

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012419\
 Data File : VX007204.D
 Acq On : 24 Jan 2019 15:28
 Operator : JC/SP
 Sample : K1016-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-RO-1-012319

Quant Time: Jan 25 00:03:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	537821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	842980	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	800460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	379846	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	294963	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
35) Dibromofluoromethane	5.50	113	266814	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
50) Toluene-d8	8.71	98	1022709	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
62) 4-Bromofluorobenzene	11.13	95	356814	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	

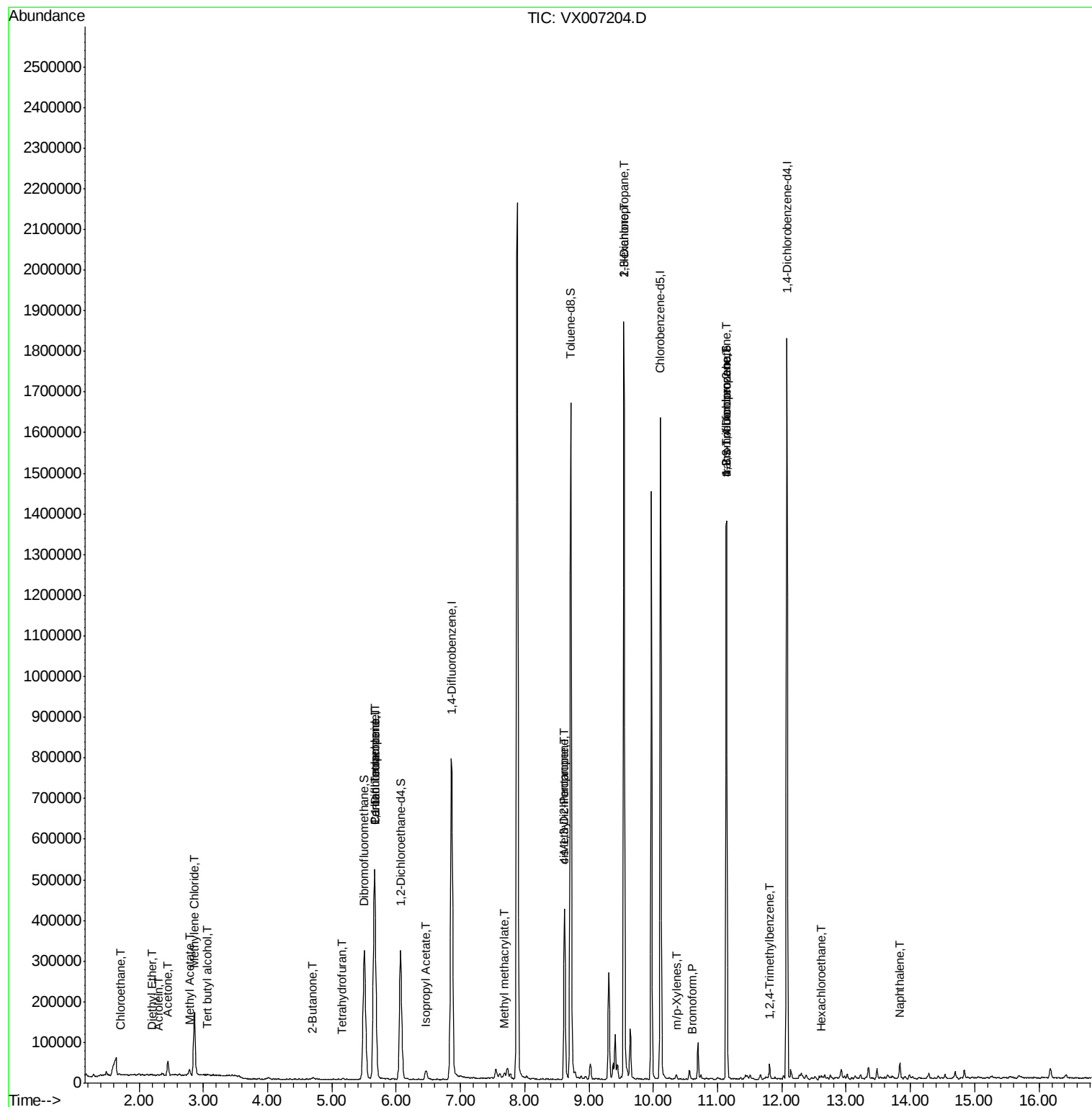
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	827	0.214	ug/l #	42
8) Diethyl Ether	2.19	74	782	0.220	ug/l	90
11) Tert butyl alcohol	3.06	59	1957	1.476	ug/l #	1
13) Acrolein	2.31	56	1296	5.323	ug/l #	27
16) Acetone	2.45	43	36882	13.273	ug/l	93
18) Methyl Acetate	2.79	43	18552	2.305	ug/l	91
20) Methylene Chloride	2.86	84	74338	13.654	ug/l	93
25) 2-Butanone	4.70	43	7549	1.899	ug/l	92
29) Tetrahydrofuran	5.16	42	728	0.282	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	34550	4.714	ug/l #	49
38) Carbon Tetrachloride	5.67	117	49076	6.655	ug/l #	14
43) Isopropyl Acetate	6.46	43	29419	2.374	ug/l	99
48) Methyl methacrylate	7.68	41	16917	2.658	ug/l #	12
49) 1,4-Dioxane	7.74	88	74	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	138540	17.393	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	70538	8.565	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	16581	1.759	ug/l #	44
59) 2-Hexanone	9.54	43	207457	34.178	ug/l #	52
68) m/p-Xylenes	10.35	106	2892	0.255	ug/l	90
71) Bromoform	10.61	173	155	4.754	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	171060	22.223	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	171060	65.775	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	13024	0.579	ug/l	98
90) Hexachloroethane	12.62	117	889	3.128	ug/l #	6
95) Naphthalene	13.83	128	25222	0.922	ug/l #	95

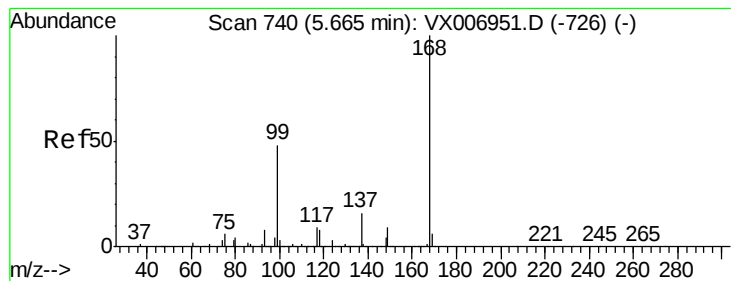
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

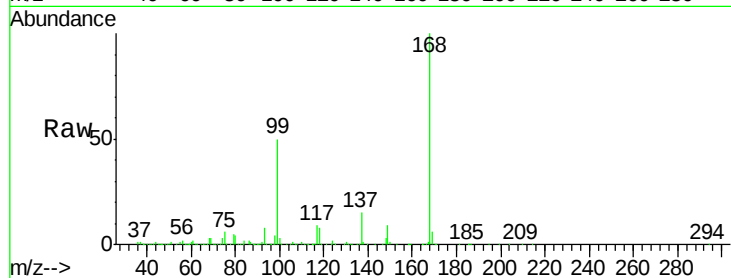
TR-05-RO-1-012319

Tot Ion:168 Resp: 537821

Ion Ratio Lower Upper

168 100

99 50.0 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

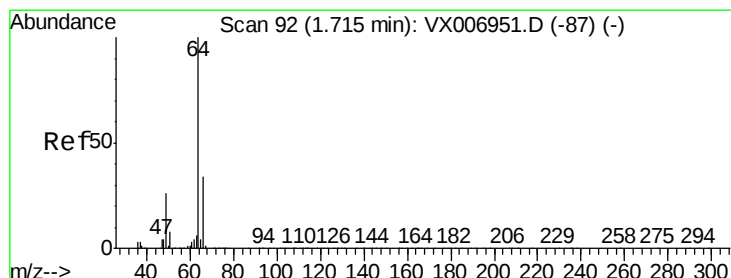
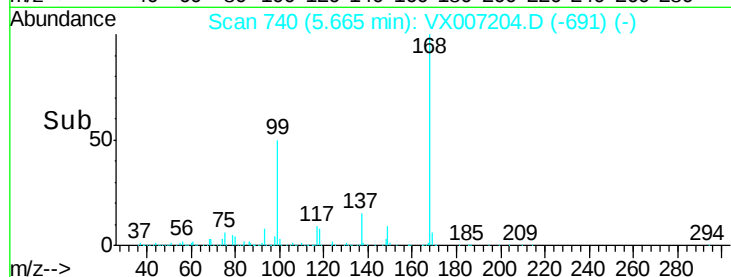
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.214 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX007204.D

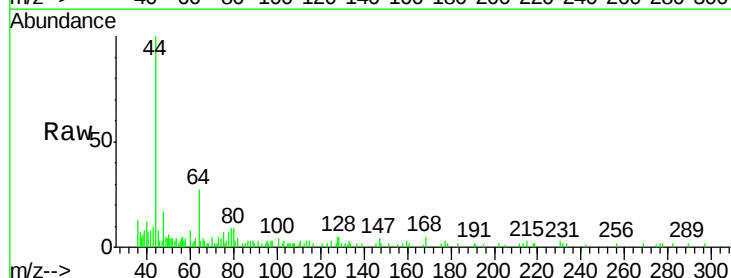
Acq: 24 Jan 2019 15:28

Tgt Ion: 64 Resp: 827

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

1000

800

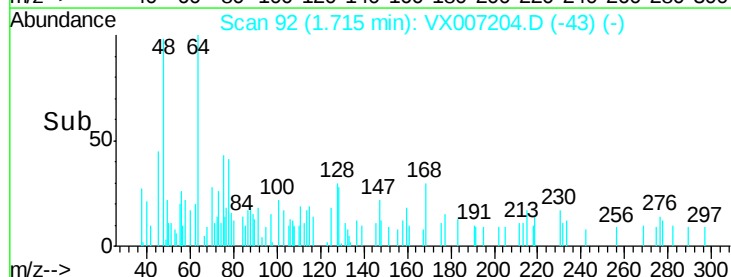
600

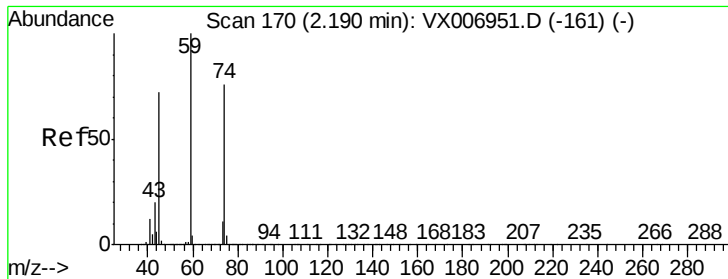
400

200

0

Time--> 1.68 1.70 1.72 1.74





#8

Diethyl Ether

Concen: 0.220 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

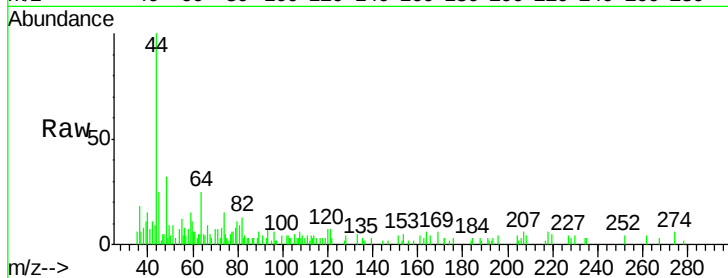
TR-05-RO-1-012319

Tot Ion: 74 Resp: 782

Ion Ratio Lower Upper

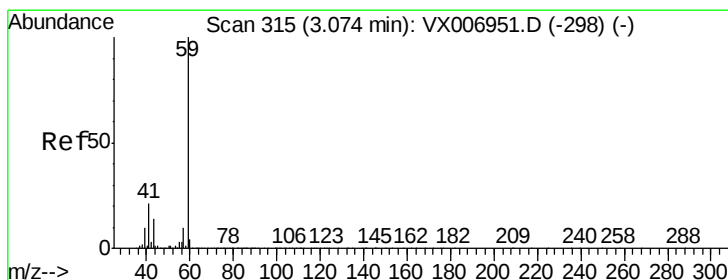
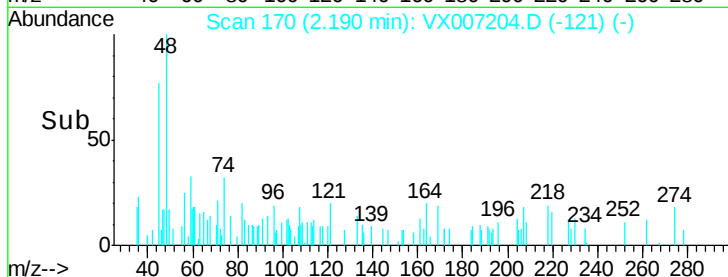
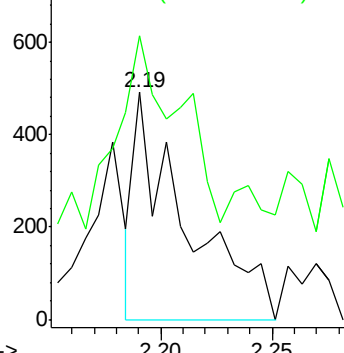
74 100

45 102.3 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.476 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007204.D

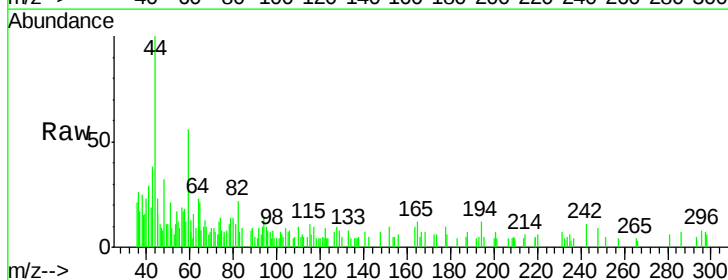
Acq: 24 Jan 2019 15:28

Tgt Ion: 59 Resp: 1957

Ion Ratio Lower Upper

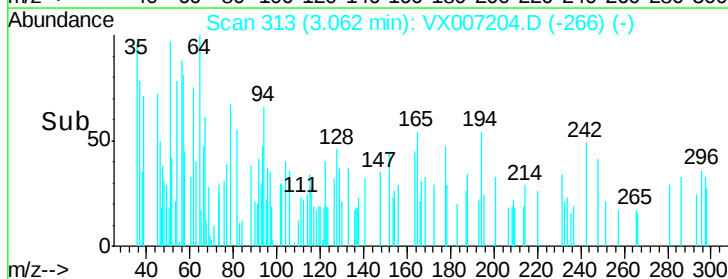
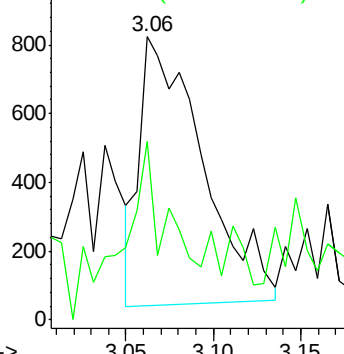
59 100

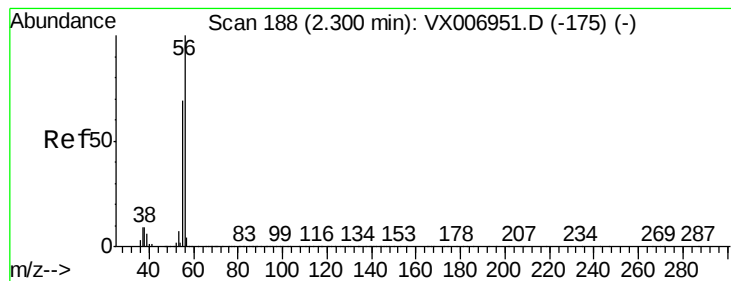
57 53.1 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 5.323 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

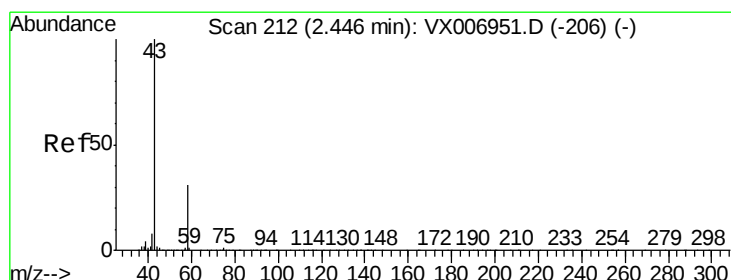
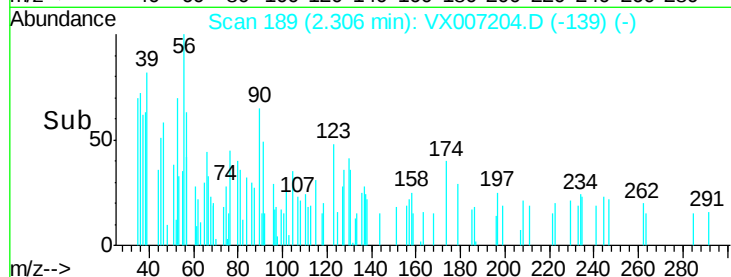
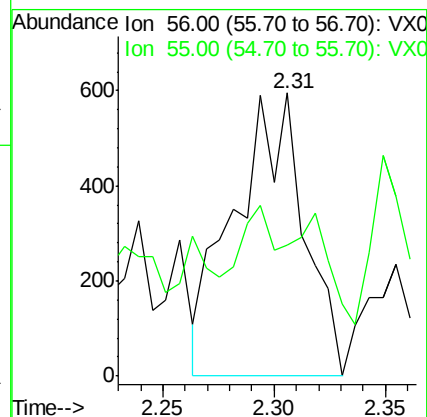
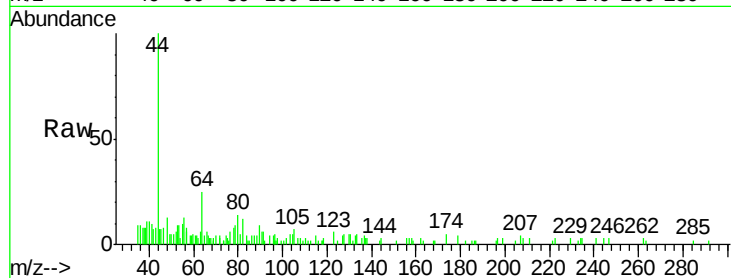
TR-05-RO-1-012319

Tot Ion: 56 Resp: 1296

Ion Ratio Lower Upper

56 100

55 11.7 58.2 87.4#



#16

Acetone

Concen: 13.273 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007204.D

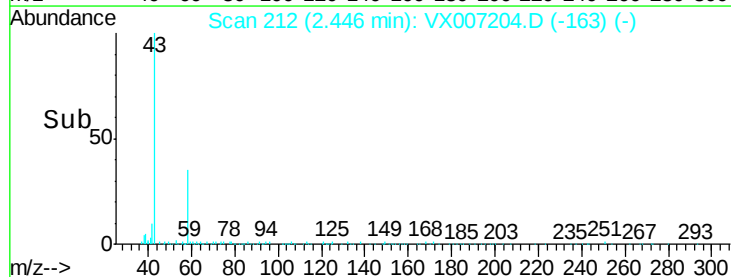
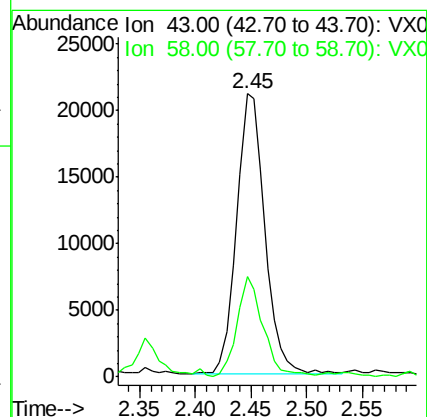
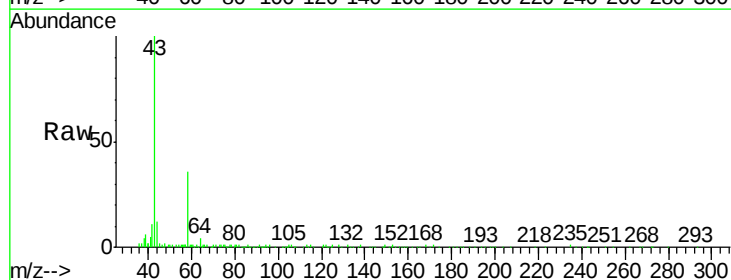
Acq: 24 Jan 2019 15:28

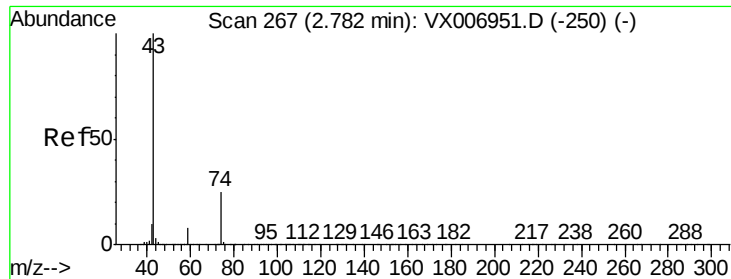
Tgt Ion: 43 Resp: 36882

Ion Ratio Lower Upper

43 100

58 35.0 25.0 37.6

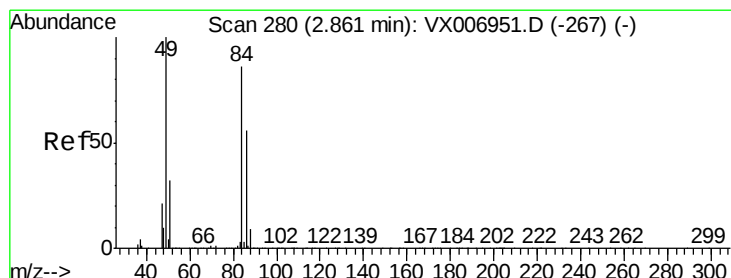
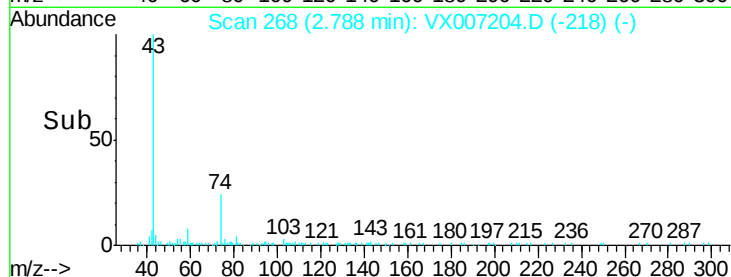
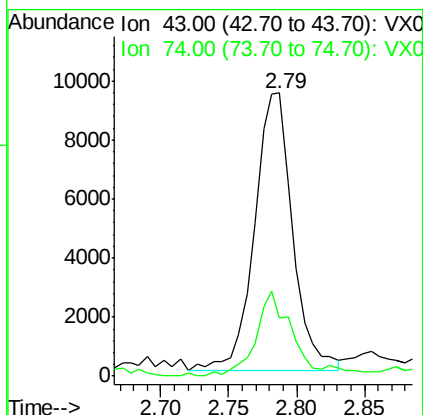
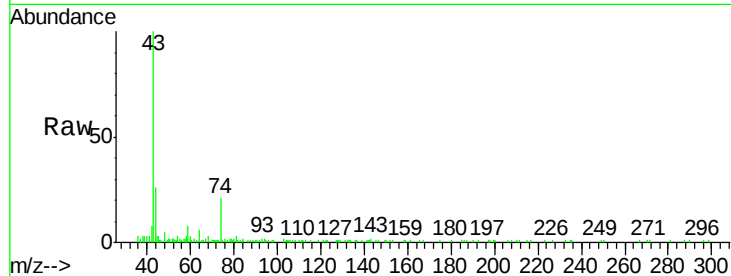




#18
Methyl Acetate
Concen: 2.305 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007204.D
Acq: 24 Jan 2019 15:28

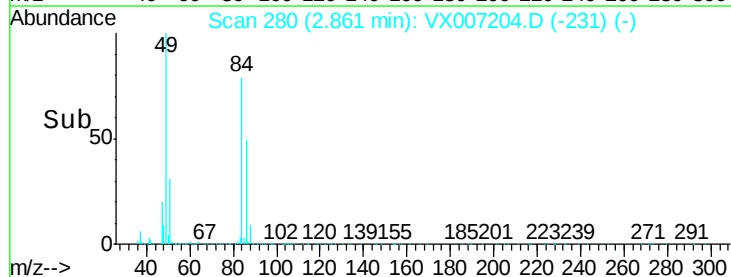
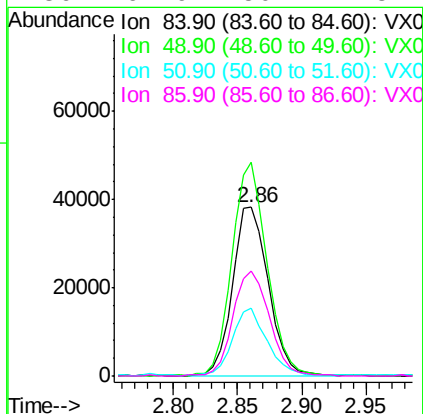
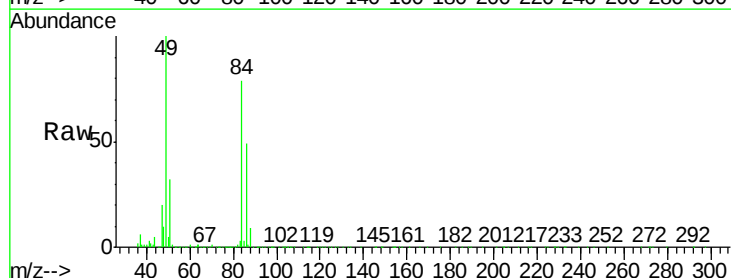
Instrument :
MSVOA_X
ClientSampleId :
TR-05-RO-1-012319

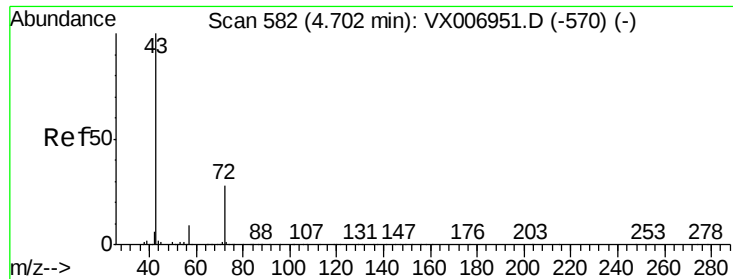
Tot Ion: 43 Resp: 18552
Ion Ratio Lower Upper
43 100
74 27.8 18.6 28.0



#20
Methylene Chloride
Concen: 13.654 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007204.D
Acq: 24 Jan 2019 15:28

Tgt Ion: 84 Resp: 74338
Ion Ratio Lower Upper
84 100
49 126.3 91.8 137.6
51 39.3 28.5 42.7
86 61.9 50.2 75.2





#25

2-Butanone

Concen: 1.899 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

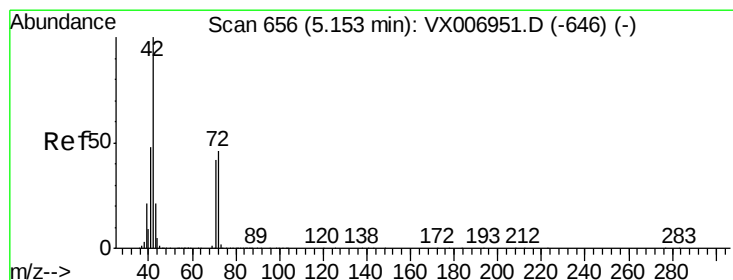
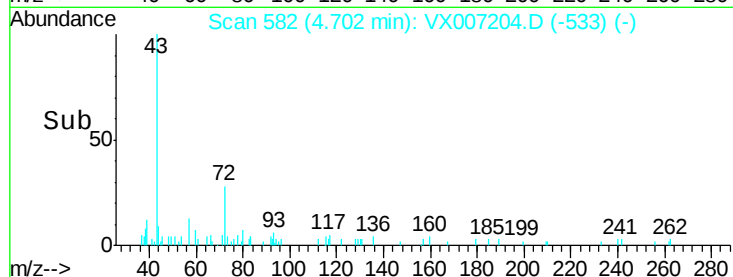
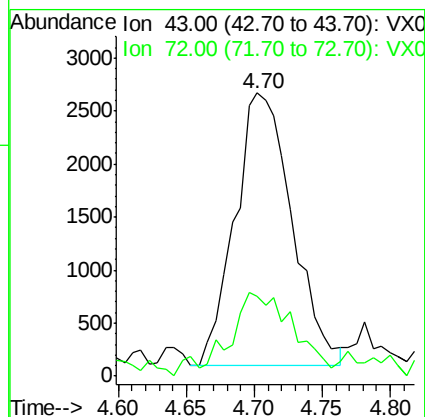
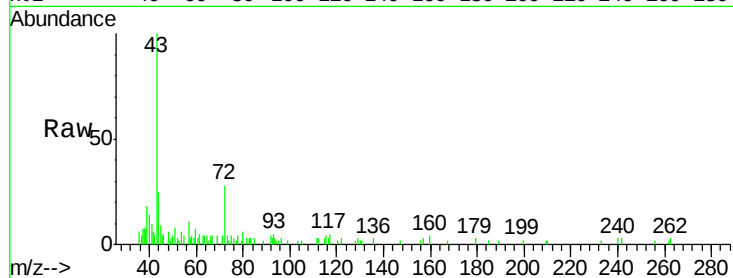
TR-05-RO-1-012319

Tot Ion: 43 Resp: 7549

Ion Ratio Lower Upper

43 100

72 23.8 22.4 33.6



#29

Tetrahydrofuran

Concen: 0.282 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

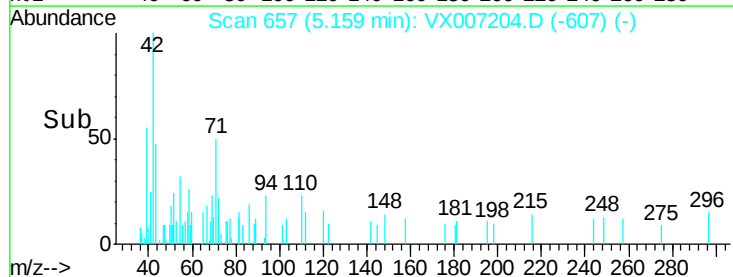
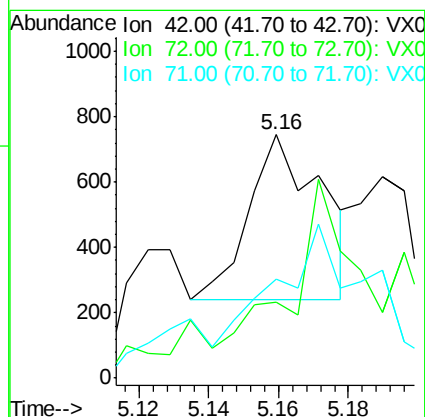
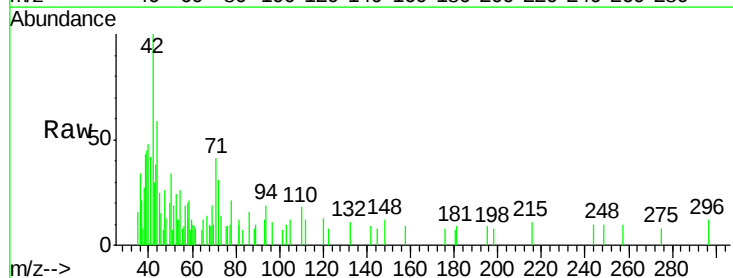
Tgt Ion: 42 Resp: 728

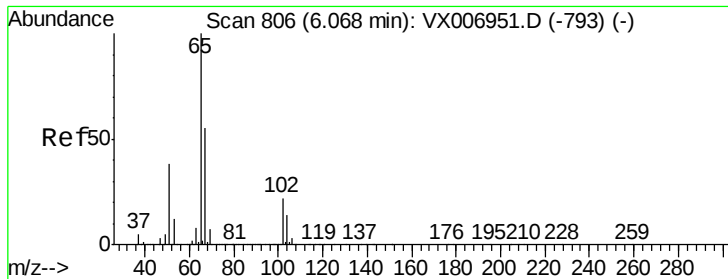
Ion Ratio Lower Upper

42 100

72 142.9 38.9 58.3#

71 117.6 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 52.478 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

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ClientSampleId :

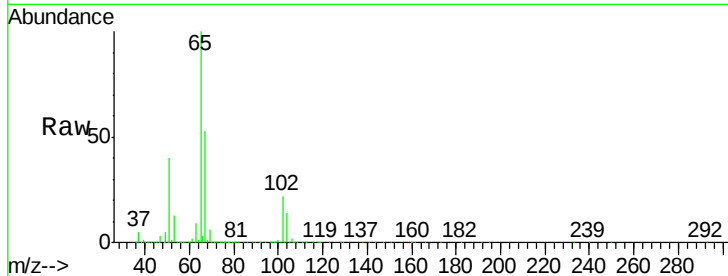
TR-05-RO-1-012319

Tot Ion: 65 Resp: 294963

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

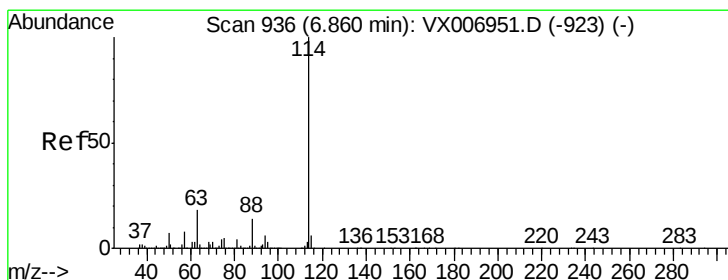
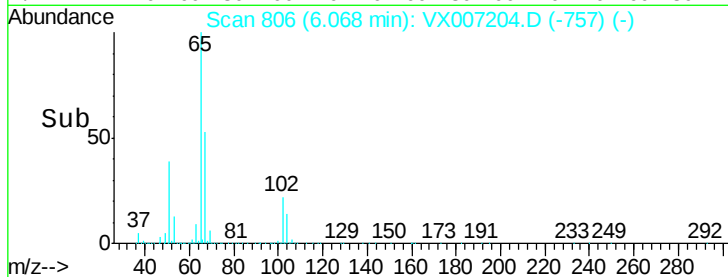
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

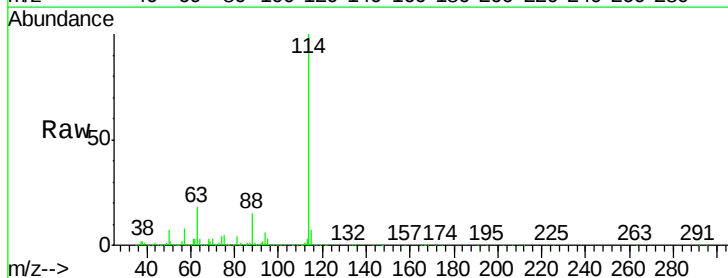
Tgt Ion: 114 Resp: 842980

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

88 15.2 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

500000

400000

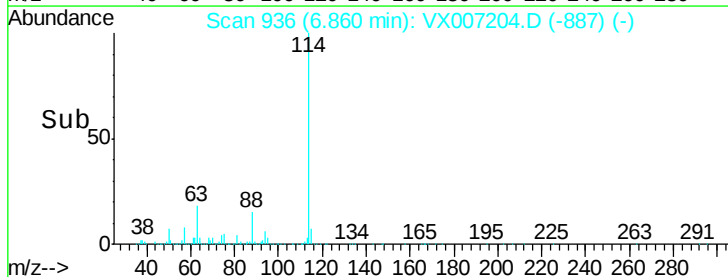
300000

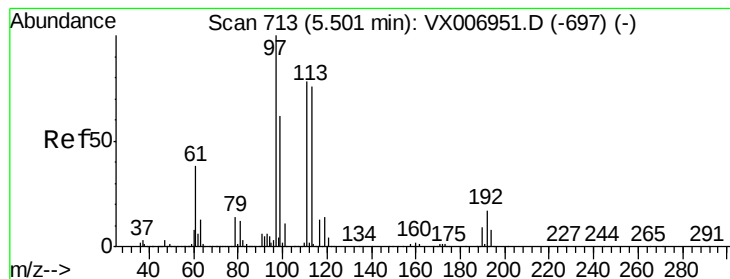
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 49.425 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-1-012319

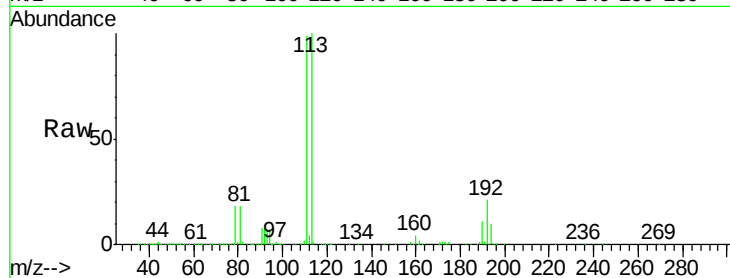
Tot Ion:113 Resp: 266814

Ion Ratio Lower Upper

113 100

111 101.1 81.6 122.4

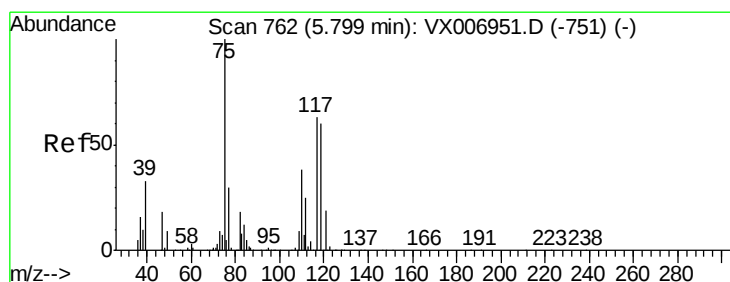
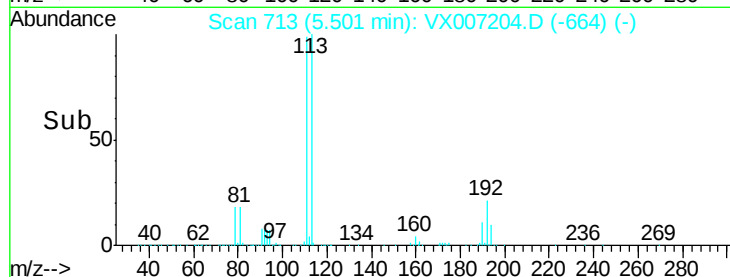
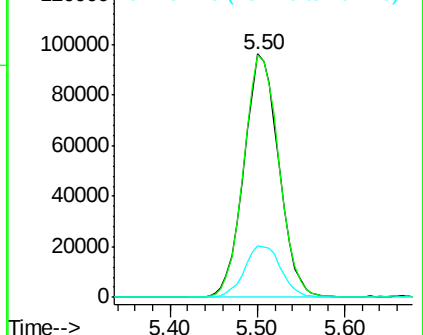
192 22.3 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.714 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

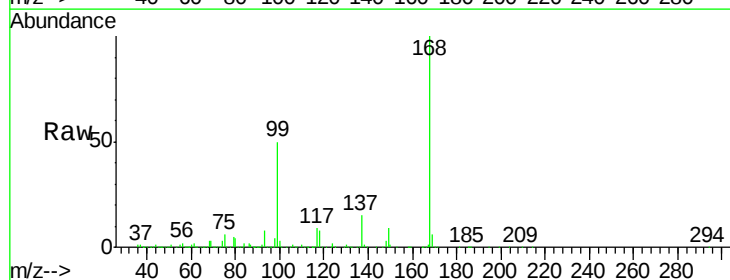
Tgt Ion: 75 Resp: 34550

Ion Ratio Lower Upper

75 100

110 10.9 20.2 60.5#

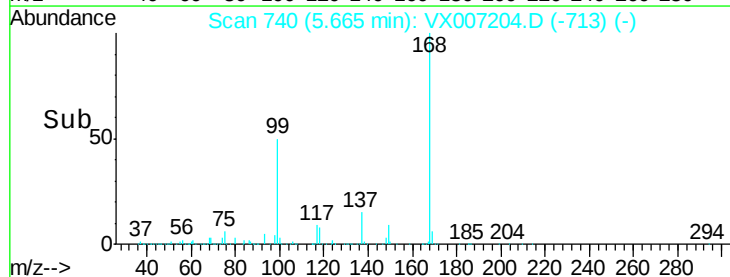
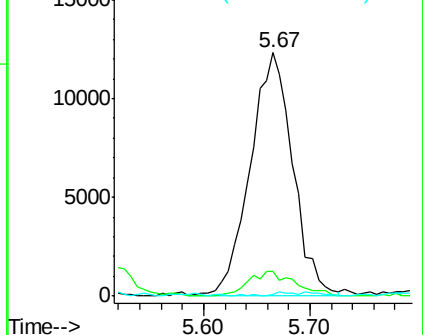
77 0.8 24.8 37.2#

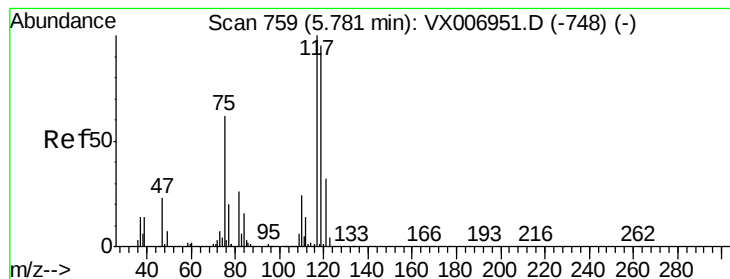


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.655 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-1-012319

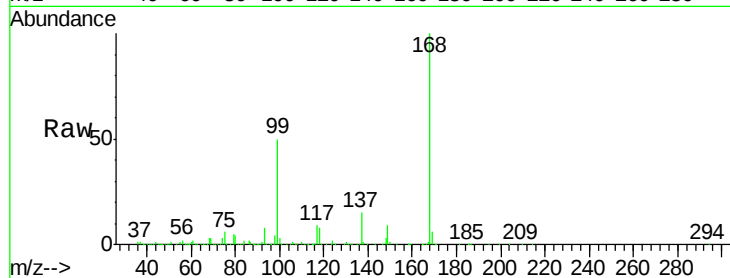
Tot Ion:117 Resp: 49076

Ion Ratio Lower Upper

117 100

119 3.9 79.4 119.2#

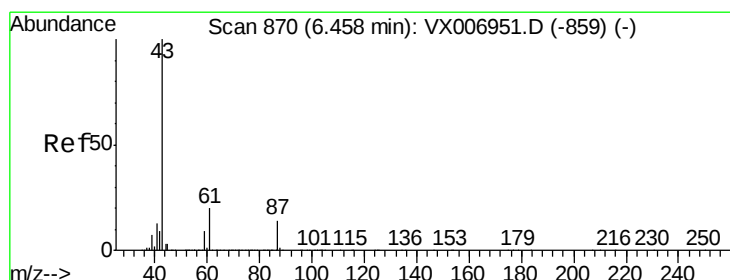
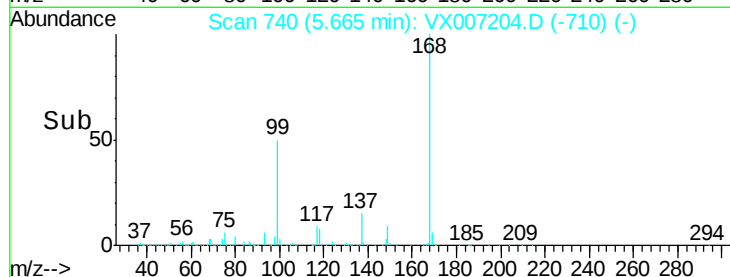
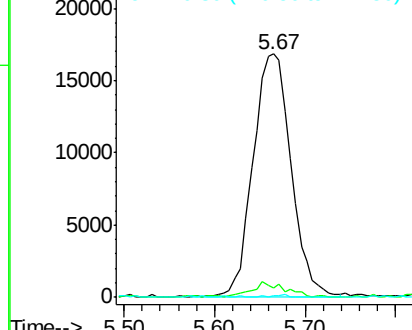
121 0.5 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.374 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

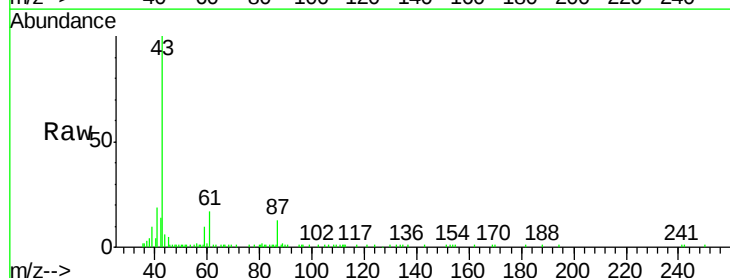
Tgt Ion: 43 Resp: 29419

Ion Ratio Lower Upper

43 100

61 21.6 16.8 25.2

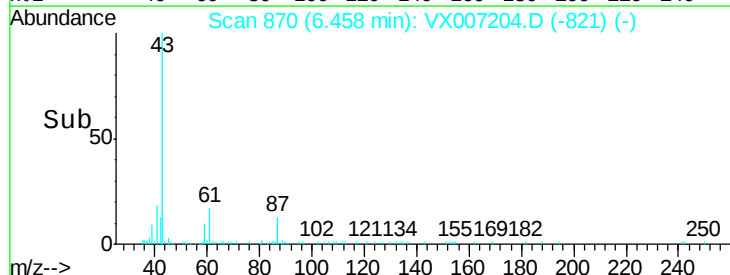
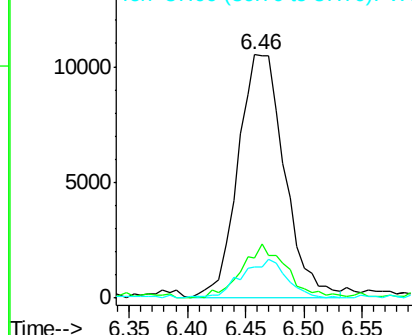
87 15.4 12.4 18.6

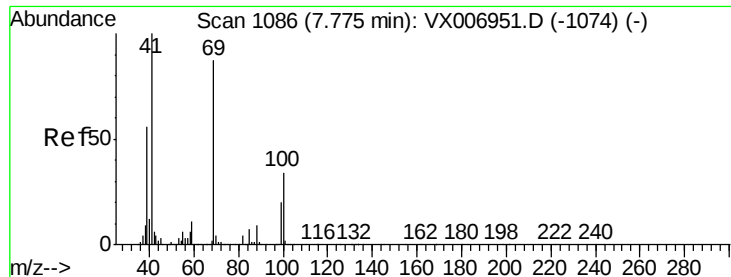


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.658 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-1-012319

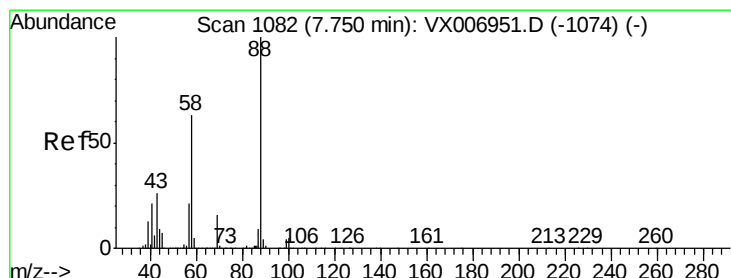
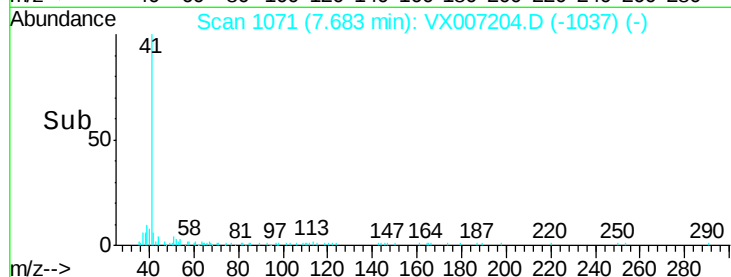
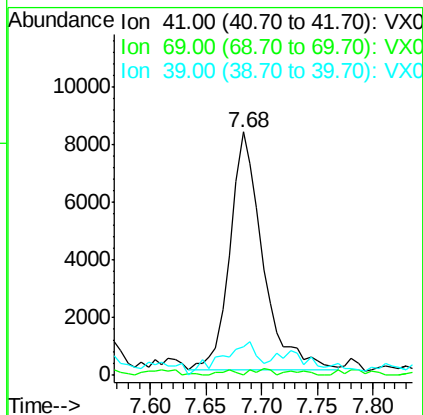
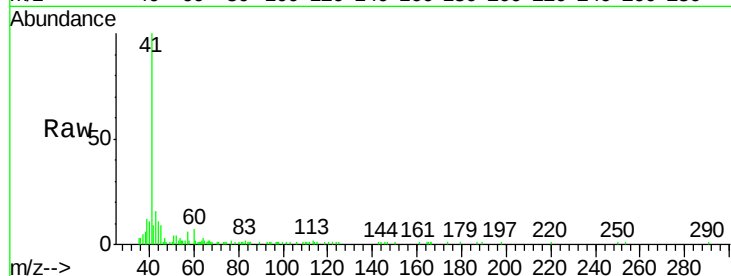
Tot Ion: 41 Resp: 16917

Ion Ratio Lower Upper

41 100

69 1.1 72.4 108.6#

39 0.0 45.8 68.8#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

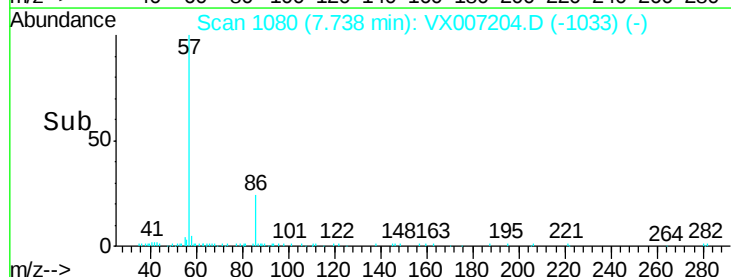
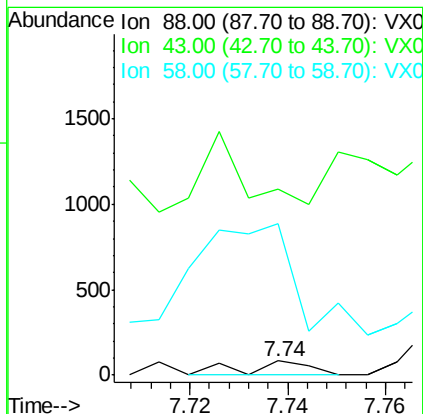
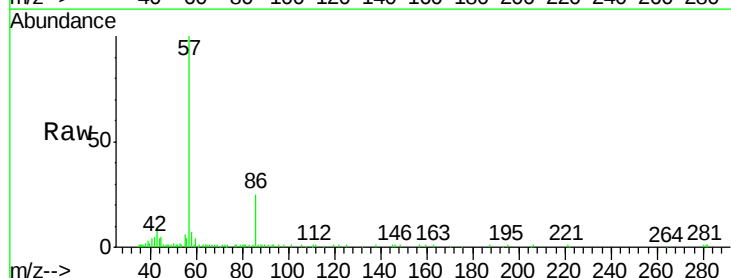
Tgt Ion: 88 Resp: 74

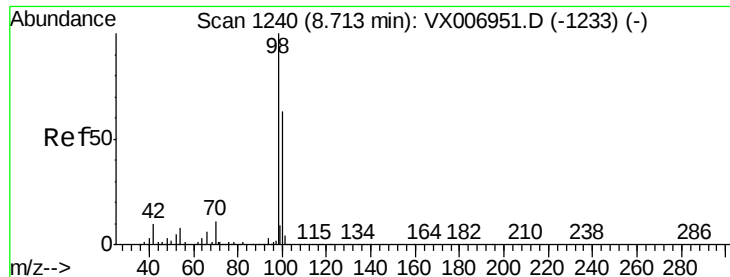
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 1804.1 51.0 76.4#





#50

Toluene-d8

Concen: 51.757 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

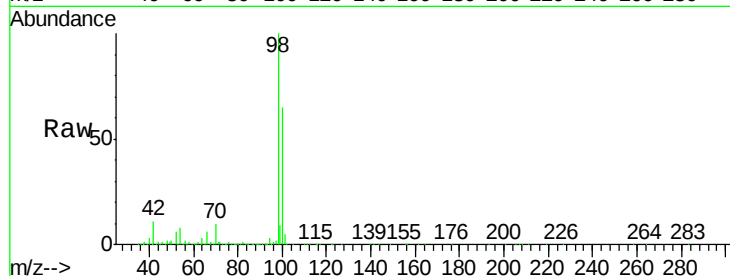
TR-05-RO-1-012319

Tot Ion: 98 Resp: 1022709

Ion Ratio Lower Upper

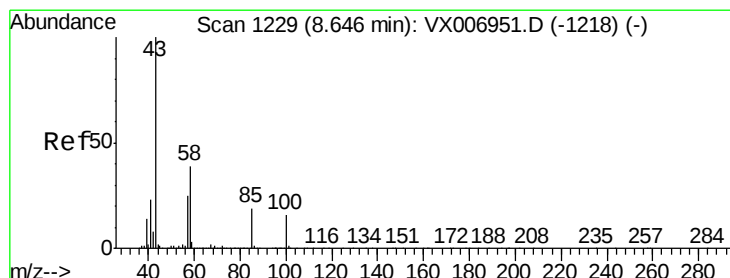
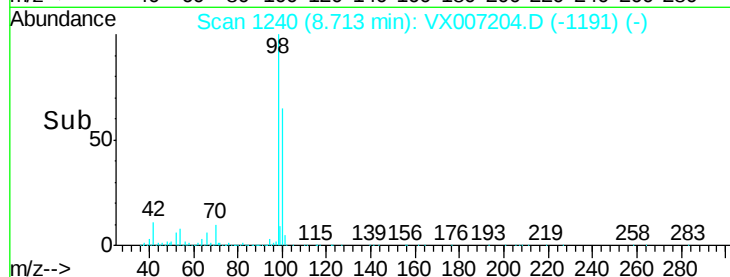
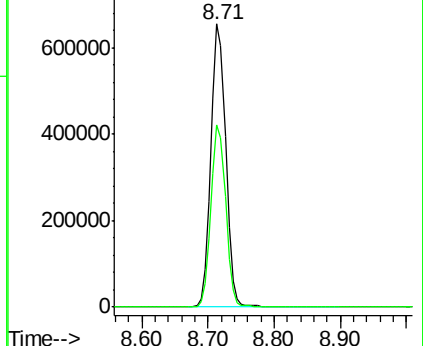
98 100

100 63.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 17.393 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007204.D

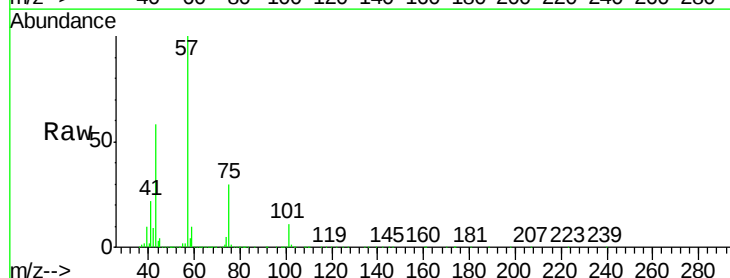
Acq: 24 Jan 2019 15:28

Tgt Ion: 43 Resp: 138540

Ion Ratio Lower Upper

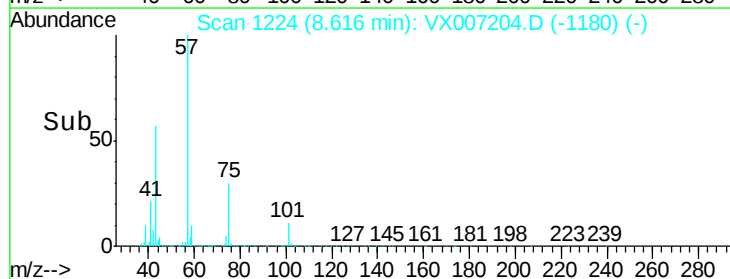
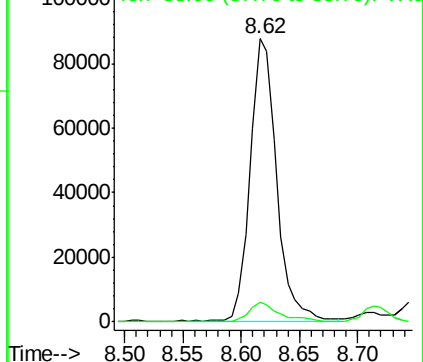
43 100

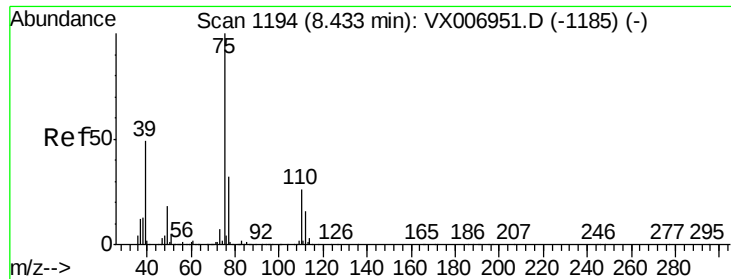
58 8.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 8.565 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-1-012319

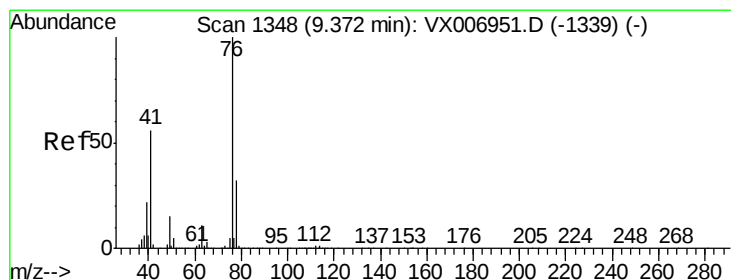
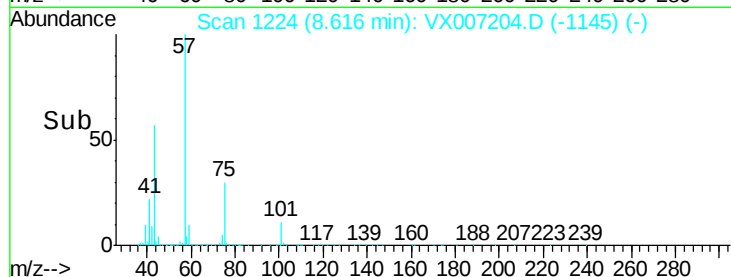
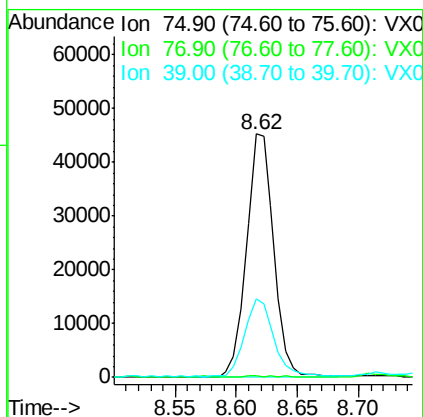
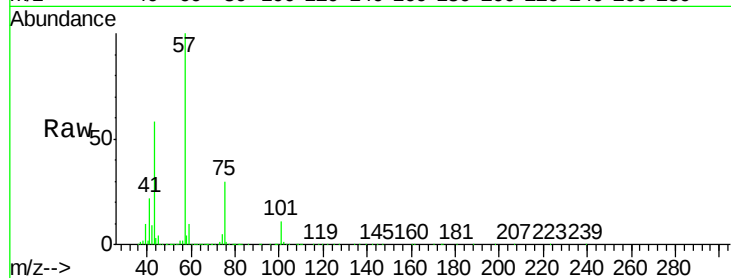
Tot Ion: 75 Resp: 70538

Ion Ratio Lower Upper

75 100

77 0.9 26.2 39.2#

39 32.0 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.759 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007204.D

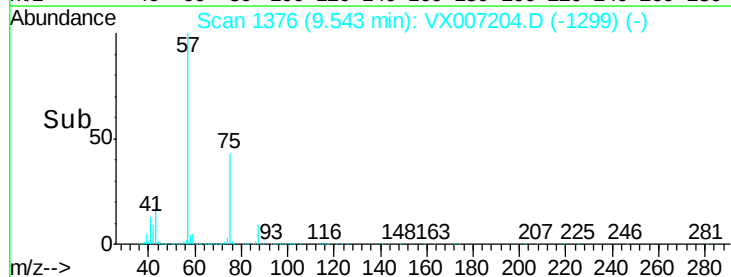
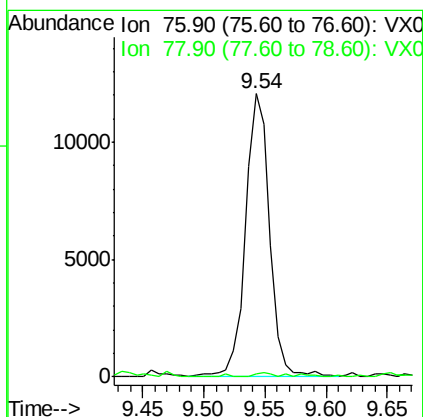
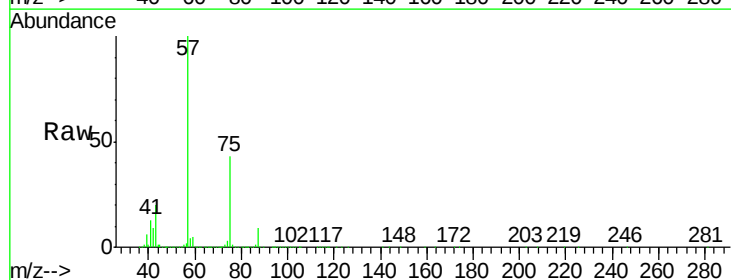
Acq: 24 Jan 2019 15:28

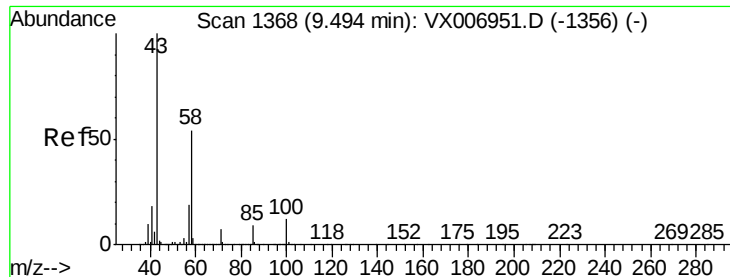
Tgt Ion: 76 Resp: 16581

Ion Ratio Lower Upper

76 100

78 1.1 26.0 39.0#





#59

2-Hexanone

Concen: 34.178 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

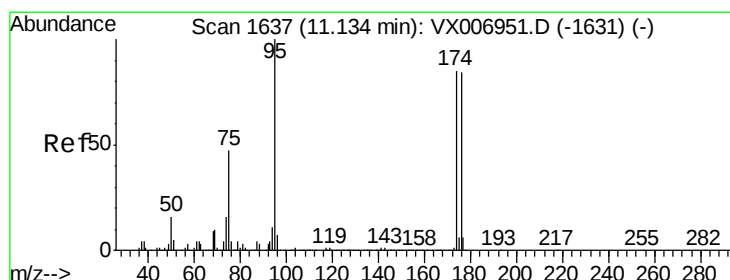
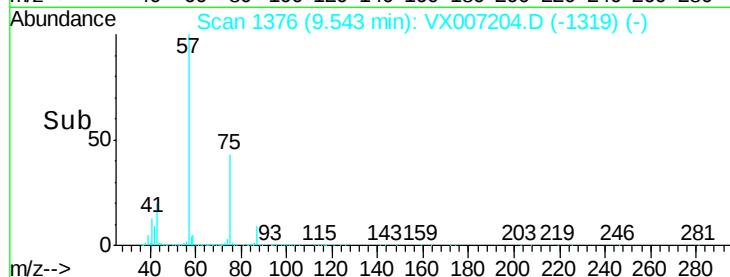
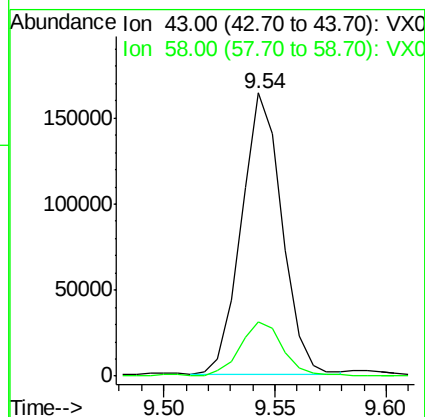
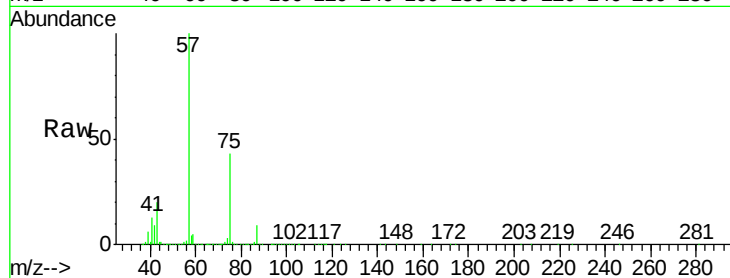
TR-05-RO-1-012319

Tot Ion: 43 Resp: 207457

Ion Ratio Lower Upper

43 100

58 20.5 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 51.797 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

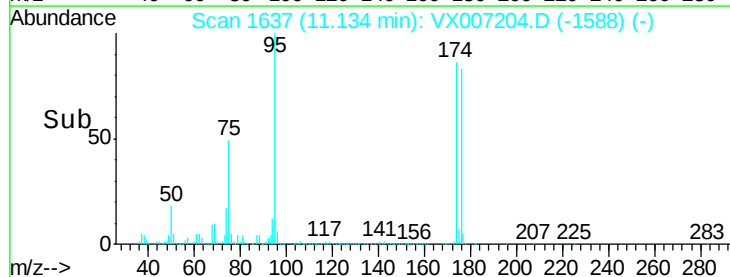
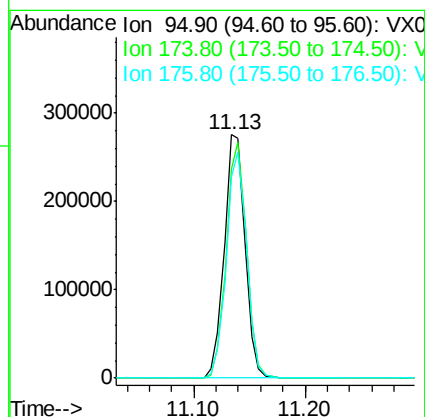
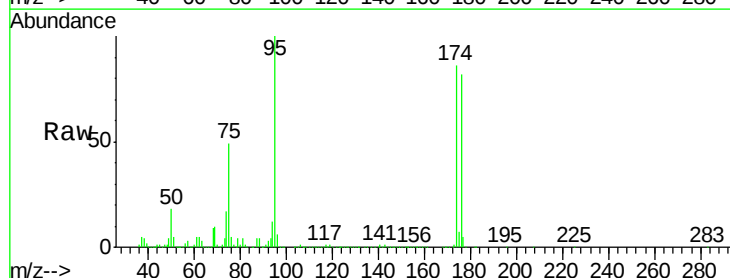
Tgt Ion: 95 Resp: 356814

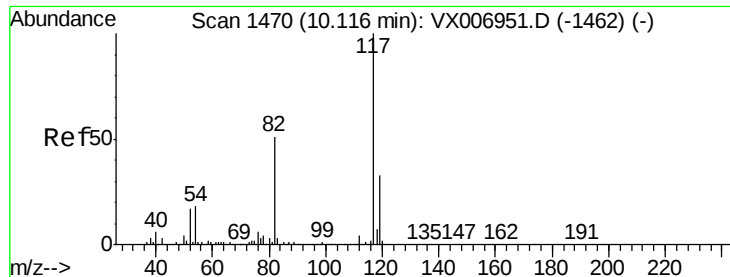
Ion Ratio Lower Upper

95 100

174 94.1 0.0 182.2

176 90.6 0.0 178.8

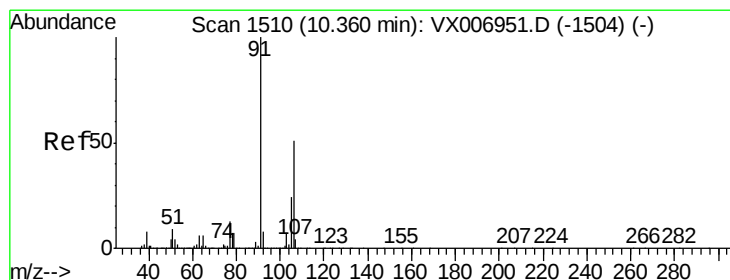
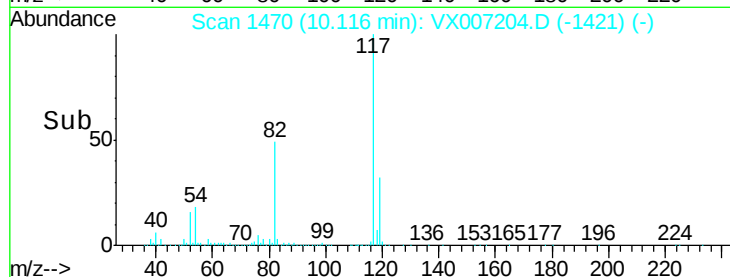
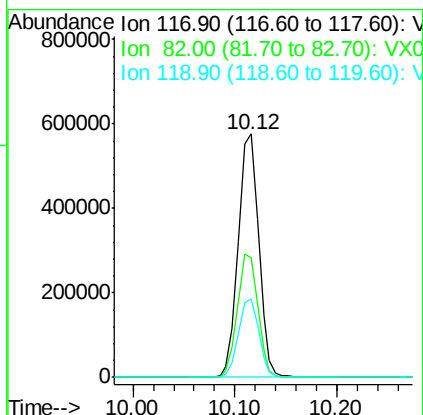
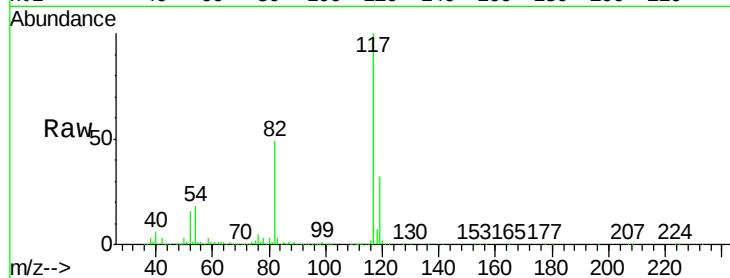




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX007204.D
Acq: 24 Jan 2019 15:28

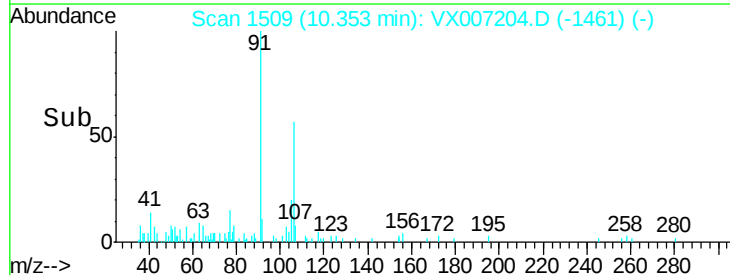
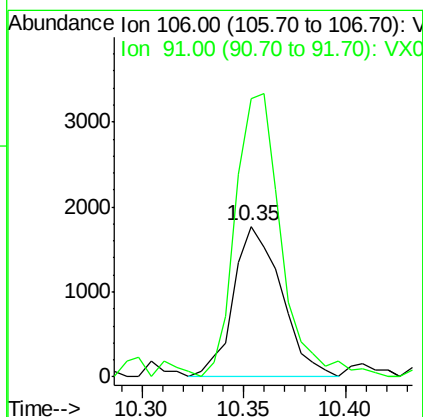
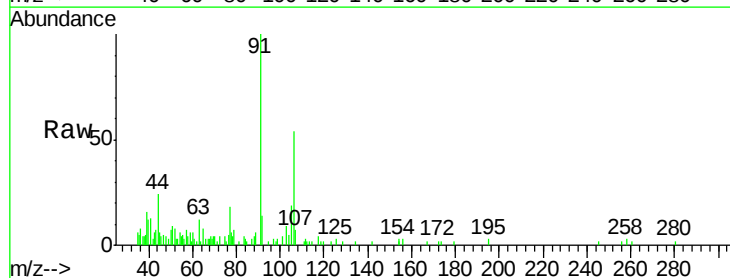
Instrument :
MSVOA_X
ClientSampleId :
TR-05-RO-1-012319

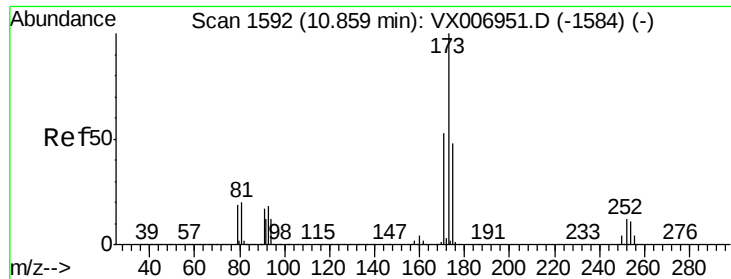
Tot Ion:117 Resp: 800460
Ion Ratio Lower Upper
117 100
82 49.3 41.0 61.6
119 32.1 25.4 38.0



#68
m/p-Xylenes
Concen: 0.255 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX007204.D
Acq: 24 Jan 2019 15:28

Tgt Ion:106 Resp: 2892
Ion Ratio Lower Upper
106 100
91 179.6 155.8 233.6





#71

Bromoform

Concen: 4.754 ug/l

RT: 10.61 min Scan# 1551

Delta R.T. -0.25 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-1-012319

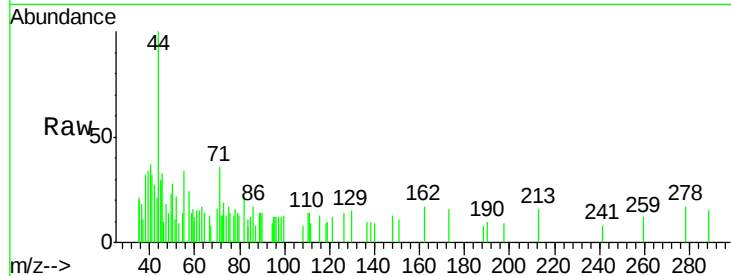
Tot Ion:173 Resp: 155

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

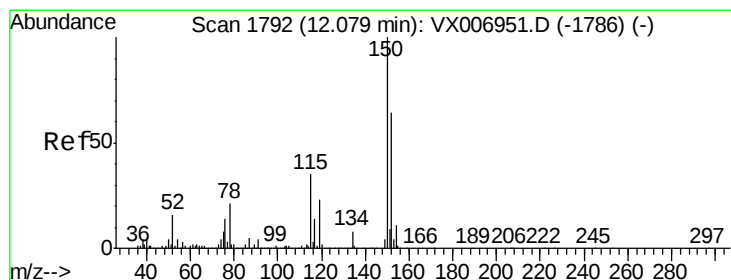
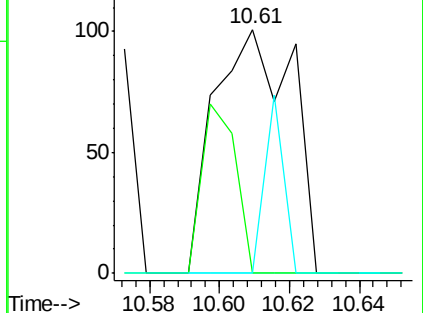
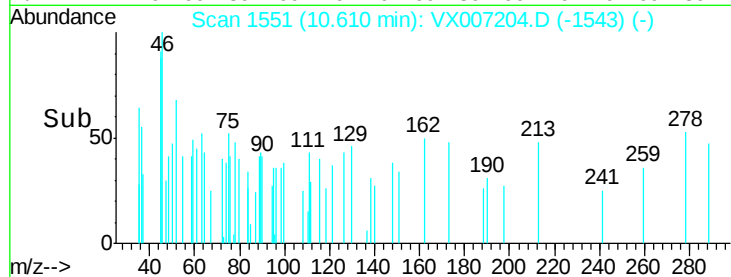
254 17.4 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

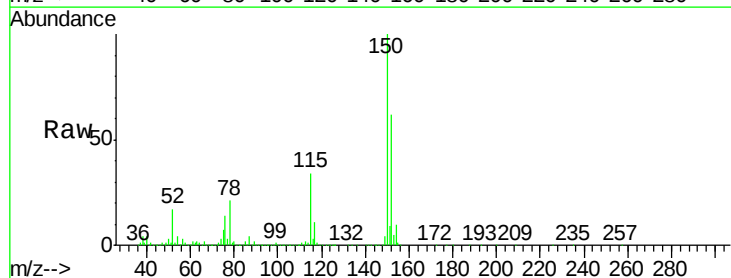
Tgt Ion:152 Resp: 379846

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.2

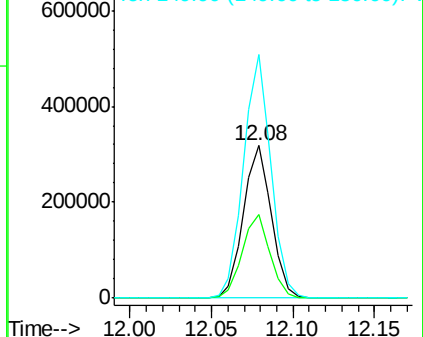
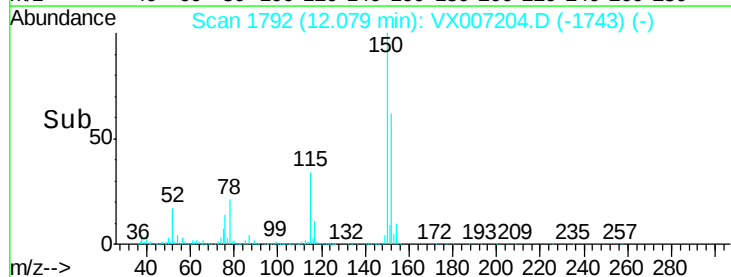
150 157.3 0.0 344.8

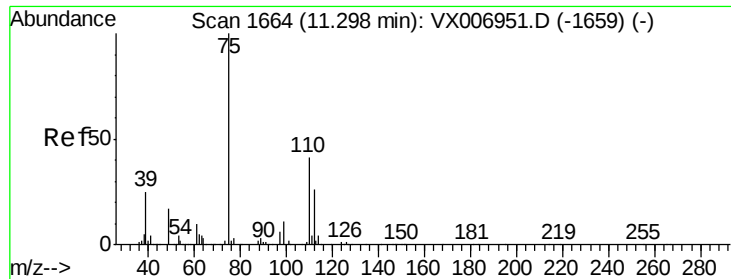


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.223 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

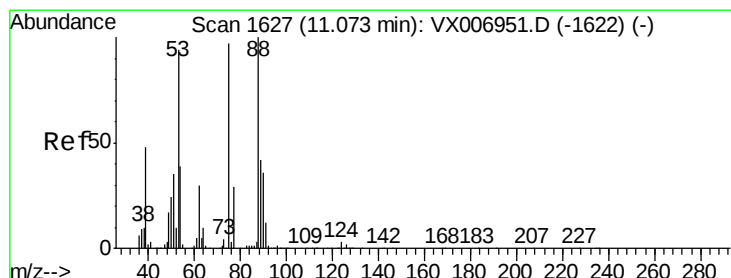
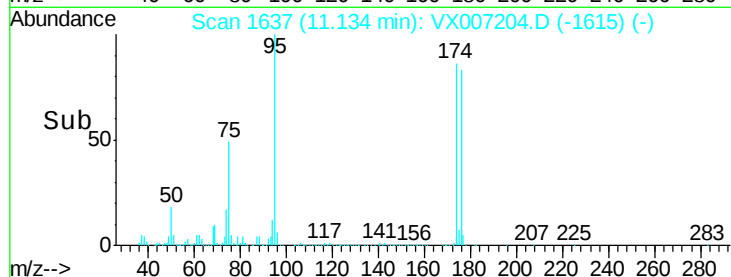
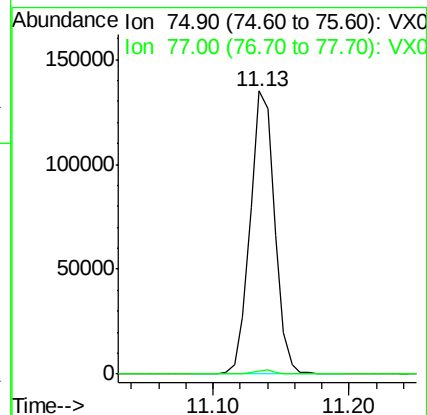
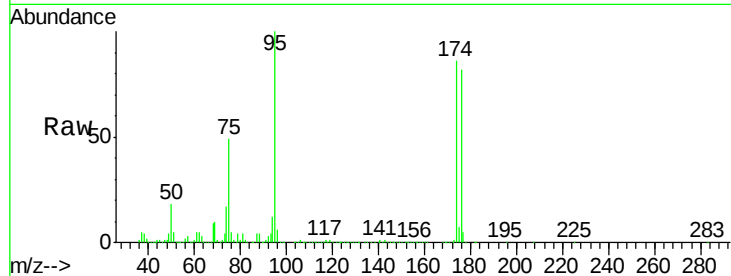
TR-05-RO-1-012319

Tot Ion: 75 Resp: 171060

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.775 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

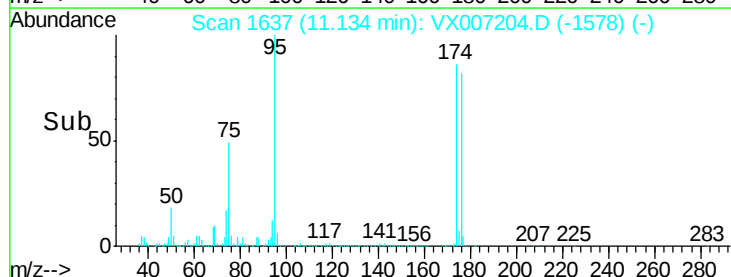
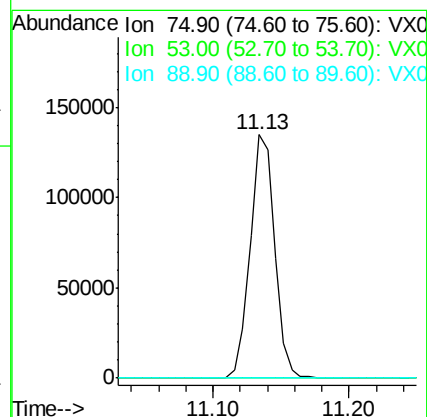
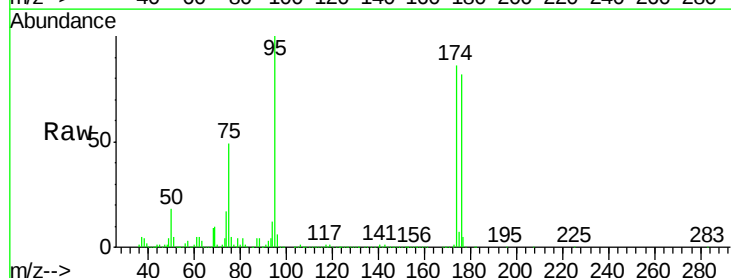
Tgt Ion: 75 Resp: 171060

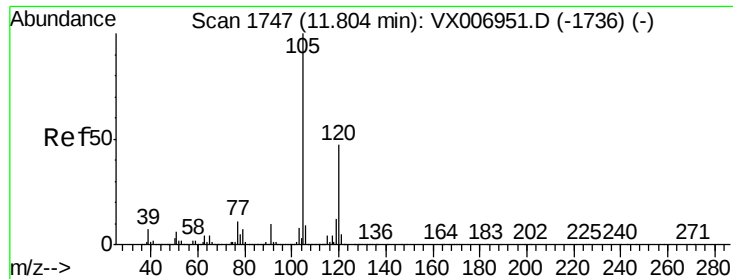
Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#

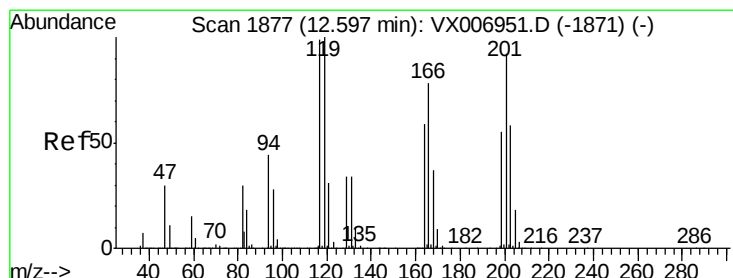
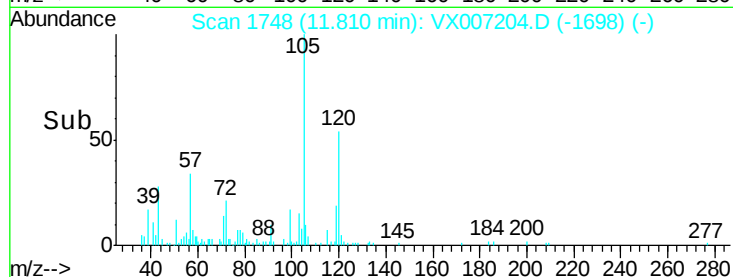
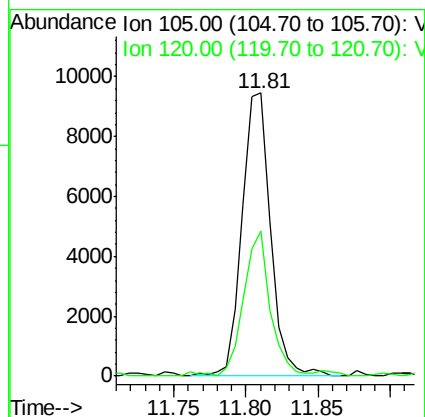
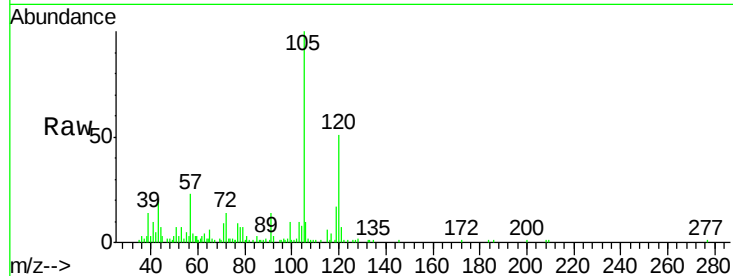




#84
 1,2,4-Trimethylbenzene
 Concen: 0.579 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: VX007204.D
 Acq: 24 Jan 2019 15:28

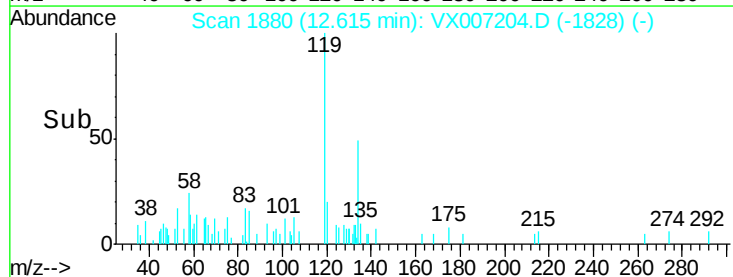
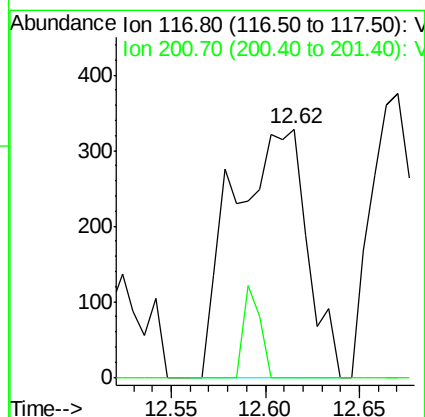
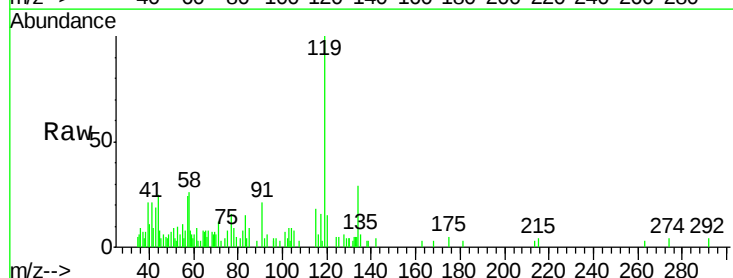
Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-RO-1-012319

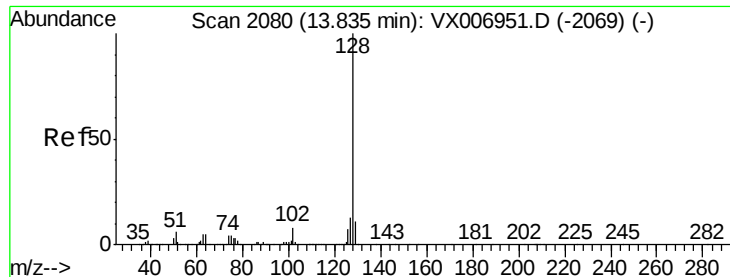
Tot Ion:105 Resp: 13024
 Ion Ratio Lower Upper
 105 100
 120 47.5 23.2 69.6



#90
 Hexachloroethane
 Concen: 3.128 ug/l
 RT: 12.62 min Scan# 1880
 Delta R.T. 0.02 min
 Lab File: VX007204.D
 Acq: 24 Jan 2019 15:28

Tgt Ion:117 Resp: 889
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.9 128.7#





#95

Naphthalene

Concen: 0.922 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007204.D

Acq: 24 Jan 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

TR-05-RO-1-012319

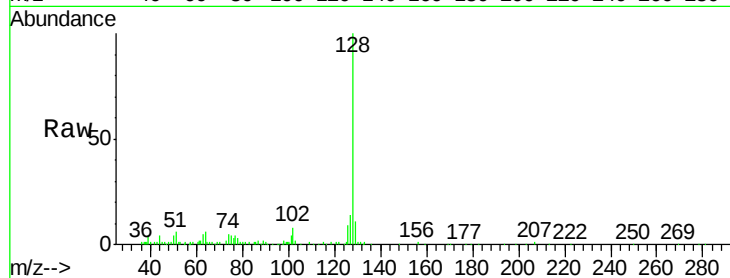
Tot Ion:128 Resp: 25222

Ion Ratio Lower Upper

128 100

127 15.1 10.1 15.1#

129 11.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

