

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120221\
 Data File : VX025450.D
 Acq On : 03 Dec 2021 00:32
 Operator : JC/MD
 Sample : M4917-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 03 06:13:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111721W.M
 Quant Title : Sw846 8260
 QLast Update : Wed Nov 17 15:36:16 2021
 Response via : Initial Calibration

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

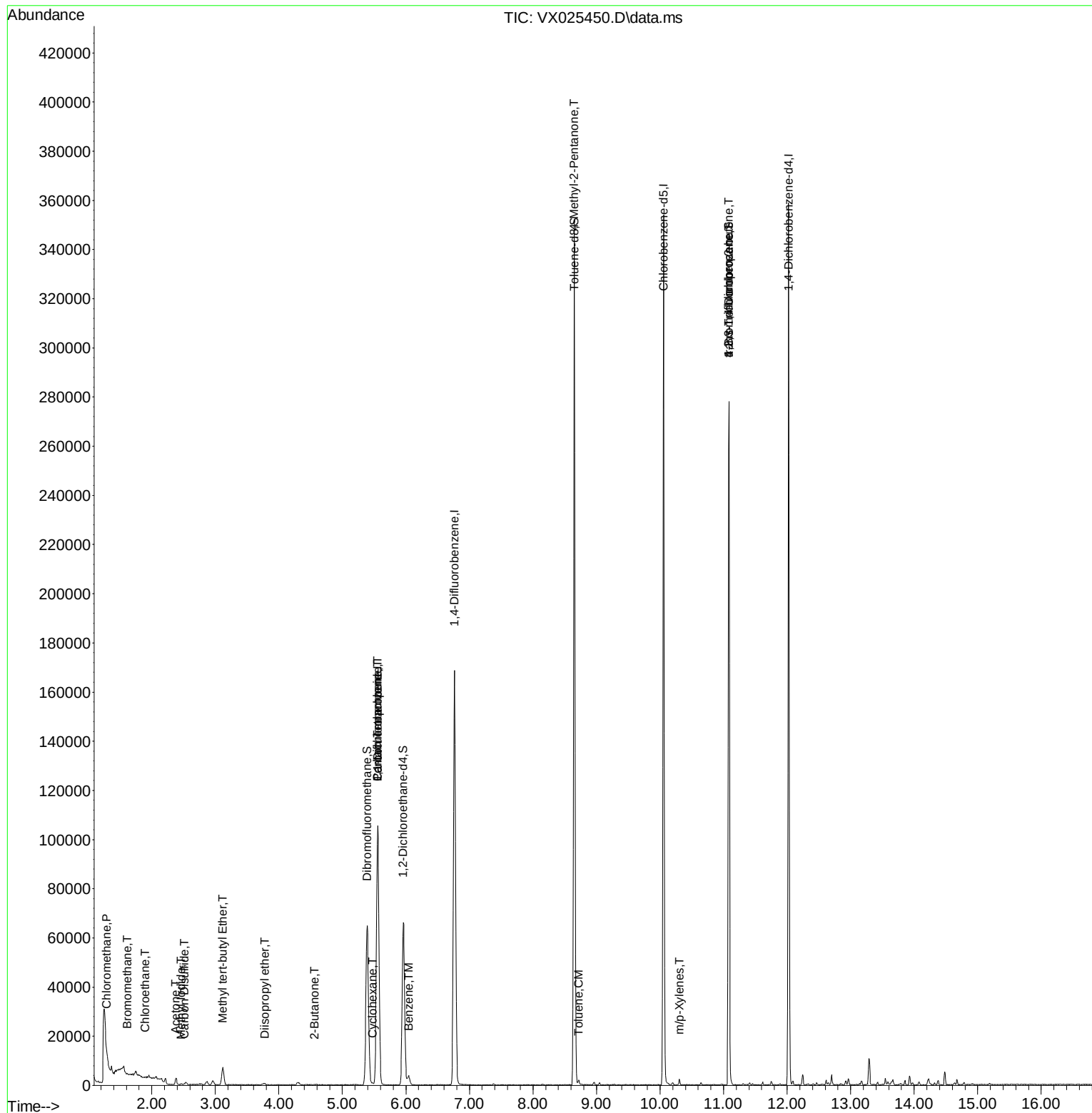
Internal Standards						
1) Pentafluorobenzene	5.556	168	107999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	182026	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	162941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	75726	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	62973	55.32	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.64%			
35) Dibromofluoromethane	5.391	113	56741	50.80	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.60%			
50) Toluene-d8	8.653	98	211274	50.31	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.62%			
62) 4-Bromofluorobenzene	11.085	95	74015	46.59	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.18%			
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	534	0.46 ug/l	#	42
5) Bromomethane	1.611	94	123	0.22 ug/l		86
6) Chloroethane	1.892	64	208	0.24 ug/l	#	84
10) Methyl Iodide	2.465	142	401	0.32 ug/l	#	68
11) Tert butyl alcohol	2.959	59	2261	Below Cal	#	93
16) Acetone	2.380	43	2913	4.61 ug/l		92
17) Carbon Disulfide	2.514	76	674	0.24 ug/l	#	76
19) Methyl tert-butyl Ether	3.117	73	8290	2.38 ug/l		94
22) Diisopropyl ether	3.782	45	695	0.20 ug/l	#	74
25) 2-Butanone	4.562	43	250	0.27 ug/l	#	48
31) Cyclohexane	5.477	56	378	0.21 ug/l	#	91
36) 1,1-Dichloropropene	5.556	75	7406	4.66 ug/l	#	51
38) Carbon Tetrachloride	5.556	117	10414	5.95 ug/l	#	16
40) Benzene	6.044	78	4431	0.92 ug/l		94
51) 4-Methyl-2-Pentanone	8.647	43	949	0.50 ug/l	#	1
52) Toluene	8.720	92	726	0.23 ug/l		100
68) m/p-Xylenes	10.305	106	531	0.23 ug/l		87
76) 1,2,3-Trichloropropane	11.085	75	36331	23.43 ug/l	#	37
81) trans-1,4-Dichloro-2-b...	11.085	75	36331	59.02 ug/l	#	9
95) Naphthalene	13.780	128	631	Below Cal	#	85

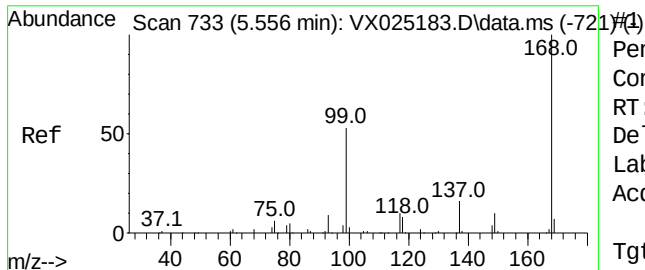
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.556 min Scan#

Delta R.T. -0.000 min

Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

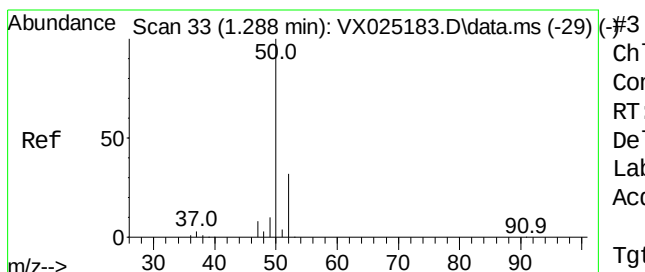
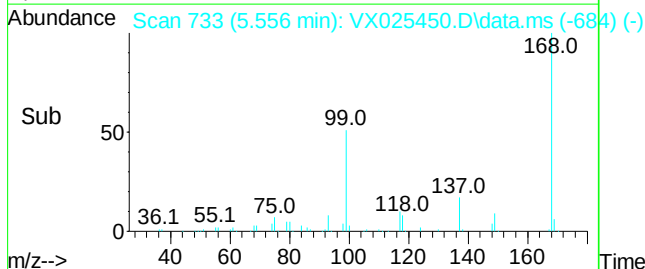
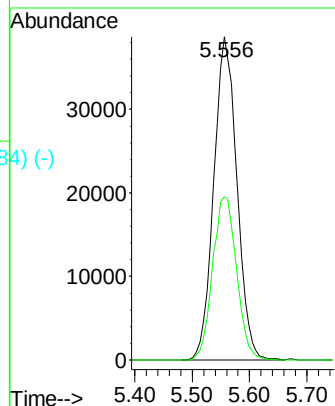
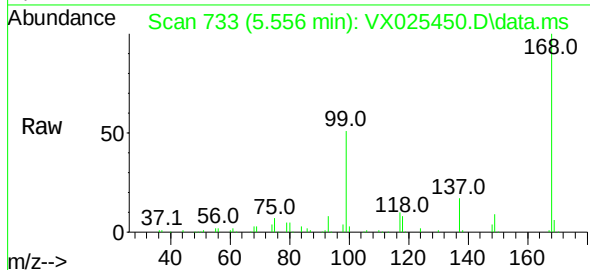
ClientSampleId :

Tgt Ion:168 Resp: 107999

Ion Ratio Lower Upper

168 100

99 50.6 46.4 69.6



Chloromethane

Concen: 0.46 ug/l

RT: 1.294 min Scan# 34

Delta R.T. 0.006 min

Lab File: VX025450.D

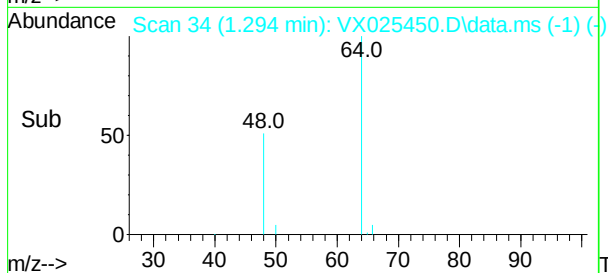
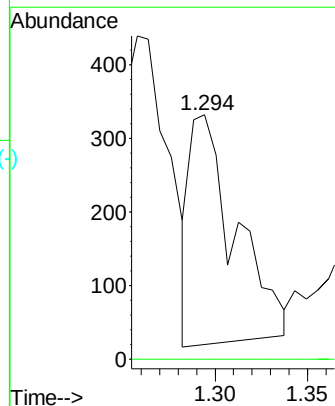
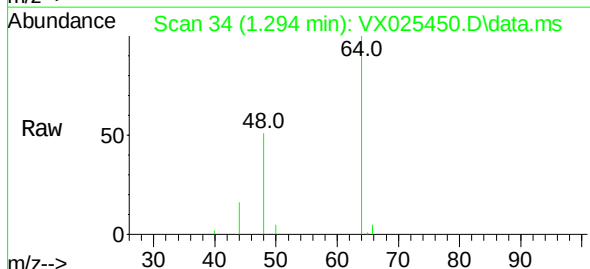
Acq: 03 Dec 2021 00:32

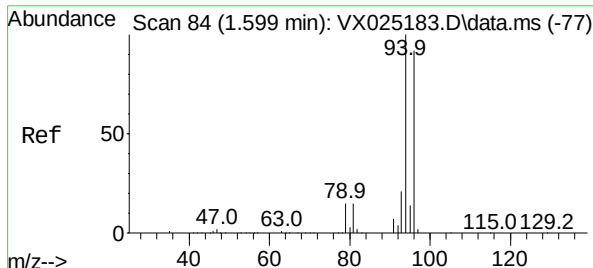
Tgt Ion: 50 Resp: 534

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#





Bromomethane

Concen: 0.22 ug/l

RT: 1.611 min Scan# 84

Delta R.T. 0.012 min

Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

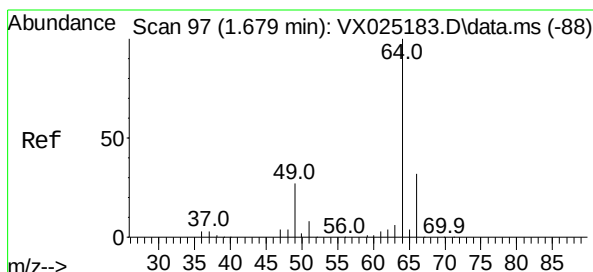
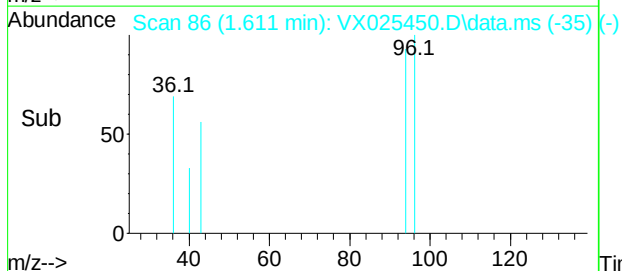
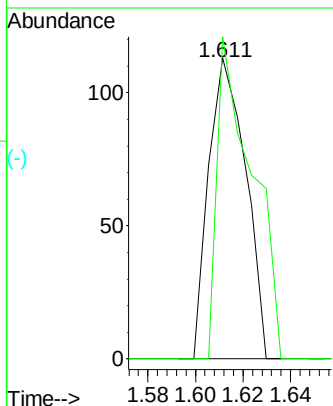
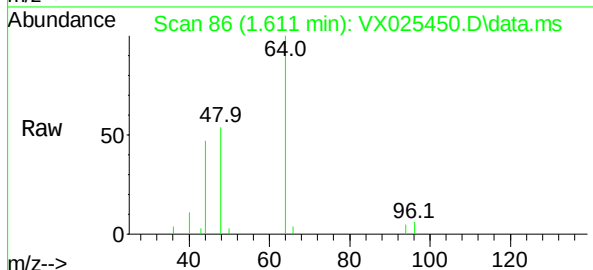
ClientSampleId :

Tgt Ion: 94 Resp: 123

Ion Ratio Lower Upper

94 100

96 107.1 74.8 112.2



Chloroethane

Concen: 0.24 ug/l

RT: 1.892 min Scan# 132

Delta R.T. 0.213 min

Lab File: VX025450.D

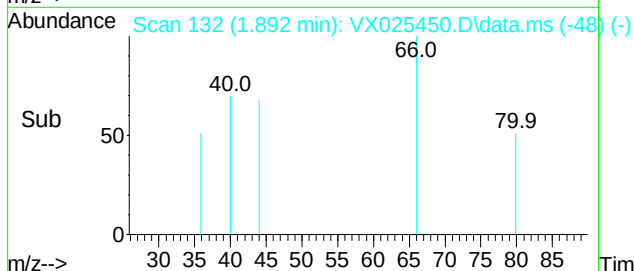
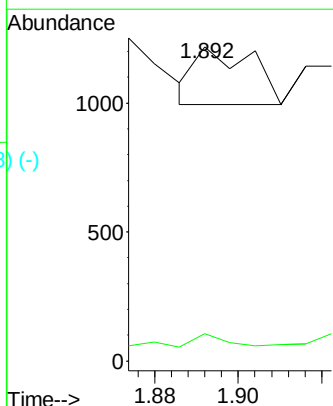
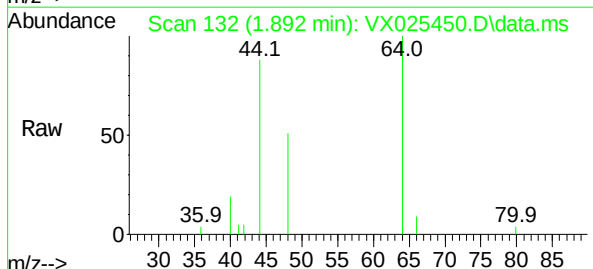
Acq: 03 Dec 2021 00:32

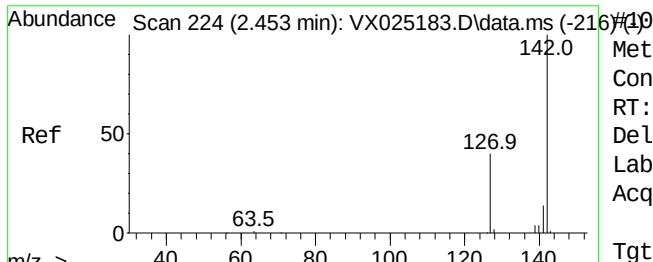
Tgt Ion: 64 Resp: 208

Ion Ratio Lower Upper

64 100

66 22.9 25.6 38.4#





Methyl Iodide

Concen: 0.32 ug/l

RT: 2.465 min Scan# 1

Delta R.T. 0.012 min

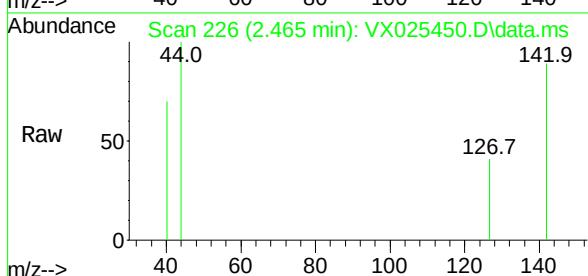
Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

ClientSampleId :



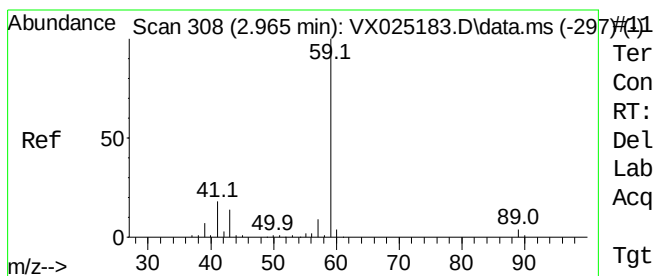
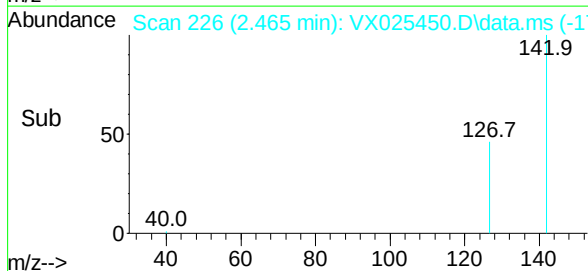
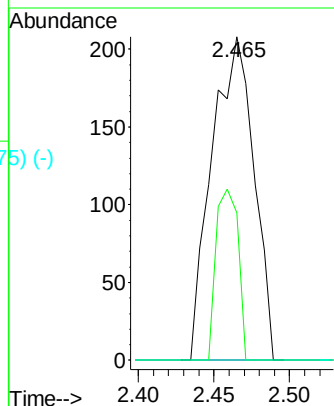
Tgt Ion:142 Resp: 401

Ion Ratio Lower Upper

142 100

127 27.7 38.9 58.3#

141 0.0 11.7 17.5#



Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 307

Delta R.T. -0.006 min

Lab File: VX025450.D

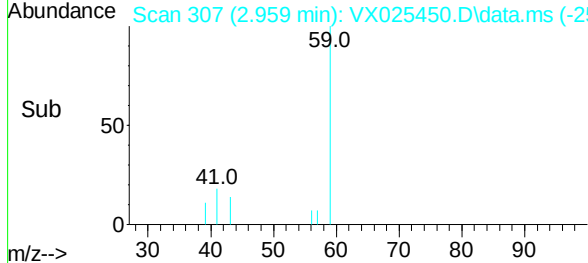
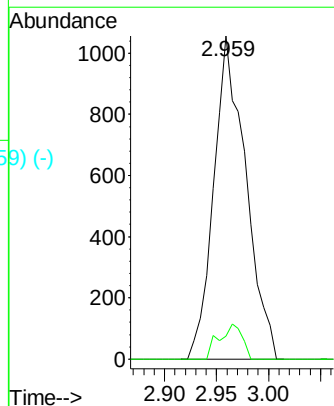
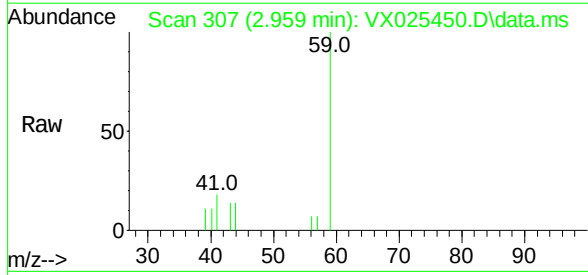
Acq: 03 Dec 2021 00:32

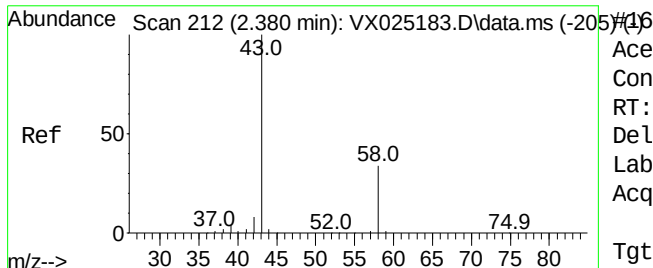
Tgt Ion: 59 Resp: 2261

Ion Ratio Lower Upper

59 100

57 7.8 8.5 12.7#

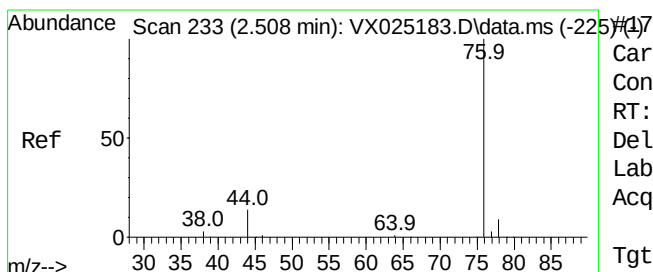
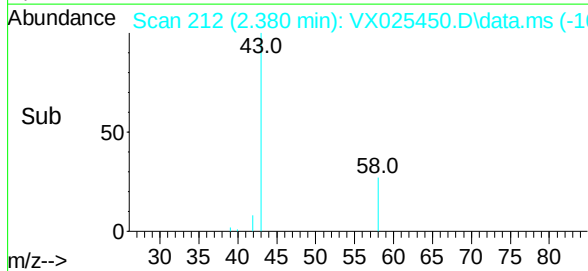
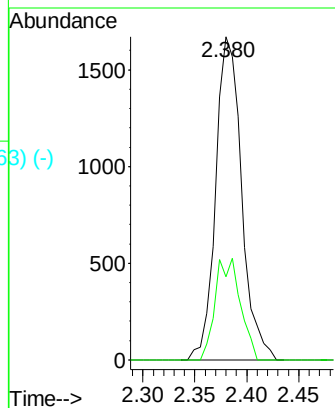
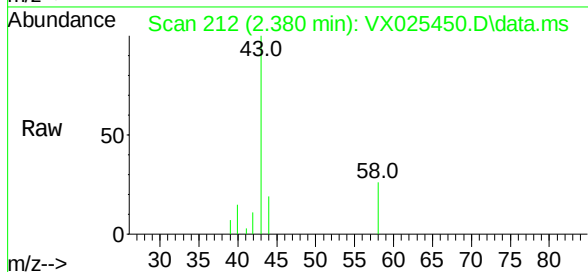




Acetone
 Concen: 4.61 ug/l
 RT: 2.380 min Scan# 212
 Delta R.T. -0.000 min
 Lab File: VX025450.D
 Acq: 03 Dec 2021 00:32

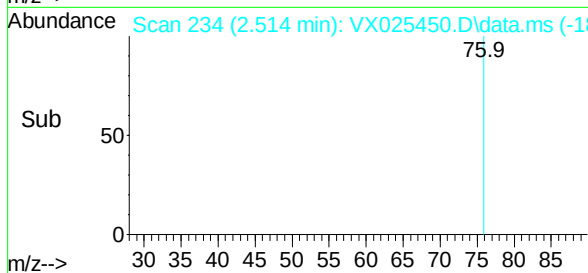
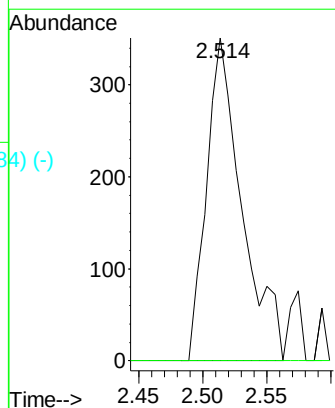
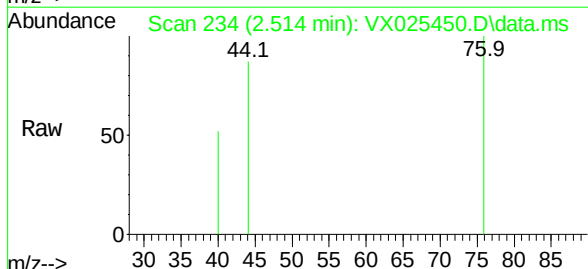
Instrument : MSVOA_D
 ClientSampleId :

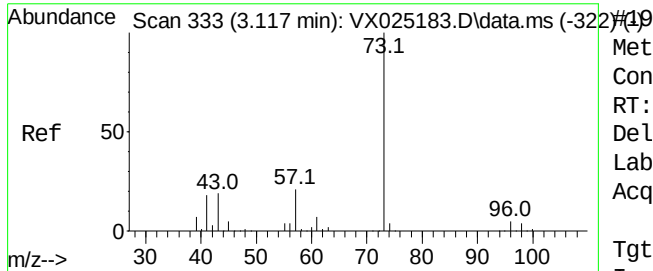
Tgt Ion: 43 Resp: 2913
 Ion Ratio Lower Upper
 43 100
 58 25.8 24.0 36.0



Carbon Disulfide
 Concen: 0.24 ug/l
 RT: 2.514 min Scan# 234
 Delta R.T. 0.006 min
 Lab File: VX025450.D
 Acq: 03 Dec 2021 00:32

Tgt Ion: 76 Resp: 674
 Ion Ratio Lower Upper
 76 100
 78 0.0 6.9 10.3#

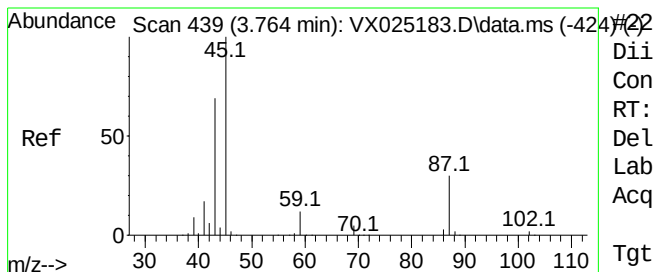
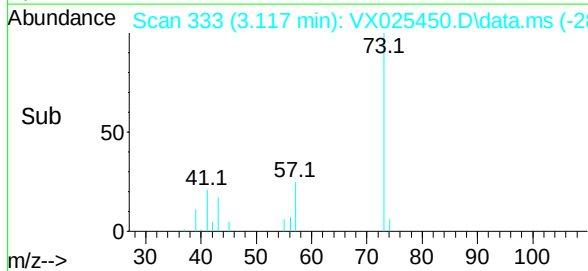
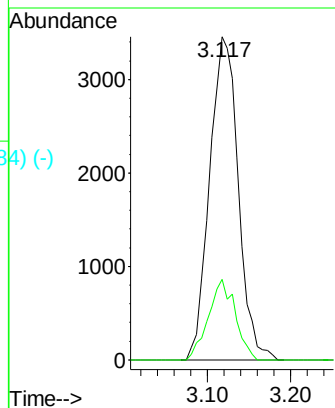
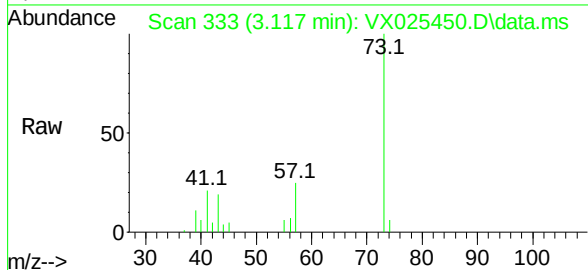




Methyl tert-butyl Ether
 Concen: 2.38 ug/l
 RT: 3.117 min Scan# 419
 Delta R.T. 0.000 min
 Lab File: VX025450.D
 Acq: 03 Dec 2021 00:32

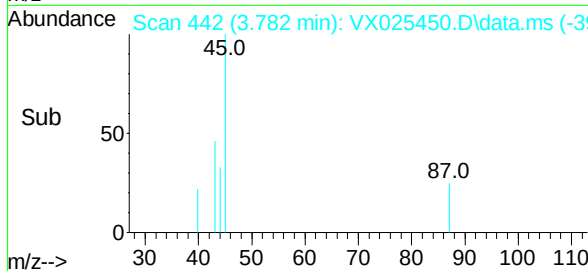
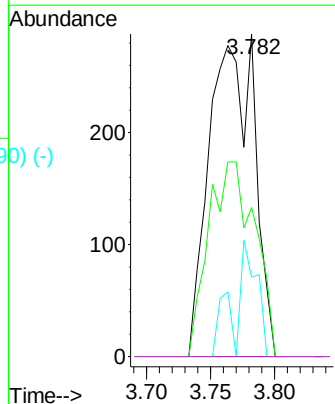
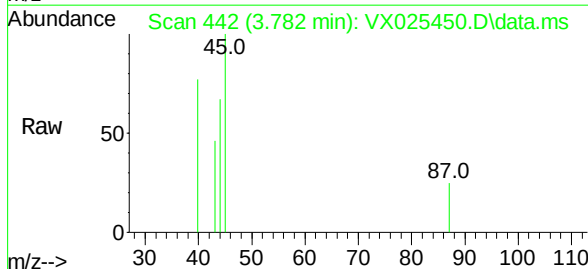
Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 73 Resp: 8290
 Ion Ratio Lower Upper
 73 100
 57 24.8 17.5 26.3



Diisopropyl ether
 Concen: 0.20 ug/l
 RT: 3.782 min Scan# 442
 Delta R.T. 0.018 min
 Lab File: VX025450.D
 Acq: 03 Dec 2021 00:32

Tgt Ion: 45 Resp: 695
 Ion Ratio Lower Upper
 45 100
 43 46.2 58.3 87.5#
 87 24.7 23.7 35.5
 59 0.0 9.4 14.0#



Abundance Scan 569 (4.556 min): VX025183.D\data.ms (-557) #25

2-Butanone

Concen: 0.27 ug/l

RT: 4.562 min Scan# 720

Delta R.T. 0.006 min

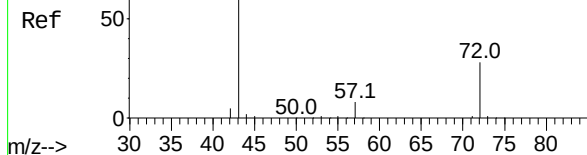
Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

ClientSampleId :

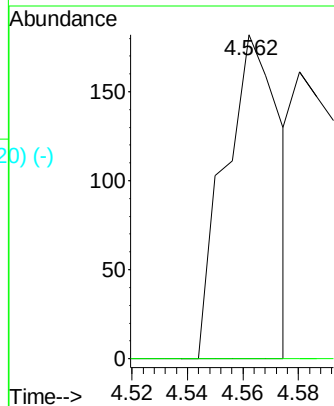
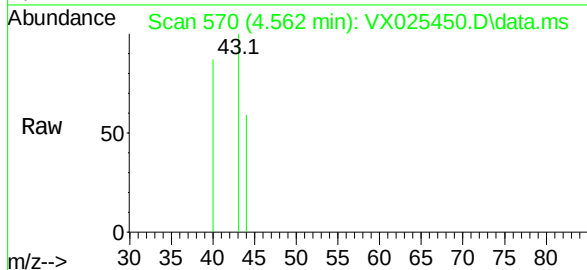


Tgt Ion: 43 Resp: 250

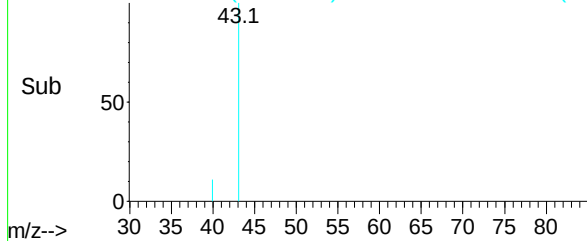
Ion Ratio Lower Upper

43 100

72 0.0 21.2 31.8#



Abundance Scan 570 (4.562 min): VX025450.D\data.ms (-520) (-)



Abundance Scan 719 (5.471 min): VX025183.D\data.ms (-706) #31

Cyclohexane

Concen: 0.21 ug/l

RT: 5.477 min Scan# 720

Delta R.T. 0.006 min

Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

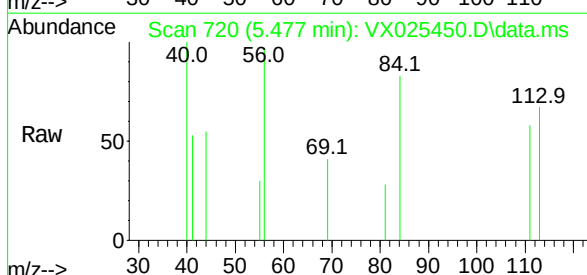
Tgt Ion: 56 Resp: 378

Ion Ratio Lower Upper

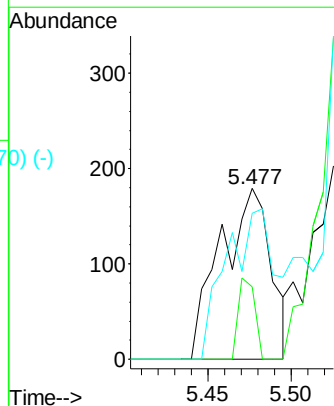
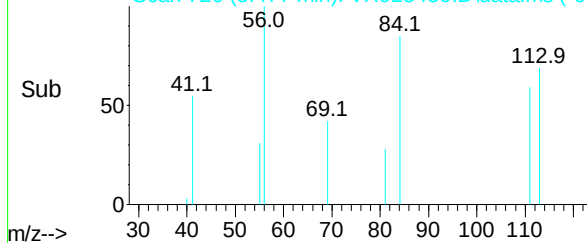
56 100

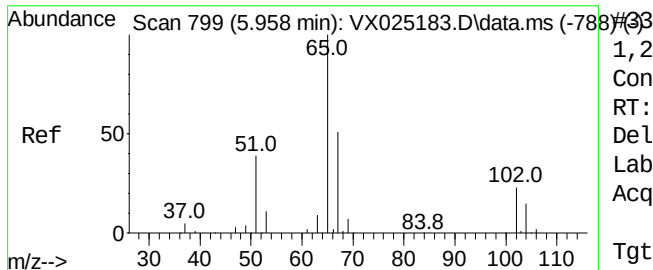
69 42.5 24.2 36.2#

84 85.5 71.5 107.3



Abundance Scan 720 (5.477 min): VX025450.D\data.ms (-670) (-)

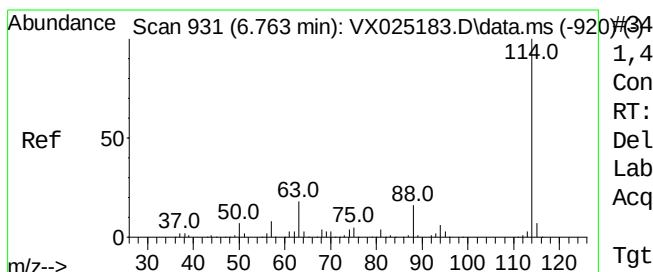
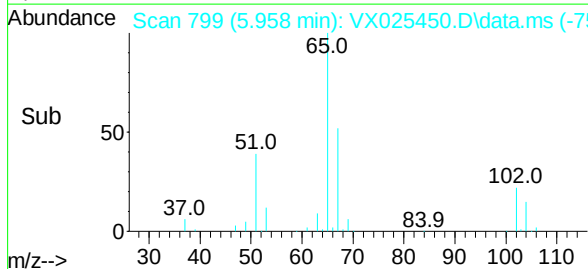
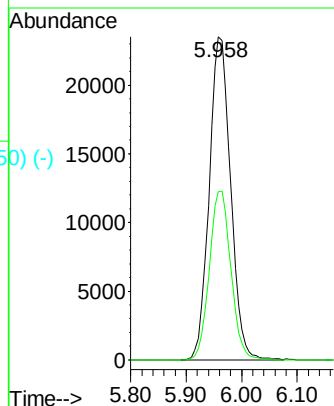
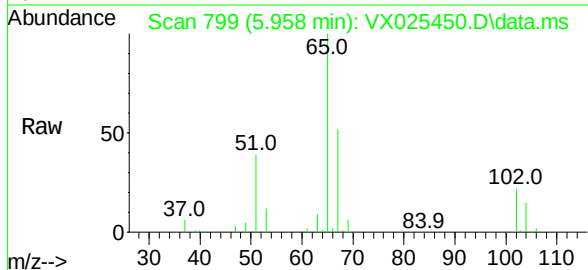




1,2-Dichloroethane-d4
Concen: 55.32 ug/l
RT: 5.958 min Scan#
Delta R.T. 0.000 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

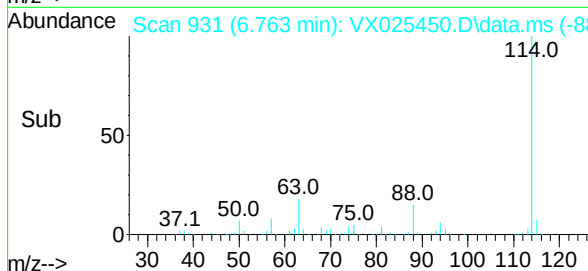
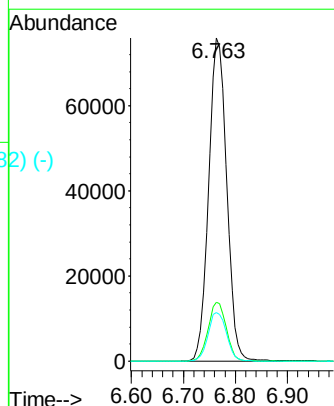
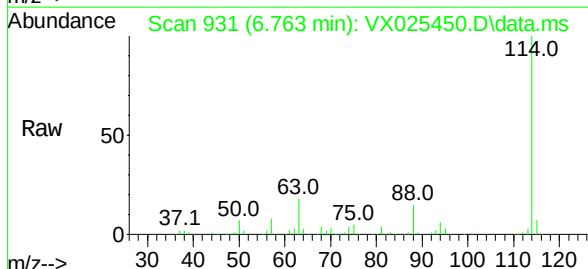
Instrument :
MSVOA_D
ClientSampleId :

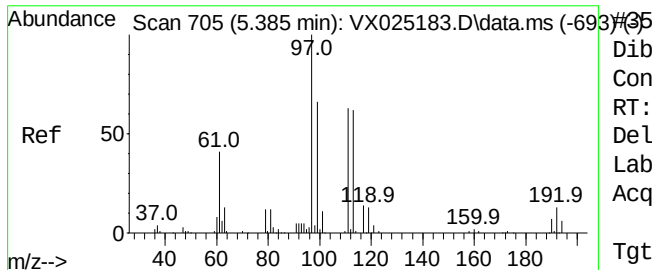
Tgt Ion: 65 Resp: 62973
Ion Ratio Lower Upper
65 100
67 52.5 0.0 101.0



1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

Tgt Ion:114 Resp: 182026
Ion Ratio Lower Upper
114 100
63 18.2 0.0 41.0
88 15.0 0.0 34.8

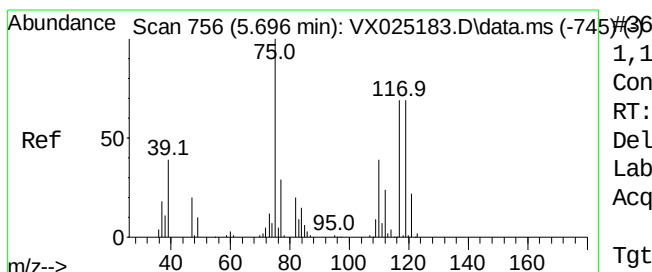
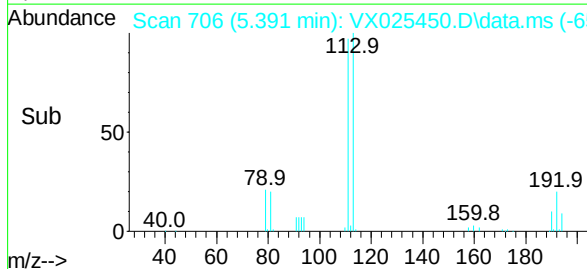
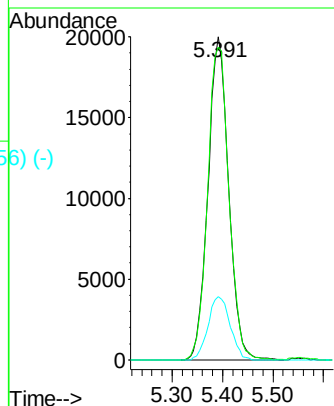
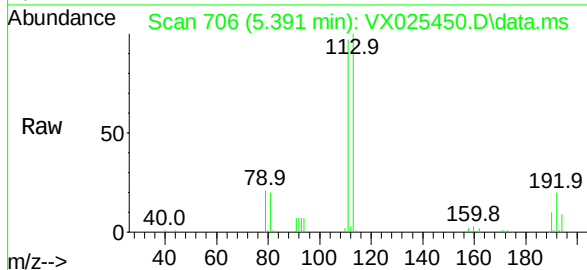




Dibromofluoromethane
Concen: 50.80 ug/l
RT: 5.391 min Scan#
Delta R.T. 0.006 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

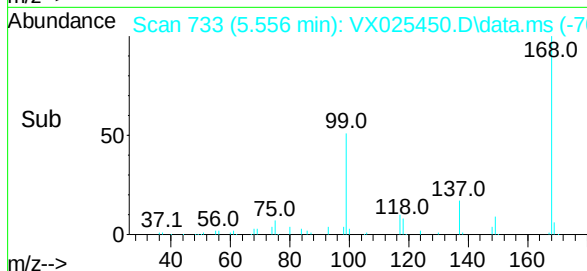
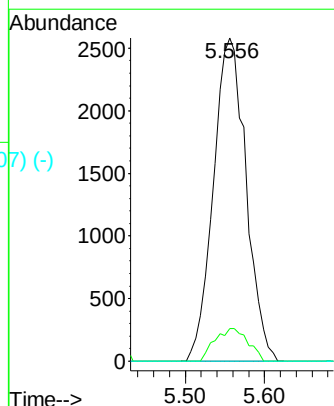
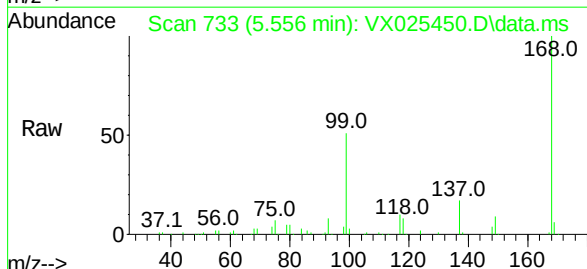
Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:113 Resp: 56741
Ion Ratio Lower Upper
113 100
111 100.5 82.1 123.1
192 21.0 15.6 23.4



1,1-Dichloropropene
Concen: 4.66 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

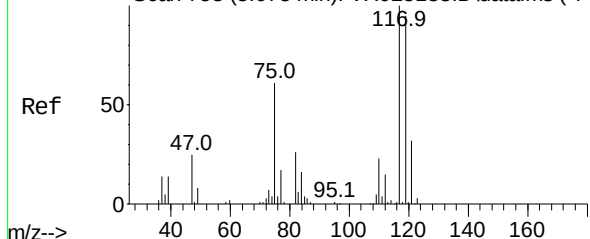
Tgt Ion: 75 Resp: 7406
Ion Ratio Lower Upper
75 100
110 10.3 18.1 54.3#
77 0.0 24.4 36.6#



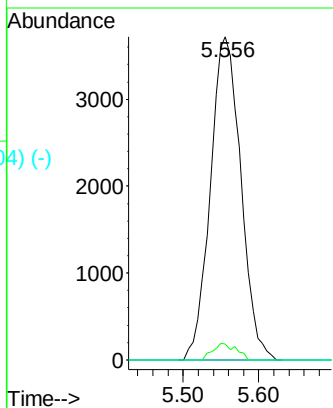
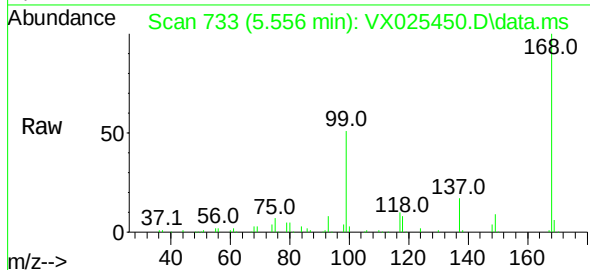
Abundance Scan 753 (5.678 min): VX025183.D\data.ms (-742) #38

Carbon Tetrachloride
Concen: 5.95 ug/l
RT: 5.556 min Scan# 117
Delta R.T. -0.122 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

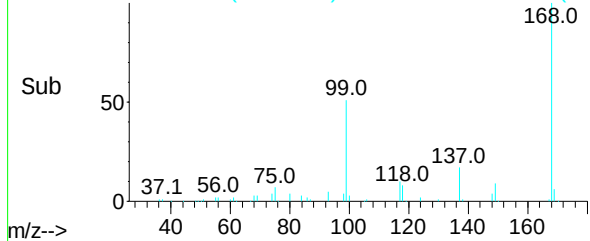
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	117	Resp:	10414
Ion	Ratio	Lower	Upper
117	100		
119	4.9	75.6	113.4#
121	0.0	23.7	35.5#



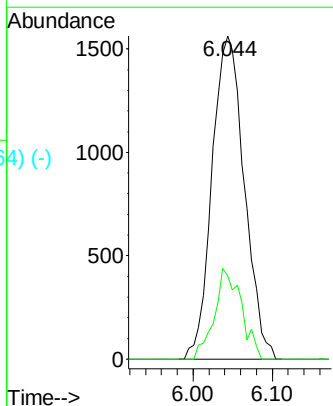
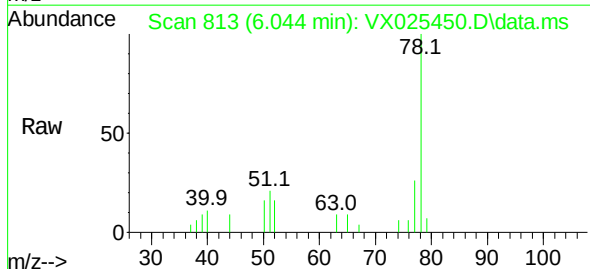
Abundance Scan 733 (5.556 min): VX025450.D\data.ms (-704) (-)



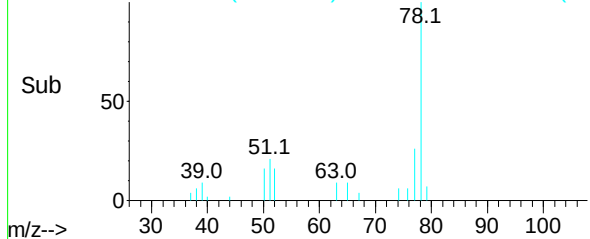
Abundance Scan 813 (6.044 min): VX025183.D\data.ms (-800) #40

Benzene
Concen: 0.92 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.000 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

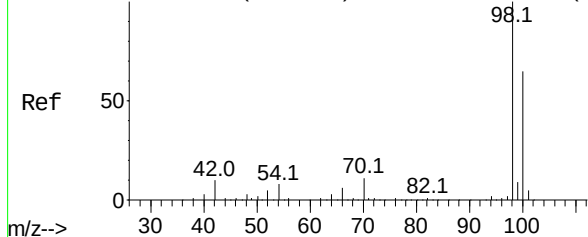
Tgt Ion:	78	Resp:	4431
Ion	Ratio	Lower	Upper
78	100		
77	25.7	18.3	27.5



Abundance Scan 813 (6.044 min): VX025450.D\data.ms (-764) (-)



Abundance Scan 1241 (8.653 min): VX025183.D\data.ms (-12350-)



Toluene-d8

Concen: 50.31 ug/l

RT: 8.653 min Scan#

Delta R.T. -0.000 min

Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

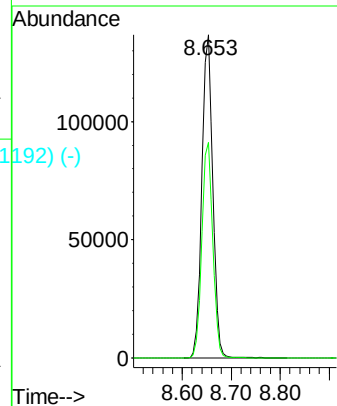
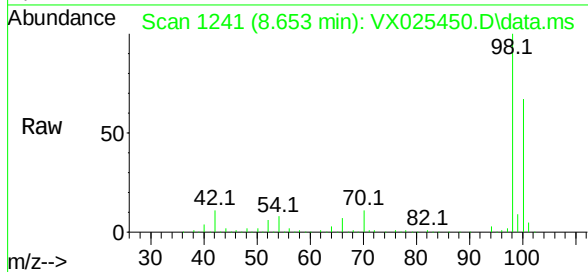
ClientSampleId :

Tgt Ion: 98 Resp: 211274

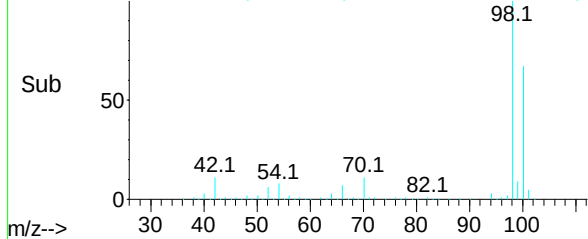
Ion Ratio Lower Upper

98 100

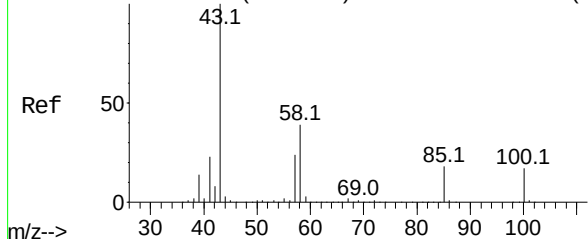
100 66.9 51.4 77.0



Abundance Scan 1241 (8.653 min): VX025450.D\data.ms (-1192-)



Abundance Scan 1228 (8.574 min): VX025183.D\data.ms (-12351-)



4-Methyl-2-Pentanone

Concen: 0.50 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX025450.D

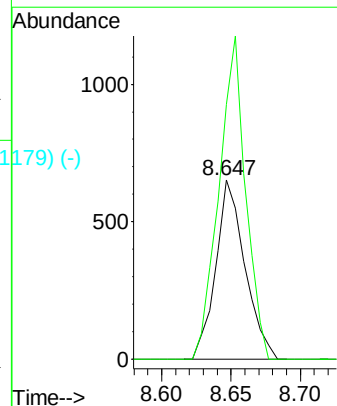
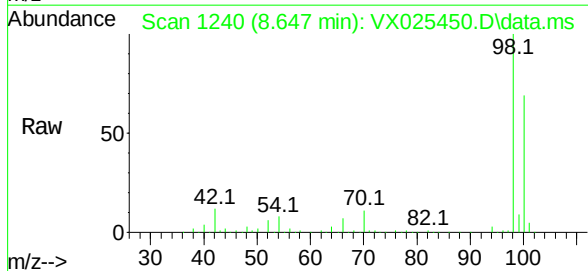
Acq: 03 Dec 2021 00:32

Tgt Ion: 43 Resp: 949

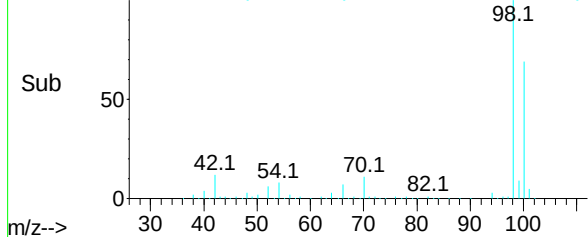
Ion Ratio Lower Upper

43 100

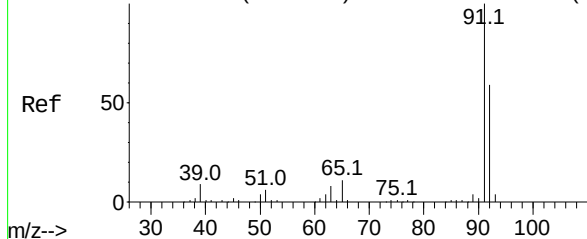
58 165.3 30.9 46.3#



Abundance Scan 1240 (8.647 min): VX025450.D\data.ms (-1179-)



Abundance Scan 1252 (8.720 min): VX025183.D\data.ms (-12452-)



Toluene

Concen: 0.23 ug/l

RT: 8.720 min Scan#

Delta R.T. -0.000 min

Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

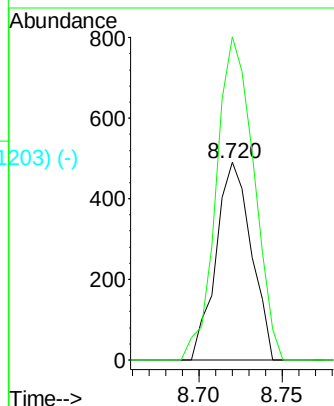
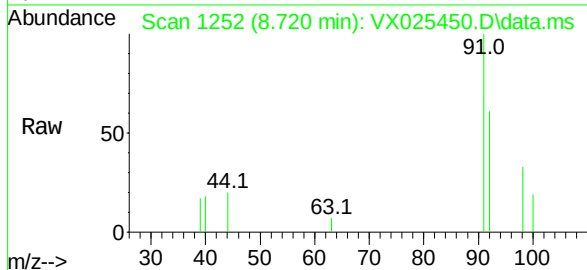
ClientSampleId :

Tgt Ion: 92 Resp: 726

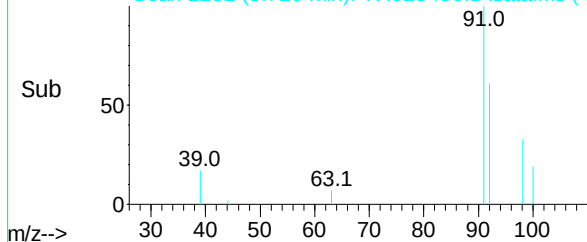
Ion Ratio Lower Upper

92 100

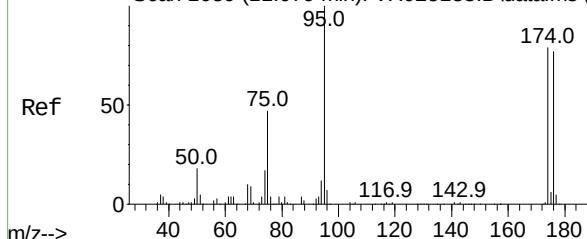
91 173.4 138.6 208.0



Abundance Scan 1252 (8.720 min): VX025450.D\data.ms (-1203-)



Abundance Scan 1639 (11.079 min): VX025183.D\data.ms (-1639-)



4-Bromofluorobenzene

Concen: 46.59 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

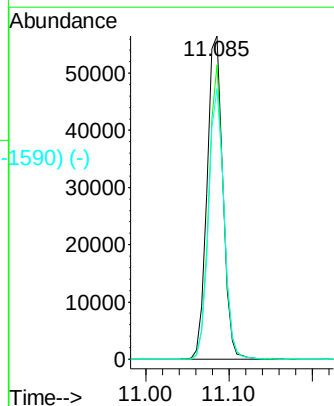
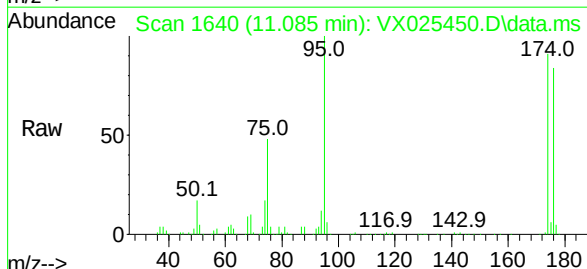
Tgt Ion: 95 Resp: 74015

Ion Ratio Lower Upper

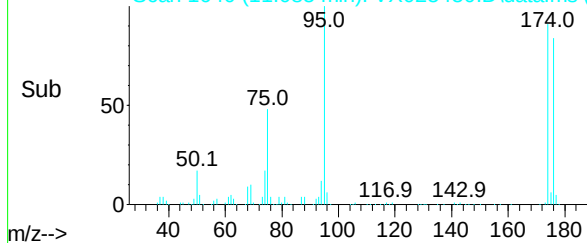
95 100

174 85.2 0.0 158.0

176 81.5 0.0 153.6



Abundance Scan 1640 (11.085 min): VX025450.D\data.ms (-1590-)



Abundance Scan 1471 (10.055 min): VX025183.D\data.ms (-1468) (-)

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

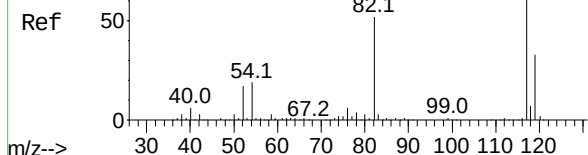
Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

ClientSampleId :



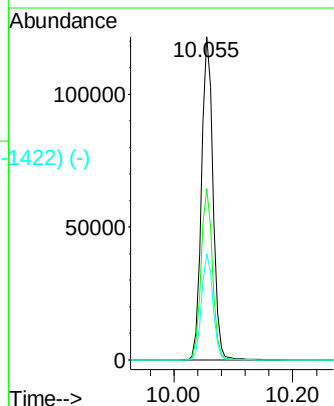
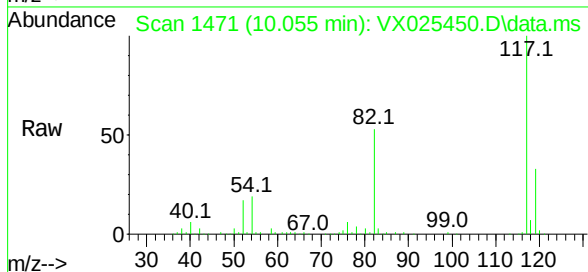
Tgt Ion:117 Resp: 162941

Ion Ratio Lower Upper

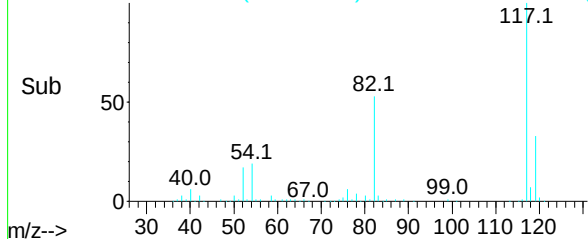
117 100

82 53.1 44.6 67.0

119 32.8 24.8 37.2



Abundance Scan 1471 (10.055 min): VX025450.D\data.ms (-1422) (-)



Abundance Scan 1512 (10.305 min): VX025183.D\data.ms (-1568) (-)

m/p-Xylenes

Concen: 0.23 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.000 min

Lab File: VX025450.D

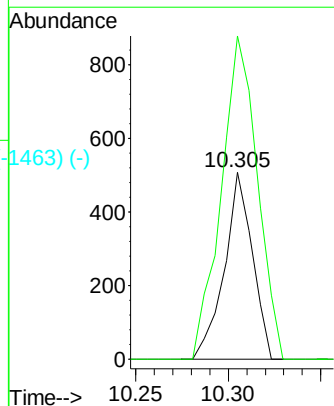
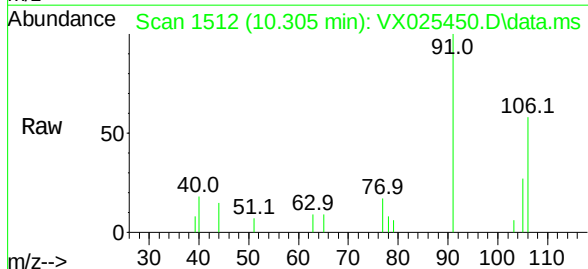
Acq: 03 Dec 2021 00:32

Tgt Ion:106 Resp: 531

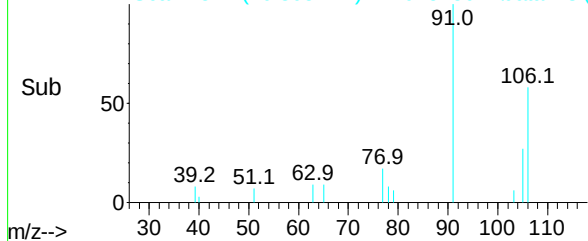
Ion Ratio Lower Upper

106 100

91 224.3 163.4 245.0



Abundance Scan 1512 (10.305 min): VX025450.D\data.ms (-1463) (-)



Abundance Scan 1794 (12.024 min): VX025183.D\data.ms (-1759) (-)

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

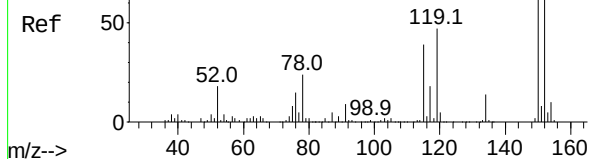
Lab File: VX025450.D

Acq: 03 Dec 2021 00:32

Instrument :

MSVOA_D

ClientSampleId :



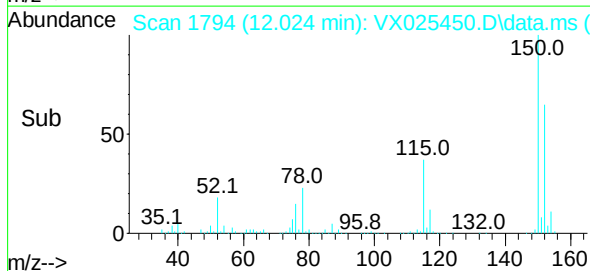
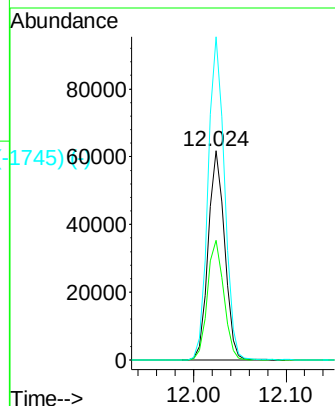
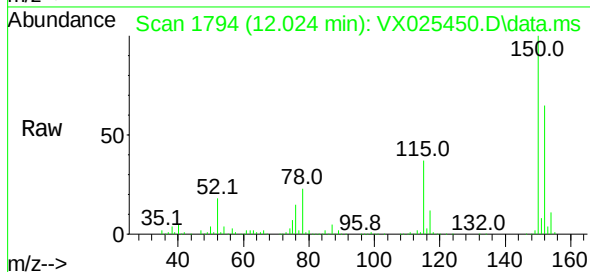
Tgt Ion:152 Resp: 75726

Ion Ratio Lower Upper

152 100

115 57.3 43.3 129.8

150 155.1 0.0 351.2



Abundance Scan 1666 (11.244 min): VX025183.D\data.ms (-1676) (-)

1,2,3-Trichloropropane

Concen: 23.43 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.159 min

Lab File: VX025450.D

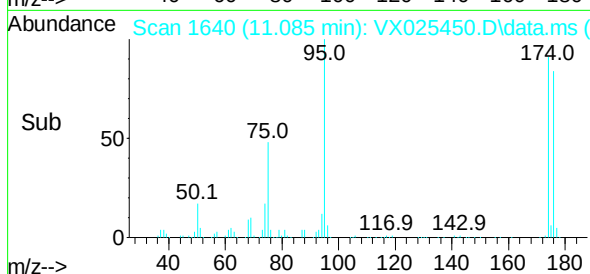
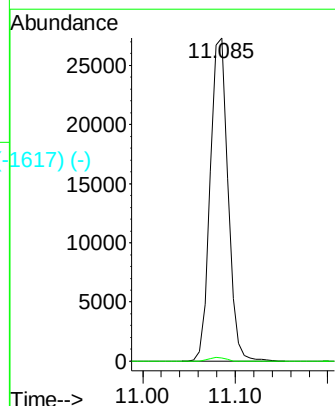
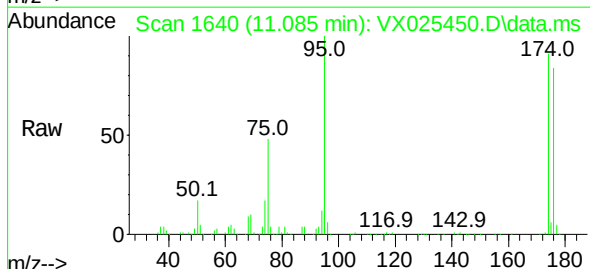
Acq: 03 Dec 2021 00:32

Tgt Ion: 75 Resp: 36331

Ion Ratio Lower Upper

75 100

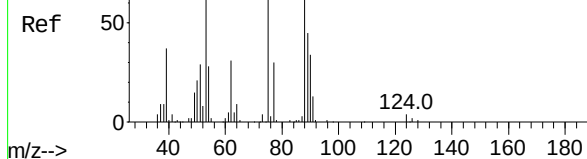
77 1.0 20.0 59.9#



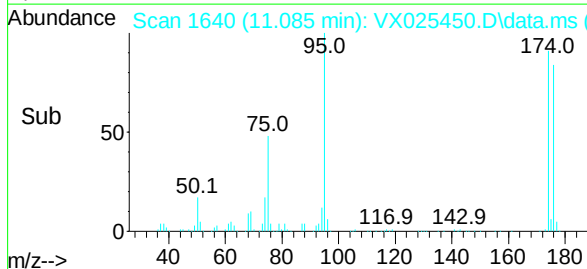
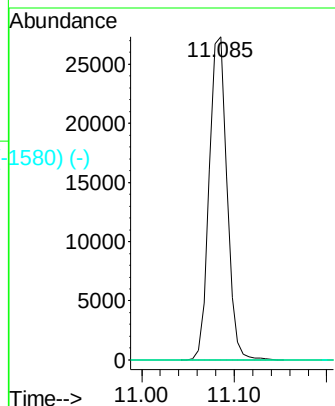
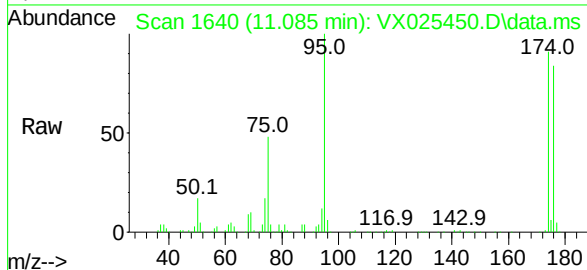
Abundance Scan 1629 (11.018 min): VX025183.D\data.ms (-1629) (-)

trans-1,4-Dichloro-2-butene
Concen: 59.02 ug/l
RT: 11.085 min Scan# 1629
Delta R.T. 0.067 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	75	Resp:	36331
Ion	Ratio	Lower	Upper
75	100		
53	0.0	81.9	122.9#
89	0.0	38.2	57.2#



Abundance Scan 2082 (13.780 min): VX025183.D\data.ms (-2082) (-)

Naphthalene
Concen: Below Cal
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX025450.D
Acq: 03 Dec 2021 00:32

Tgt Ion:	128	Resp:	631
Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.3	15.5
129	0.0	8.8	13.2#

