

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010920\
 Data File : VX014506.D
 Acq On : 09 Jan 2020 18:56
 Operator : JC/SP
 Sample : L1047-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FMI109

Quant Time: Jan 10 06:50:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	514352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	791658	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	717120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	329116	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	280697	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
35) Dibromofluoromethane	5.49	113	234974	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
50) Toluene-d8	8.71	98	938892	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	11.13	95	323297	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	

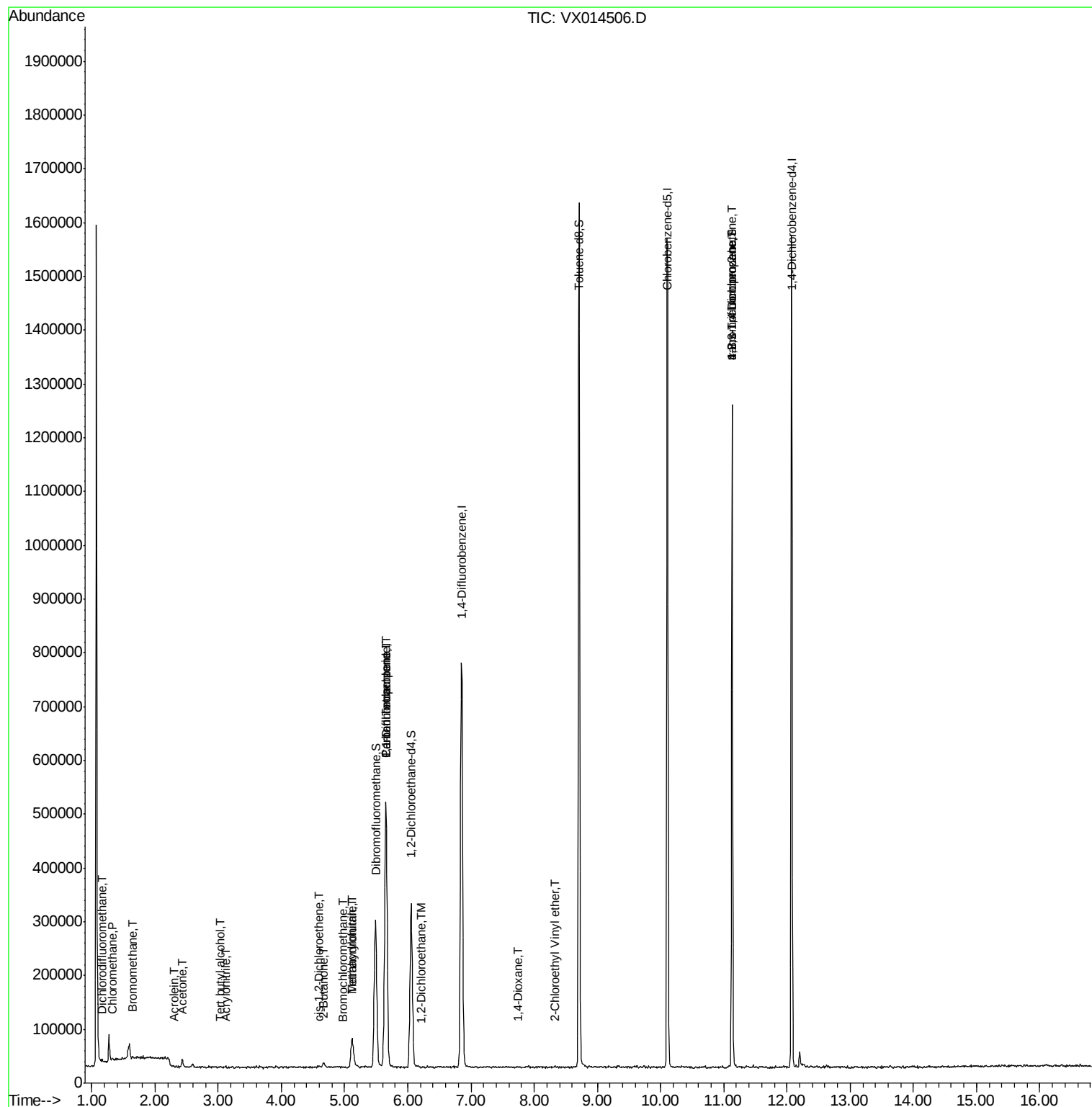
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	604	0.347	ug/l #	49
3) Chloromethane	1.32	50	1866	0.285	ug/l #	78
5) Bromomethane	1.64	94	1405	0.290	ug/l #	75
11) Tert butyl alcohol	3.02	59	509	0.425	ug/l #	1
13) Acrolein	2.30	56	452	0.470	ug/l #	15
15) Acrylonitrile	3.13	53	670	0.232	ug/l #	24
16) Acetone	2.43	43	16294	1.506	ug/l #	88
25) 2-Butanone	4.66	43	13599	3.171	ug/l #	86
27) cis-1,2-Dichloroethene	4.58	96	1523	0.246	ug/l #	85
28) Bromochloromethane	4.97	49	953	0.241	ug/l #	26
29) Tetrahydrofuran	5.12	42	55254	21.789	ug/l	96
36) 1,1-Dichloropropene	5.65	75	33583	4.511	ug/l #	50
38) Carbon Tetrachloride	5.65	117	45407	6.628	ug/l #	18
41) Methacrylonitrile	5.12	41	29410	6.820	ug/l #	46
42) 1,2-Dichloroethane	6.21	62	1680	0.217	ug/l	93
49) 1,4-Dioxane	7.75	88	398	3.002	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.34	63	1039	0.351	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	156553	22.990	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	156553	60.782	ug/l #	12
88) 1,4-Dichlorobenzene	11.98	146	423	Below Cal		67
93) 1,2,4-Trichlorobenzene	13.64	180	501	Below Cal	#	43
96) 1,2,3-Trichlorobenzene	14.01	180	355	Below Cal	#	23

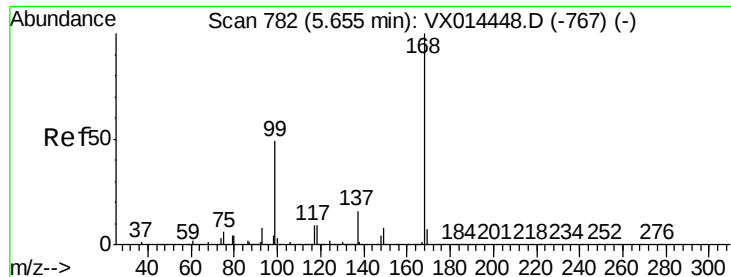
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010920\
Data File : VX014506.D
Acq On : 09 Jan 2020 18:56
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Quant Time: Jan 10 06:50:29 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampleId :

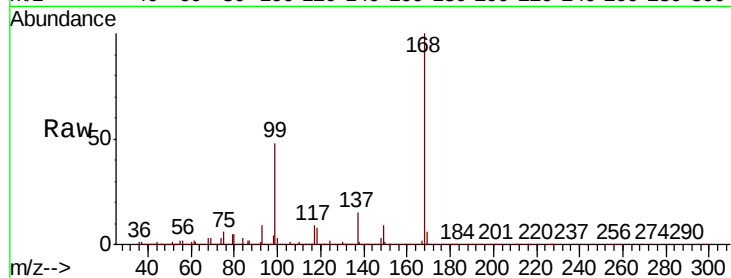
FMI109

Tot Ion:168 Resp: 514352

Ion Ratio Lower Upper

168 100

99 48.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

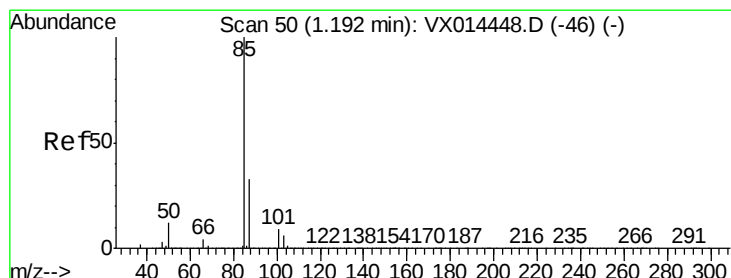
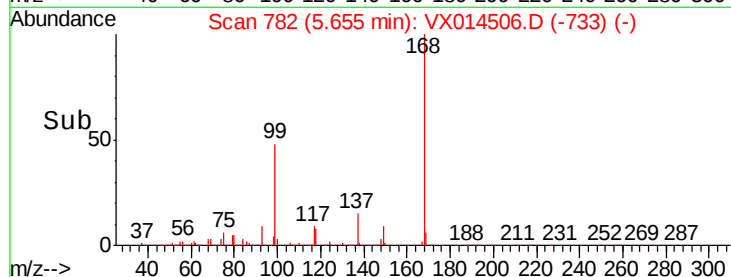
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.347 ug/l

RT: 1.17 min Scan# 47

Delta R.T. -0.02 min

Lab File: VX014506.D

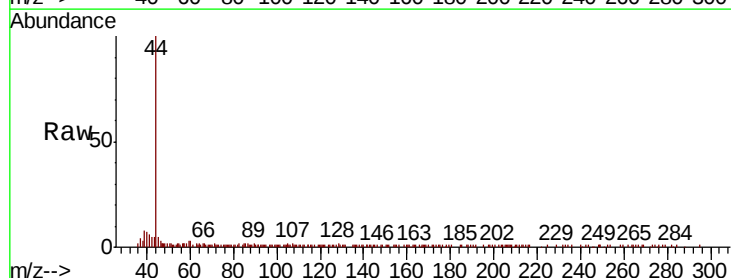
Acq: 09 Jan 2020 18:56

Tgt Ion: 85 Resp: 604

Ion Ratio Lower Upper

85 100

87 4.2 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

400

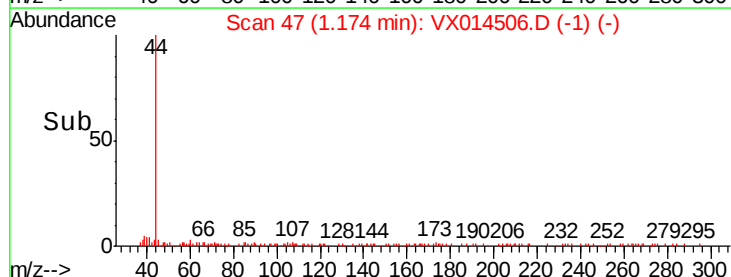
300

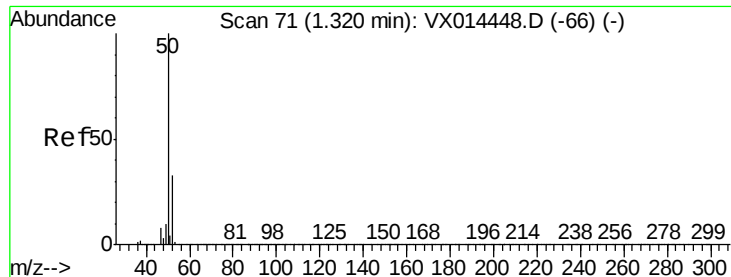
200

100

0

Time-->





#3

Chloromethane

Concen: 0.285 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampled :

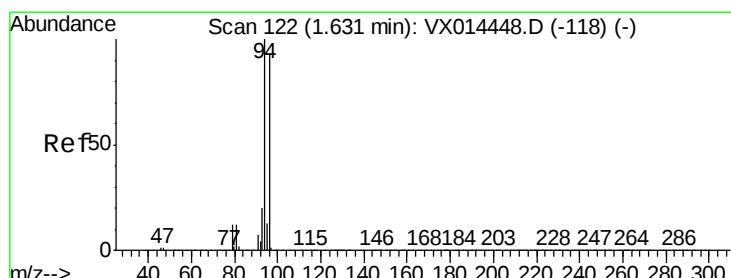
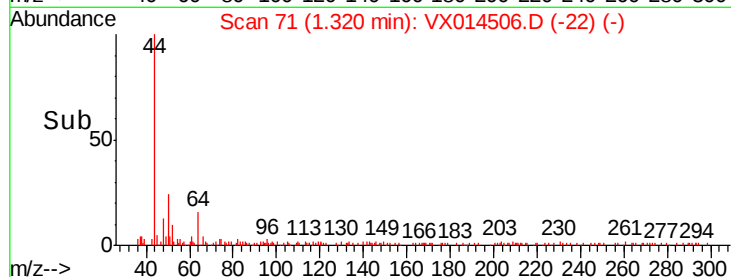
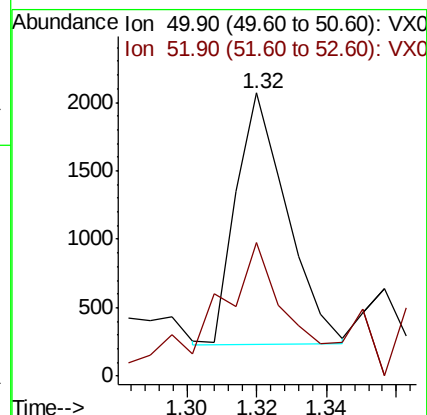
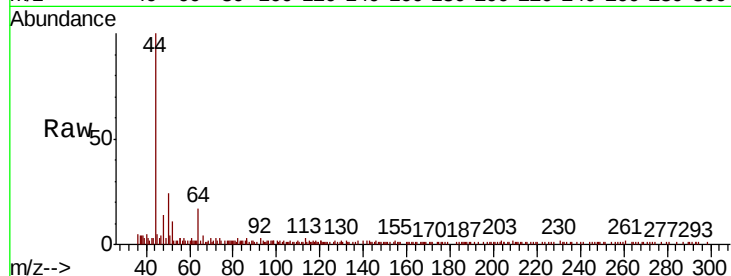
FMI109

Tot Ion: 50 Resp: 1866

Ion Ratio Lower Upper

50 100

52 44.9 26.1 39.1#



#5

Bromomethane

Concen: 0.290 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014506.D

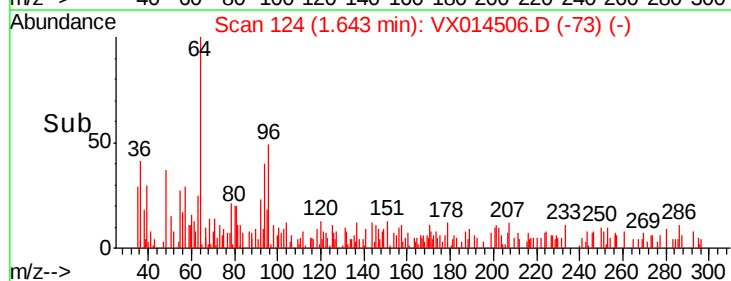
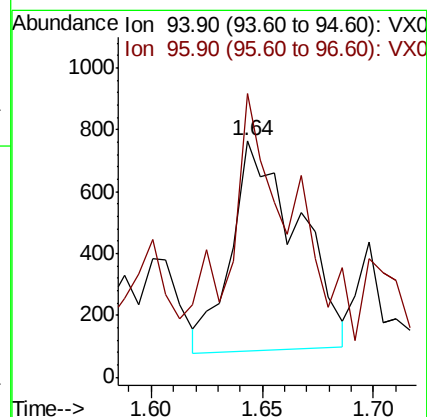
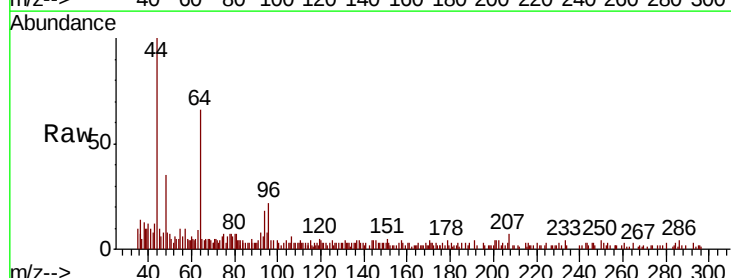
Acq: 09 Jan 2020 18:56

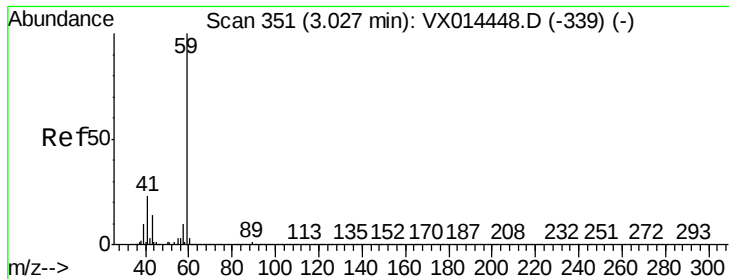
Tgt Ion: 94 Resp: 1405

Ion Ratio Lower Upper

94 100

96 116.6 74.2 111.2#



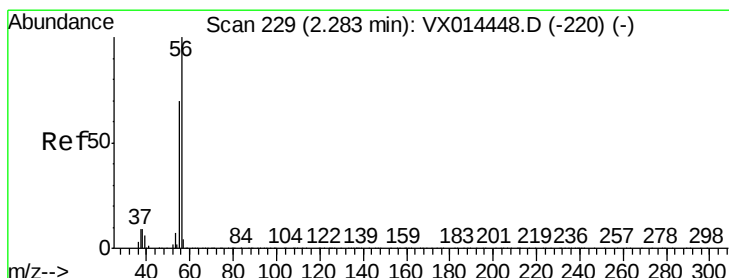
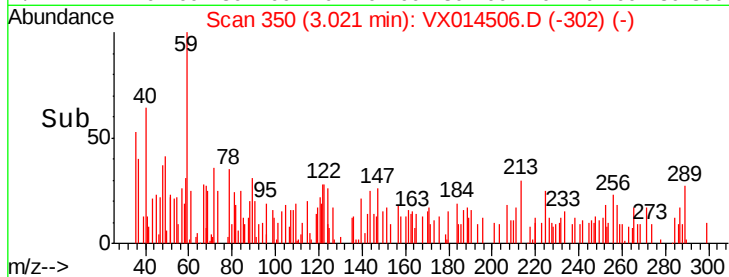
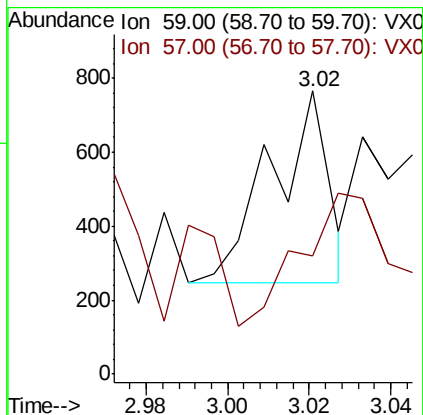
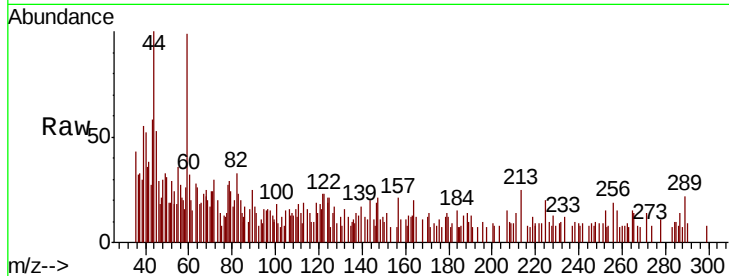


#11

Tert butyl alcohol
Concen: 0.425 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX014506.D
Acq: 09 Jan 2020 18:56

Instrument :
MSVOA_X
ClientSampled :
FMI109

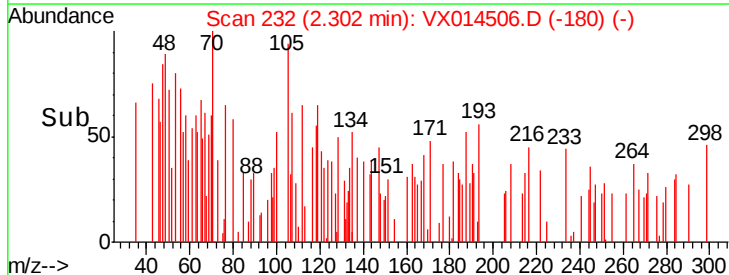
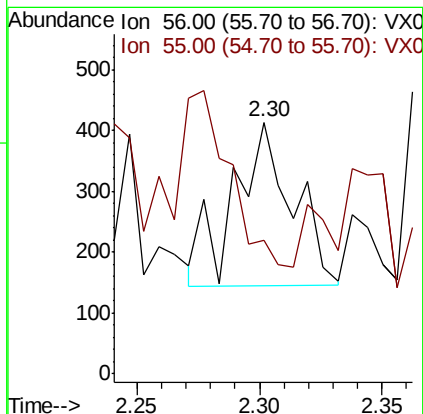
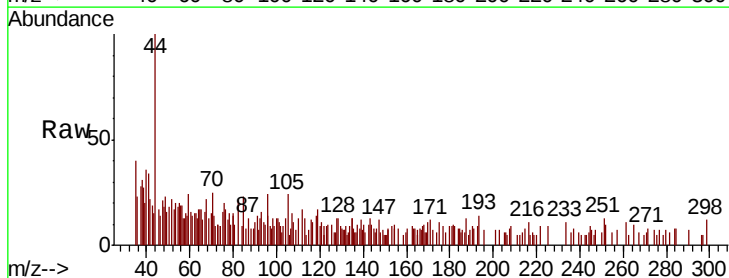
Tot Ion: 59 Resp: 509
Ion Ratio Lower Upper
59 100
57 110.4 8.5 12.7#

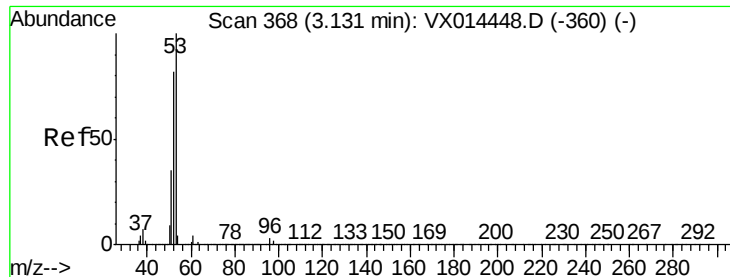


#13

Acrolein
Concen: 0.470 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX014506.D
Acq: 09 Jan 2020 18:56

Tgt Ion: 56 Resp: 452
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.6#





#15

Acrylonitrile

Concen: 0.232 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampled :

FMI109

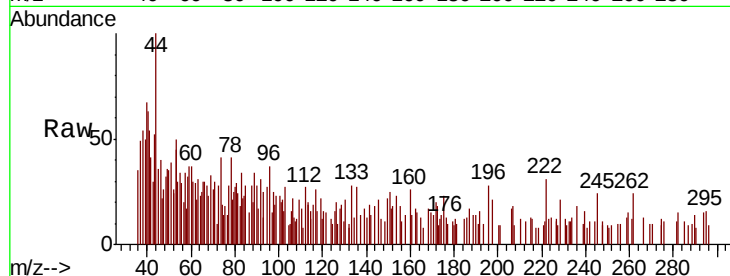
Tot Ion: 53 Resp: 670

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

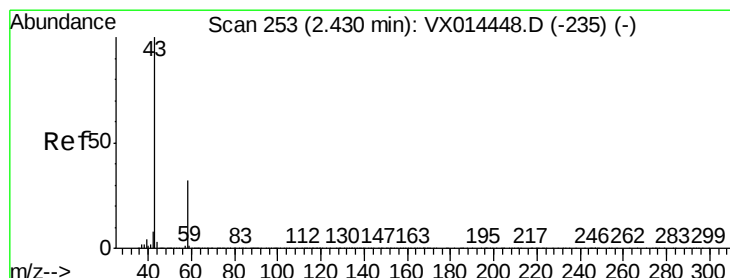
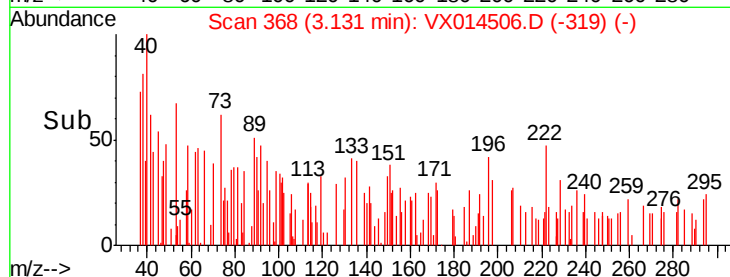
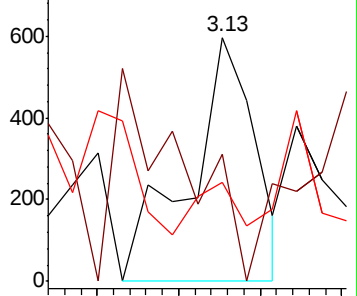
51 13.4 28.5 42.7#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.506 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014506.D

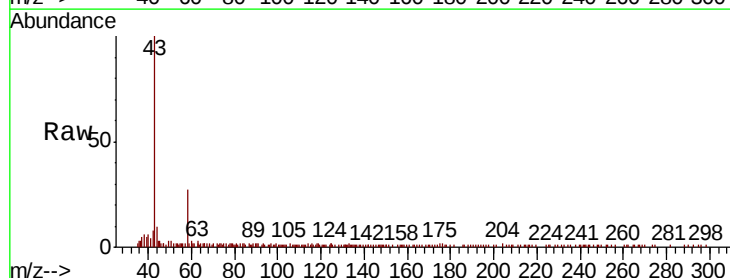
Acq: 09 Jan 2020 18:56

Tgt Ion: 43 Resp: 16294

Ion Ratio Lower Upper

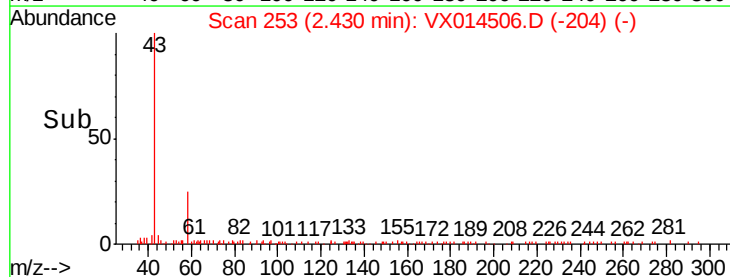
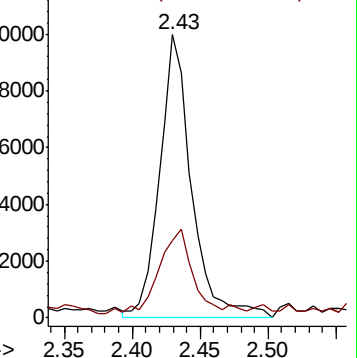
43 100

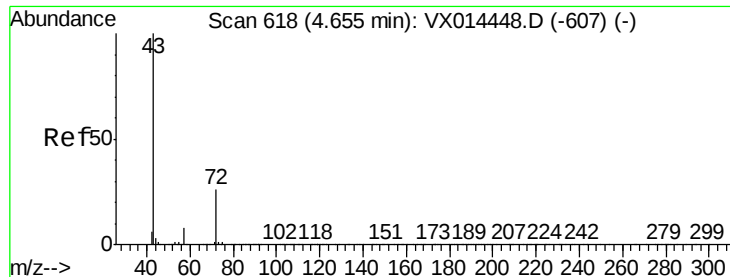
58 25.0 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 3.171 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampleId :

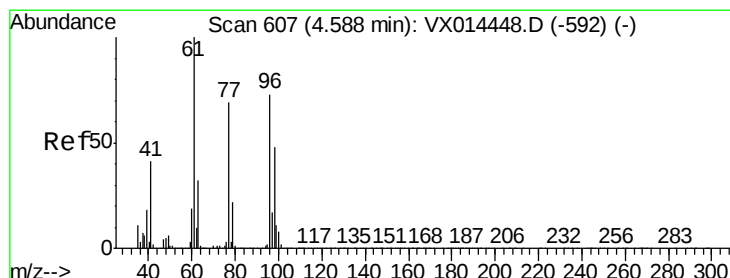
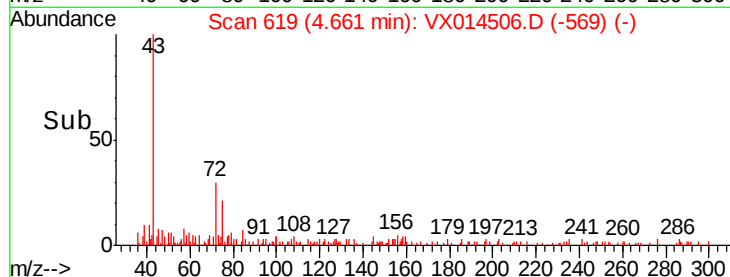
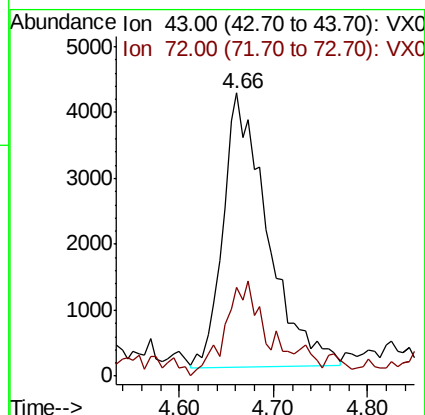
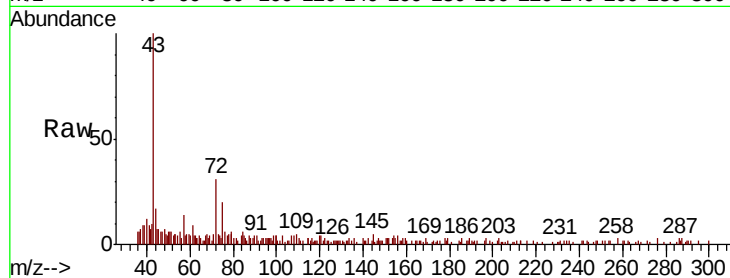
FMI109

Tot Ion: 43 Resp: 13599

Ion Ratio Lower Upper

43 100

72 32.8 20.6 31.0#



#27

cis-1,2-Dichloroethene

Concen: 0.246 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

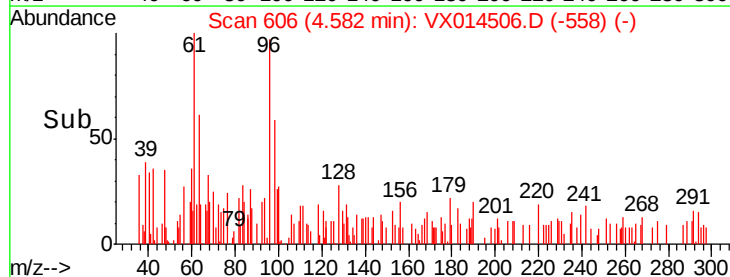
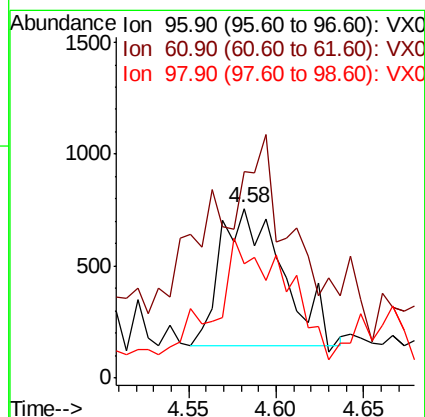
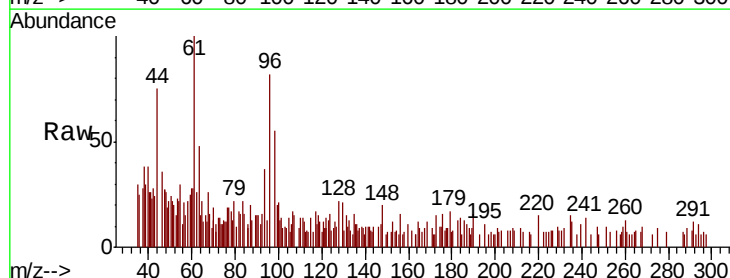
Tgt Ion: 96 Resp: 1523

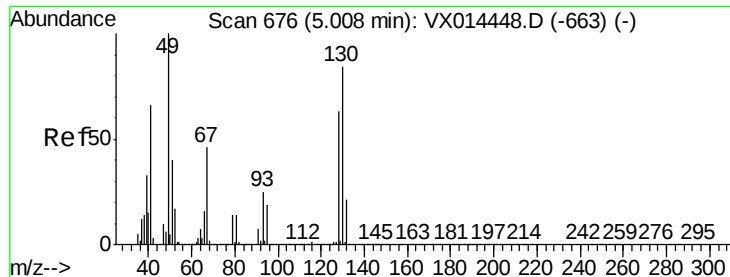
Ion Ratio Lower Upper

96 100

61 139.8 0.0 285.4

98 98.8 0.0 130.6





#28

Bromochloromethane

Concen: 0.241 ug/l

RT: 4.97 min Scan# 669

Delta R.T. -0.04 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampled :

FMI109

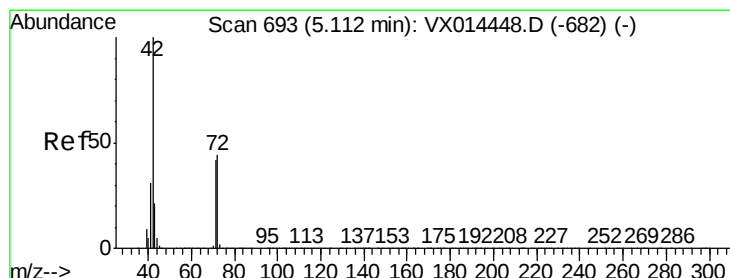
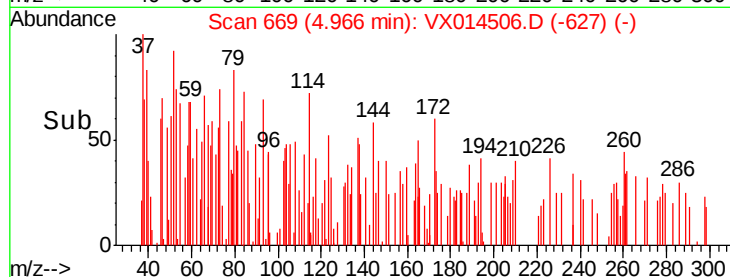
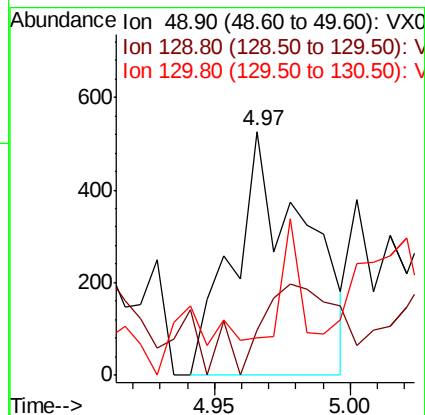
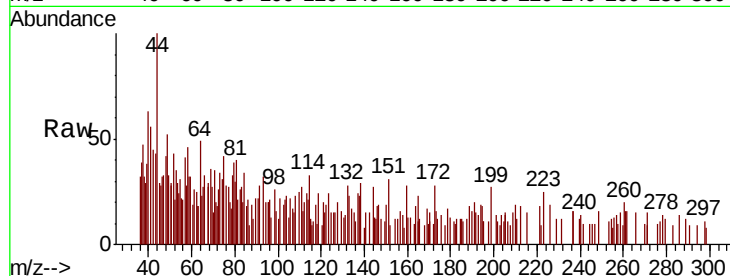
Tot Ion: 49 Resp: 953

Ion Ratio Lower Upper

49 100

129 39.0 0.0 4.4#

130 17.3 67.0 100.4#



#29

Tetrahydrofuran

Concen: 21.789 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

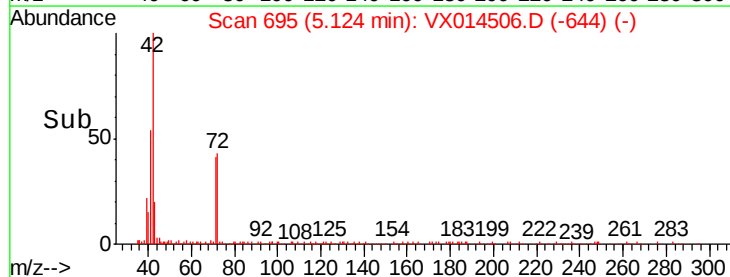
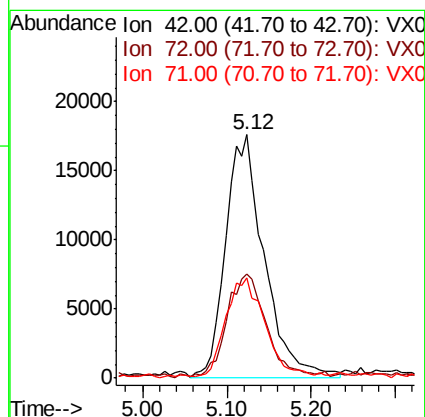
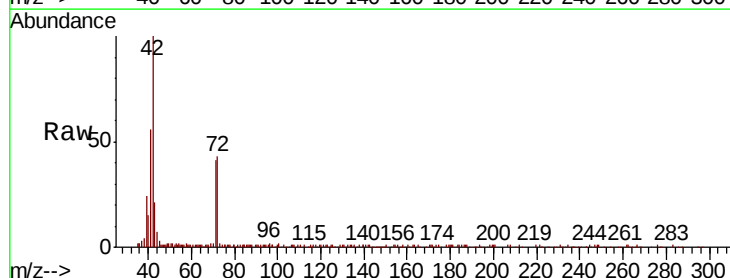
Tgt Ion: 42 Resp: 55254

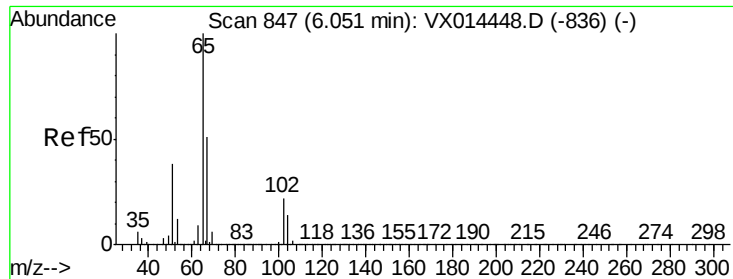
Ion Ratio Lower Upper

42 100

72 42.9 36.2 54.4

71 40.1 34.1 51.1

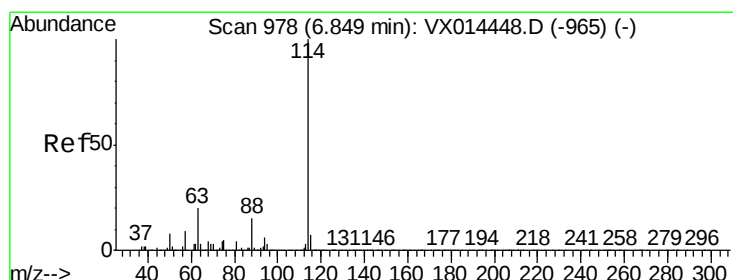
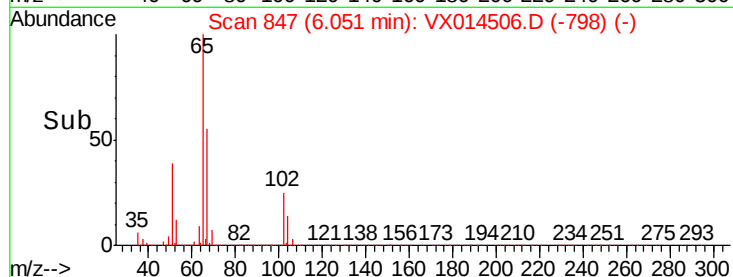
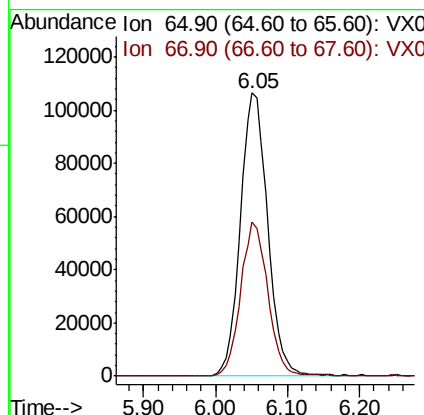
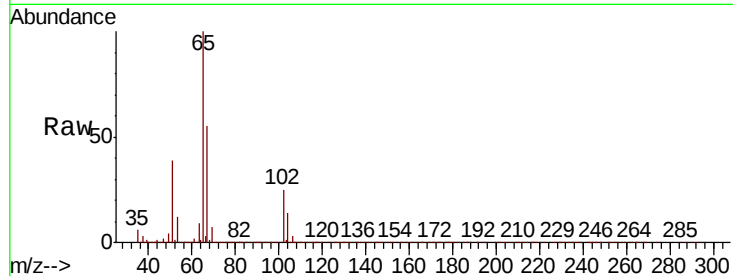




#33
 1,2-Dichloroethane-d4
 Concen: 48.886 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014506.D
 Acq: 09 Jan 2020 18:56

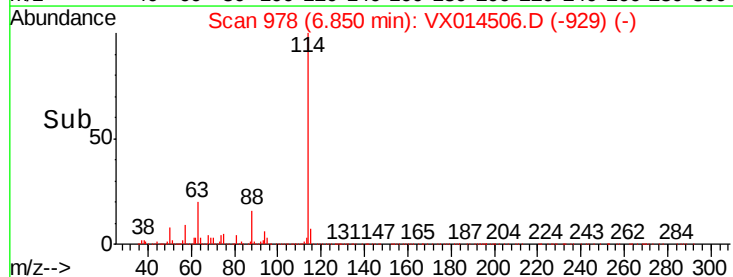
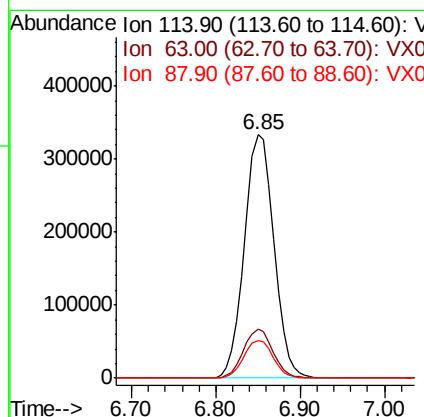
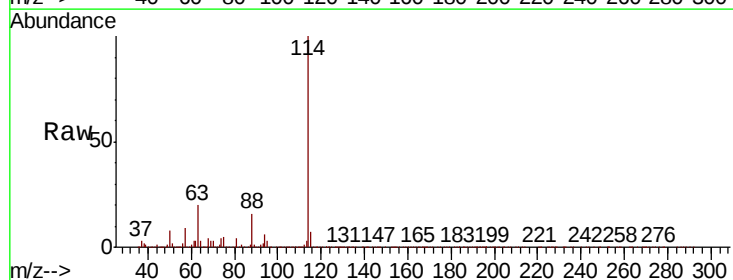
Instrument :
 MSVOA_X
 ClientSampleId :
 FMI109

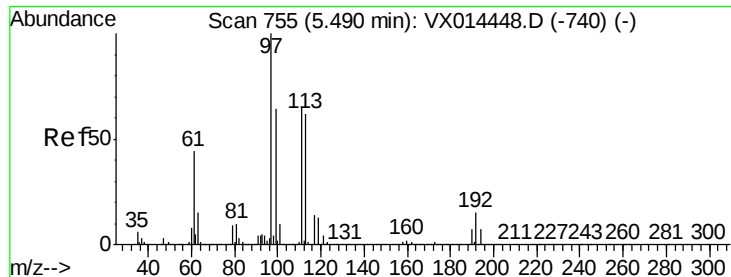
Tot Ion: 65 Resp: 280697
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014506.D
 Acq: 09 Jan 2020 18:56

Tgt Ion: 114 Resp: 791658
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.6
 88 15.5 0.0 30.8

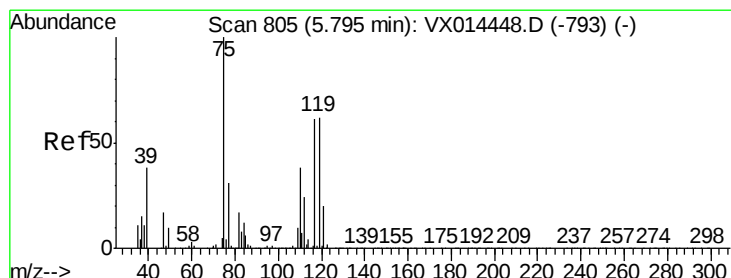
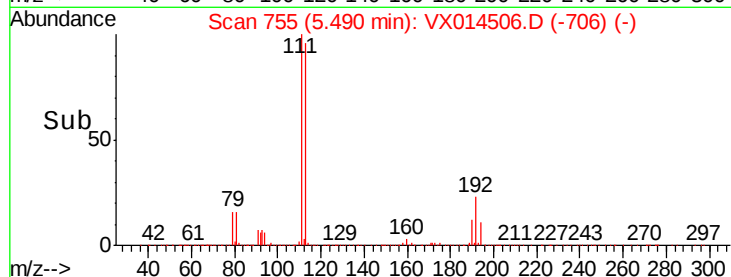
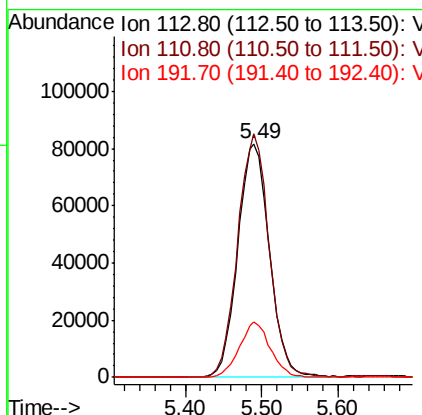
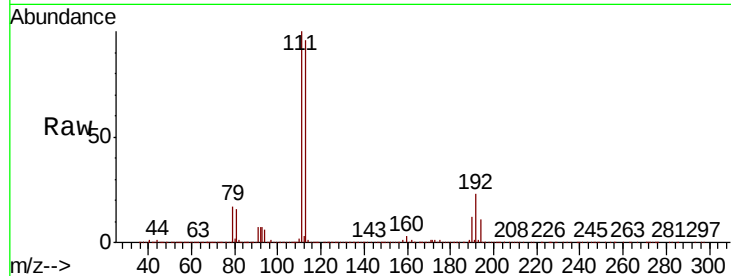




#35
 Dibromofluoromethane
 Concen: 49.032 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014506.D
 Acq: 09 Jan 2020 18:56

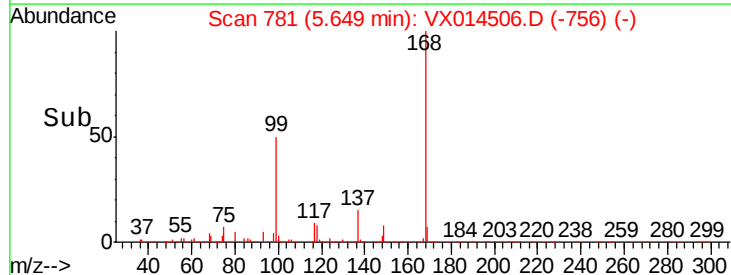
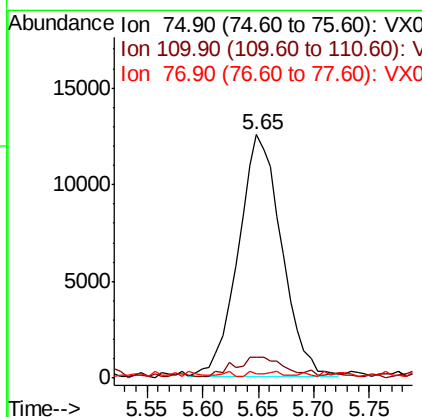
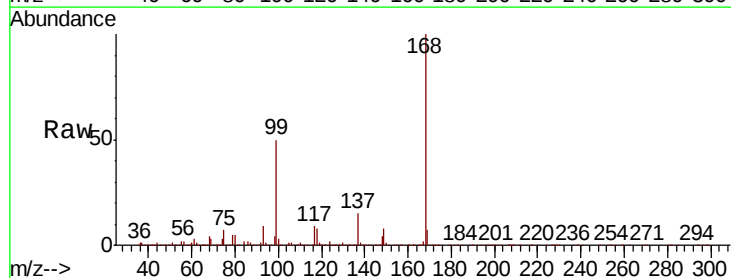
Instrument :
 MSVOA_X
 ClientSampleId :
 FMI109

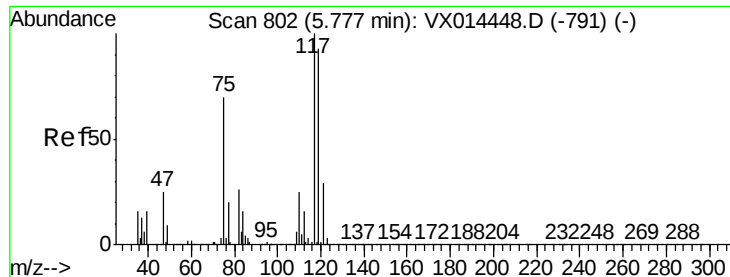
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.5	122.3
192	23.1	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.511 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014506.D
 Acq: 09 Jan 2020 18:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.6	55.8#
77	0.5	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.628 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampleId :

FMI109

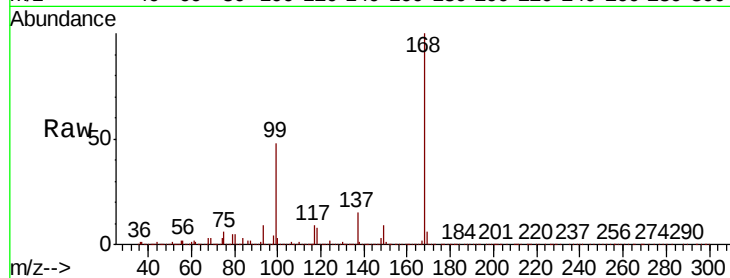
Tot Ion:117 Resp: 45407

Ion Ratio Lower Upper

117 100

119 5.2 73.8 110.8#

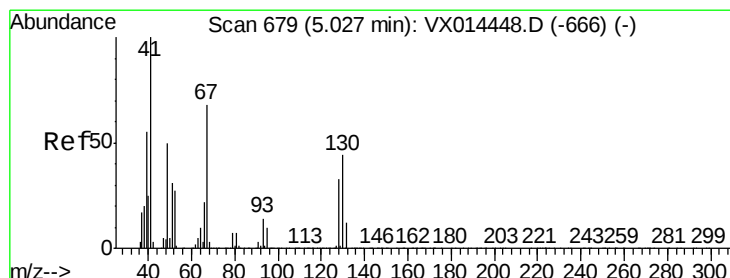
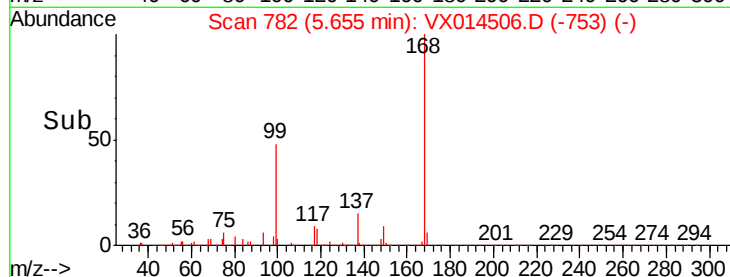
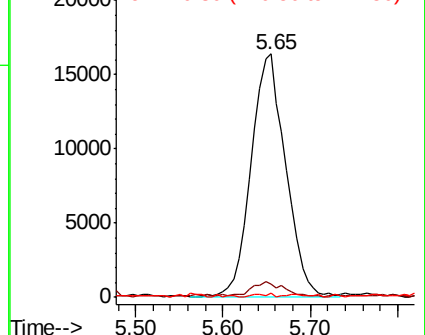
121 0.5 23.4 35.0#



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



#41

Methacrylonitrile

Concen: 6.820 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.10 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Tgt Ion: 41 Resp: 29410

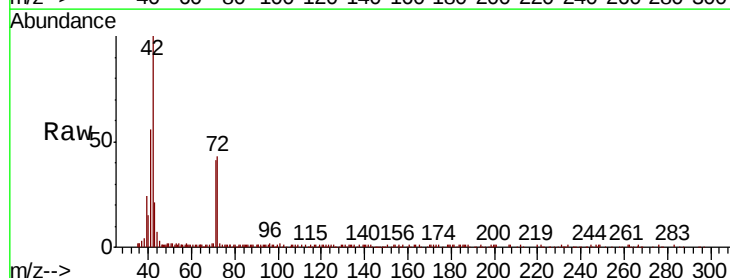
Ion Ratio Lower Upper

41 100

39 45.1 43.6 65.4

67 0.0 57.9 86.9#

52 1.3 23.0 34.6#

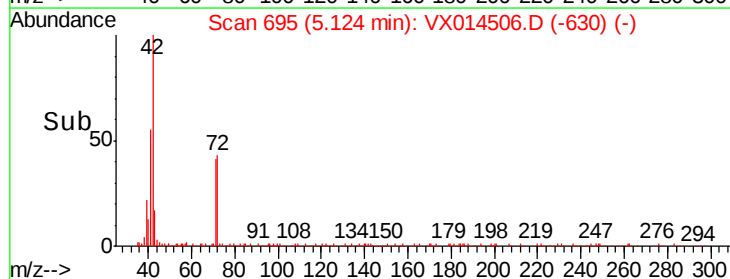
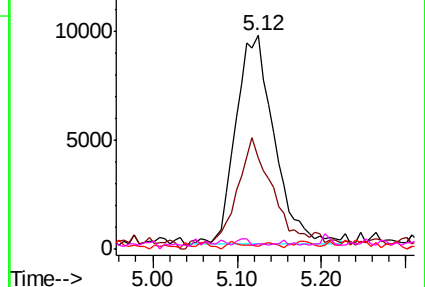


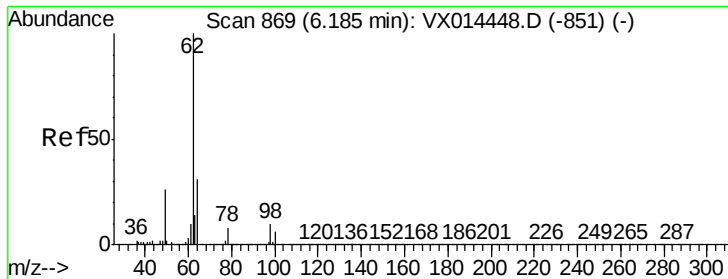
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#42

1,2-Dichloroethane

Concen: 0.217 ug/l

RT: 6.21 min Scan# 873

Delta R.T. 0.02 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampled :

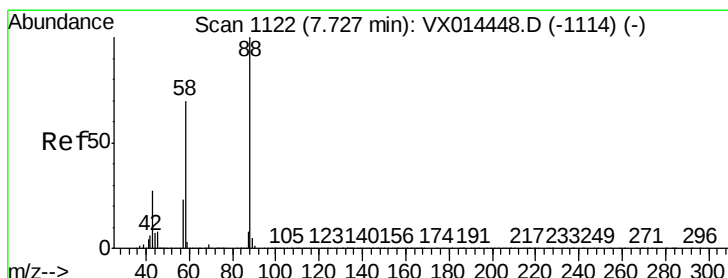
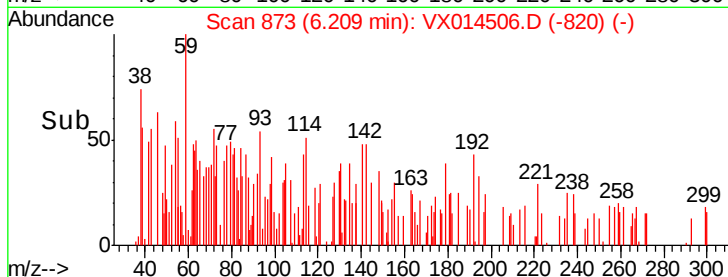
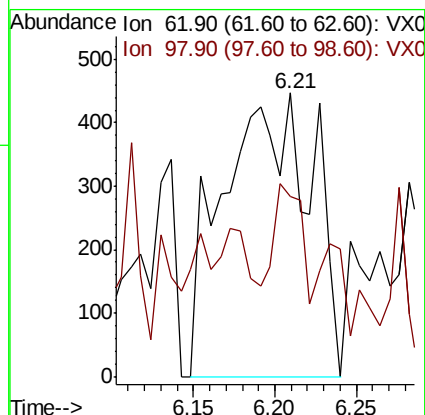
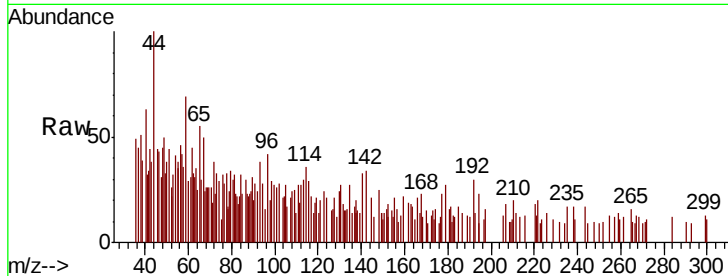
FMI109

Tot Ion: 62 Resp: 1680

Ion Ratio Lower Upper

62 100

98 12.9 0.0 20.4



#49

1,4-Dioxane

Concen: 3.002 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.02 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

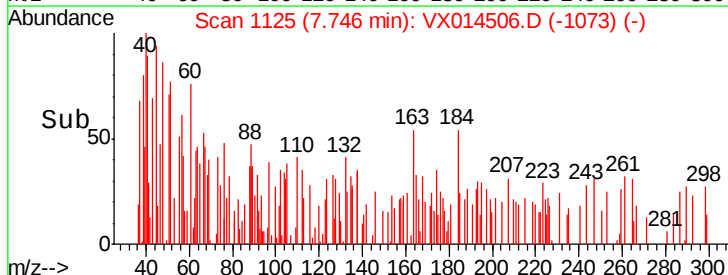
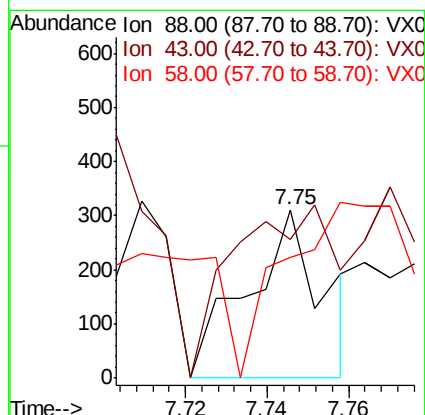
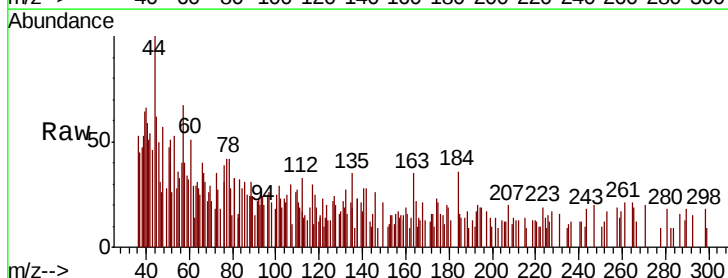
Tgt Ion: 88 Resp: 398

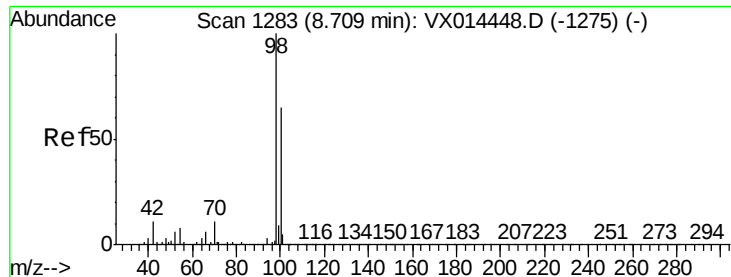
Ion Ratio Lower Upper

88 100

43 139.2 27.4 41.0#

58 166.8 57.1 85.7#





#50

Toluene-d8

Concen: 50.486 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampleId :

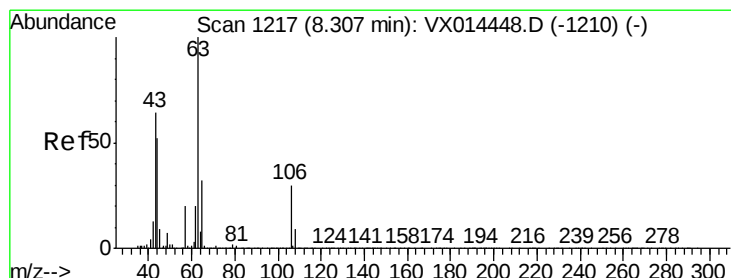
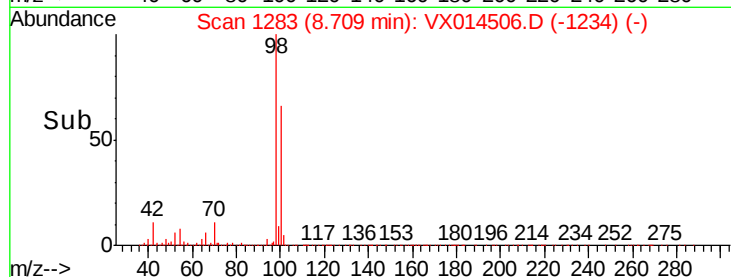
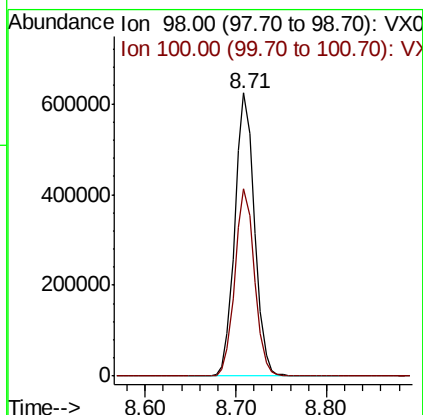
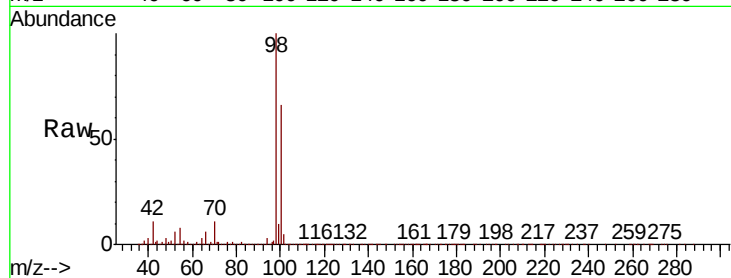
FMI109

Tot Ion: 98 Resp: 938892

Ion Ratio Lower Upper

98 100

100 65.8 53.2 79.8



#58

2-Chloroethyl Vinyl ether

Concen: 0.351 ug/l

RT: 8.34 min Scan# 1222

Delta R.T. 0.03 min

Lab File: VX014506.D

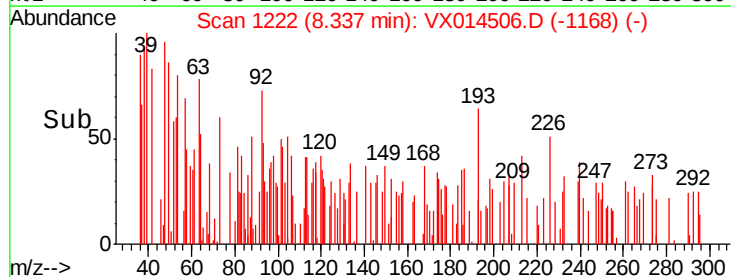
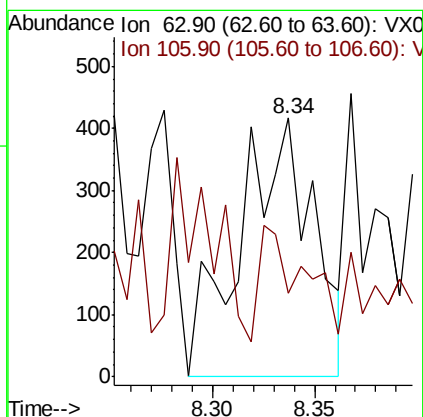
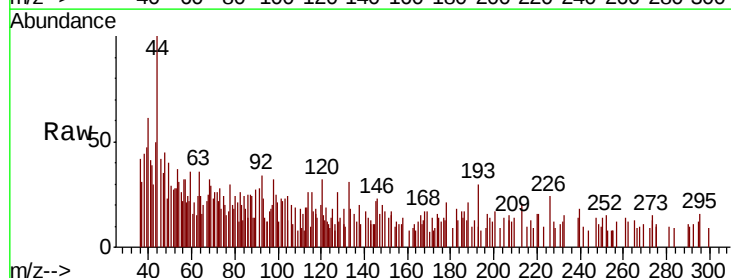
Acq: 09 Jan 2020 18:56

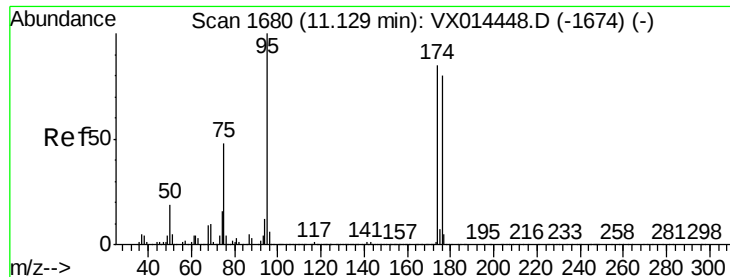
Tgt Ion: 63 Resp: 1039

Ion Ratio Lower Upper

63 100

106 27.3 23.6 35.4





#62

4-Bromofluorobenzene

Concen: 47.354 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampleId :

FMI109

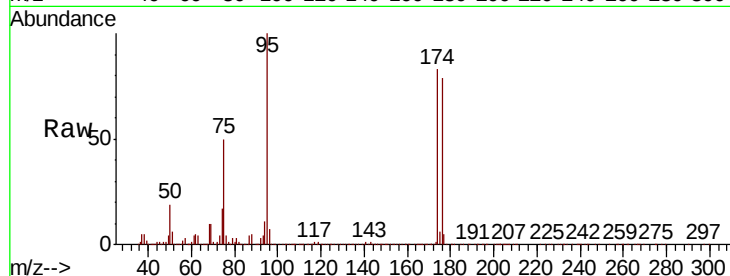
Tot Ion: 95 Resp: 323297

Ion Ratio Lower Upper

95 100

174 89.4 0.0 180.8

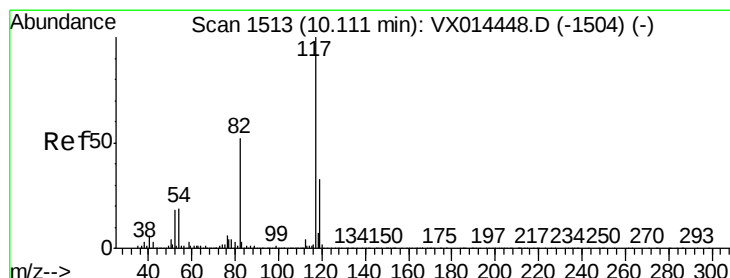
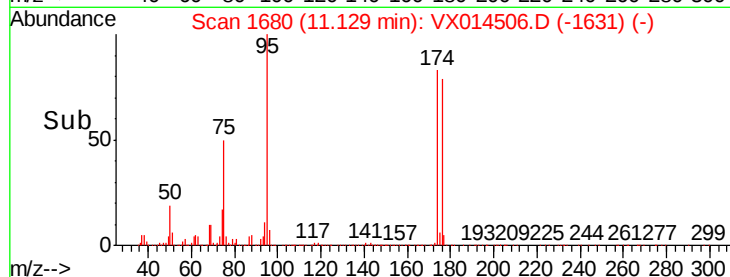
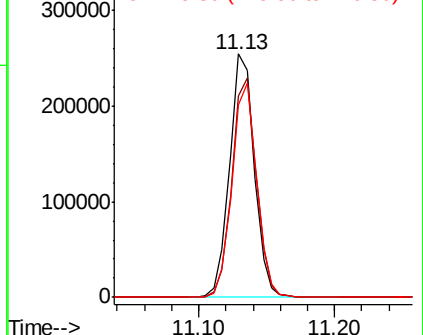
176 87.7 0.0 172.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

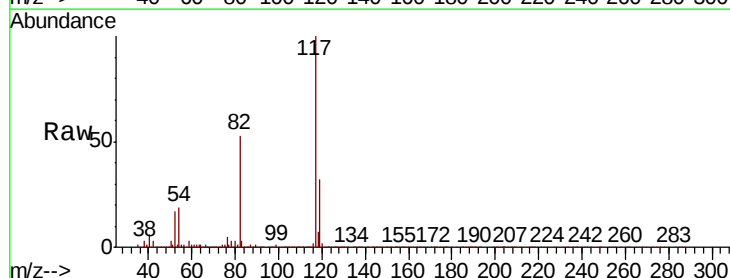
Tgt Ion: 117 Resp: 717120

Ion Ratio Lower Upper

117 100

82 52.8 41.8 62.6

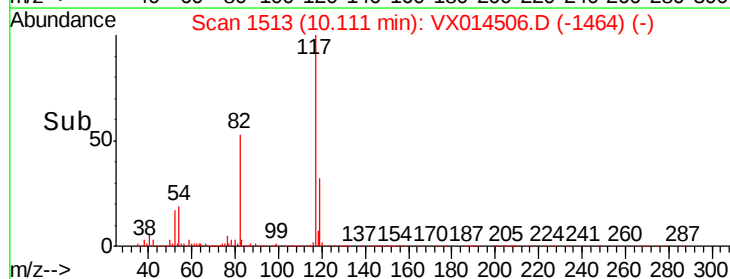
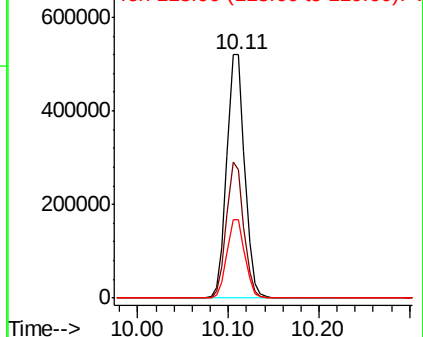
119 32.3 26.2 39.4

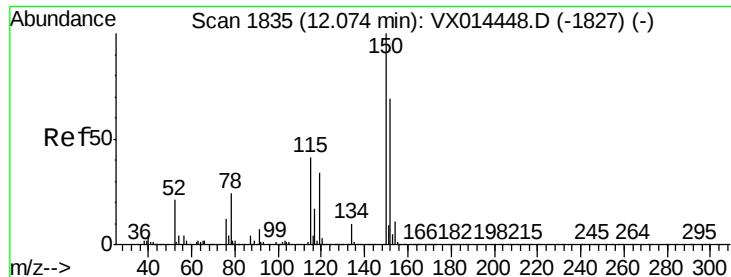


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampled :

FMI109

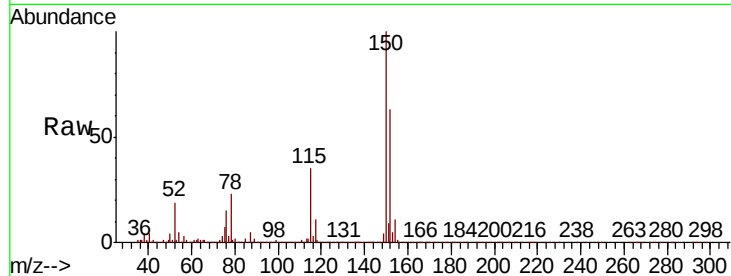
Tot Ion:152 Resp: 329116

Ion Ratio Lower Upper

152 100

115 56.0 39.5 118.3

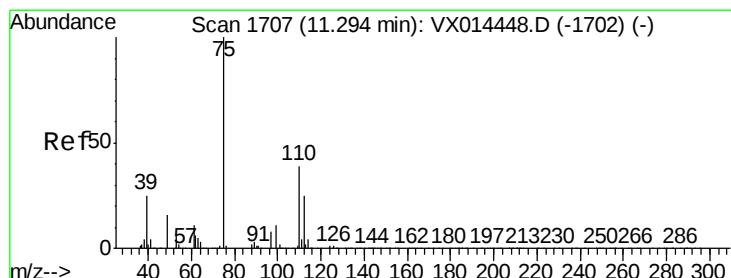
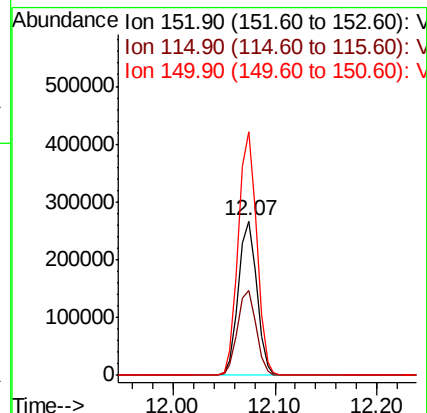
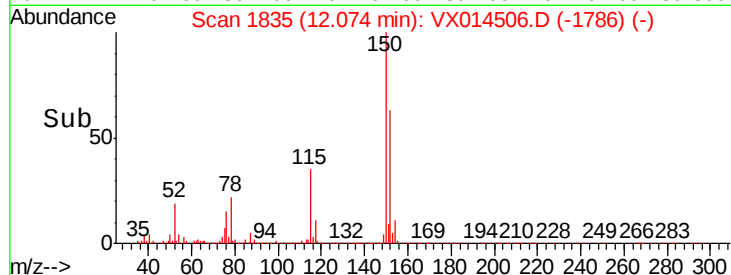
150 158.2 0.0 350.2



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: 22.990 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014506.D

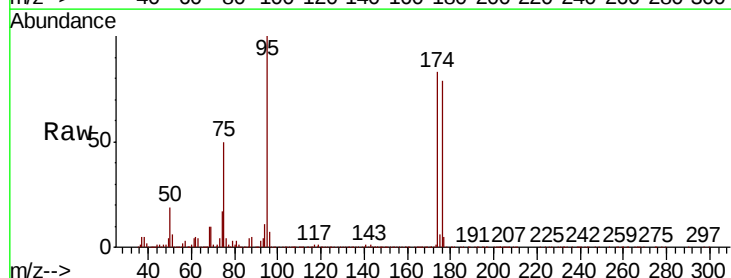
Acq: 09 Jan 2020 18:56

Tgt Ion: 75 Resp: 156553

Ion Ratio Lower Upper

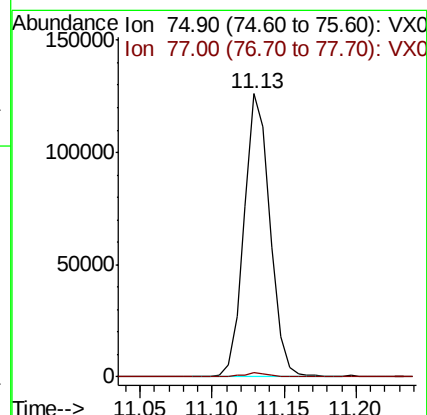
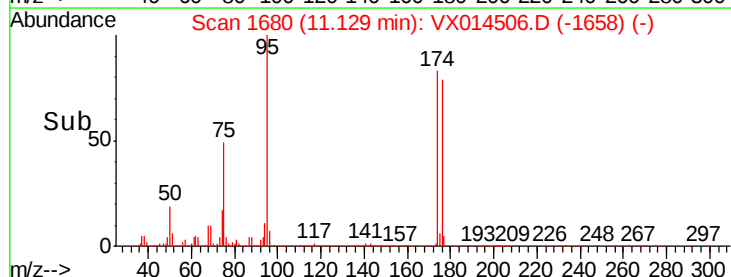
75 100

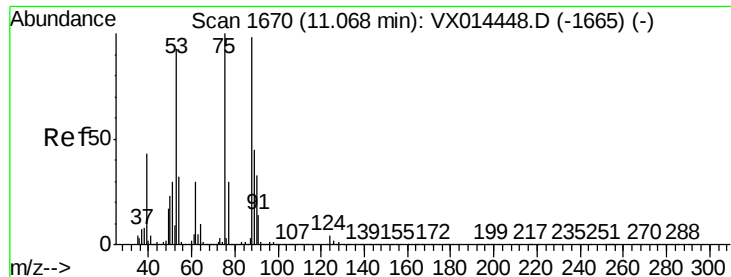
77 1.3 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.782 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

Instrument :

MSVOA_X

ClientSampleId :

FMI109

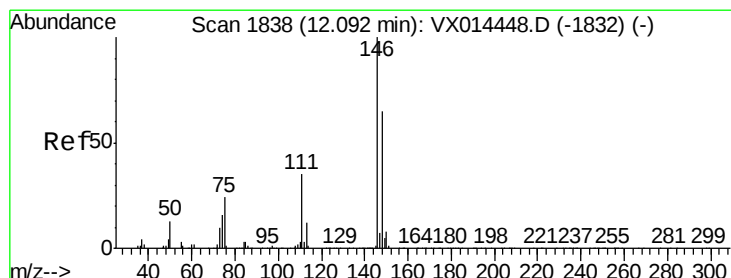
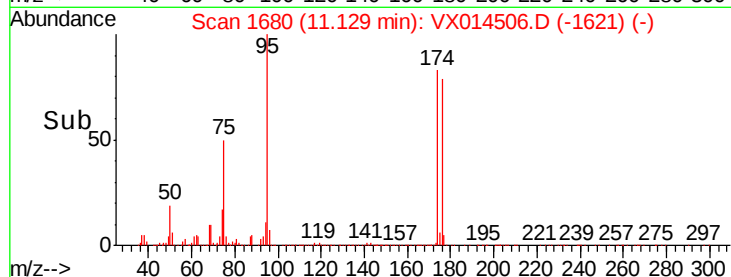
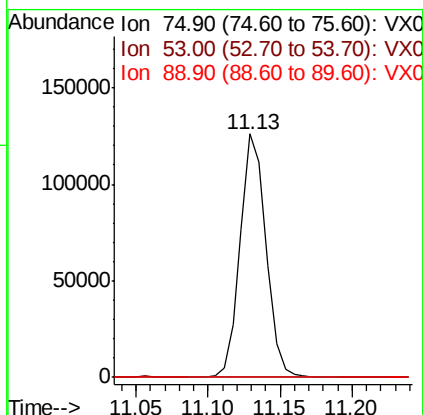
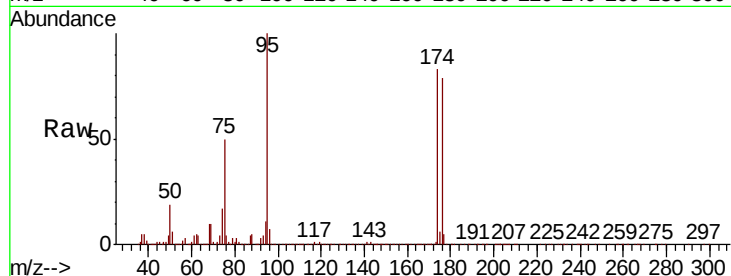
Tot Ion: 75 Resp: 156553

Ion Ratio Lower Upper

75 100

53 0.3 74.8 112.2#

89 0.1 36.3 54.5#



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 11.98 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VX014506.D

Acq: 09 Jan 2020 18:56

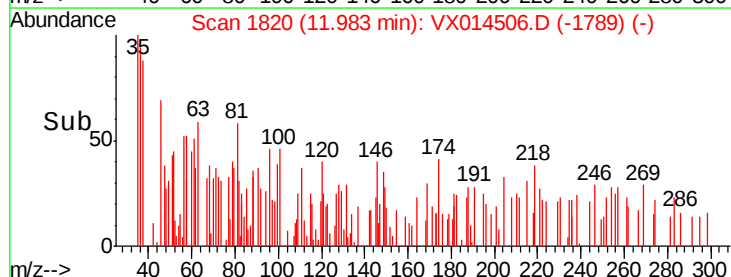
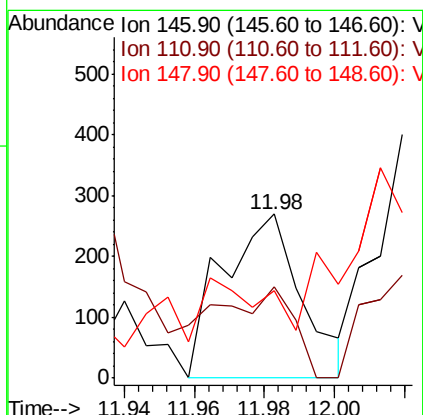
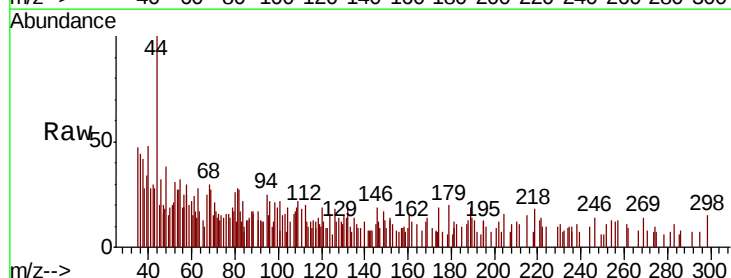
Tgt Ion: 146 Resp: 423

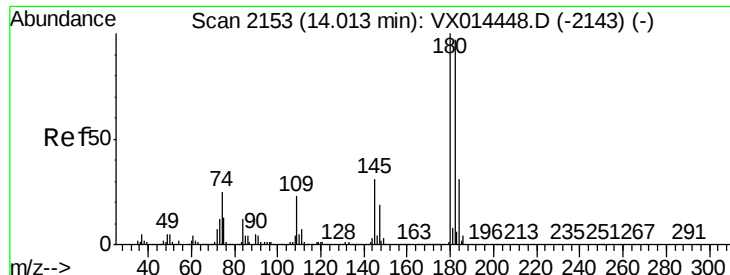
Ion Ratio Lower Upper

146 100

111 50.8 18.1 54.1

148 34.8 32.1 96.3





#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014506.D
 Acq: 09 Jan 2020 18:56

Instrument :
 MSVOA_X
 ClientSampleId :
 FMI109

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.6#
145	33.8	14.8	44.3

