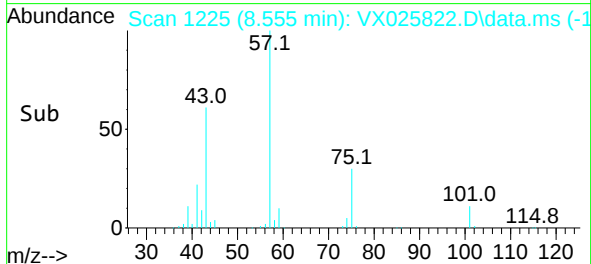
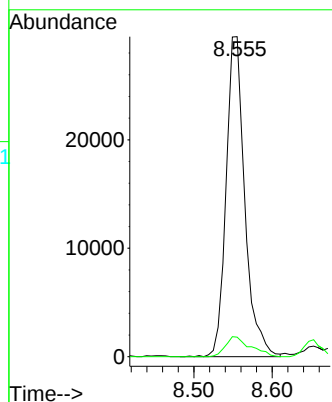
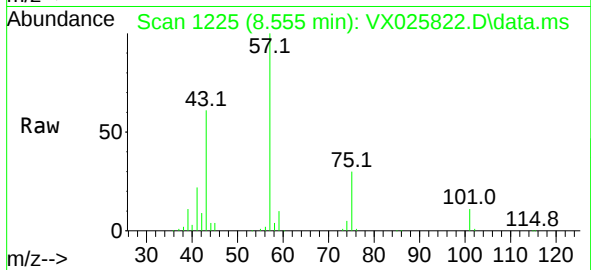




#51
4-Methyl-2-Pentanone
Concen: 18.240 ug/l
RT: 8.555 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

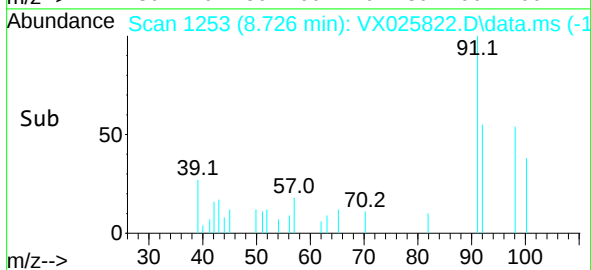
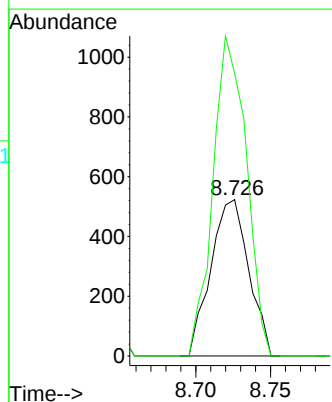
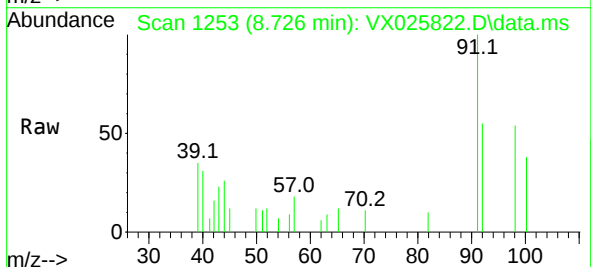
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

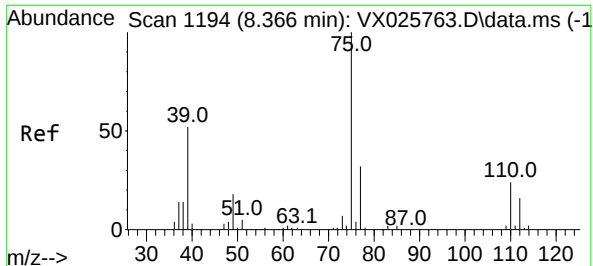
Tgt Ion: 43 Resp: 49022
Ion Ratio Lower Upper
43 100
58 8.3 30.8 46.2#



#52
Toluene
Concen: 0.212 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 92 Resp: 923
Ion Ratio Lower Upper
92 100
91 180.6 136.0 204.0

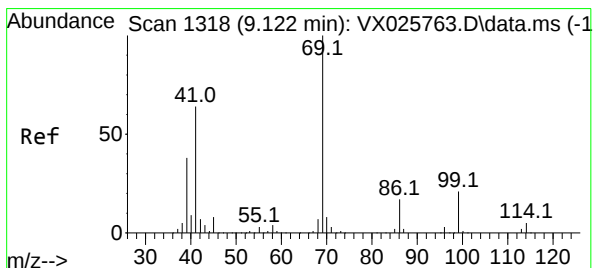
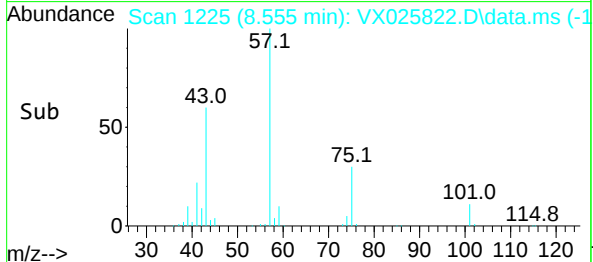
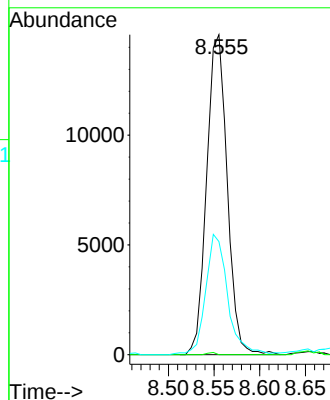
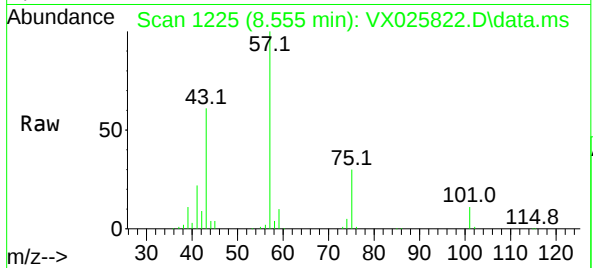




#54
cis-1,3-Dichloropropene
Concen: 8.236 ug/l
RT: 8.555 min Scan# 1194
Delta R.T. 0.189 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

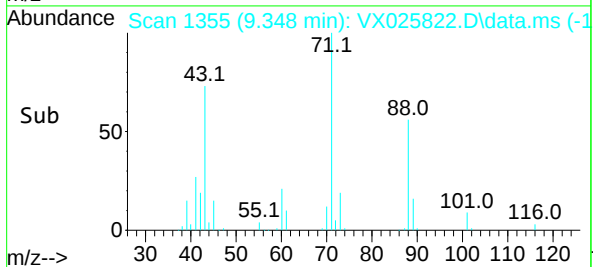
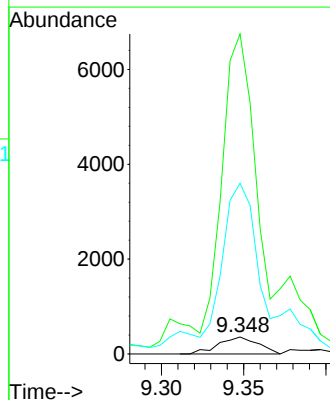
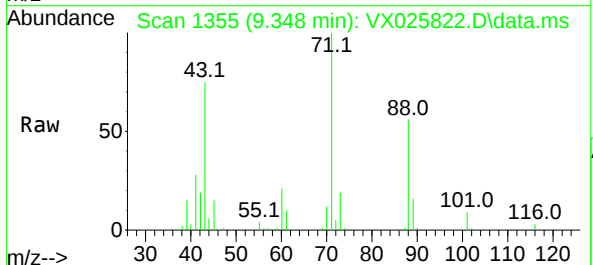
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

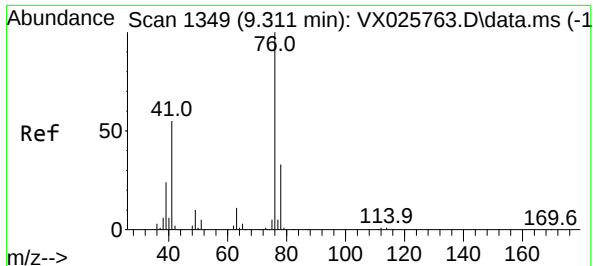
Tgt Ion: 75 Resp: 22730
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 34.8 41.4 62.0#



#56
Ethyl methacrylate
Concen: 0.223 ug/l
RT: 9.348 min Scan# 1355
Delta R.T. 0.225 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 69 Resp: 600
Ion Ratio Lower Upper
69 100
41 1699.0 52.8 79.2#
39 1048.7 32.5 48.7#





#57

1,3-Dichloropropane

Concen: 4.752 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.177 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

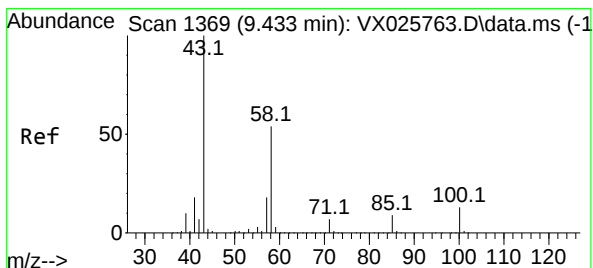
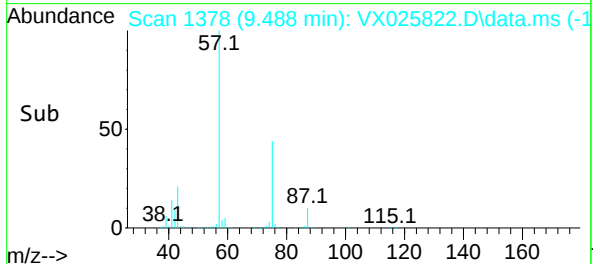
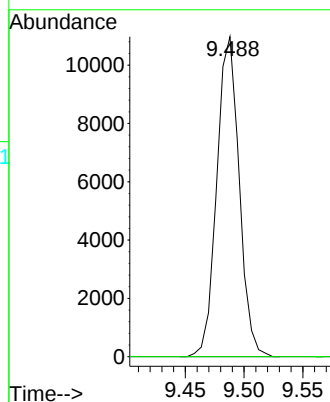
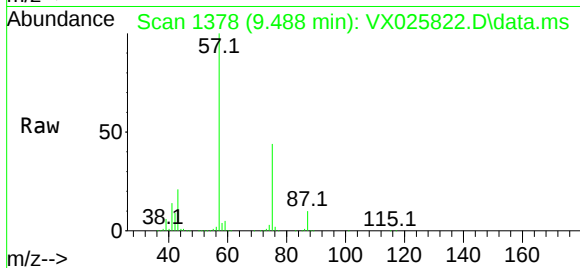
PB141382ZHE#02

Tgt Ion: 76 Resp: 14572

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 93.926 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.055 min

Lab File: VX025822.D

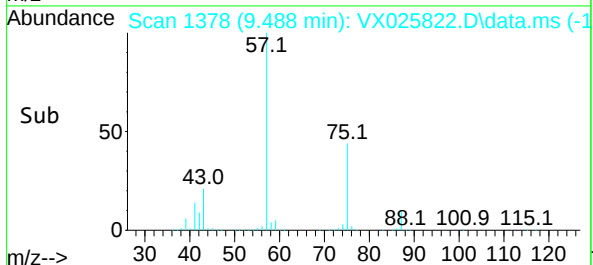
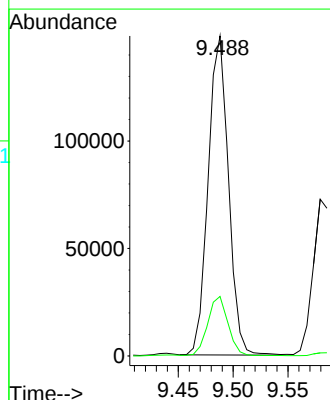
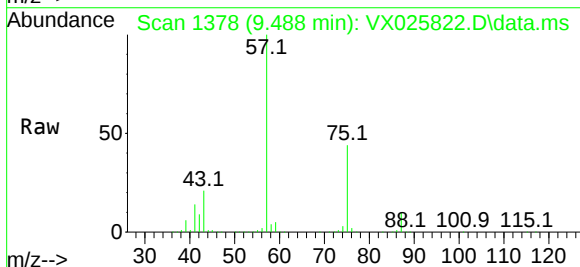
Acq: 15 Dec 2021 18:13

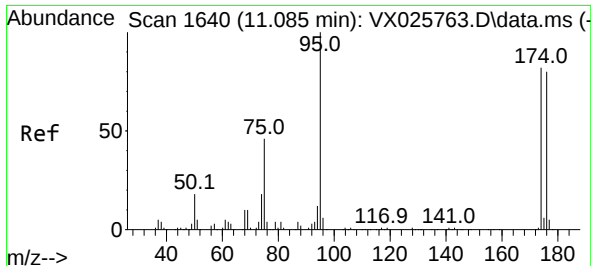
Tgt Ion: 43 Resp: 191271

Ion Ratio Lower Upper

43 100

58 19.0 26.9 80.6#





#62

4-Bromofluorobenzene

Concen: 43.853 ug/l

RT: 11.085 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB141382ZHE#02

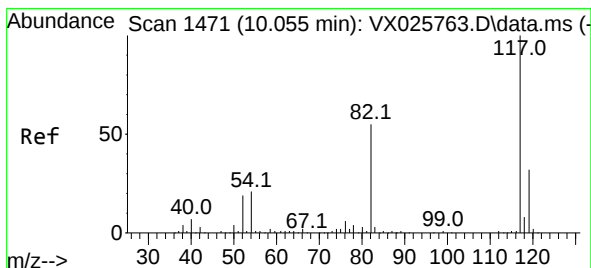
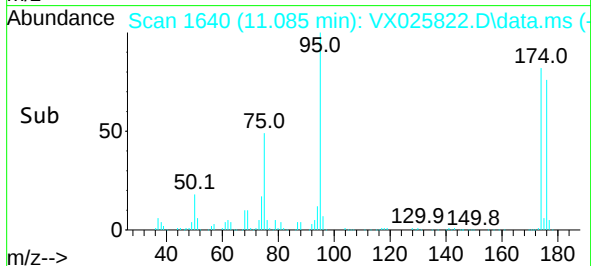
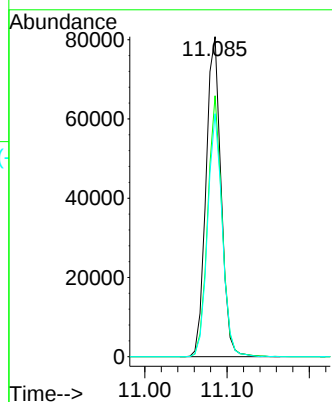
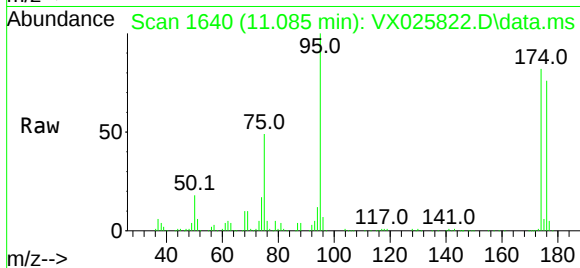
Tgt Ion: 95 Resp: 102657

Ion Ratio Lower Upper

95 100

174 77.7 0.0 157.4

176 73.8 0.0 154.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX025822.D

Acq: 15 Dec 2021 18:13

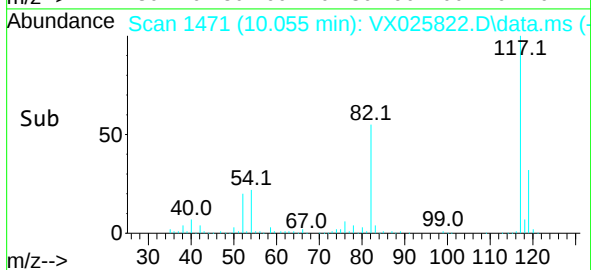
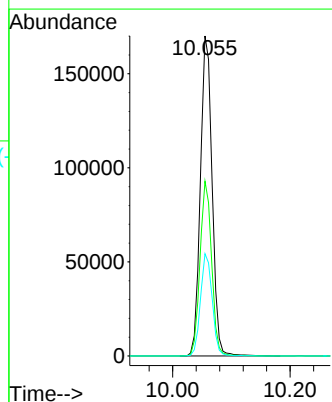
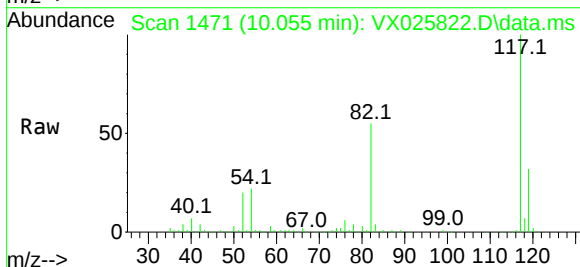
Tgt Ion: 117 Resp: 235595

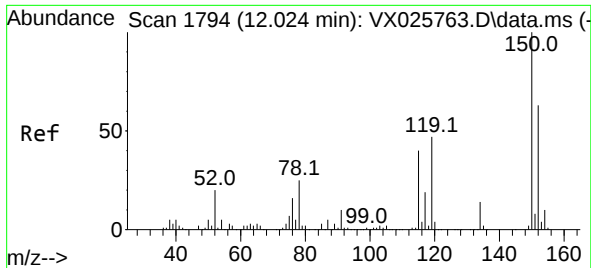
Ion Ratio Lower Upper

117 100

82 54.6 43.8 65.6

119 31.9 25.2 37.8

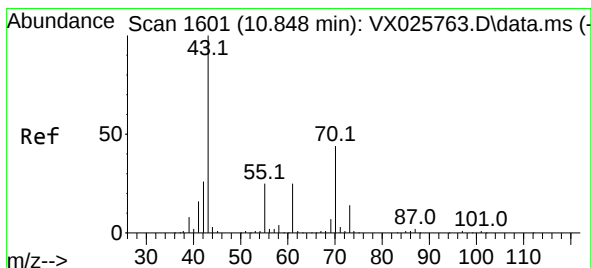
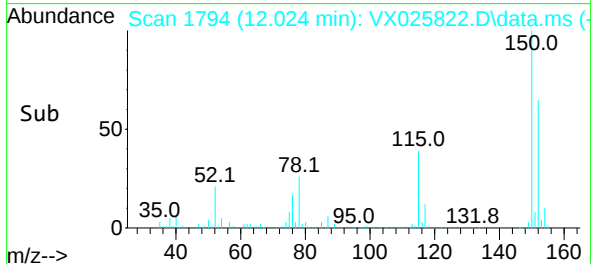
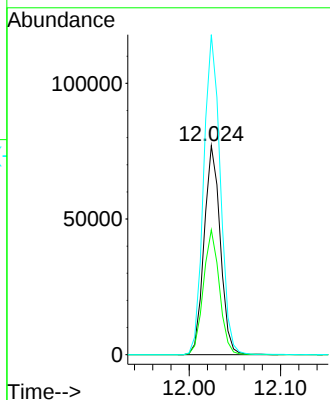
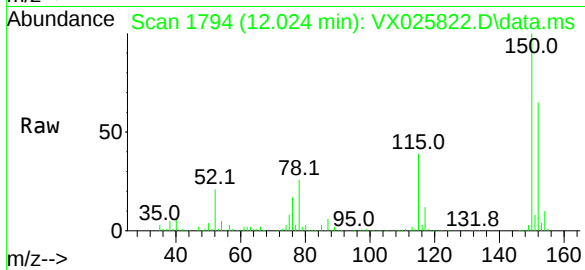




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

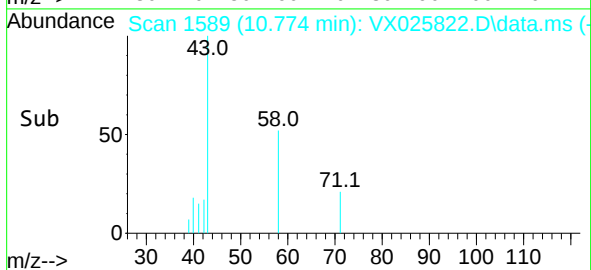
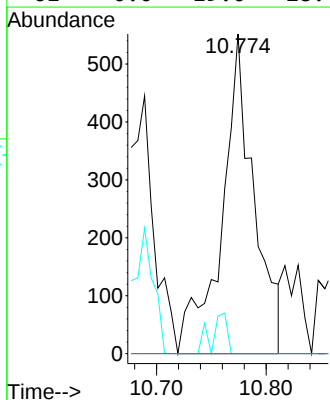
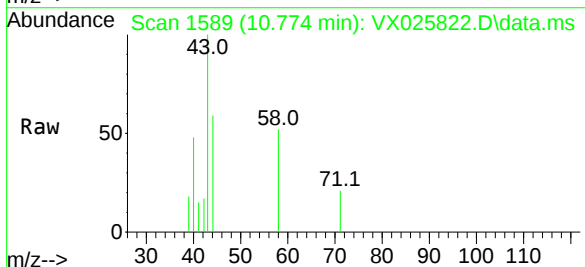
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

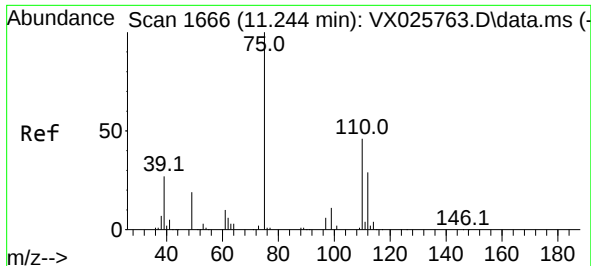
Tgt Ion:152 Resp: 94754
Ion Ratio Lower Upper
152 100
115 59.1 41.3 123.9
150 157.4 0.0 351.8



#74
N-ethyl acetate
Concen: 0.407 ug/l
RT: 10.774 min Scan# 1589
Delta R.T. -0.073 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 43 Resp: 1126
Ion Ratio Lower Upper
43 100
70 0.0 34.1 51.1#
55 6.1 19.2 28.8#
61 0.0 19.0 28.4#

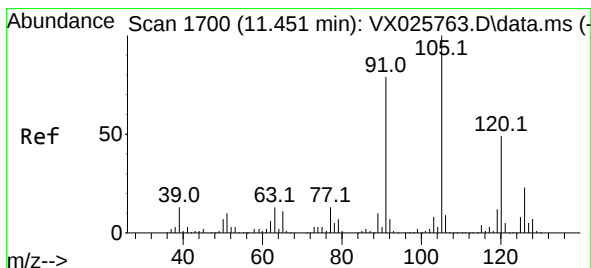
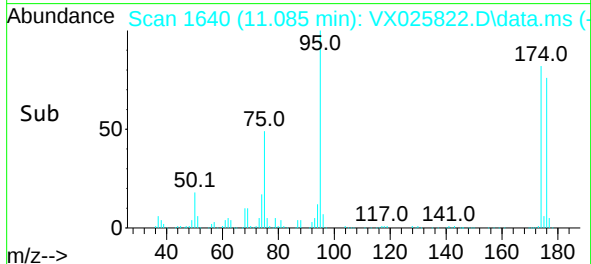
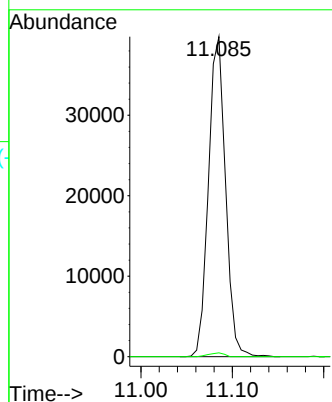
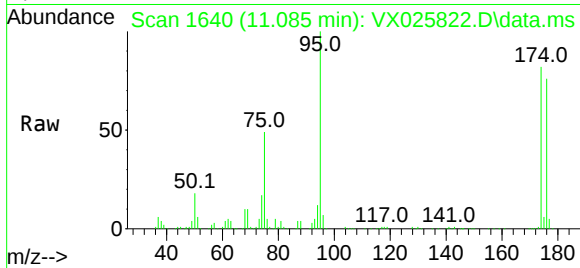




#76
1,2,3-Trichloropropane
Concen: 23.681 ug/l
RT: 11.085 min Scan# 110
Delta R.T. -0.159 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

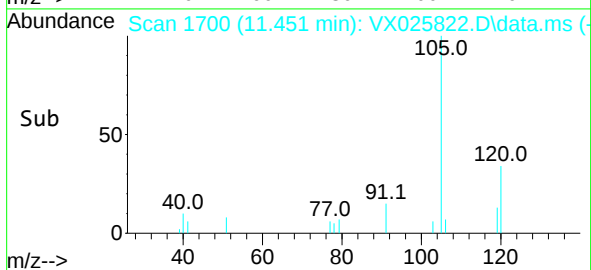
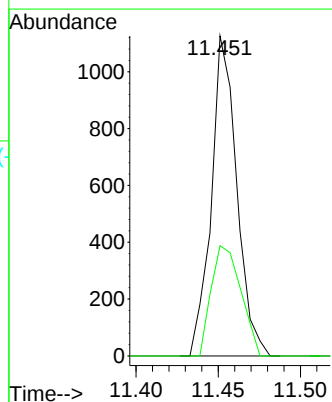
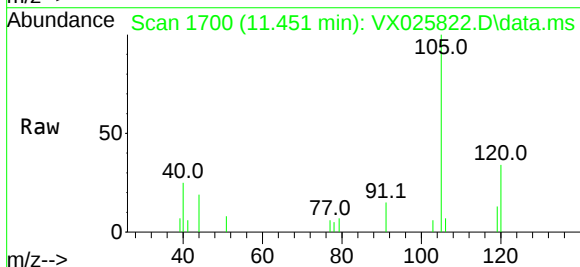
Instrument :
MSVOA_X
ClientSampleId :
PB141382ZHE#02

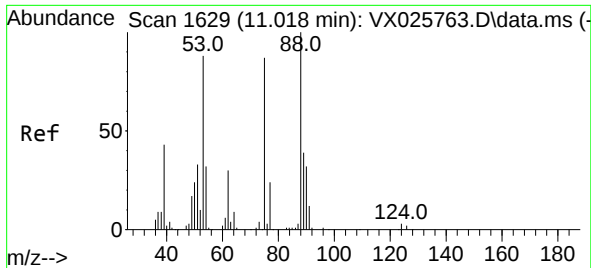
Tgt Ion: 75 Resp: 51412
Ion Ratio Lower Upper
75 100
77 1.1 19.0 57.0#



#80
1,3,5-Trimethylbenzene
Concen: 0.212 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX025822.D
Acq: 15 Dec 2021 18:13

Tgt Ion: 105 Resp: 1209
Ion Ratio Lower Upper
105 100
120 40.0 24.9 74.7

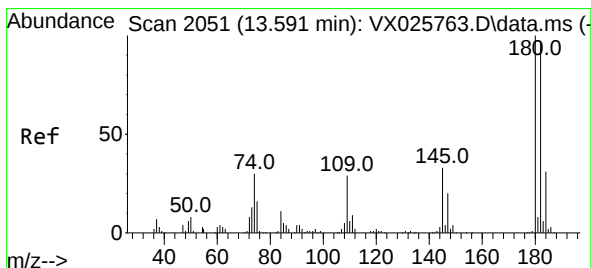
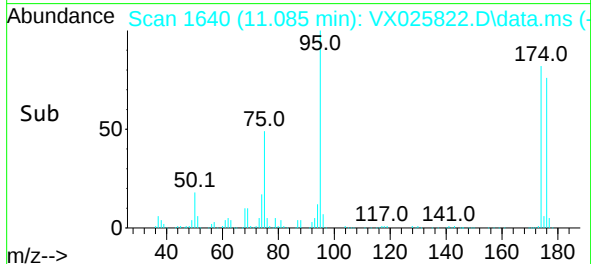
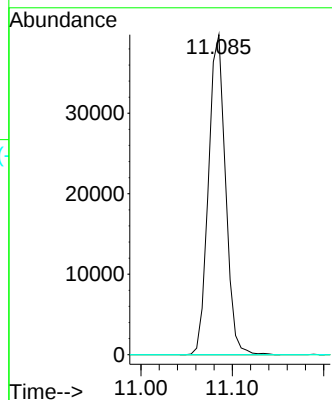
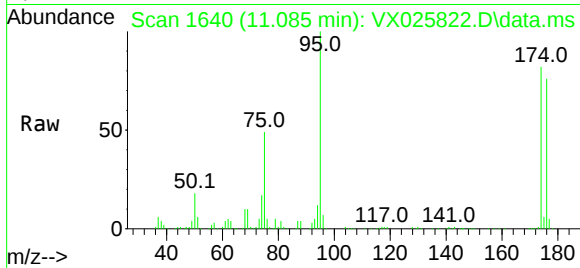




#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.419 ug/l
 RT: 11.085 min Scan# 1640
 Delta R.T. 0.067 min
 Lab File: VX025822.D
 Acq: 15 Dec 2021 18:13

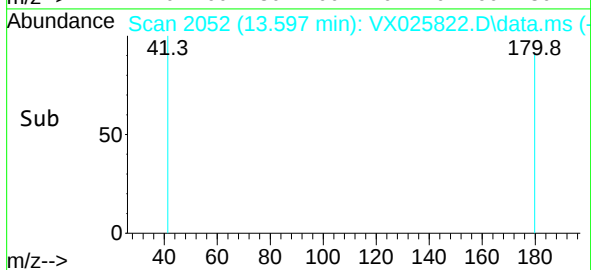
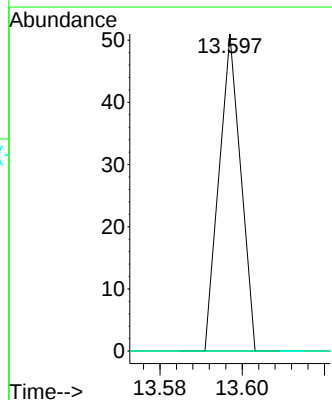
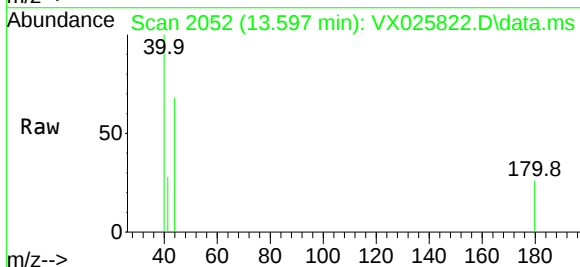
Instrument :
 MSVOA_X
 ClientSampleId :
 PB141382ZHE#02

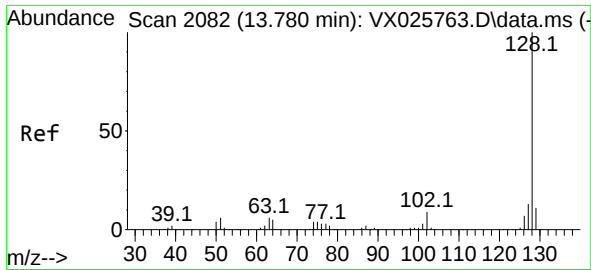
Tgt Ion: 75 Resp: 51412
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.5 119.3#
 89 0.0 38.3 57.5#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.380 ug/l
 RT: 13.597 min Scan# 2052
 Delta R.T. 0.006 min
 Lab File: VX025822.D
 Acq: 15 Dec 2021 18:13

Tgt Ion:180 Resp: 19
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.2 141.6#
 145 0.0 16.3 48.9#





#95

Naphthalene

Concen: 2.419 ug/l

RT: 13.792 min Scan# 20

Delta R.T. 0.012 min

Lab File: VX025822.D

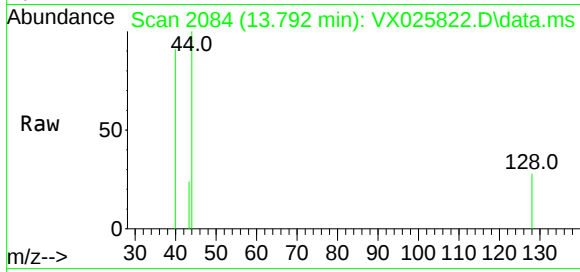
Acq: 15 Dec 2021 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB141382ZHE#02



Tgt Ion:128 Resp: 52

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#

