

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090619\
 Data File : VX012164.D
 Acq On : 06 Sep 2019 22:40
 Operator : SY/SP
 Sample : K4554-58
 Misc : 4.85g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-1-(13-15)

Quant Time: Sep 07 01:17:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	146886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	255344	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	220384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90343	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	100889	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
35) Dibromofluoromethane	5.48	113	77314	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	8.71	98	303244	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
62) 4-Bromofluorobenzene	11.13	95	114775	42.83	ug/l	0.00
Spiked Amount			Recovery	=	85.66%	

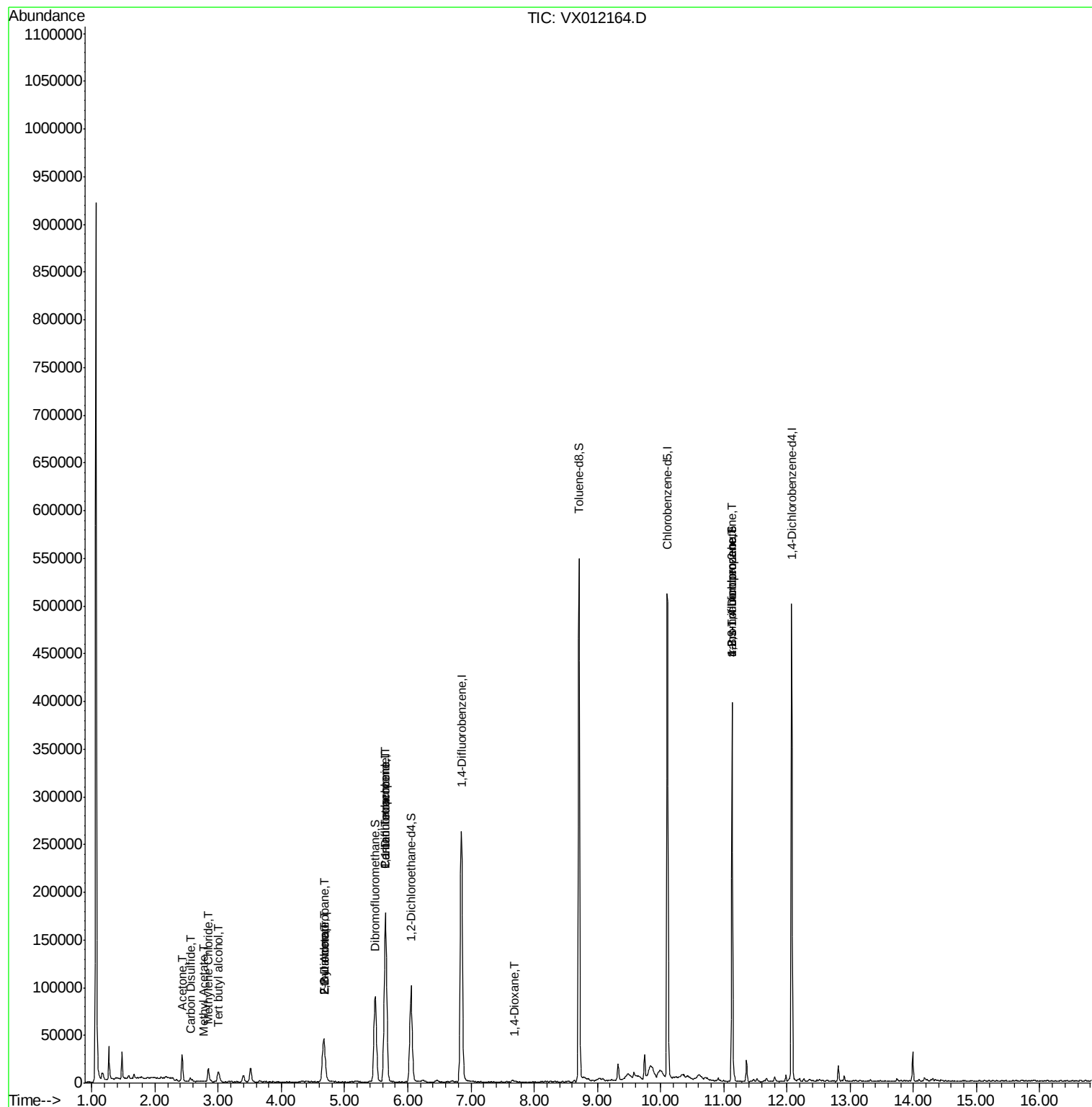
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	7330	37.654	ug/l #	80
13) Acrolein	2.28	56	387	Below Cal		90
16) Acetone	2.43	43	30029	61.988	ug/l	94
17) Carbon Disulfide	2.56	76	4524	1.070	ug/l	98
18) Methyl Acetate	2.76	43	1574	1.379	ug/l #	84
20) Methylene Chloride	2.84	84	6151	3.162	ug/l	94
25) 2-Butanone	4.67	43	12785	20.733	ug/l	91
26) 2,2-Dichloropropane	4.68	77	3204	1.122	ug/l #	53
36) 1,1-Dichloropropene	5.64	75	14243	6.333	ug/l #	48
37) Ethyl Acetate	4.67	43	12785	10.454	ug/l #	68
38) Carbon Tetrachloride	5.65	117	17612	7.432	ug/l #	17
49) 1,4-Dioxane	7.68	88	19	1.115	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61647	55.847	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	61647	132.031	ug/l #	10

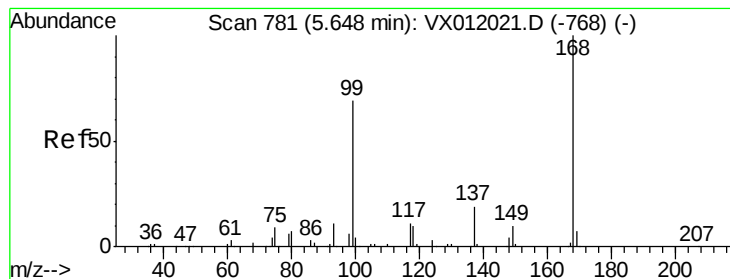
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX090619\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

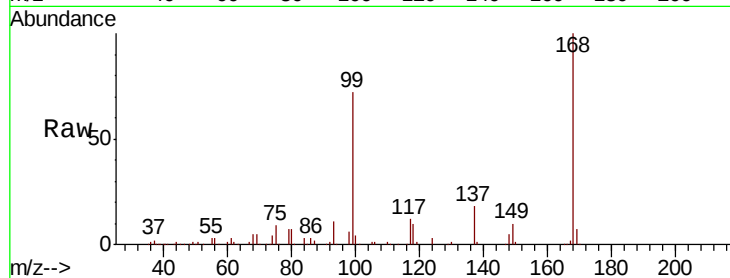
SB-1-(13-15)

Tgt Ion:168 Resp: 146886

Ion Ratio Lower Upper

168 100

99 71.7 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

30000

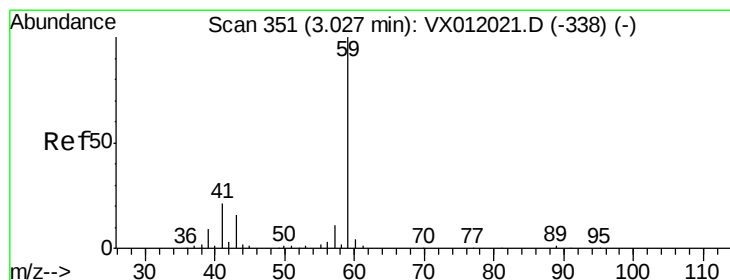
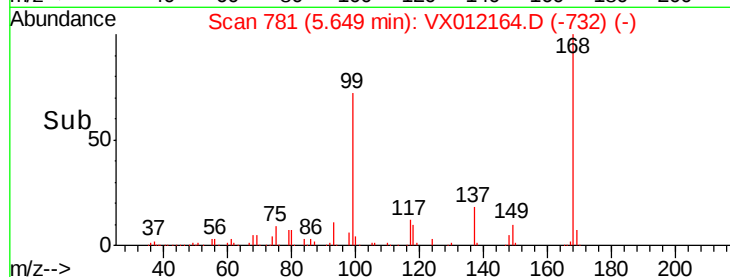
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 37.654 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.02 min

Lab File: VX012164.D

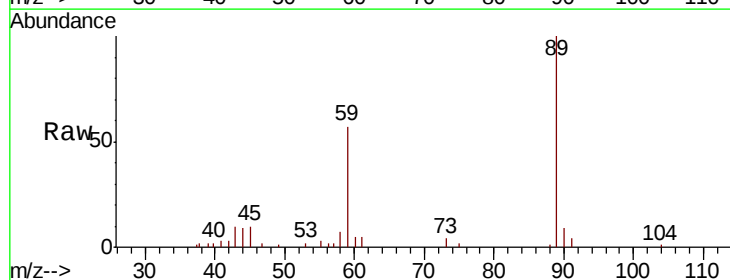
Acq: 06 Sep 2019 22:40

Tgt Ion: 59 Resp: 7330

Ion Ratio Lower Upper

59 100

57 2.5 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3000

2500

2000

1500

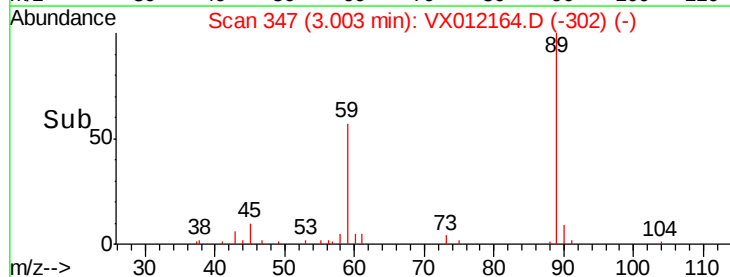
1000

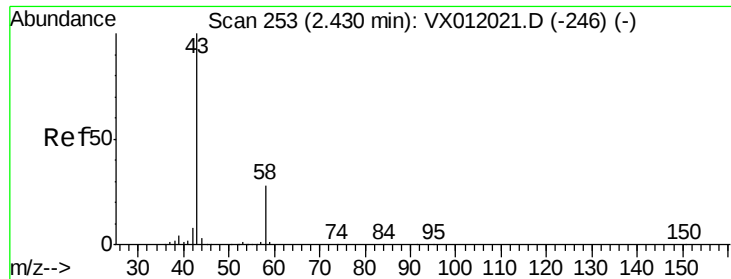
500

0

Time-->

2.90 2.95 3.00 3.05 3.10





#16

Acetone

Concen: 61.988 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

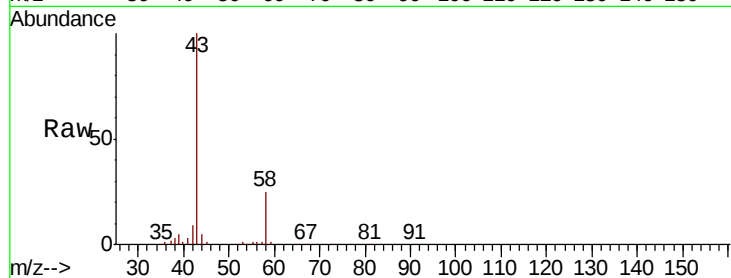
SB-1-(13-15)

Tgt Ion: 43 Resp: 30029

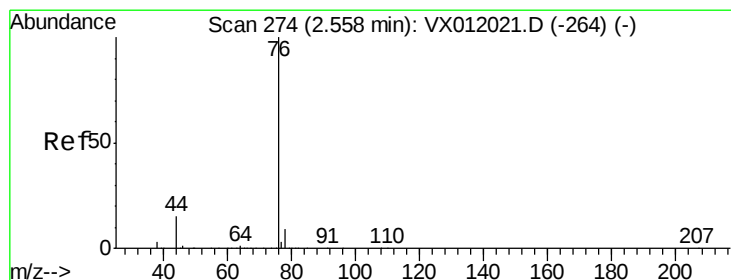
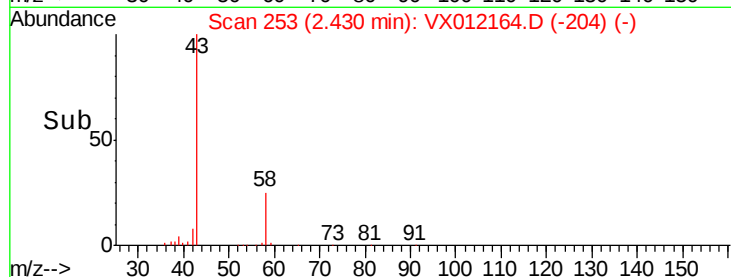
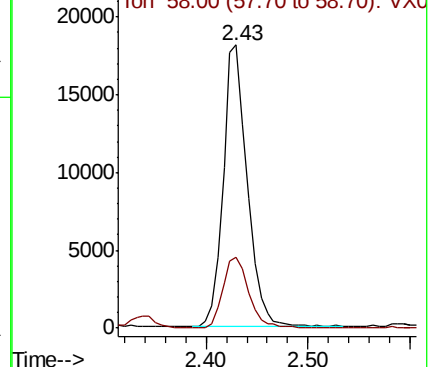
Ion Ratio Lower Upper

43 100

58 25.2 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 1.070 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX012164.D

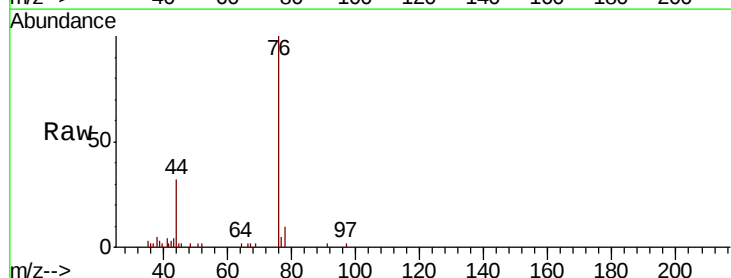
Acq: 06 Sep 2019 22:40

Tgt Ion: 76 Resp: 4524

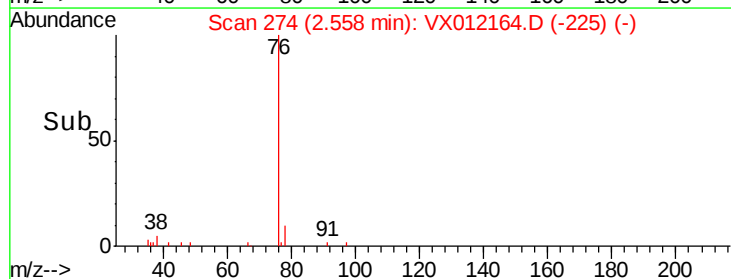
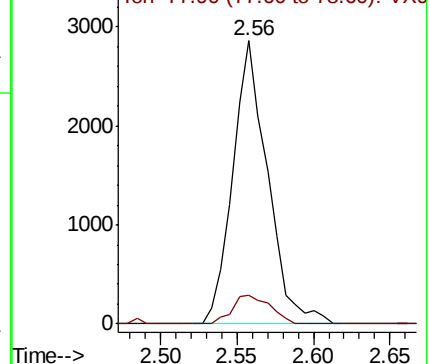
Ion Ratio Lower Upper

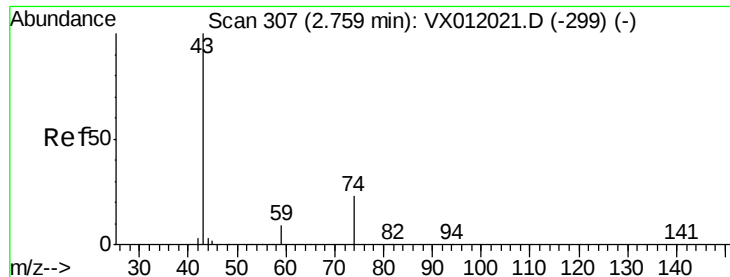
76 100

78 10.0 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

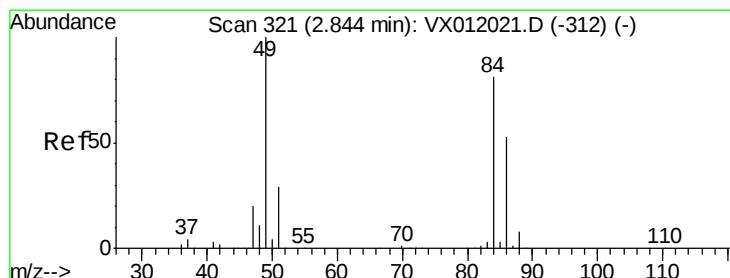
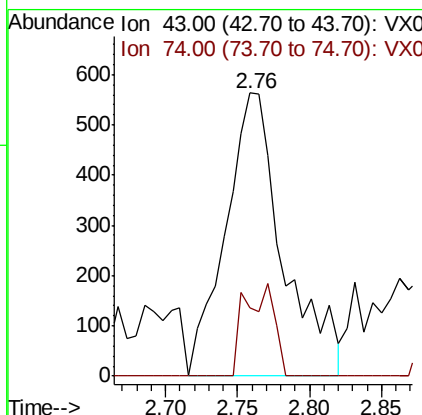
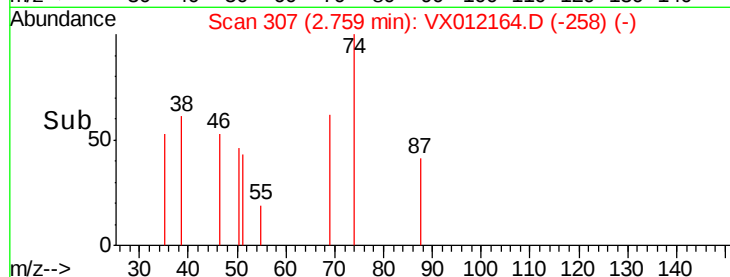
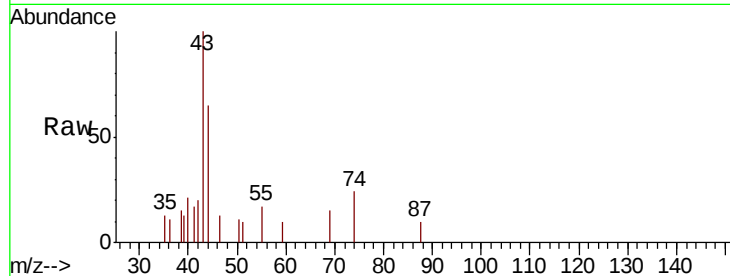




#18
Methyl Acetate
Concen: 1.379 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.00 min
Lab File: VX012164.D
Acq: 06 Sep 2019 22:40

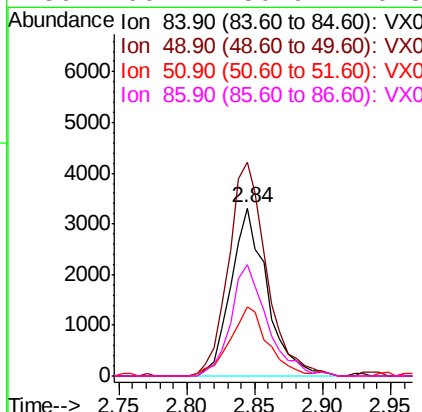
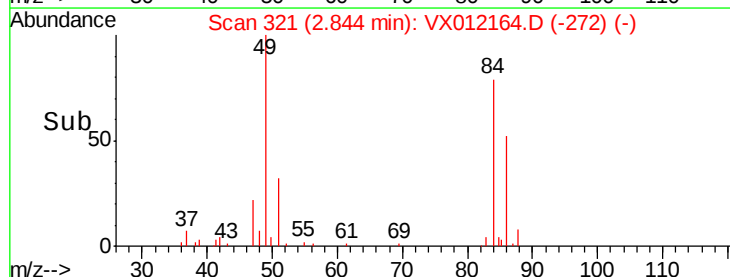
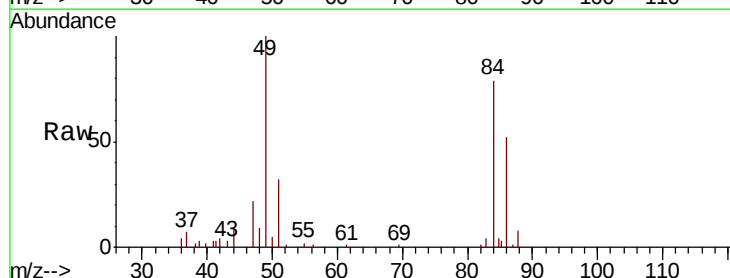
Instrument :
MSVOA_X
ClientSampleId :
SB-1-(13-15)

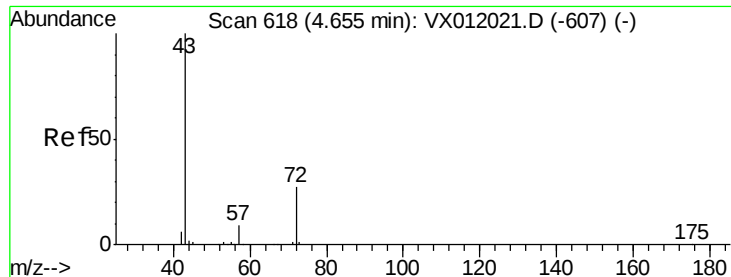
Tgt Ion: 43 Resp: 1574
Ion Ratio Lower Upper
43 100
74 16.6 19.5 29.3#



#20
Methylene Chloride
Concen: 3.162 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012164.D
Acq: 06 Sep 2019 22:40

Tgt Ion: 84 Resp: 6151
Ion Ratio Lower Upper
84 100
49 127.1 95.8 143.8
51 40.8 28.6 43.0
86 66.2 50.9 76.3





#25

2-Butanone

Concen: 20.733 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

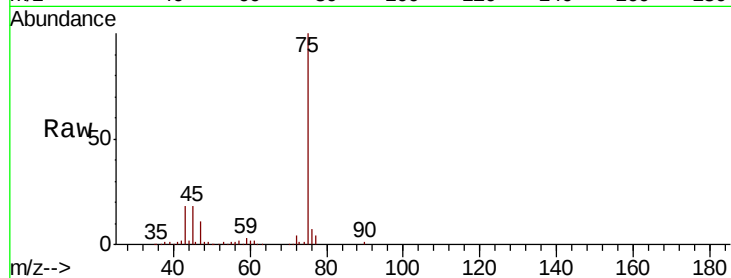
SB-1-(13-15)

Tgt Ion: 43 Resp: 12785

Ion Ratio Lower Upper

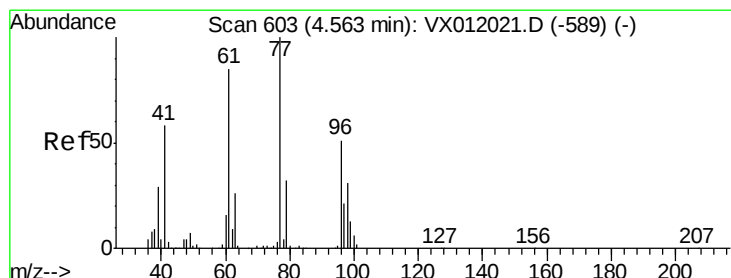
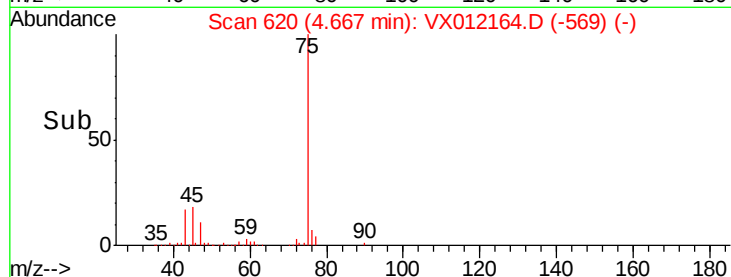
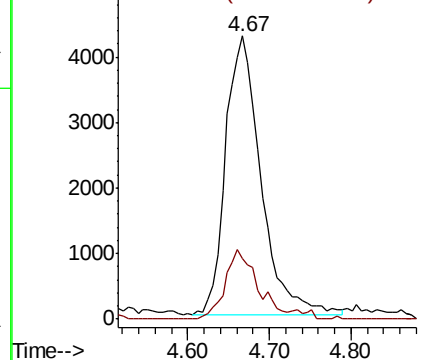
43 100

72 21.8 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 1.122 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.11 min

Lab File: VX012164.D

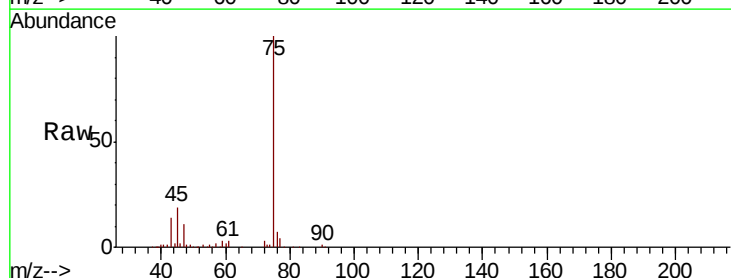
Acq: 06 Sep 2019 22:40

Tgt Ion: 77 Resp: 3204

Ion Ratio Lower Upper

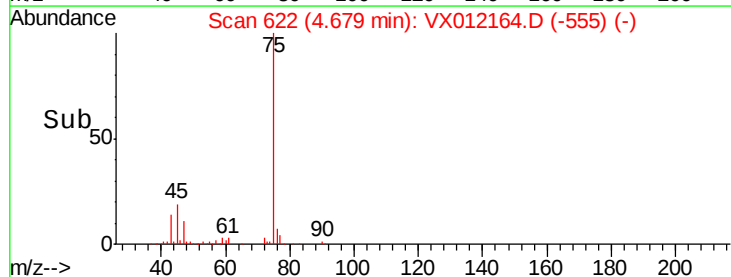
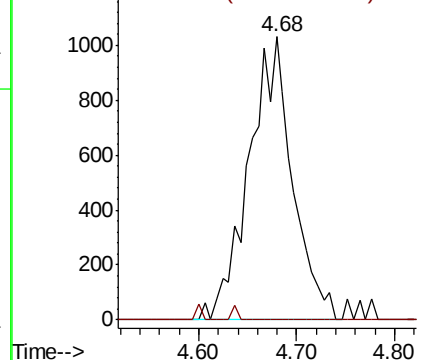
77 100

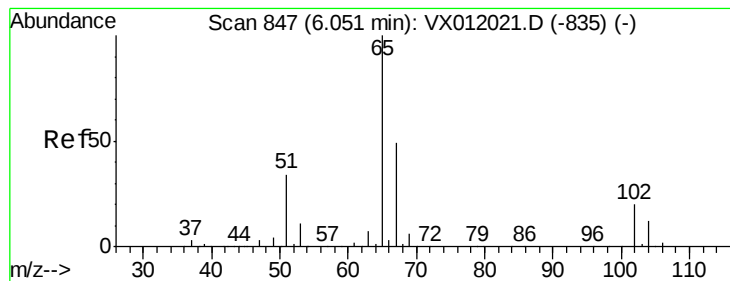
97 0.0 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.779 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

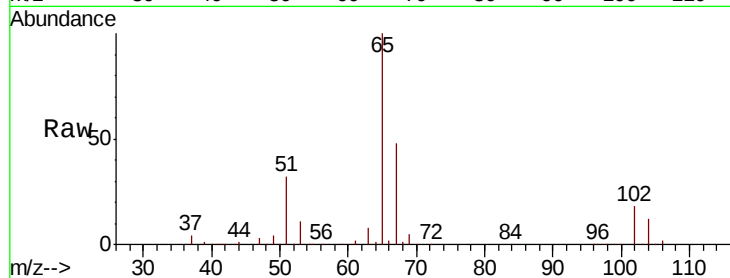
SB-1-(13-15)

Tgt Ion: 65 Resp: 100889

Ion Ratio Lower Upper

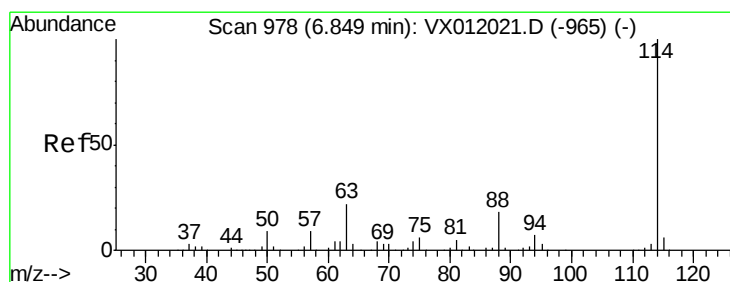
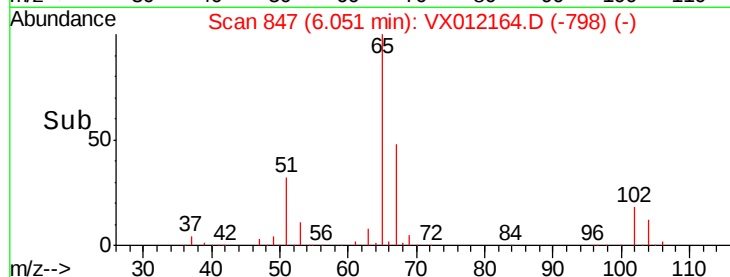
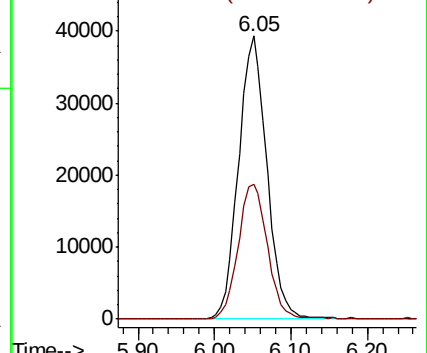
65 100

67 49.5 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

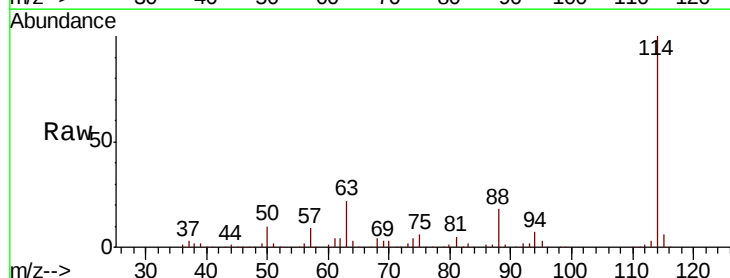
Tgt Ion: 114 Resp: 255344

Ion Ratio Lower Upper

114 100

63 21.9 0.0 37.4

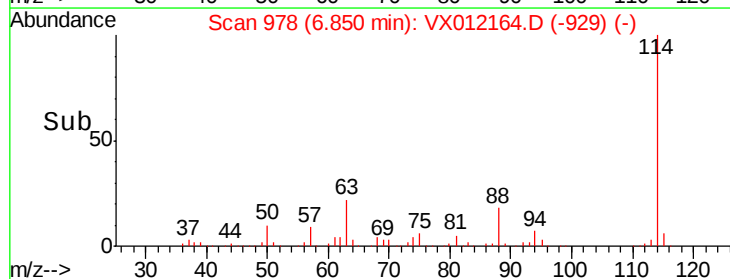
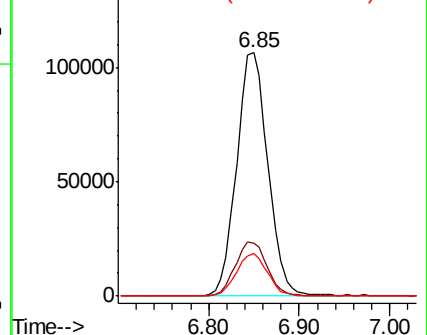
88 17.6 0.0 29.6

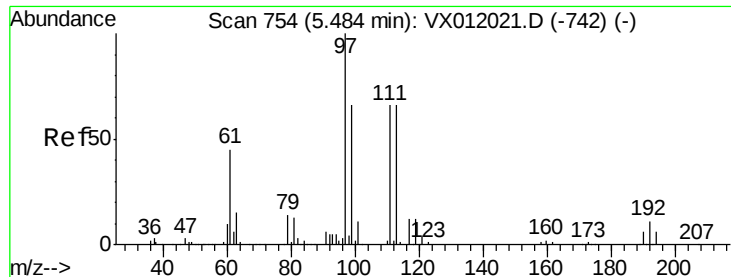


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.235 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

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SB-1-(13-15)

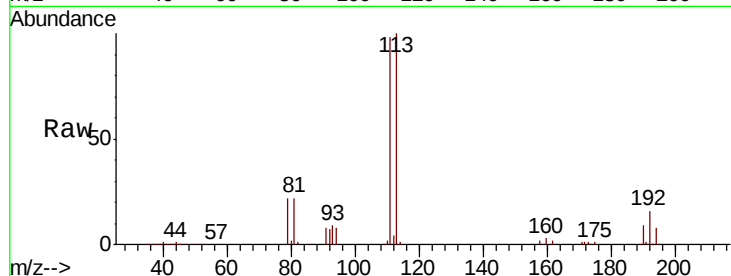
Tgt Ion:113 Resp: 77314

Ion Ratio Lower Upper

113 100

111 102.0 81.7 122.5

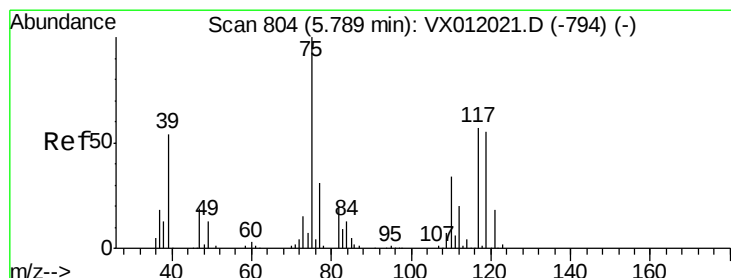
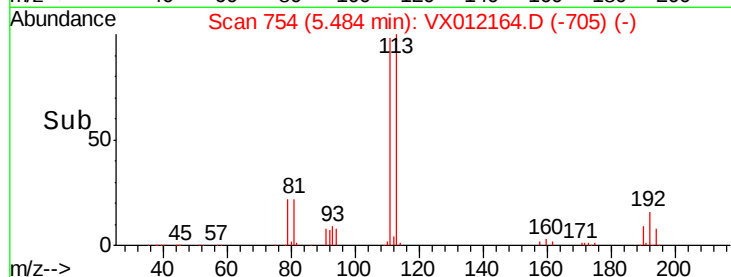
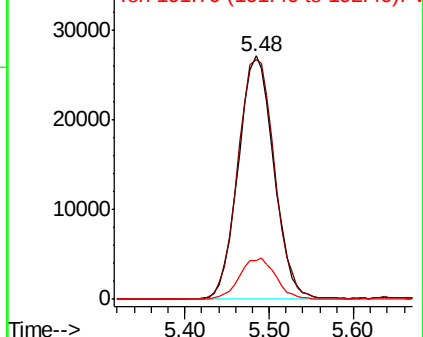
192 17.3 22.5 33.7#



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: 6.333 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

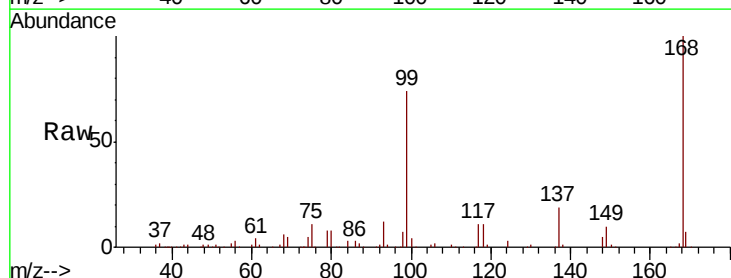
Tgt Ion: 75 Resp: 14243

Ion Ratio Lower Upper

75 100

110 9.8 19.5 58.5#

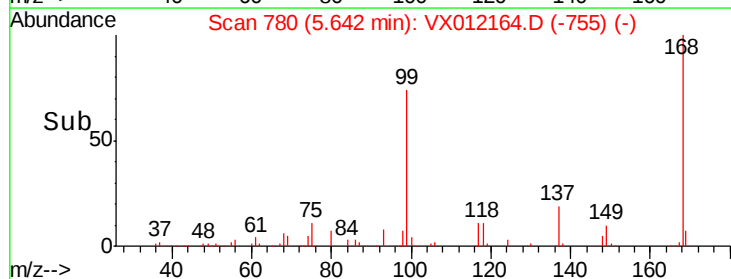
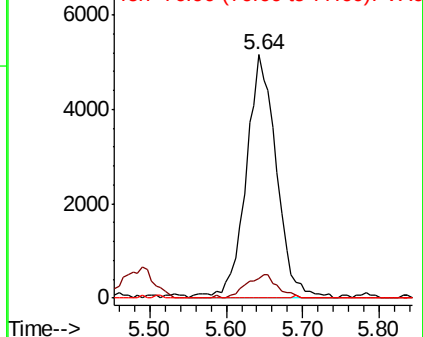
77 0.0 24.6 37.0#

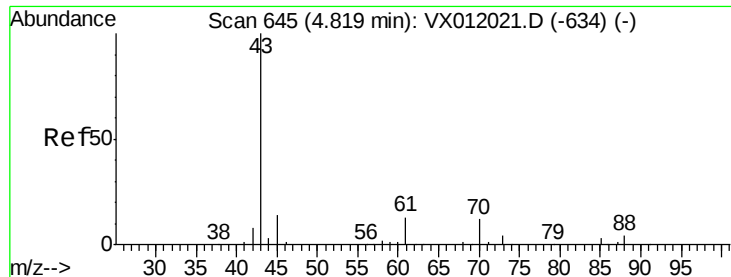


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 10.454 ug/l

RT: 4.67 min Scan# 620

Delta R.T. -0.15 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

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ClientSampleId :

SB-1-(13-15)

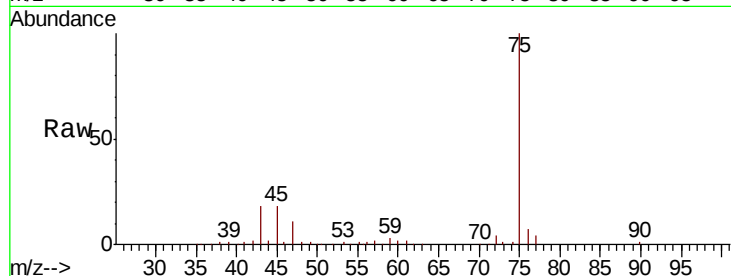
Tgt Ion: 43 Resp: 12785

Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

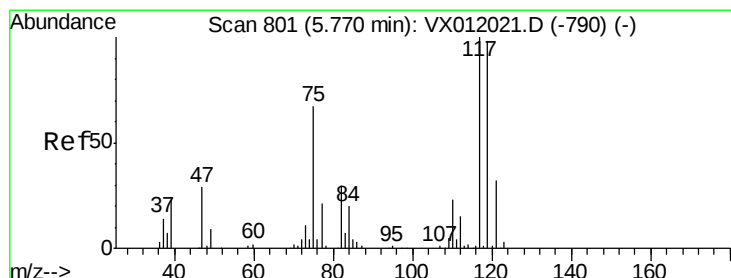
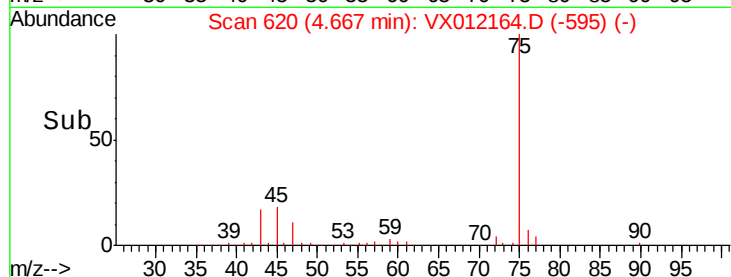
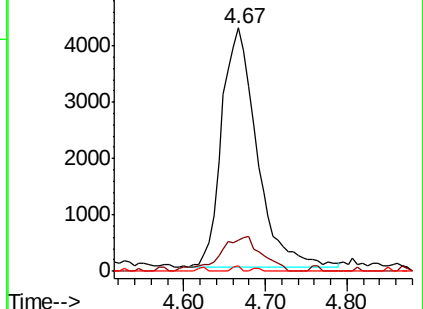
70 0.5 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 7.432 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

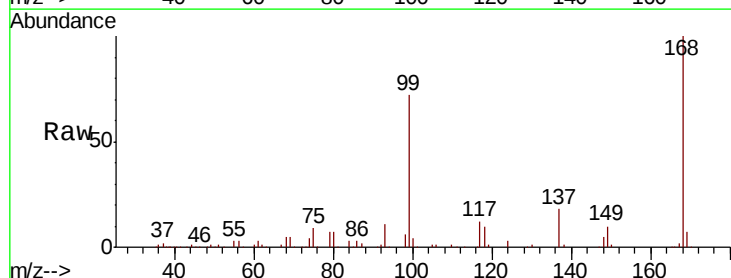
Tgt Ion: 117 Resp: 17612

Ion Ratio Lower Upper

117 100

119 7.0 78.3 117.5#

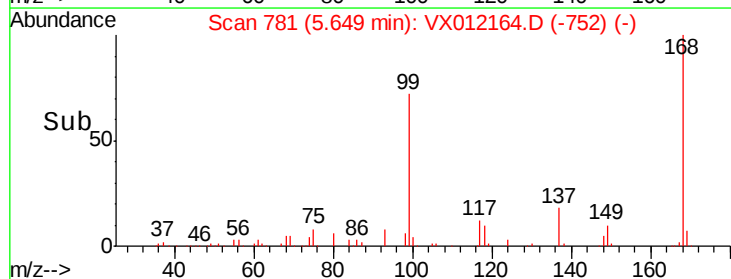
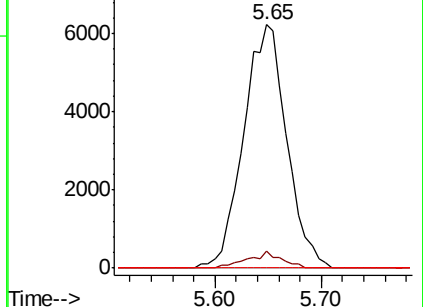
121 0.0 24.2 36.2#

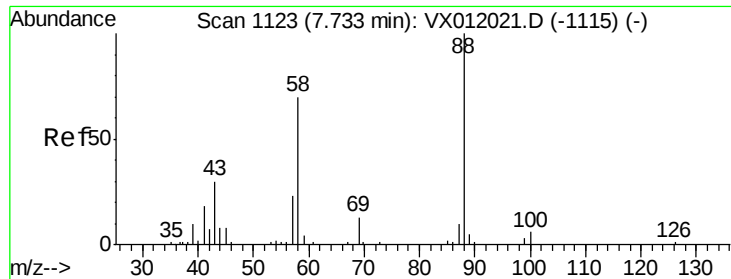


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.115 ug/l

RT: 7.68 min Scan# 1115

Delta R.T. -0.04 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampled :

SB-1-(13-15)

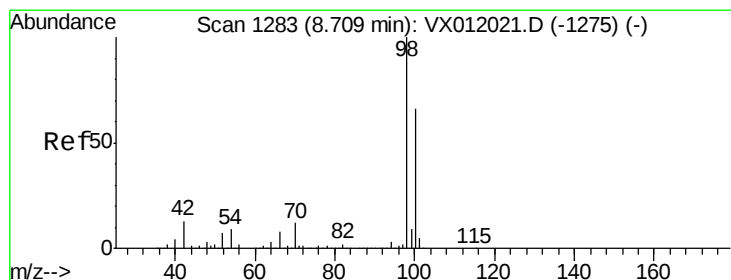
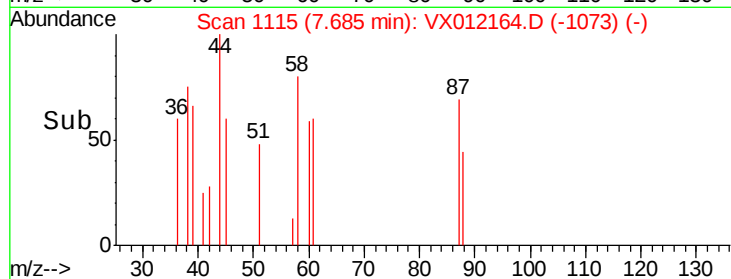
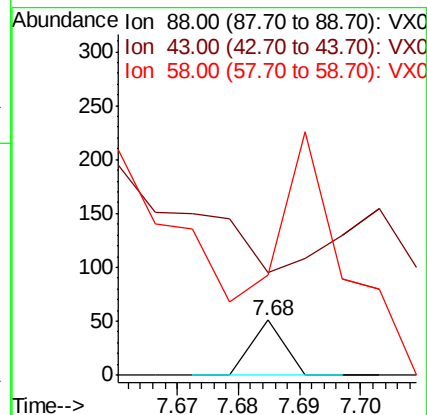
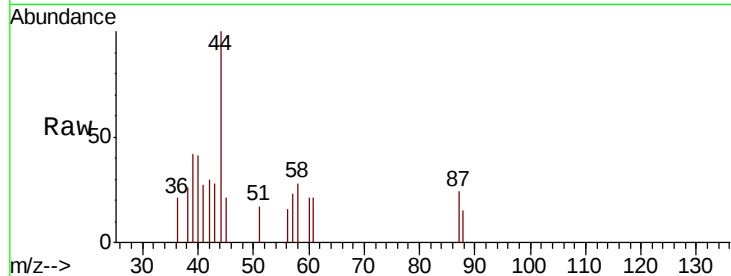
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1378.9 29.8 44.6#

58 936.8 55.4 83.2#



#50

Toluene-d8

Concen: 52.626 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012164.D

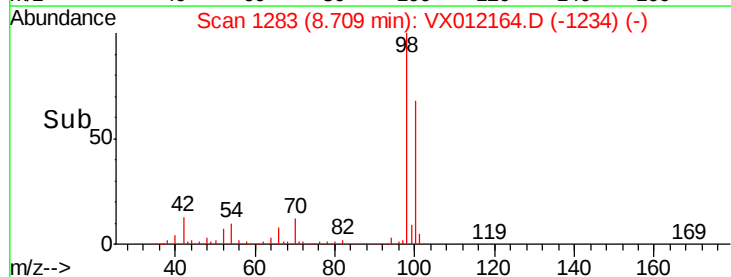
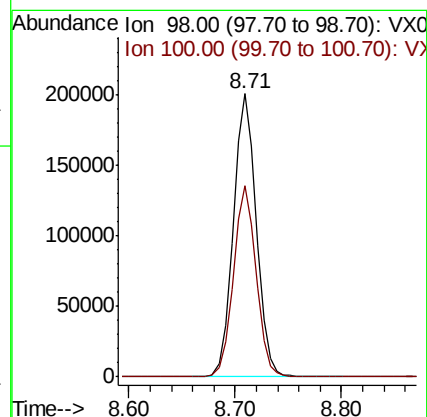
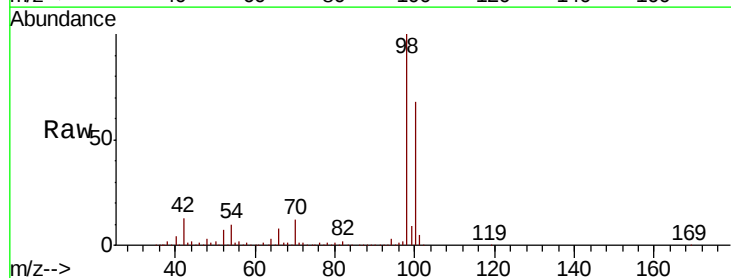
Acq: 06 Sep 2019 22:40

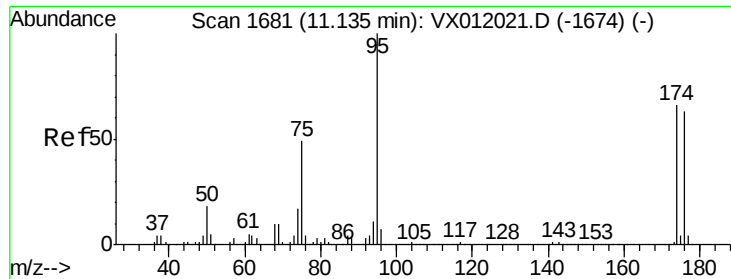
Tgt Ion: 98 Resp: 303244

Ion Ratio Lower Upper

98 100

100 66.9 53.3 79.9





#62

4-Bromofluorobenzene

Concen: 42.830 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

SB-1-(13-15)

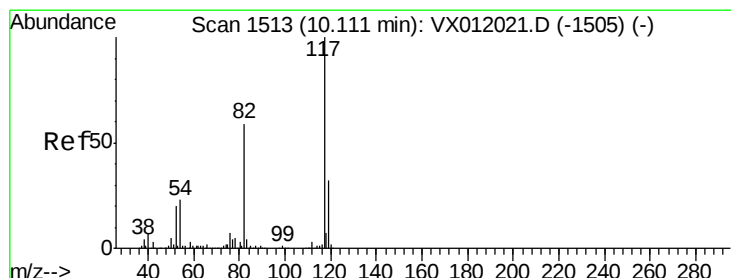
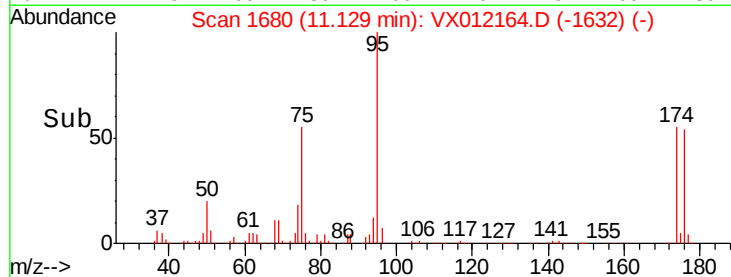
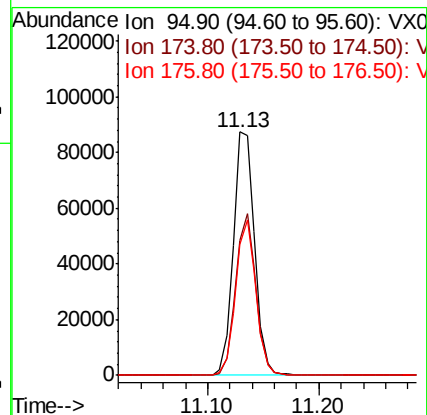
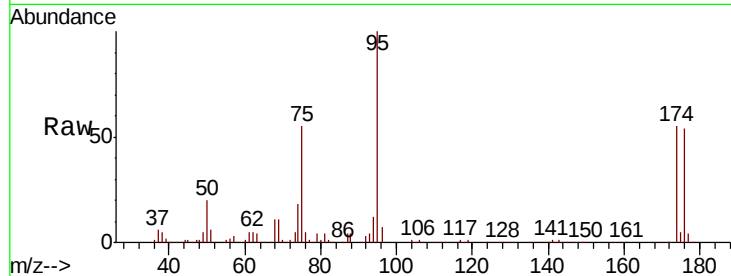
Tgt Ion: 95 Resp: 114775

Ion Ratio Lower Upper

95 100

174 63.3 0.0 205.4

176 60.9 0.0 201.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

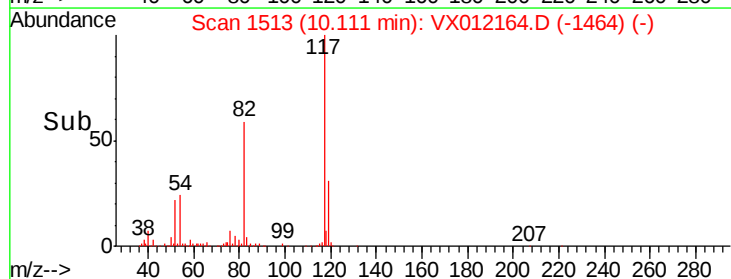
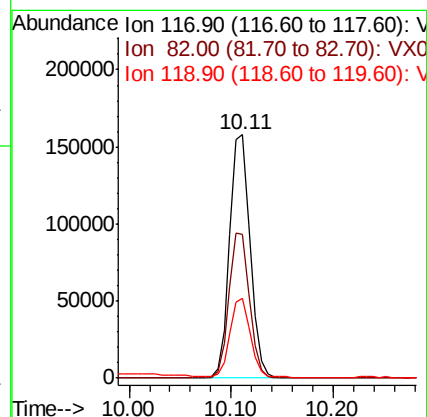
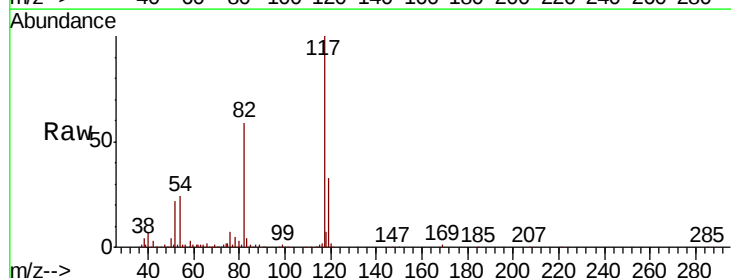
Tgt Ion: 117 Resp: 220384

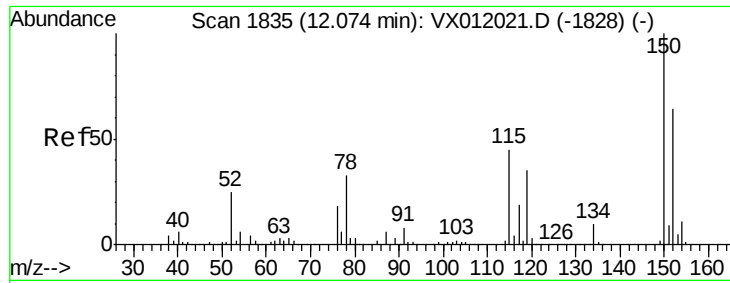
Ion Ratio Lower Upper

117 100

82 59.0 39.4 59.0

119 32.4 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

SB-1-(13-15)

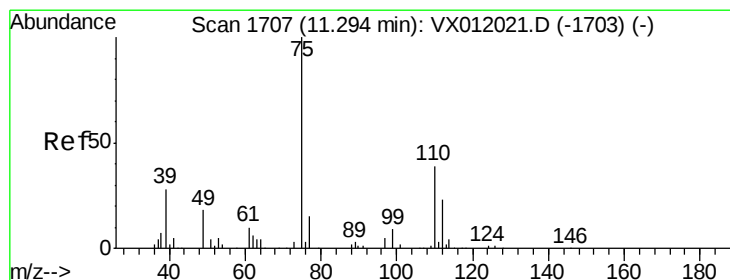
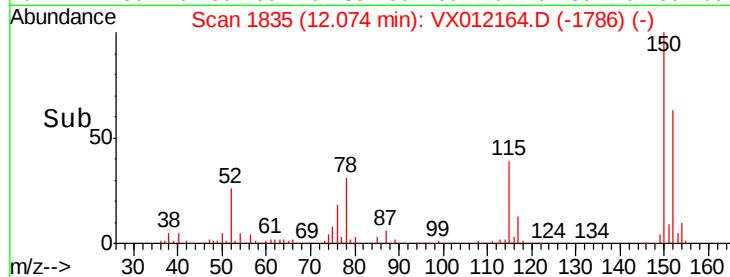
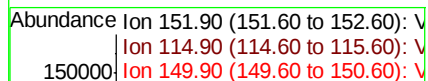
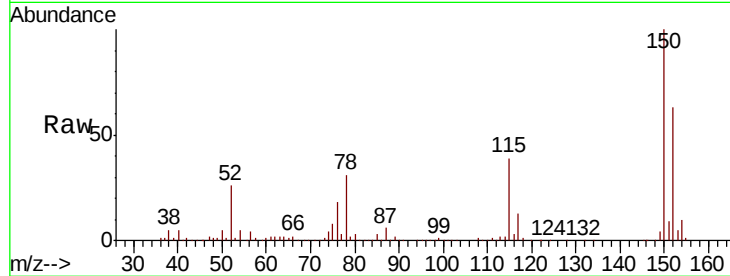
Tgt Ion:152 Resp: 90343

Ion Ratio Lower Upper

152 100

115 64.6 36.4 109.3

150 157.6 0.0 341.2



#76

1,2,3-Trichloropropane

Concen: 55.847 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012164.D

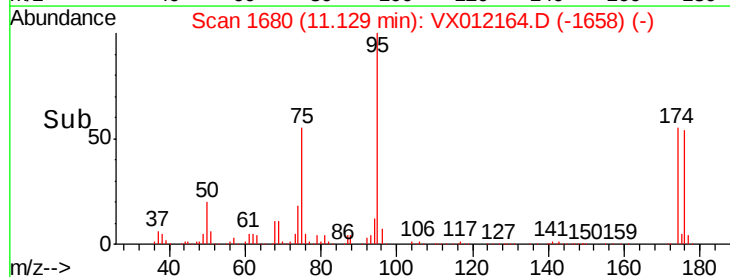
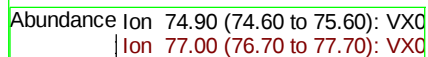
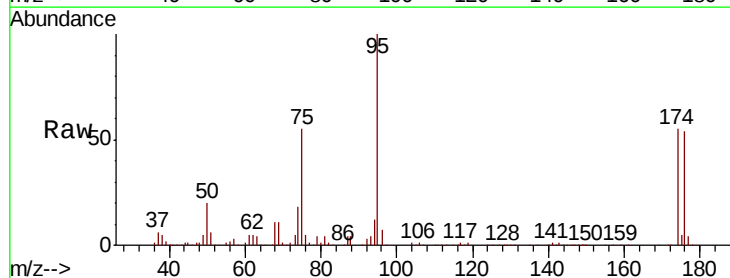
Acq: 06 Sep 2019 22:40

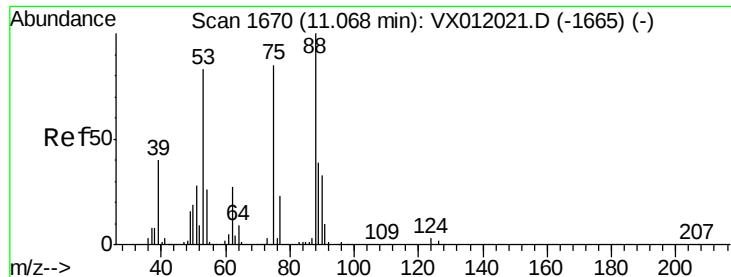
Tgt Ion: 75 Resp: 61647

Ion Ratio Lower Upper

75 100

77 1.2 23.5 70.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 132.031 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012164.D

Acq: 06 Sep 2019 22:40

Instrument :

MSVOA_X

ClientSampleId :

SB-1-(13-15)

Tgt Ion: 75 Resp: 61647

Ion Ratio Lower Upper

75 100

53 0.1 78.6 117.8#

89 0.0 38.8 58.2#

