

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
 Data File : VX012123.D
 Acq On : 06 Sep 2019 02:52
 Operator : SY/SP
 Sample : K4618-04
 Misc : 5.60g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-14-16

Quant Time: Sep 06 05:48:42 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	145328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	252780	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	210825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	82784	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	97557	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	5.48	113	73846	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	8.71	98	297397	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
62) 4-Bromofluorobenzene	11.14	95	110923	41.81	ug/l	0.00
Spiked Amount			Recovery	=	83.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	129	7.062	ug/l #	89
11) Tert butyl alcohol	3.01	59	3702	19.221	ug/l #	73
13) Acrolein	2.27	56	75	Below Cal	#	12
15) Acrylonitrile	3.17	53	781	1.793	ug/l #	43
16) Acetone	2.43	43	9593	20.015	ug/l	91
17) Carbon Disulfide	2.56	76	12246	2.928	ug/l	100
20) Methylene Chloride	2.84	84	2843	1.477	ug/l	95
25) 2-Butanone	4.67	43	6975	11.432	ug/l	93
26) 2,2-Dichloropropane	4.67	77	3482	1.232	ug/l #	53
29) Tetrahydrofuran	5.12	42	2382	6.480	ug/l	95
31) Cyclohexane	5.57	56	2673	1.087	ug/l #	73
36) 1,1-Dichloropropene	5.64	75	13779	6.189	ug/l #	49
37) Ethyl Acetate	4.67	43	6975	5.761	ug/l #	60
38) Carbon Tetrachloride	5.65	117	17439	7.434	ug/l #	15
39) Methylcyclohexane	7.45	83	5386	2.084	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	58220	57.558	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.14	75	58220	136.077	ug/l #	10
90) Hexachloroethane	12.59	117	1436	1.255	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.01	75	827	3.121	ug/l #	1
95) Naphthalene	13.83	128	24389	6.458	ug/l #	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012123.D

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Instrument :

MSVOA_X

ClientSampleId :

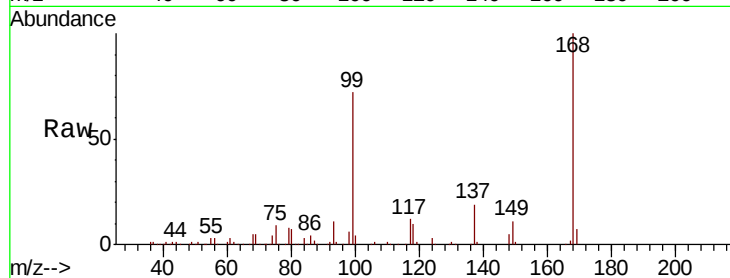
SB-4-14-16

Tgt Ion:168 Resp: 145328

Ion Ratio Lower Upper

168 100

99 71.5 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

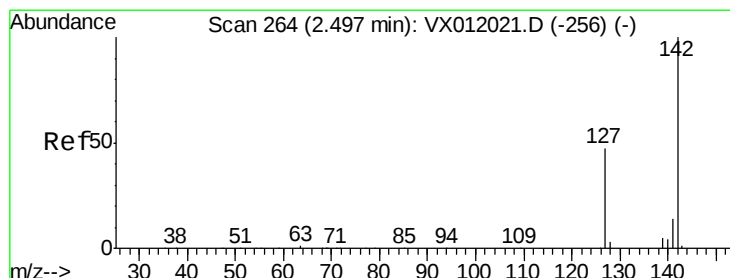
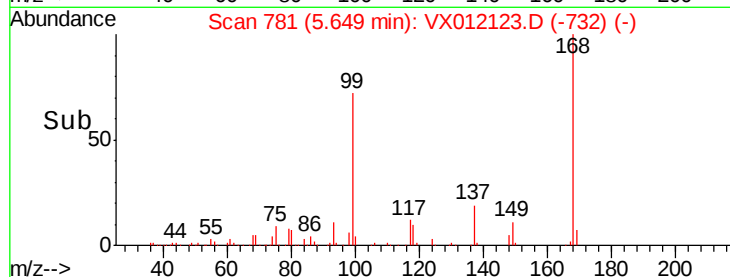
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 7.062 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

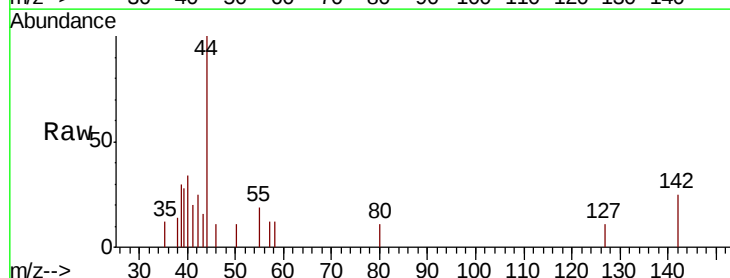
Tgt Ion:142 Resp: 129

Ion Ratio Lower Upper

142 100

127 46.5 35.4 53.2

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

150

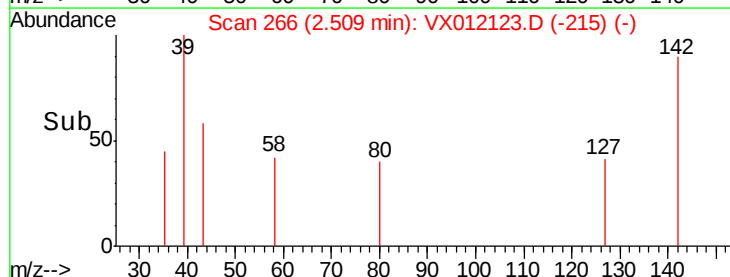
100

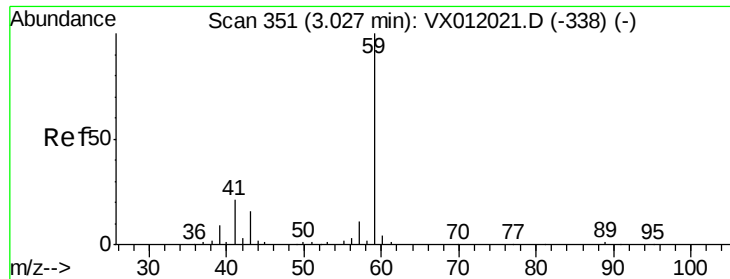
50

0

Time-->

2.48 2.50 2.52 2.54

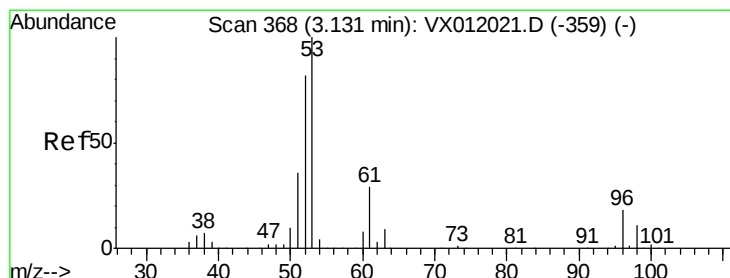
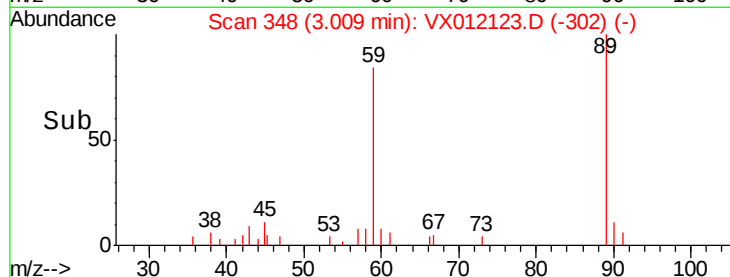
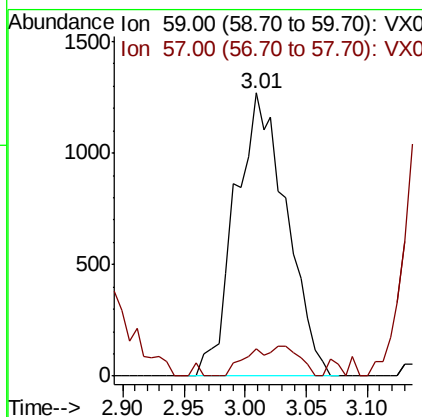
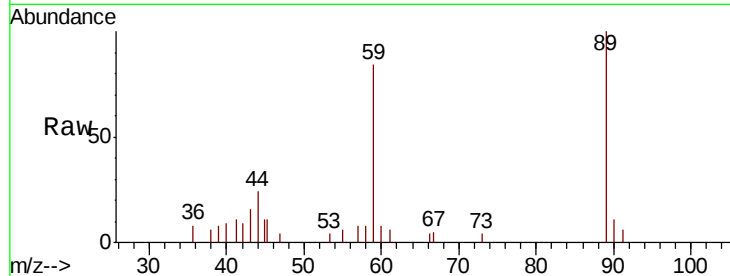




#11
Tert butyl alcohol
Concen: 19.221 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

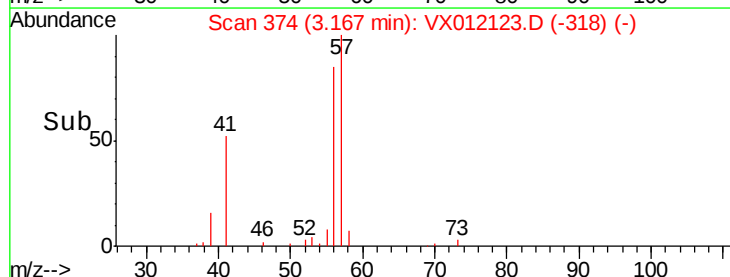
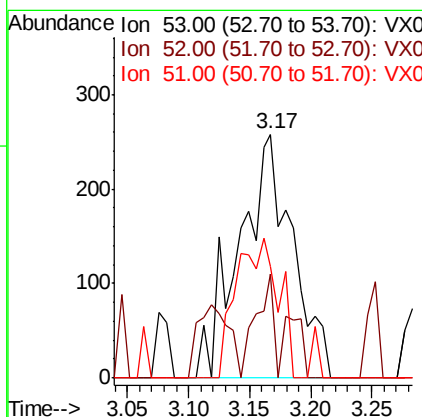
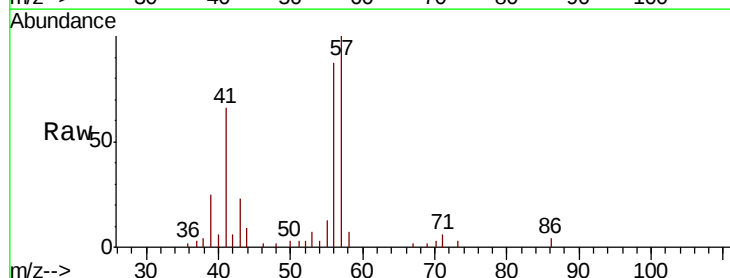
Instrument :
MSVOA_X
ClientSampled :
SB-4-14-16

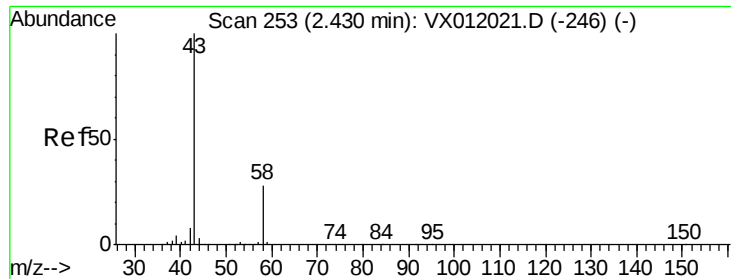
Tgt Ion: 59 Resp: 3702
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#15
Acrylonitrile
Concen: 1.793 ug/l
RT: 3.17 min Scan# 374
Delta R.T. 0.04 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Tgt Ion: 53 Resp: 781
Ion Ratio Lower Upper
53 100
52 14.1 65.6 98.4#
51 45.7 29.8 44.6#





#16

Acetone

Concen: 20.015 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

Instrument :

MSVOA_X

ClientSampled :

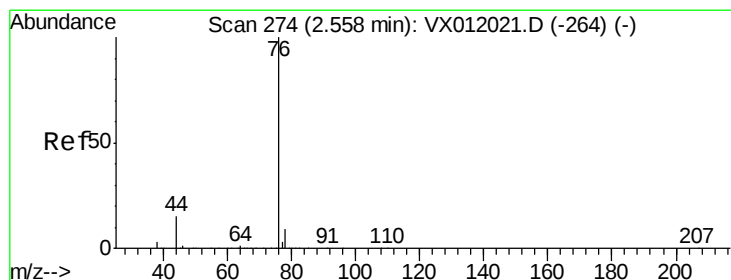
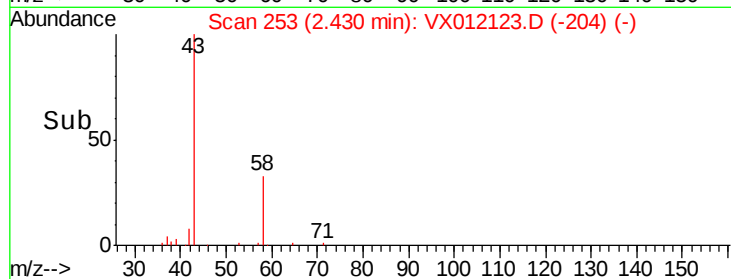
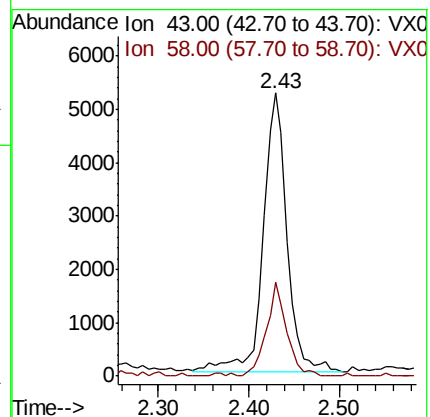
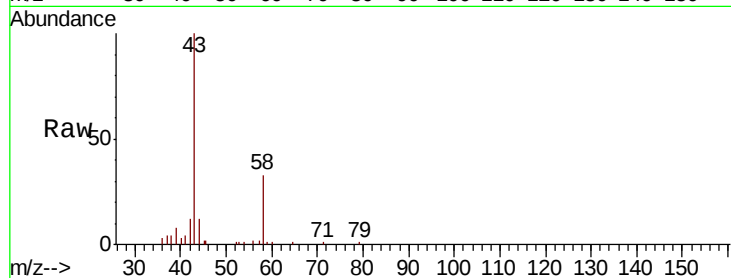
SB-4-14-16

Tgt Ion: 43 Resp: 9593

Ion Ratio Lower Upper

43 100

58 33.5 22.8 34.2



#17

Carbon Disulfide

Concen: 2.928 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX012123.D

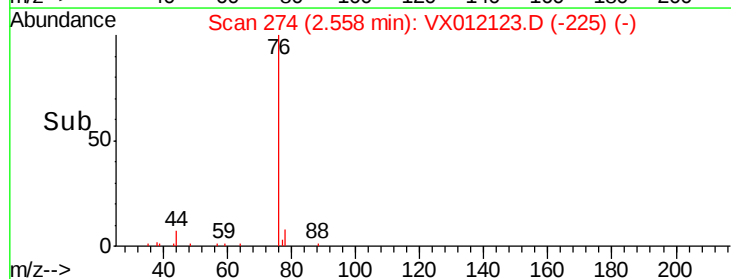
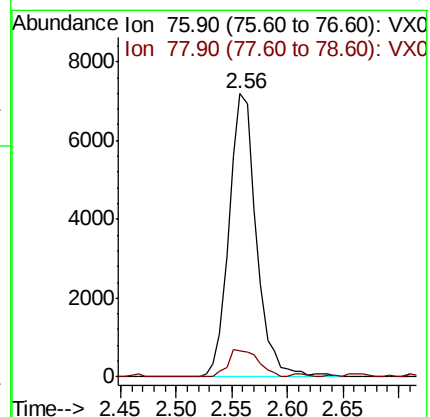
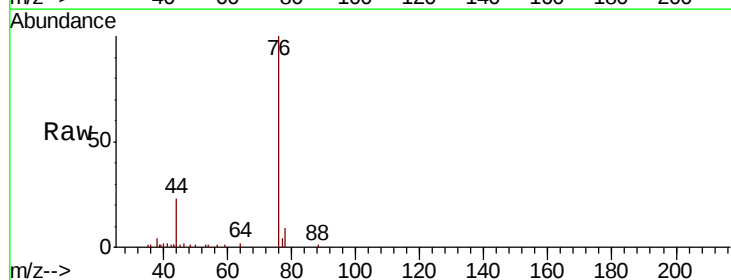
Acq: 06 Sep 2019 02:52

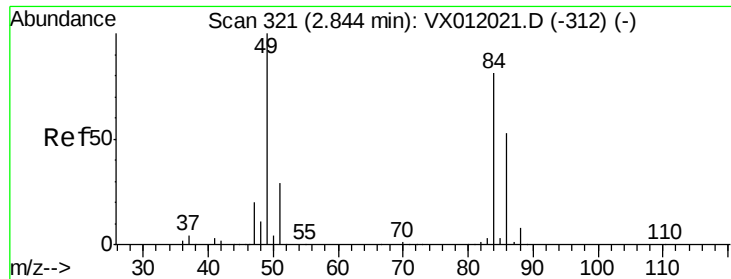
Tgt Ion: 76 Resp: 12246

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2

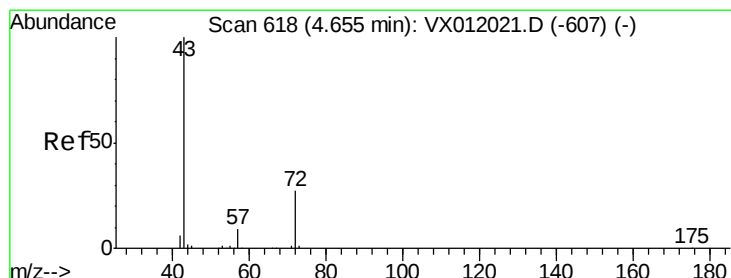
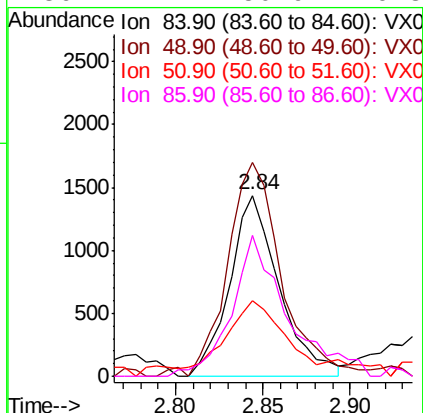
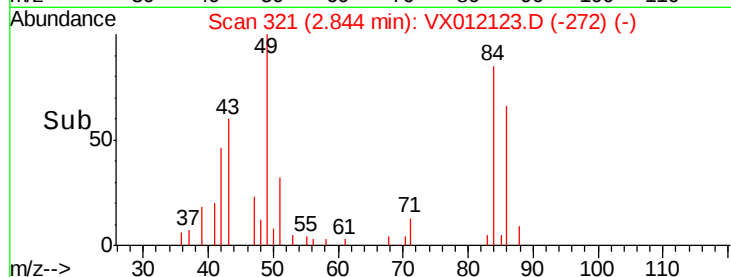
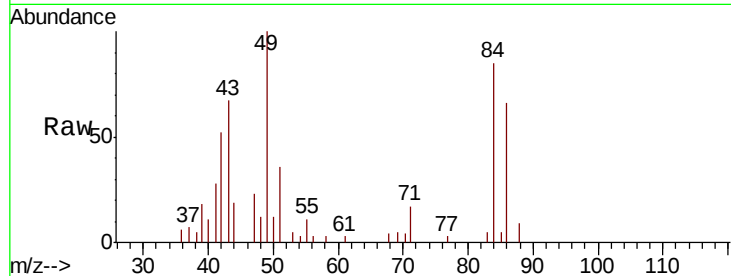




#20
Methylene Chloride
Concen: 1.477 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

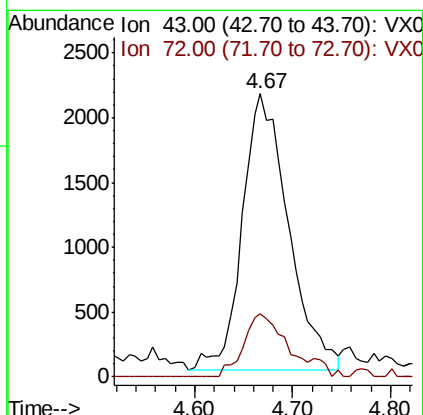
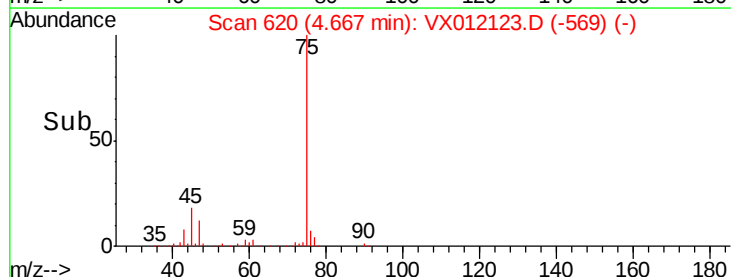
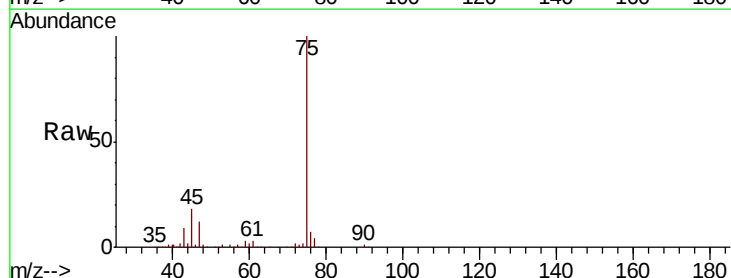
Instrument :
MSVOA_X
ClientSampleId :
SB-4-14-16

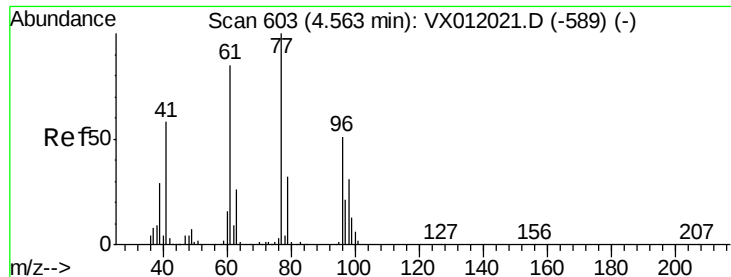
Tgt Ion:	84	Resp:	2843
Ion	Ratio	Lower	Upper
84	100		
49	117.9	95.8	143.8
51	36.8	28.6	43.0
86	74.2	50.9	76.3



#25
2-Butanone
Concen: 11.432 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Tgt Ion:	43	Resp:	6975
Ion	Ratio	Lower	Upper
43	100		
72	22.9	21.3	31.9





#26

2,2-Dichloropropane

Concen: 1.232 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.10 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

Instrument :

MSVOA_X

ClientSampled :

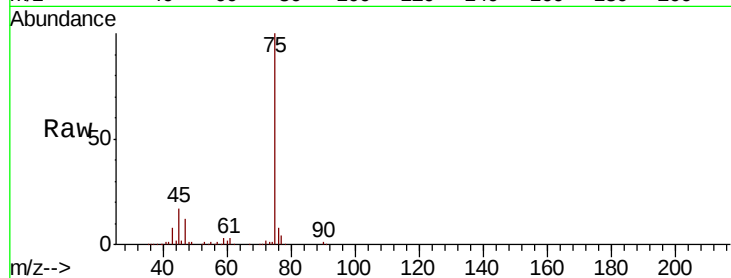
SB-4-14-16

Tgt Ion: 77 Resp: 3482

Ion Ratio Lower Upper

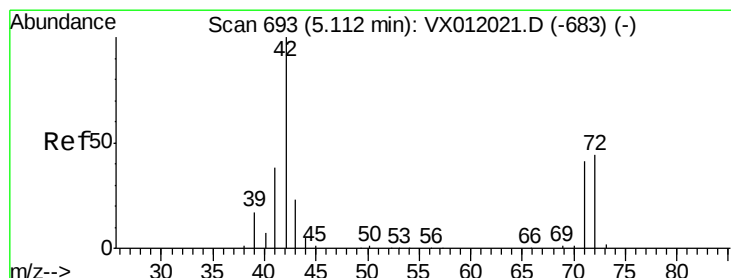
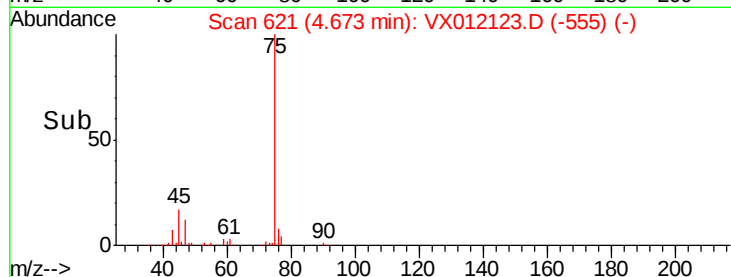
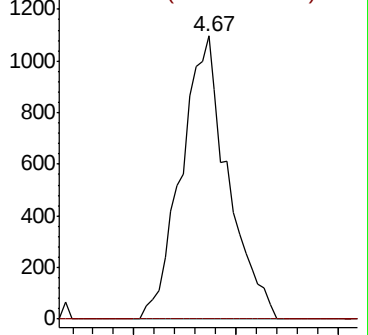
77 100

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



#29

Tetrahydrofuran

Concen: 6.480 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

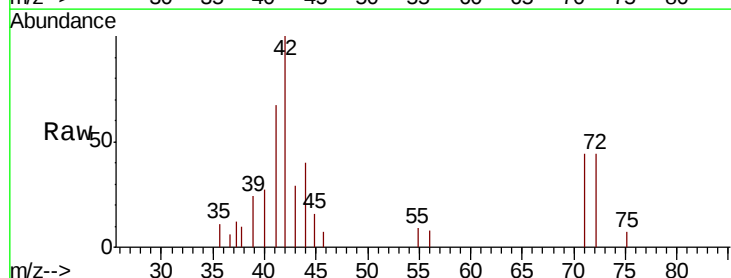
Tgt Ion: 42 Resp: 2382

Ion Ratio Lower Upper

42 100

72 45.8 37.0 55.4

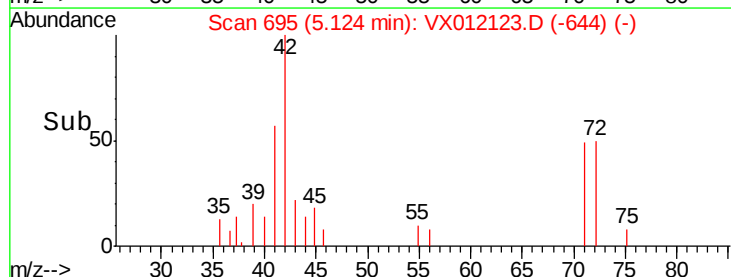
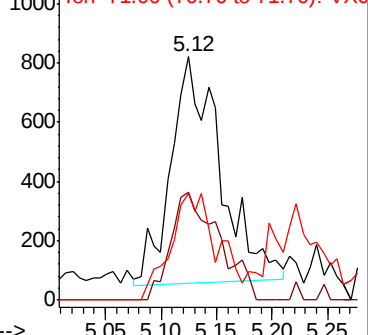
71 35.8 33.8 50.8

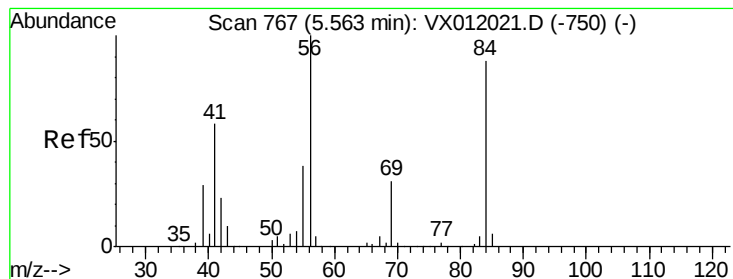


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.087 ug/l

RT: 5.57 min Scan# 768

Delta R.T. 0.01 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

Instrument :

MSVOA_X

ClientSampleId :

SB-4-14-16

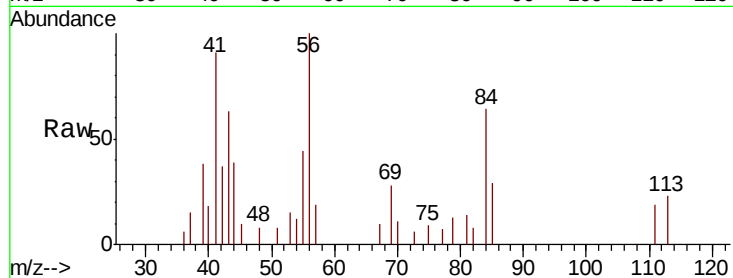
Tgt Ion: 56 Resp: 2673

Ion Ratio Lower Upper

56 100

69 4.9 25.7 38.5#

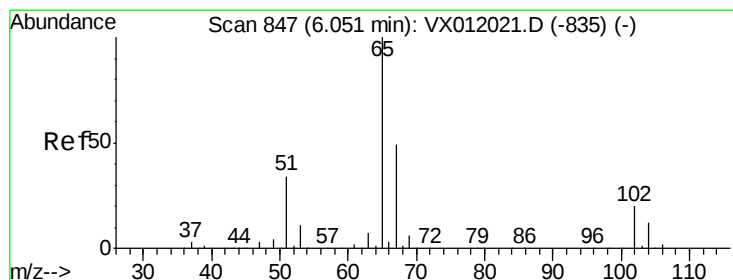
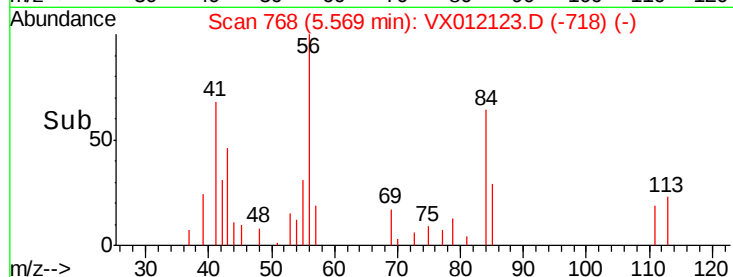
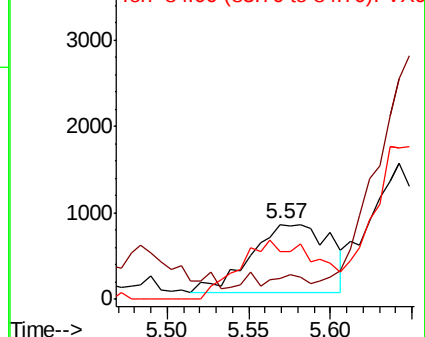
84 69.9 70.3 105.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.651 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012123.D

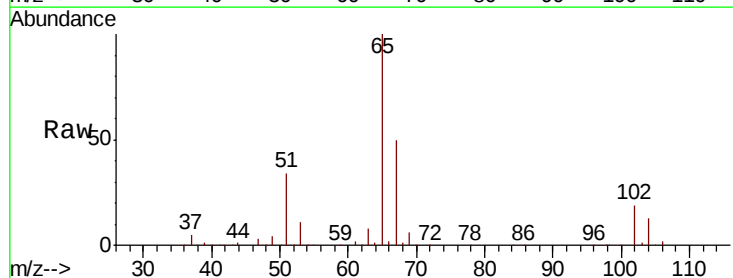
Acq: 06 Sep 2019 02:52

Tgt Ion: 65 Resp: 97557

Ion Ratio Lower Upper

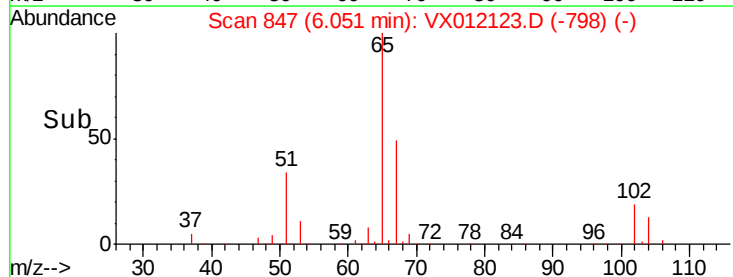
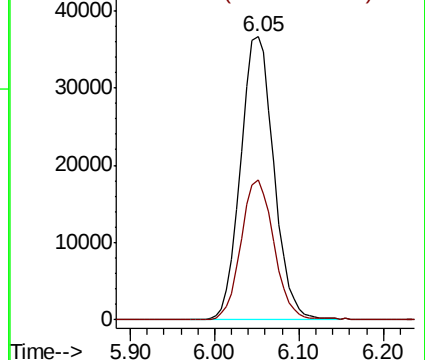
65 100

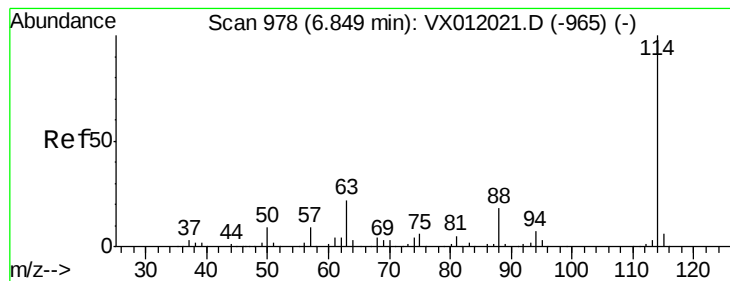
67 48.8 0.0 102.0



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: VX012123.D

Acq: 06 Sep 2019 02:52

Instrument :

MSVOA_X

ClientSampled :

SB-4-14-16

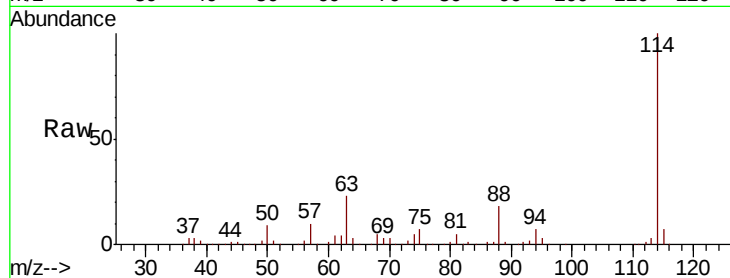
Tgt Ion:114 Resp: 252780

Ion Ratio Lower Upper

114 100

63 23.4 0.0 37.4

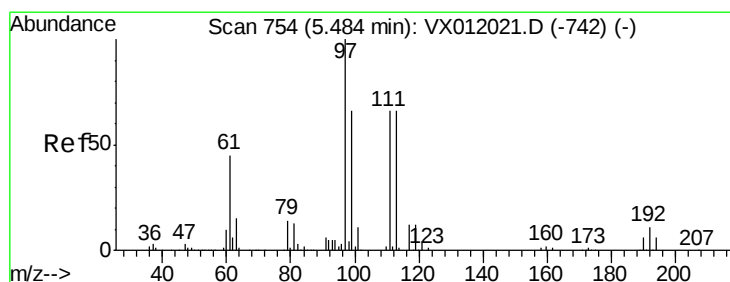
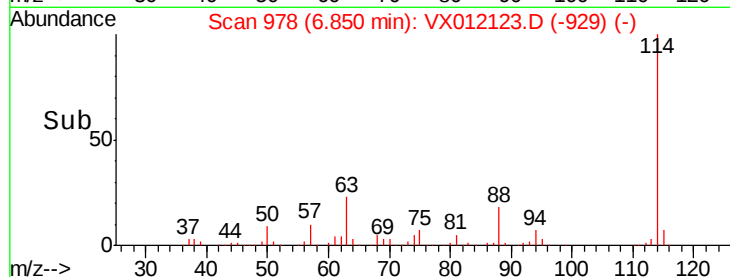
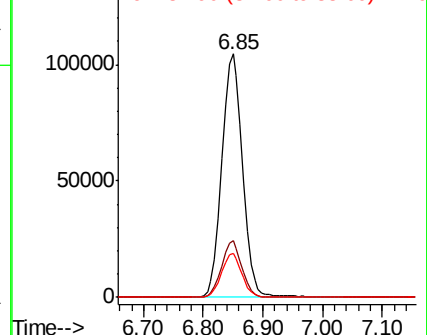
88 18.0 0.0 29.6



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: 47.504 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

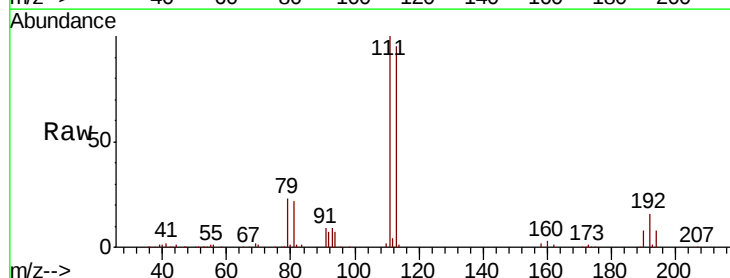
Tgt Ion:113 Resp: 73846

Ion Ratio Lower Upper

113 100

111 103.6 81.7 122.5

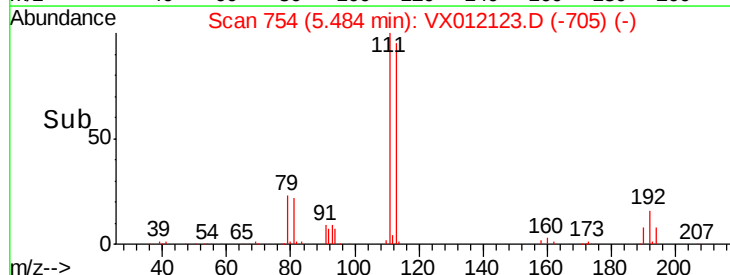
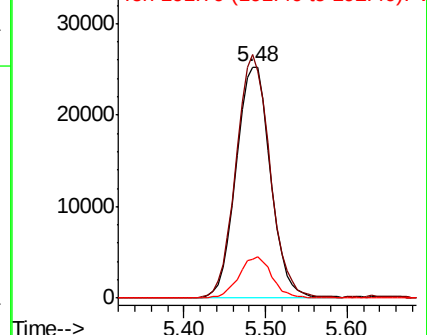
192 17.1 22.5 33.7#

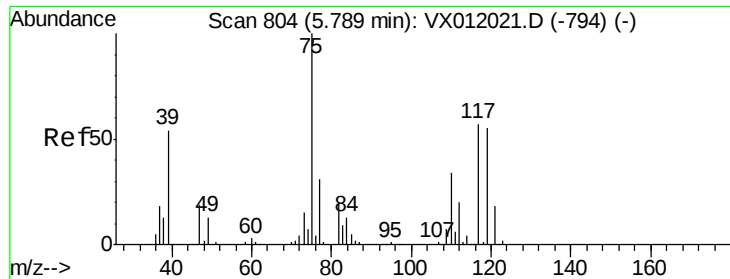


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

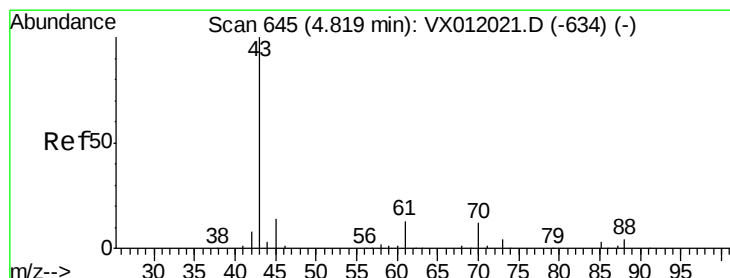
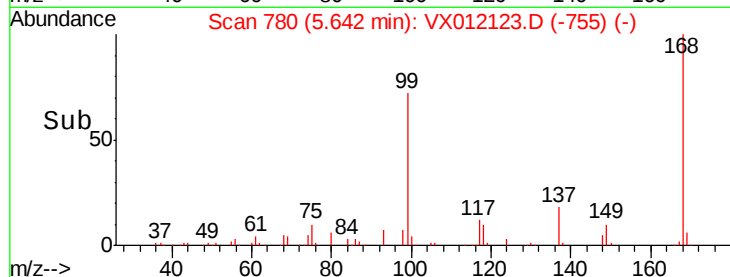
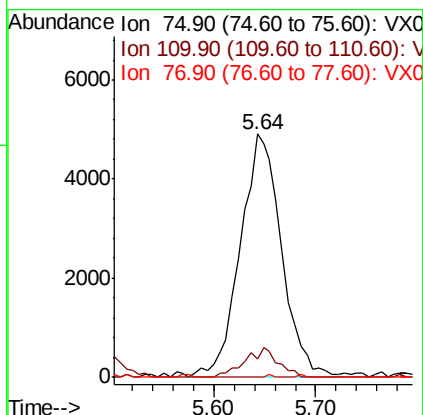
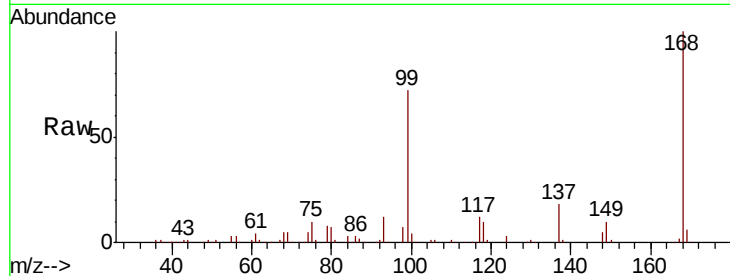




#36
 1,1-Dichloropropene
 Concen: 6.189 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012123.D
 Acq: 06 Sep 2019 02:52

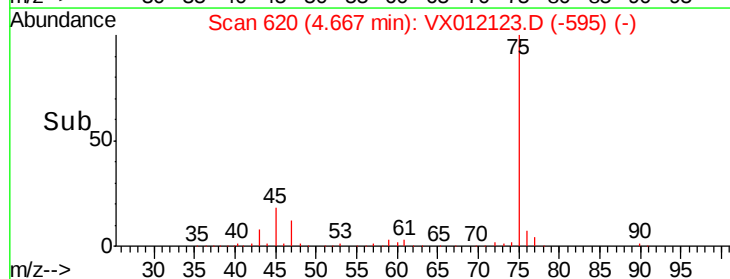
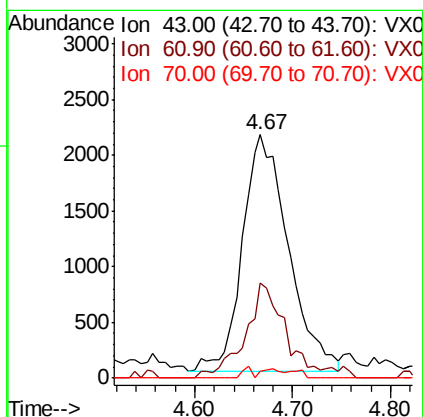
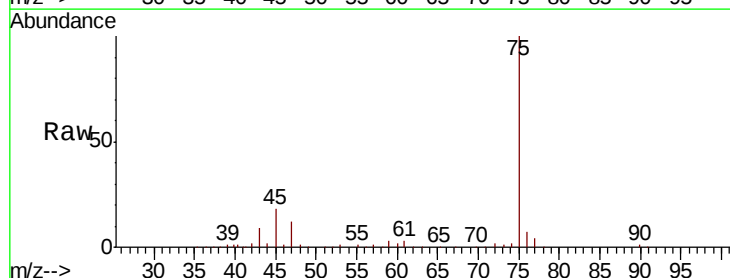
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-14-16

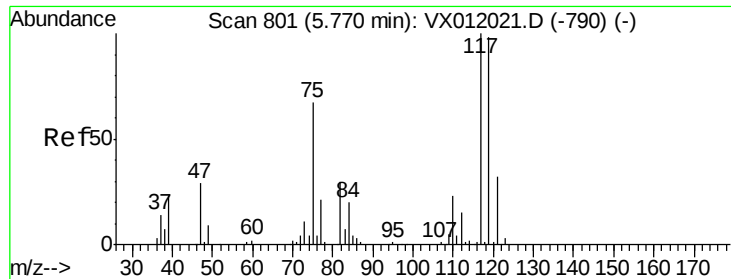
Tgt Ion: 75 Resp: 13779
 Ion Ratio Lower Upper
 75 100
 110 9.9 19.5 58.5#
 77 0.2 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 5.761 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. -0.15 min
 Lab File: VX012123.D
 Acq: 06 Sep 2019 02:52

Tgt Ion: 43 Resp: 6975
 Ion Ratio Lower Upper
 43 100
 61 34.7 10.9 16.3#
 70 1.7 9.4 14.0#

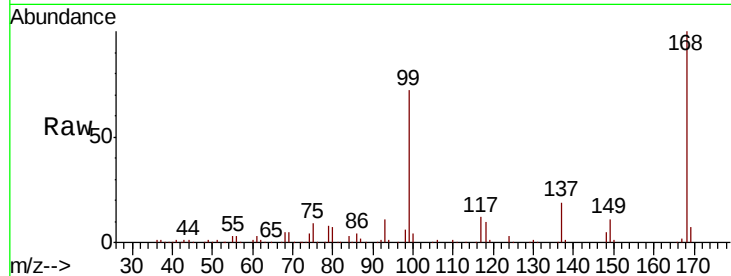




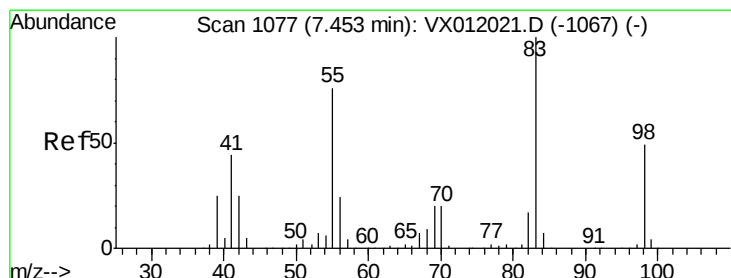
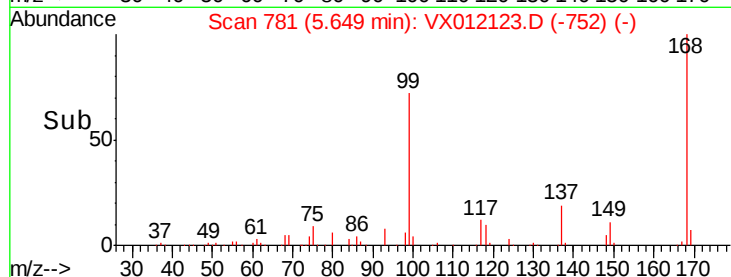
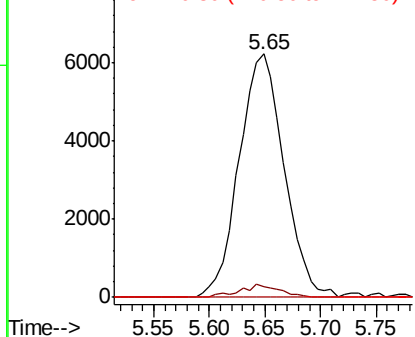
#38
Carbon Tetrachloride
Concen: 7.434 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.12 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Instrument :
MSVOA_X
ClientSampleId :
SB-4-14-16

Tgt Ion: 117 Resp: 17439
Ion Ratio Lower Upper
117 100
119 4.6 78.3 117.5#
121 0.0 24.2 36.2#

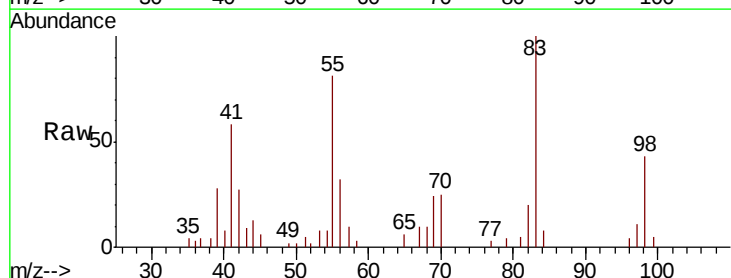


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

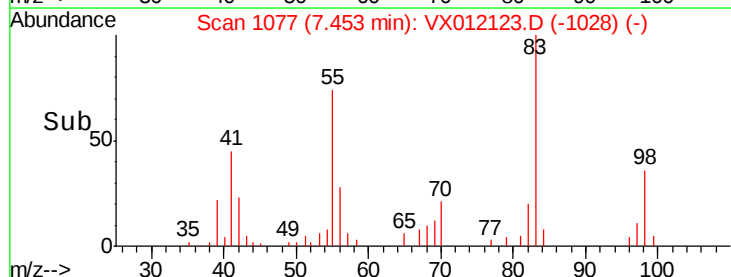
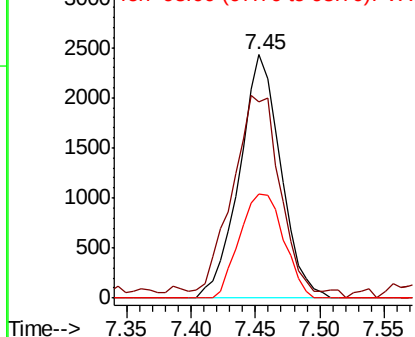


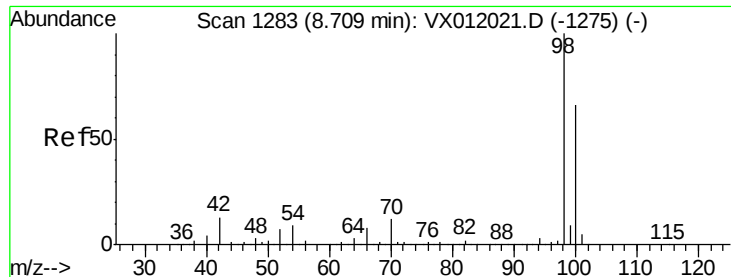
#39
Methylcyclohexane
Concen: 2.084 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Tgt Ion: 83 Resp: 5386
Ion Ratio Lower Upper
83 100
55 77.8 59.6 89.4
98 42.9 41.4 62.0



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

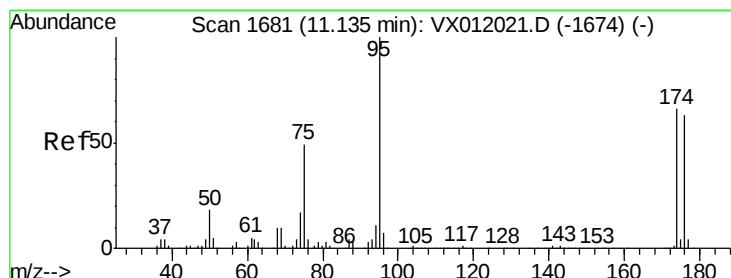
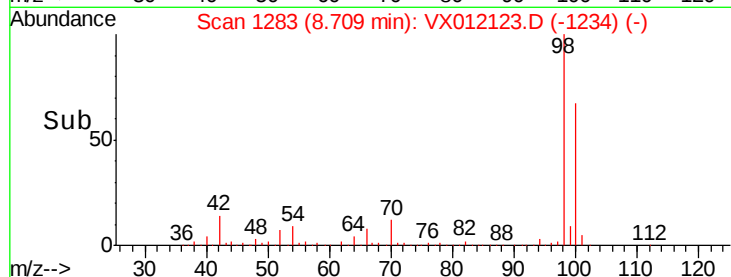
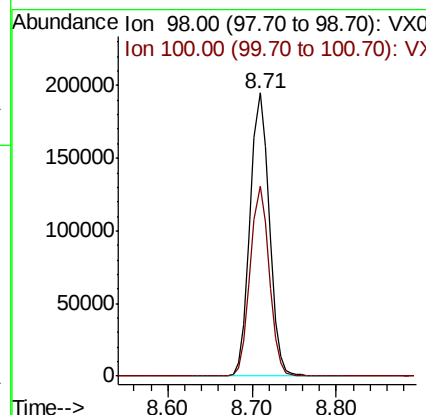
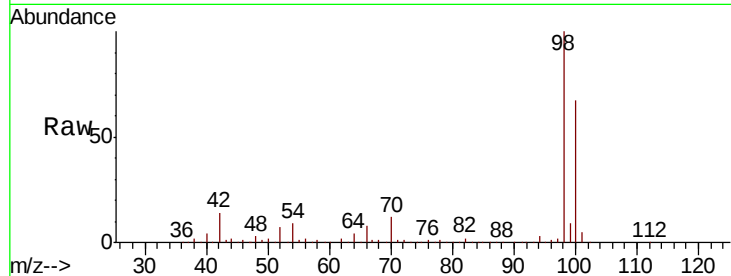




#50
Toluene-d8
Concen: 52.135 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

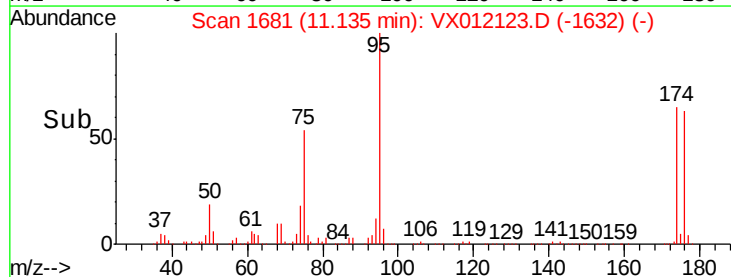
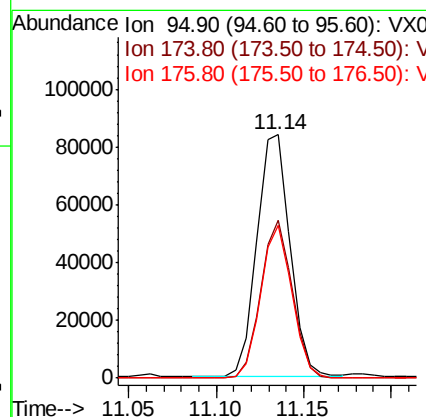
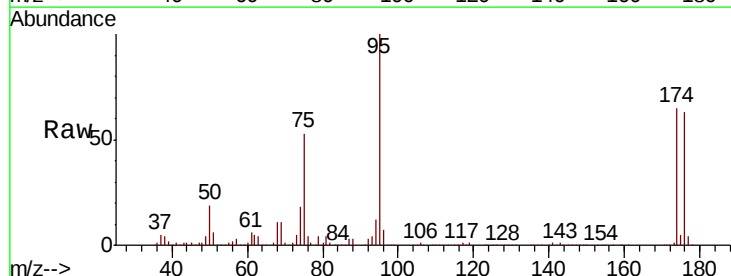
Instrument :
MSVOA_X
ClientSampleId :
SB-4-14-16

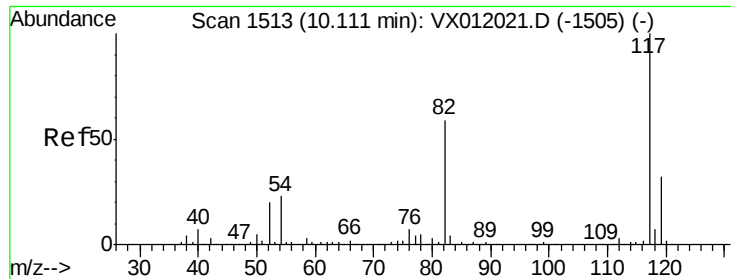
Tgt Ion: 98 Resp: 297397
Ion Ratio Lower Upper
98 100
100 66.3 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 41.812 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Tgt Ion: 95 Resp: 110923
Ion Ratio Lower Upper
95 100
174 61.7 0.0 205.4
176 59.5 0.0 201.8

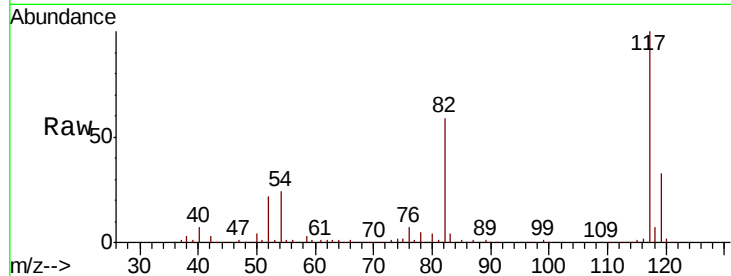




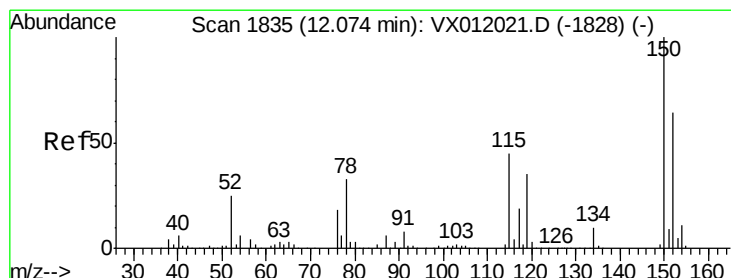
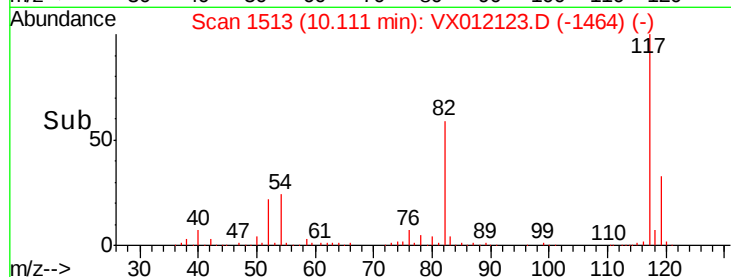
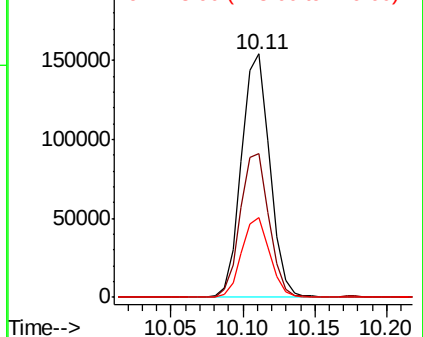
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Instrument :
MSVOA_X
ClientSampled :
SB-4-14-16

Tgt Ion:117 Resp: 210825
Ion Ratio Lower Upper
117 100
82 58.8 39.4 59.0
119 32.7 26.1 39.1

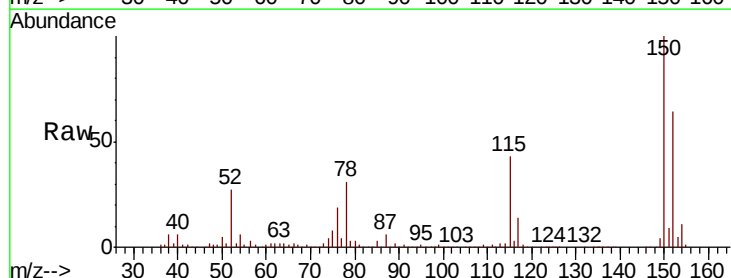


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

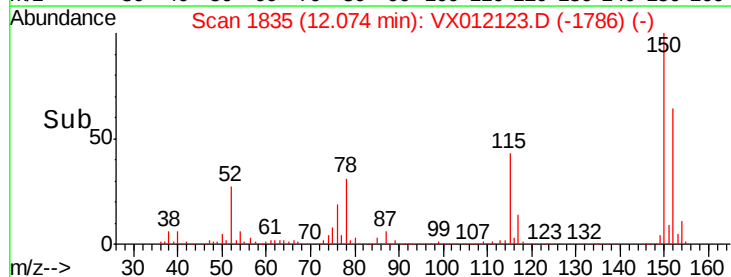
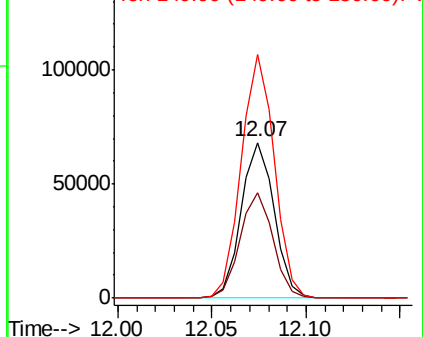


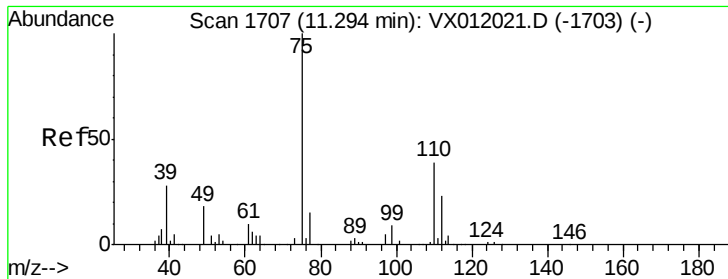
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Tgt Ion:152 Resp: 82784
Ion Ratio Lower Upper
152 100
115 67.0 36.4 109.3
150 156.8 0.0 341.2



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: 57.558 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

Instrument :

MSVOA_X

ClientSampled :

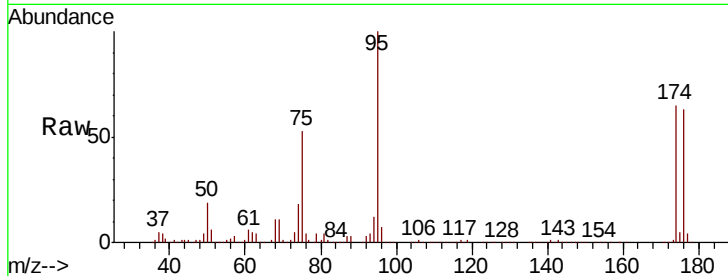
SB-4-14-16

Tgt Ion: 75 Resp: 58220

Ion Ratio Lower Upper

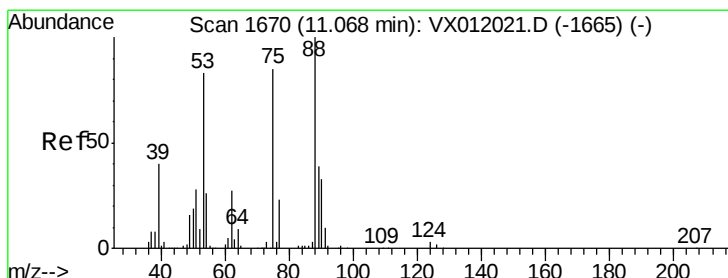
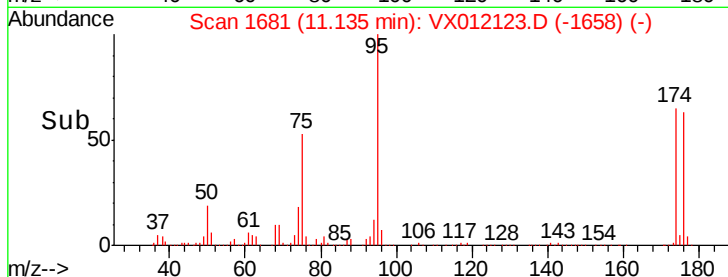
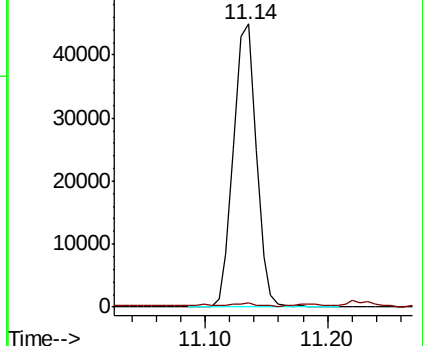
75 100

77 1.2 23.5 70.5#



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: 136.077 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

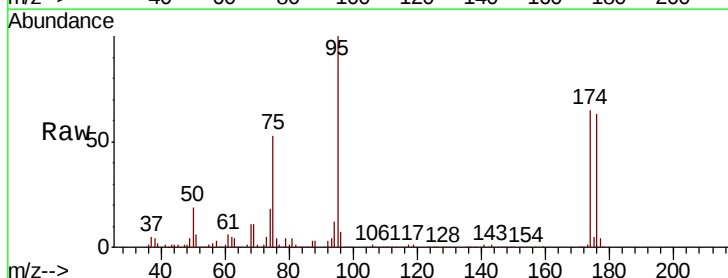
Tgt Ion: 75 Resp: 58220

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

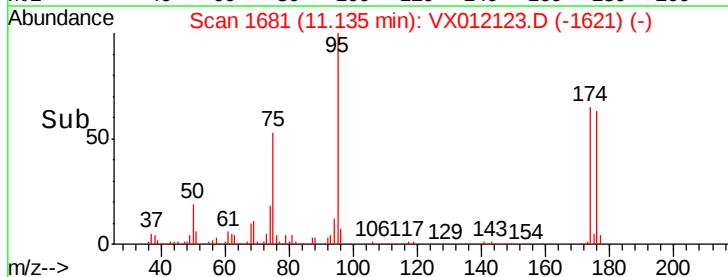
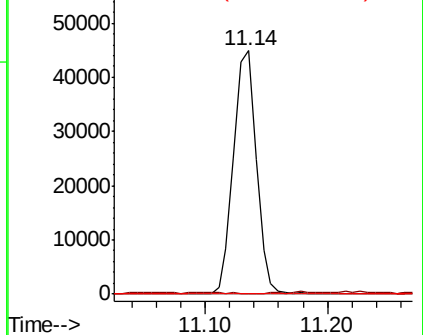
89 0.0 38.8 58.2#

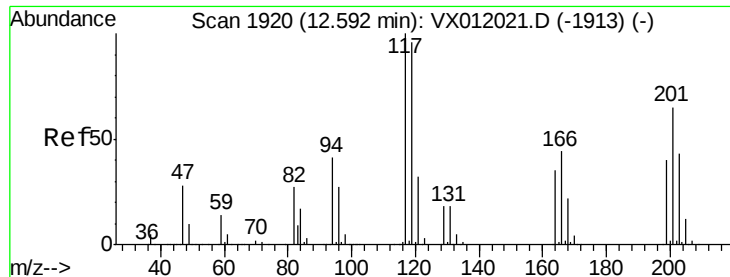


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 1.255 ug/l

RT: 12.59 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

Instrument :

MSVOA_X

ClientSampled :

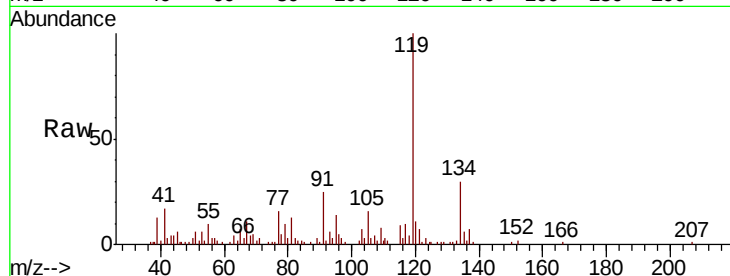
SB-4-14-16

Tgt Ion: 117 Resp: 1436

Ion Ratio Lower Upper

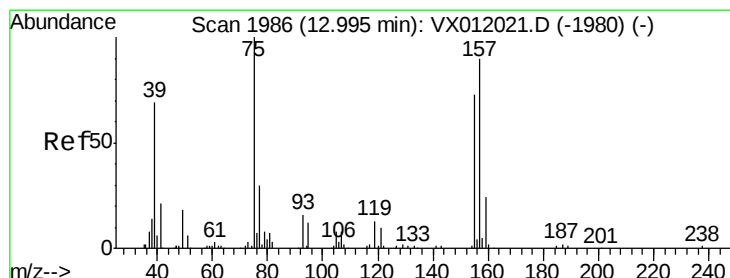
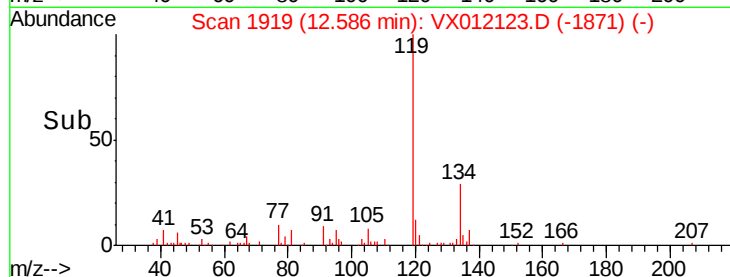
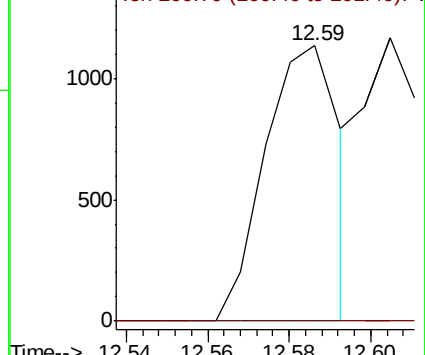
117 100

201 0.0 55.0 165.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.121 ug/l

RT: 13.01 min Scan# 1989

Delta R.T. 0.02 min

Lab File: VX012123.D

Acq: 06 Sep 2019 02:52

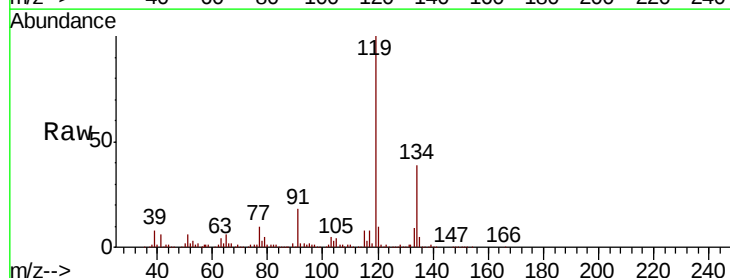
Tgt Ion: 75 Resp: 827

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

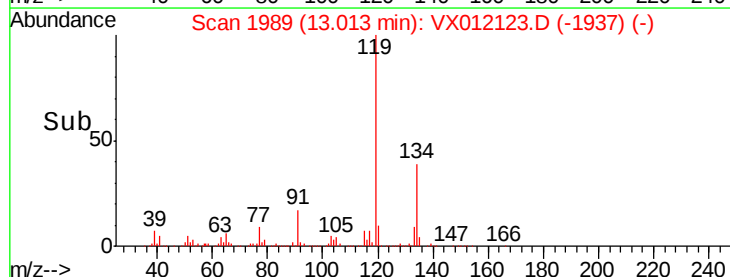
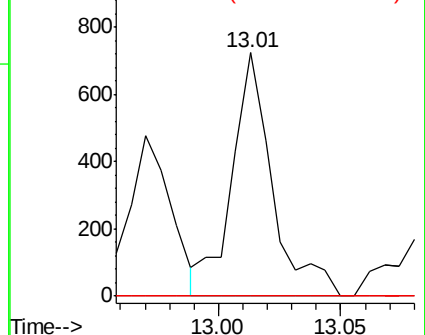
157 0.0 66.9 200.7#

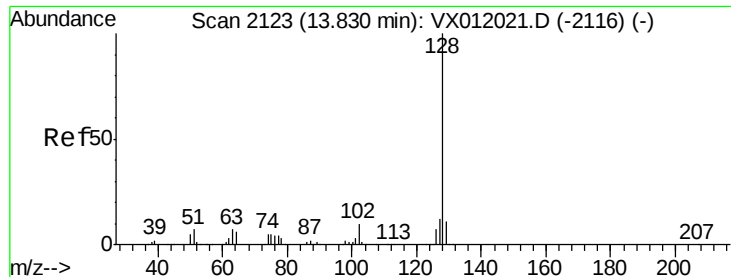


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

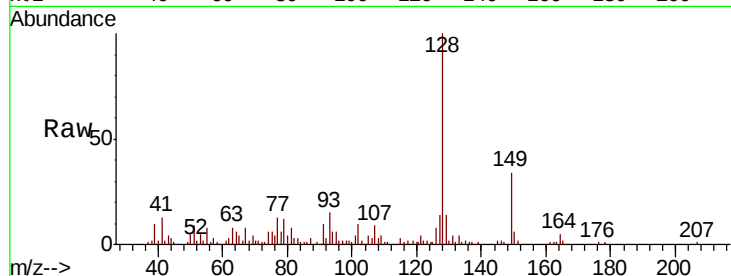




#95
Naphthalene
Concen: 6.458 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX012123.D
Acq: 06 Sep 2019 02:52

Instrument :
MSVOA_X
ClientSampleId :
SB-4-14-16

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.5	15.7
129	15.7	8.8	13.2



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

