

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013493.D
 Acq On : 21 Nov 2019 11:07
 Operator : JC/SP
 Sample : VX1121WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1121WBL01

Quant Time: Nov 21 15:24:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	704225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1116582	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	976102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	423945	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	407527	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
35) Dibromofluoromethane	5.48	113	340556	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
50) Toluene-d8	8.71	98	1331113	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	11.13	95	429406	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

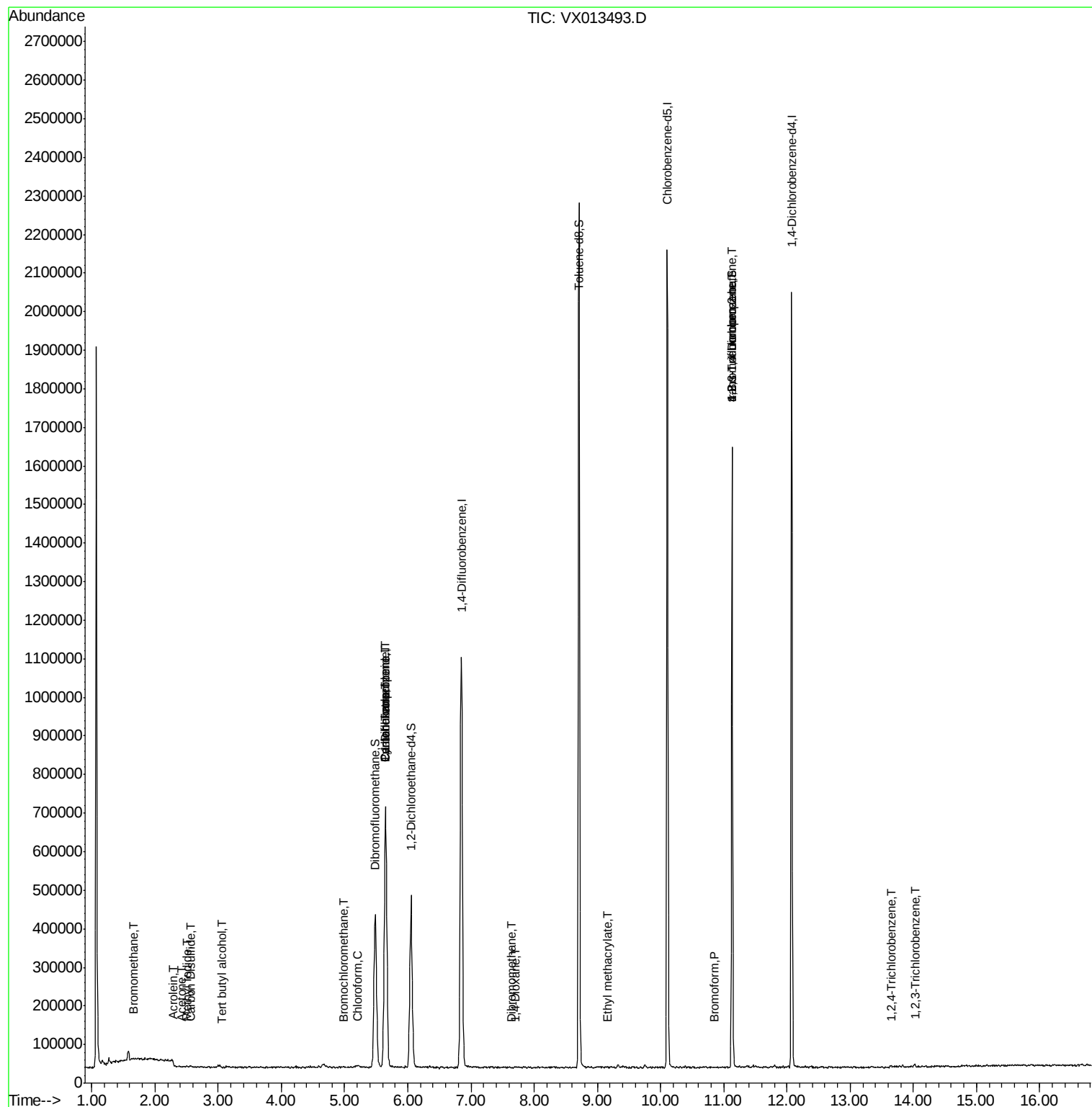
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	2109	0.302	ug/l	99
6) Chloroethane	1.78	64	458	Below Cal	#	43
10) Methyl Iodide	2.50	142	2225	0.272	ug/l #	67
11) Tert butyl alcohol	3.06	59	546	0.248	ug/l #	1
13) Acrolein	2.30	56	285	0.239	ug/l #	26
16) Acetone	2.42	43	2808	0.675	ug/l #	55
17) Carbon Disulfide	2.56	76	4061	0.235	ug/l #	80
28) Bromochloromethane	5.00	49	968	0.269	ug/l #	96
30) Chloroform	5.20	83	6631	0.530	ug/l	92
31) Cyclohexane	5.65	56	12749	1.118	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	44971	4.695	ug/l #	53
38) Carbon Tetrachloride	5.64	117	62060	6.625	ug/l #	17
46) Dibromomethane	7.65	93	1351	0.260	ug/l #	28
49) 1,4-Dioxane	7.71	88	398	1.889	ug/l #	1
56) Ethyl methacrylate	9.17	69	247	1.581	ug/l #	22
71) Bromoform	10.86	173	570	3.282	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	212606	24.690	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	212606	63.552	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.64	180	1987	0.213	ug/l	91
96) 1,2,3-Trichlorobenzene	14.02	180	2322	0.249	ug/l #	58

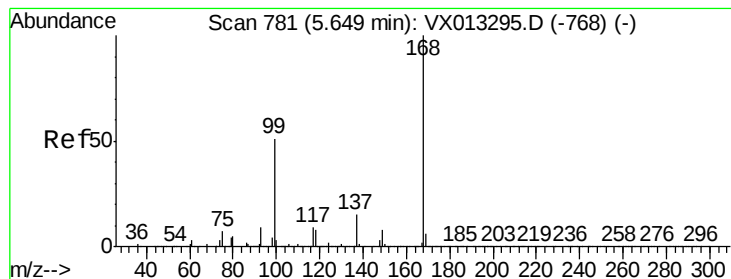
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

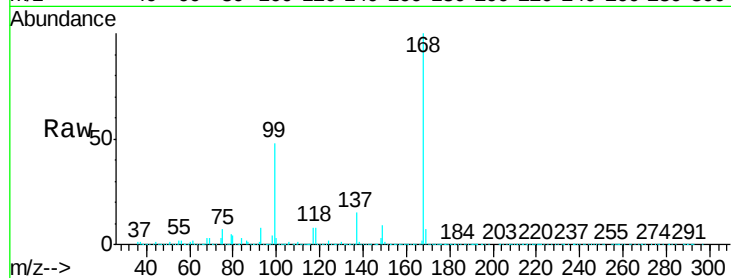
VX1121WBL01

Tgt Ion: 168 Resp: 704225

Ion Ratio Lower Upper

168 100

99 47.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

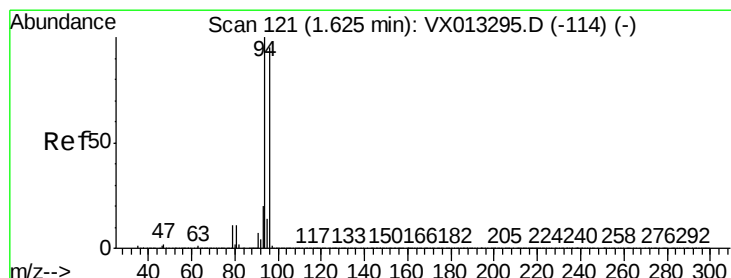
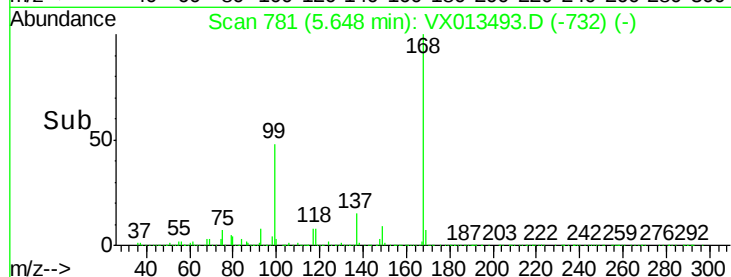
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.302 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX013493.D

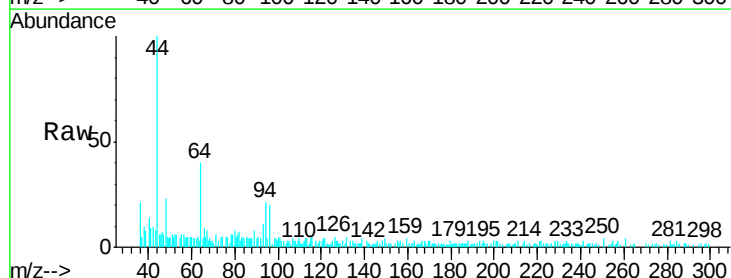
Acq: 21 Nov 2019 11:07

Tgt Ion: 94 Resp: 2109

Ion Ratio Lower Upper

94 100

96 93.7 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

1500

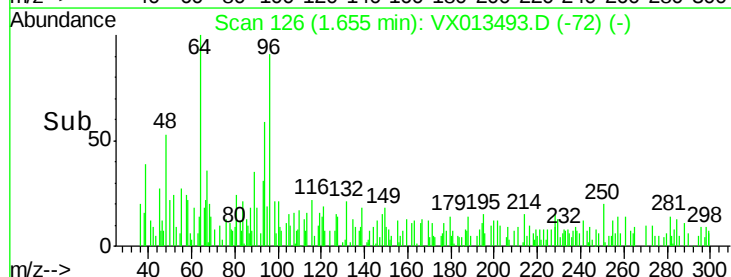
1000

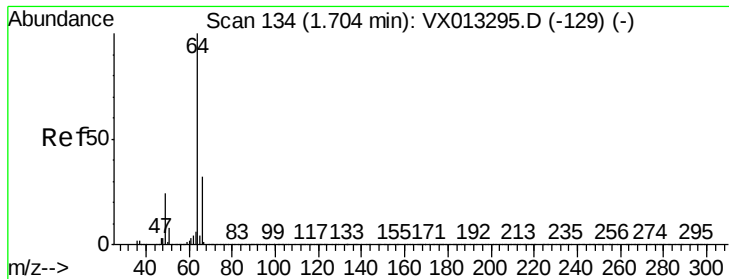
500

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 146

Delta R.T. 0.07 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

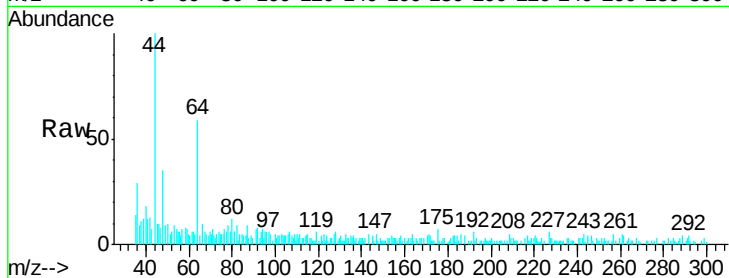
VX1121WBL01

Tgt Ion: 64 Resp: 458

Ion Ratio Lower Upper

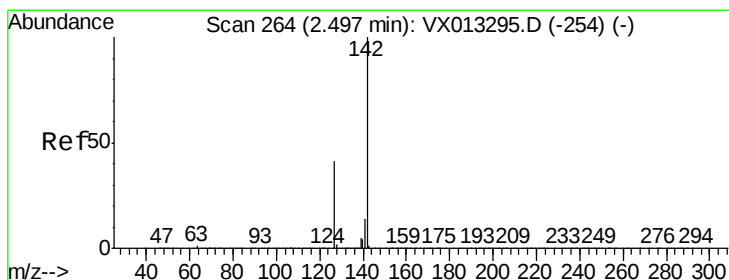
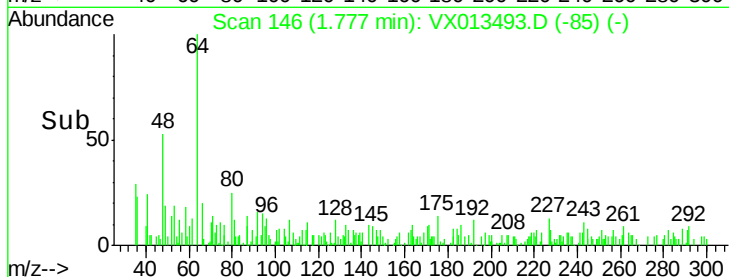
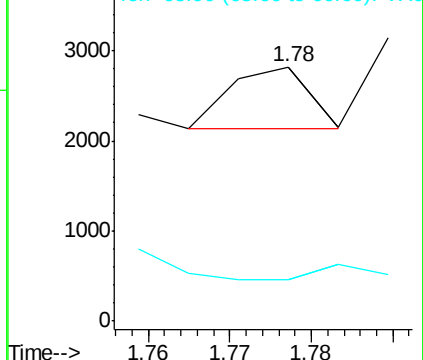
64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.272 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

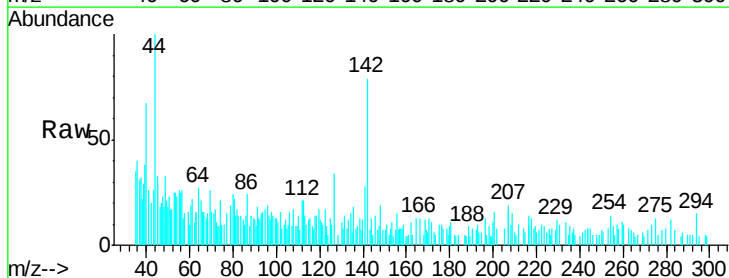
Tgt Ion: 142 Resp: 2225

Ion Ratio Lower Upper

142 100

127 53.4 32.6 49.0#

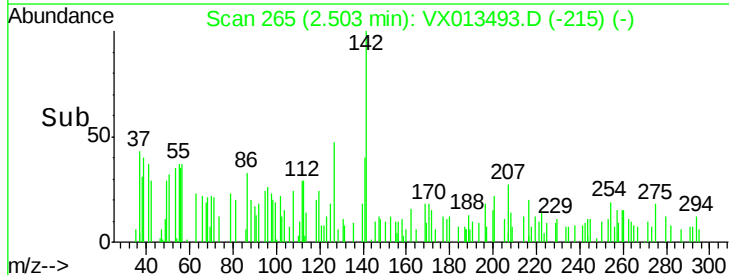
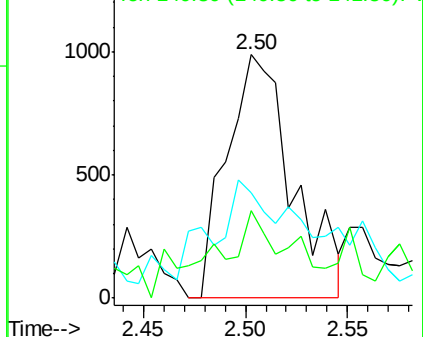
141 43.5 11.6 17.4#

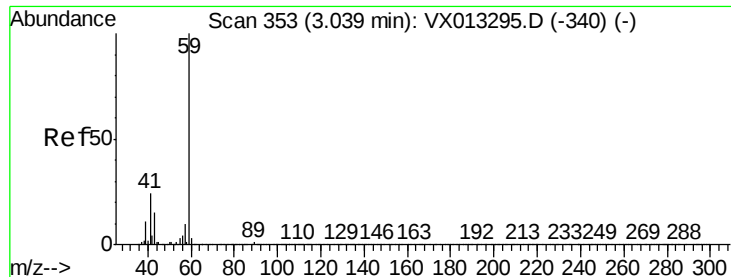


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

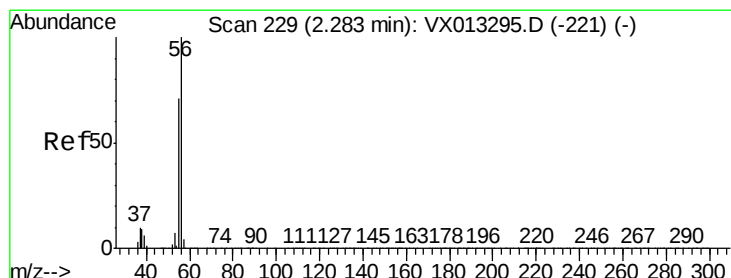
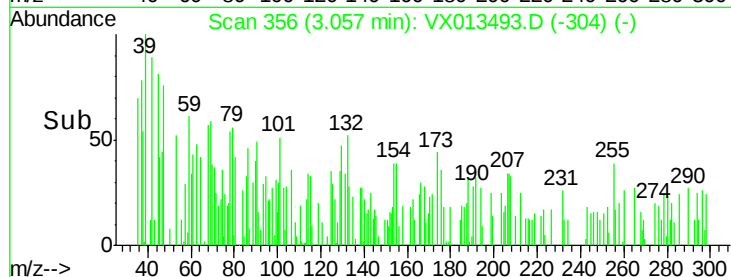
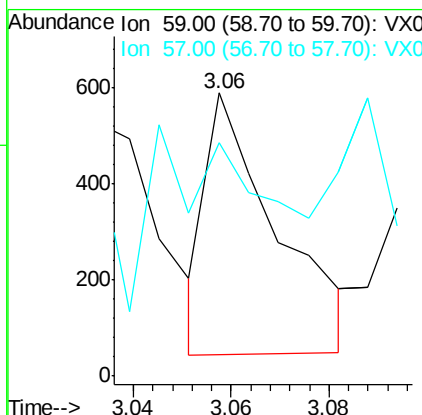
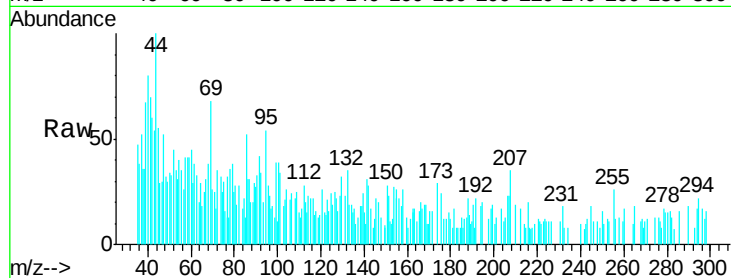




#11
Tert butyl alcohol
Concen: 0.248 ug/l
RT: 3.06 min Scan# 356
Delta R.T. 0.02 min
Lab File: VX013493.D
Acq: 21 Nov 2019 11:07

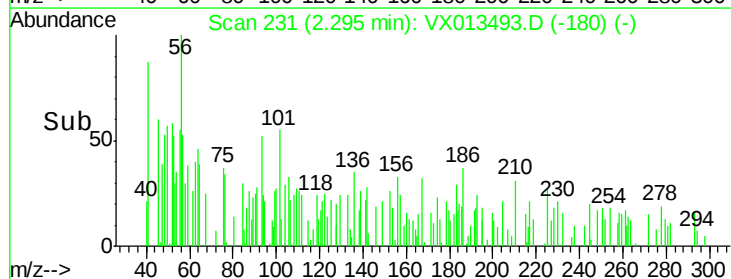
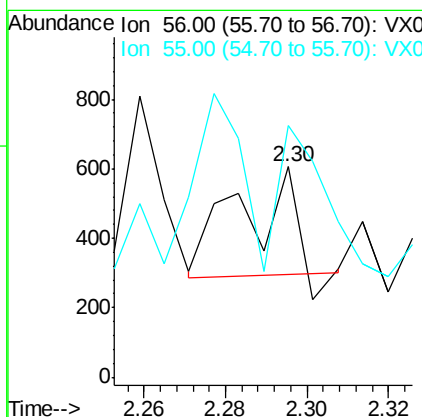
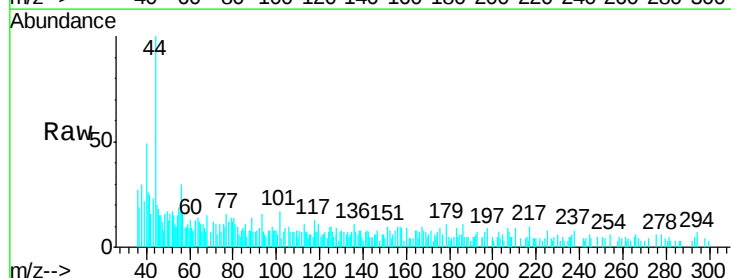
Instrument :
MSVOA_X
ClientSampleId :
VX1121WBL01

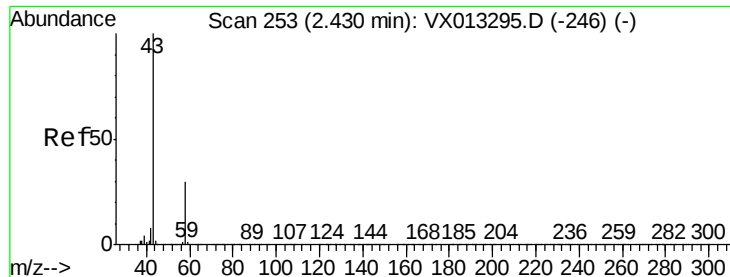
Tgt Ion: 59 Resp: 546
Ion Ratio Lower Upper
59 100
57 108.6 8.0 12.0#



#13
Acrolein
Concen: 0.239 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX013493.D
Acq: 21 Nov 2019 11:07

Tgt Ion: 56 Resp: 285
Ion Ratio Lower Upper
56 100
55 133.3 57.4 86.0#





#16

Acetone

Concen: 0.675 ug/l

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

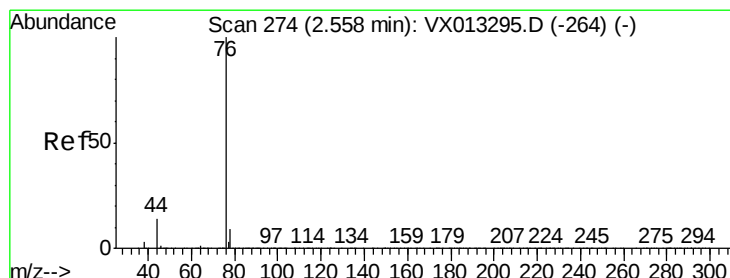
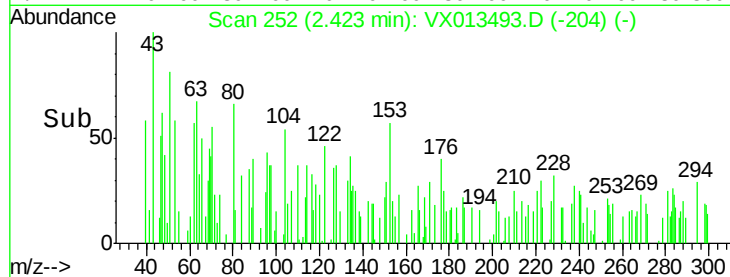
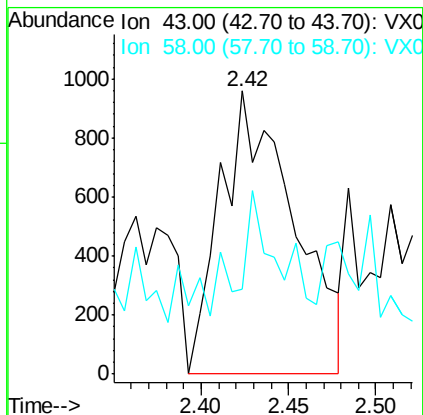
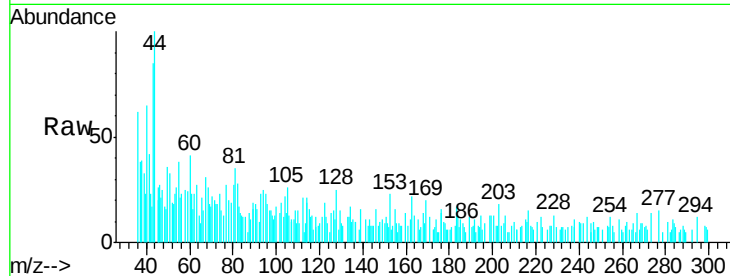
VX1121WBL01

Tgt Ion: 43 Resp: 2808

Ion Ratio Lower Upper

43 100

58 5.7 24.3 36.5#



#17

Carbon Disulfide

Concen: 0.235 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013493.D

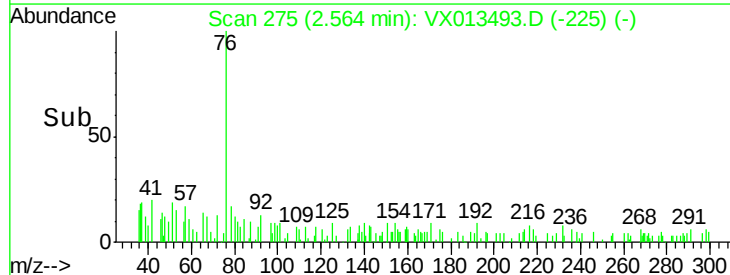
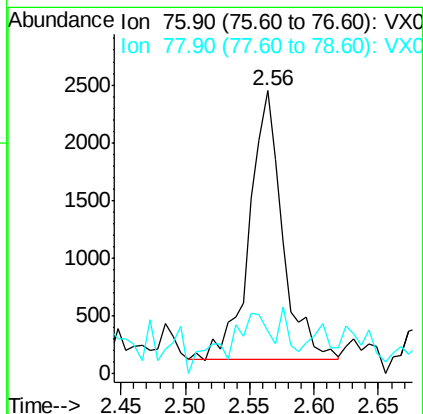
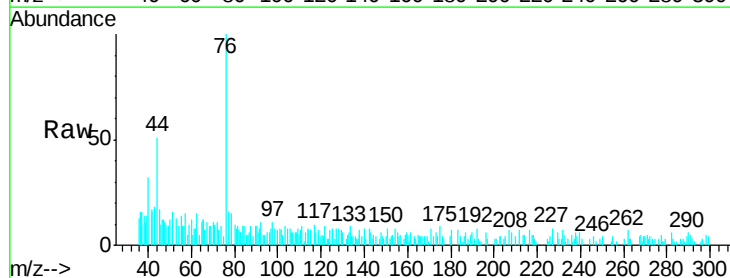
Acq: 21 Nov 2019 11:07

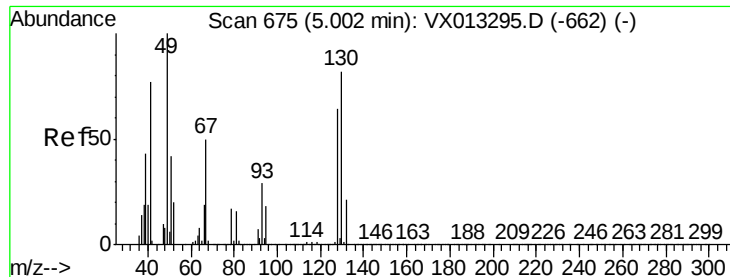
Tgt Ion: 76 Resp: 4061

Ion Ratio Lower Upper

76 100

78 16.0 7.0 10.6#





#28

Bromochloromethane

Concen: 0.269 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX1121WBL01

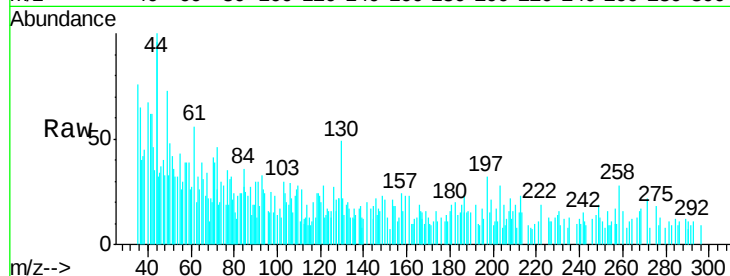
Tgt Ion: 49 Resp: 968

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.2

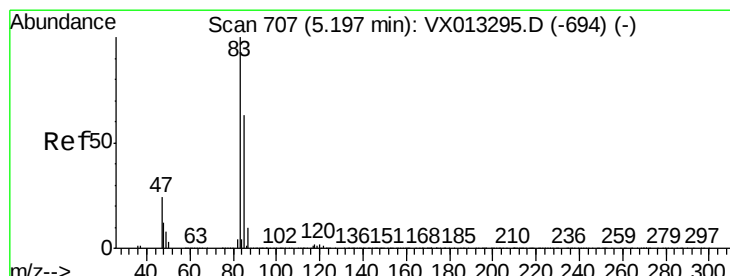
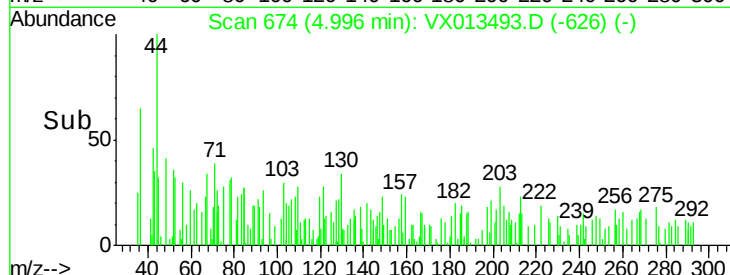
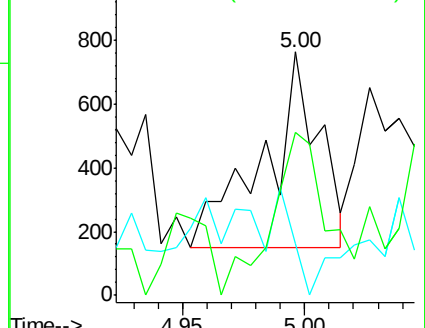
130 83.1 63.8 95.6



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 0.530 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.00 min

Lab File: VX013493.D

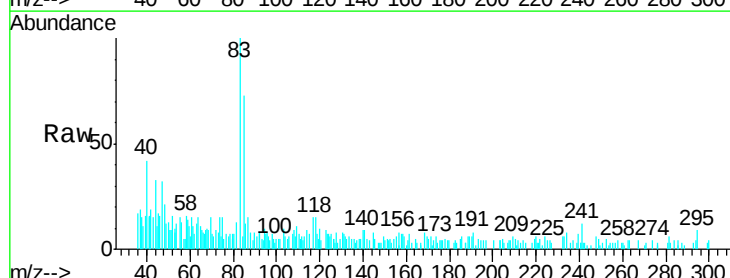
Acq: 21 Nov 2019 11:07

Tgt Ion: 83 Resp: 6631

Ion Ratio Lower Upper

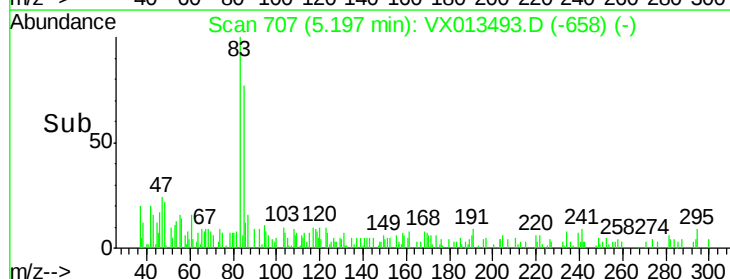
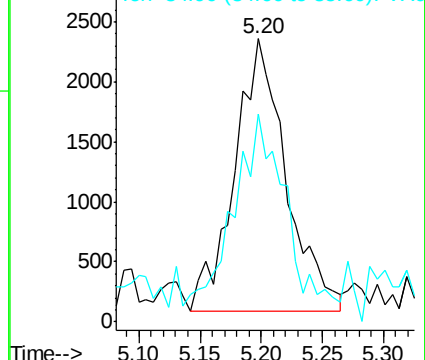
83 100

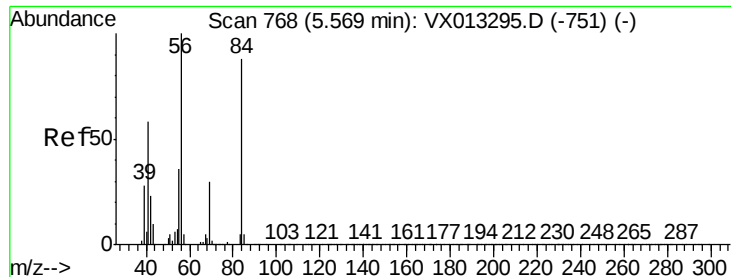
85 69.2 50.2 75.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.118 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

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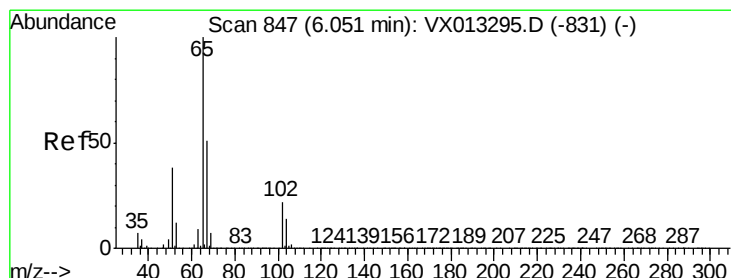
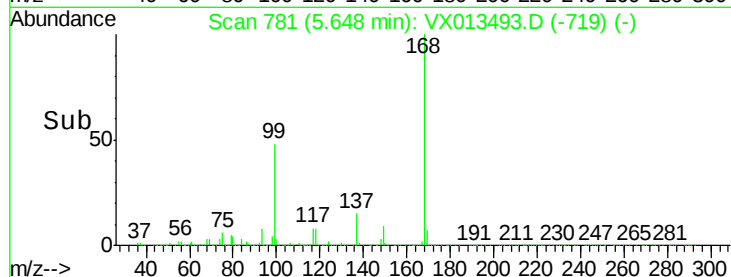
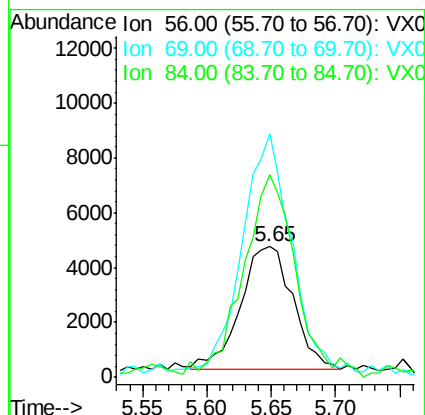
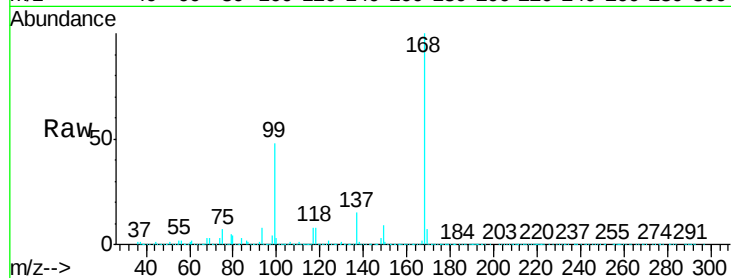
Tgt Ion: 56 Resp: 12749

Ion Ratio Lower Upper

56 100

69 195.0 23.7 35.5#

84 155.6 70.6 105.8#



#33

1,2-Dichloroethane-d4

Concen: 48.847 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013493.D

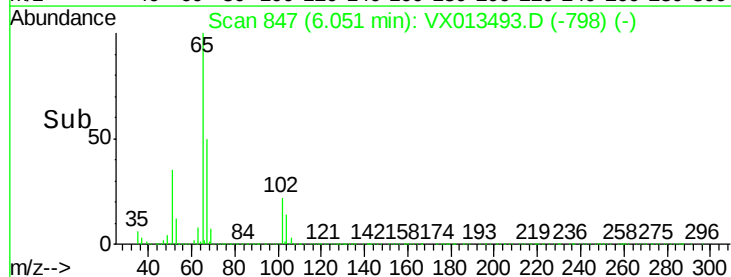
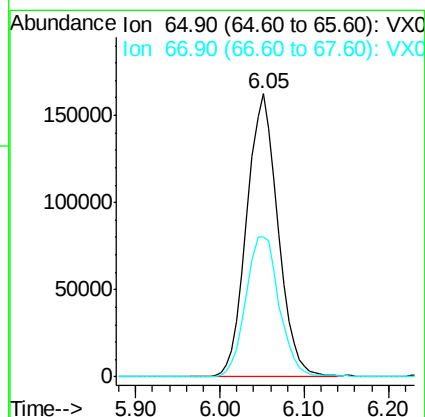
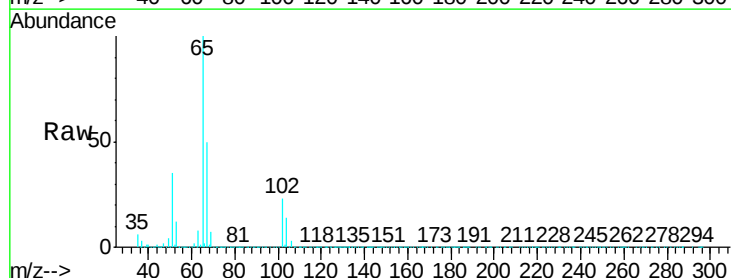
Acq: 21 Nov 2019 11:07

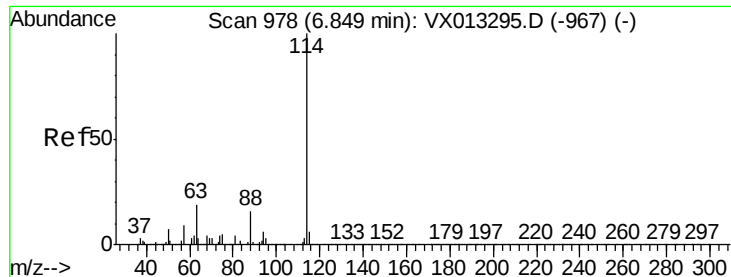
Tgt Ion: 65 Resp: 407527

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX1121WBL01

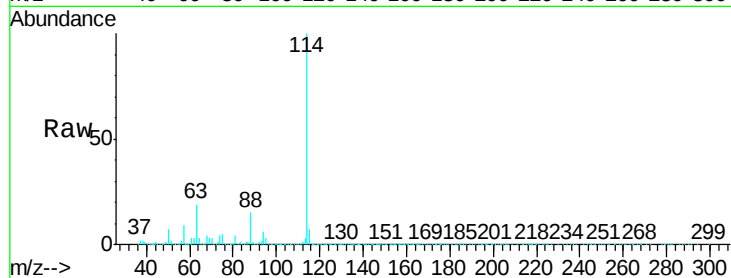
Tgt Ion:114 Resp: 1116582

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

88 15.3 0.0 32.2



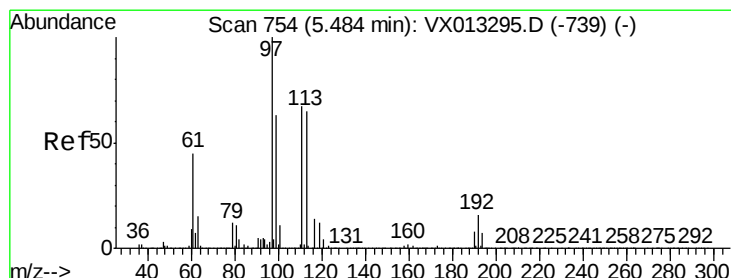
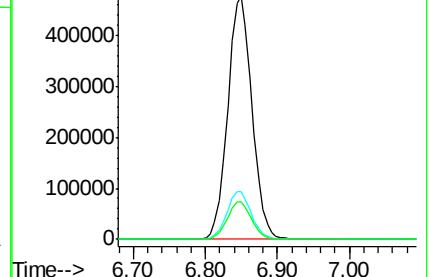
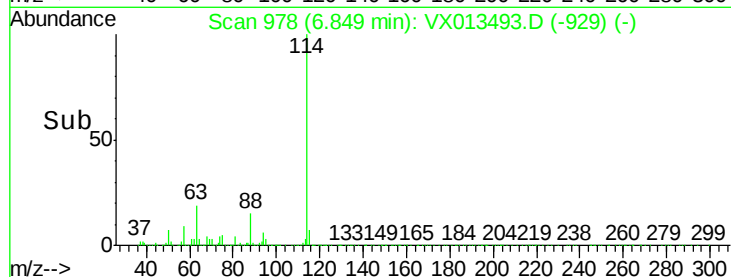
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

Time-->



#35

Dibromofluoromethane

Concen: 48.628 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

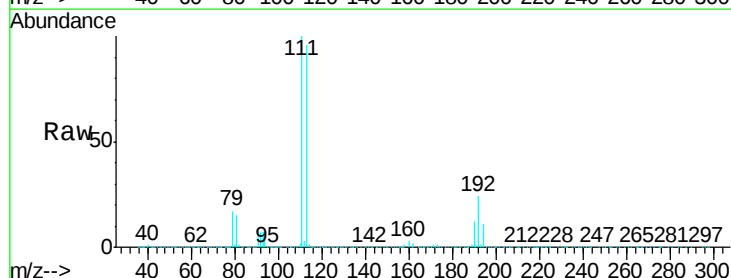
Tgt Ion:113 Resp: 340556

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

192 23.8 19.1 28.7



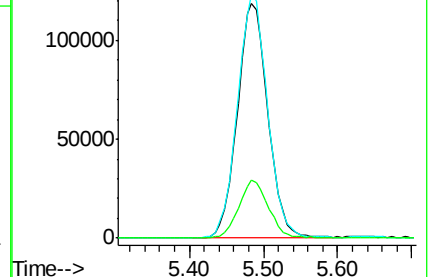
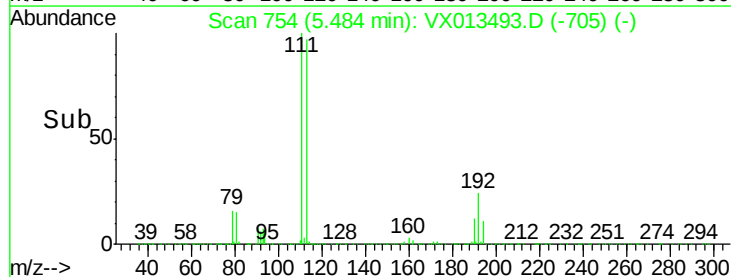
Abundance Ion 112.80 (112.50 to 113.50): V

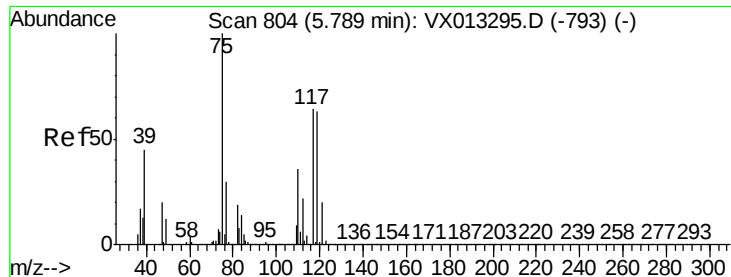
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

5.48

Time-->

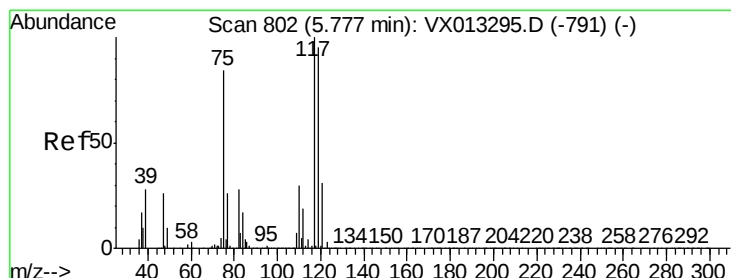
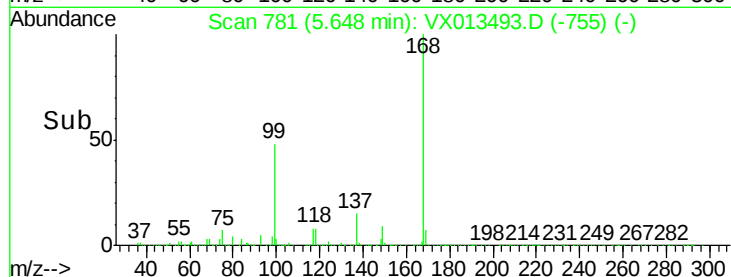
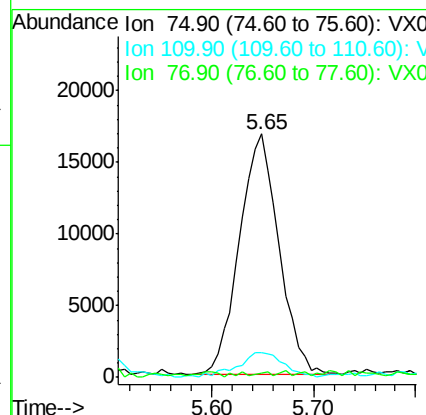
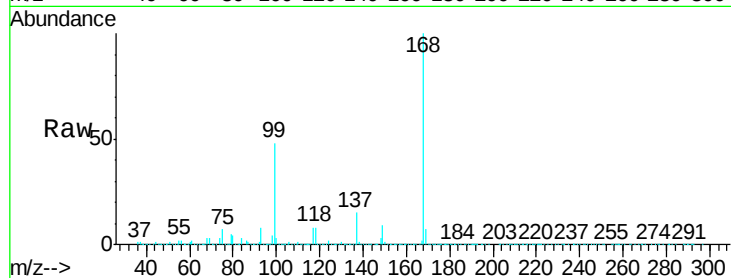




#36
 1,1-Dichloropropene
 Concen: 4.695 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013493.D
 Acq: 21 Nov 2019 11:07

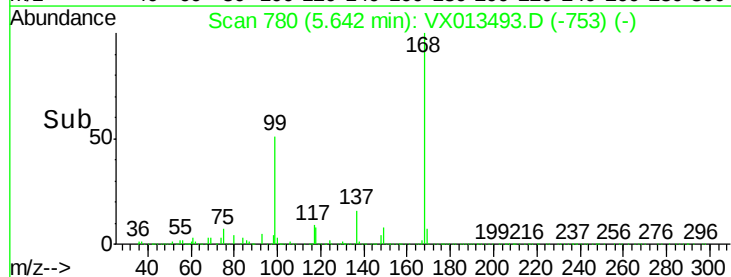
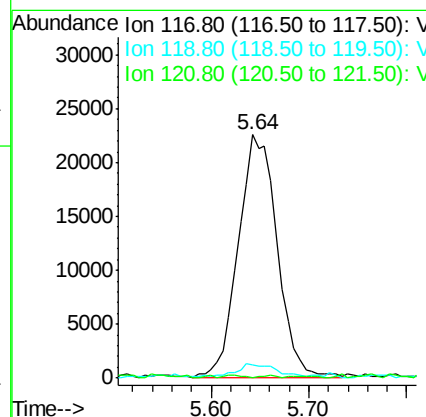
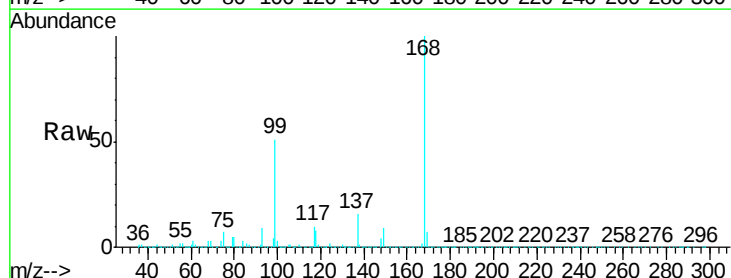
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1121WBL01

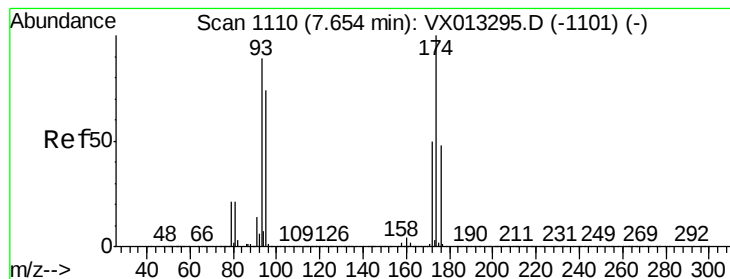
Tgt Ion: 75 Resp: 44971
 Ion Ratio Lower Upper
 75 100
 110 12.4 18.1 54.1#
 77 0.5 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.625 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX013493.D
 Acq: 21 Nov 2019 11:07

Tgt Ion: 117 Resp: 62060
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.1 114.1#
 121 0.4 24.6 37.0#





#46

Dibromomethane

Concen: 0.260 ug/l

RT: 7.65 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampled :

VX1121WBL01

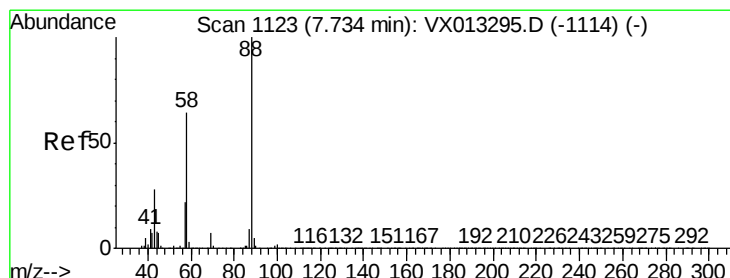
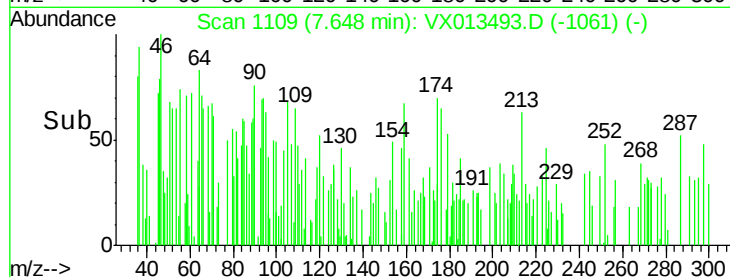
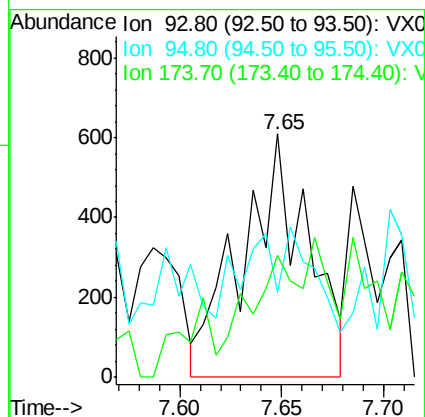
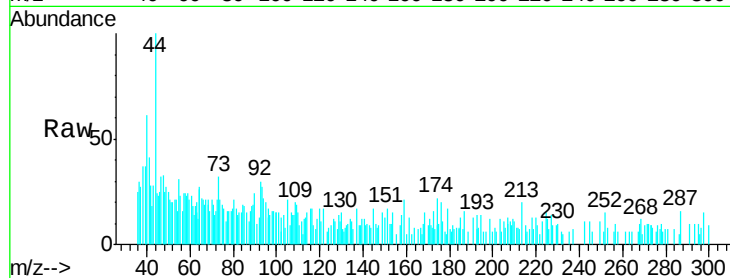
Tgt Ion: 93 Resp: 1351

Ion Ratio Lower Upper

93 100

95 18.1 65.8 98.6#

174 35.2 90.4 135.6#



#49

1,4-Dioxane

Concen: 1.889 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

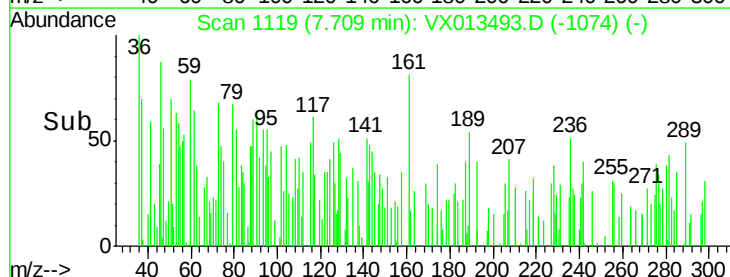
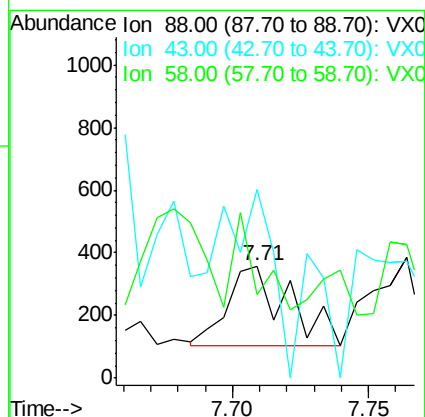
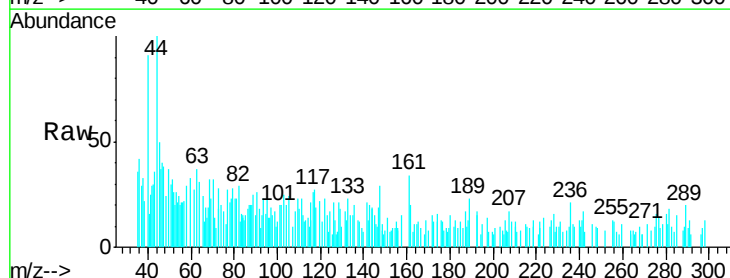
Tgt Ion: 88 Resp: 398

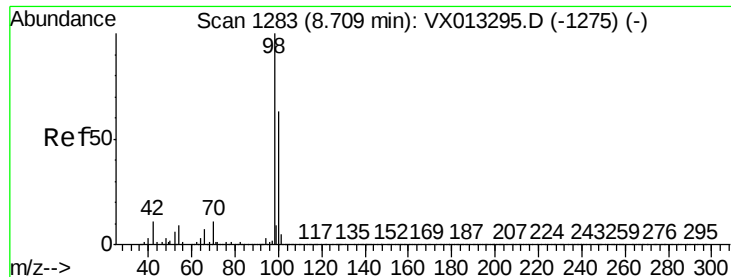
Ion Ratio Lower Upper

88 100

43 180.2 26.6 39.8#

58 89.7 55.0 82.6#





#50

Toluene-d8

Concen: 50.417 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

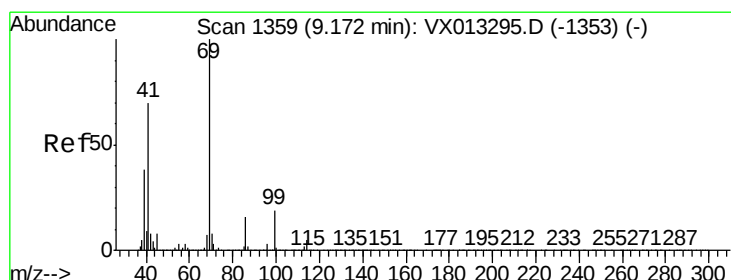
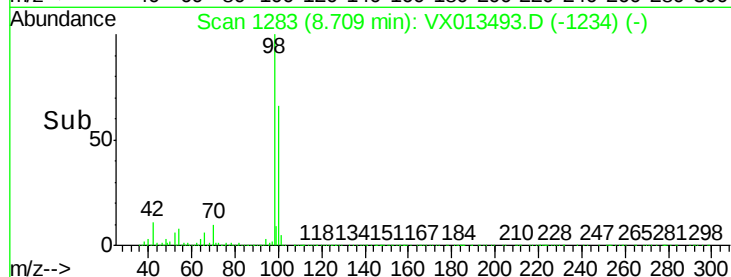
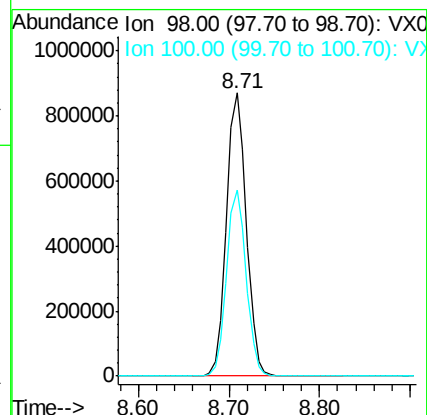
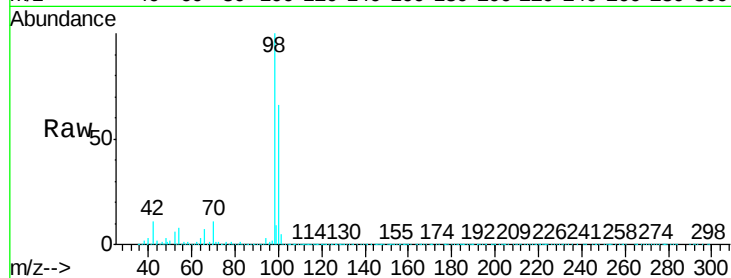
VX1121WBL01

Tgt Ion: 98 Resp: 1331113

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.581 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

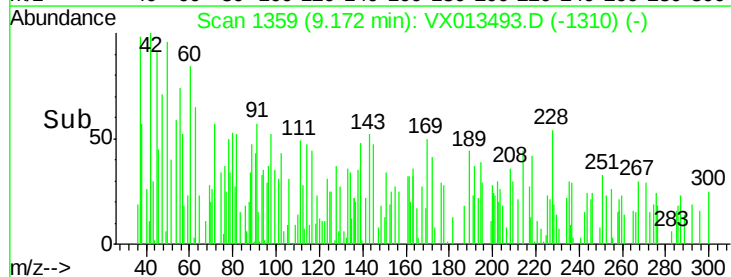
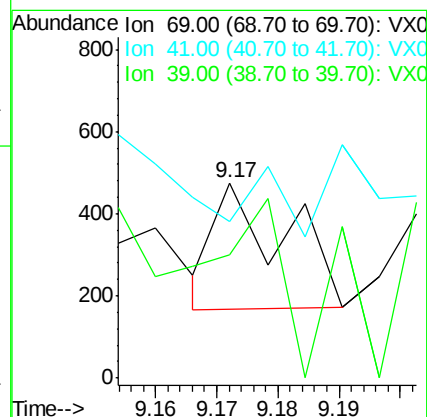
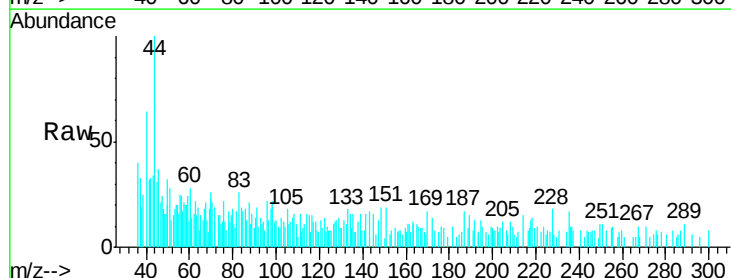
Tgt Ion: 69 Resp: 247

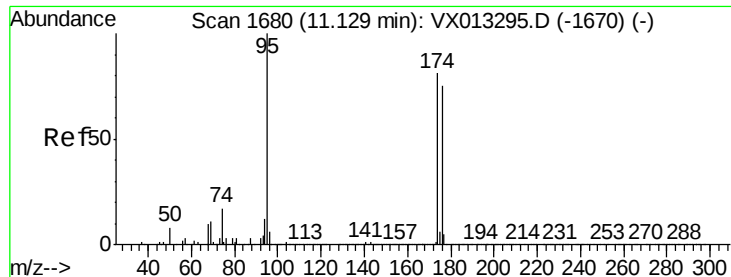
Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.2#

39 0.0 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 45.065 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX1121WBL01

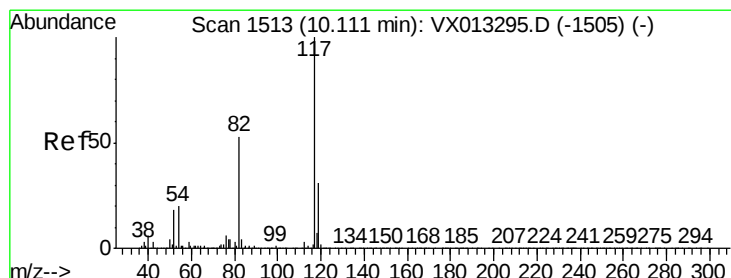
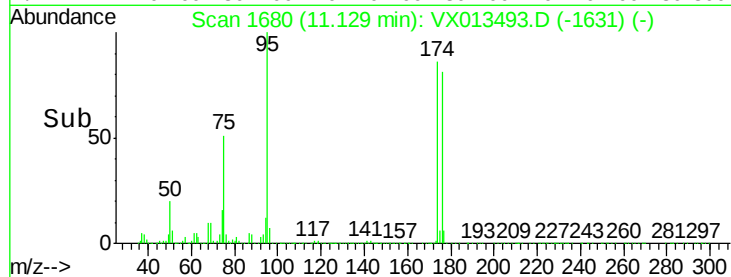
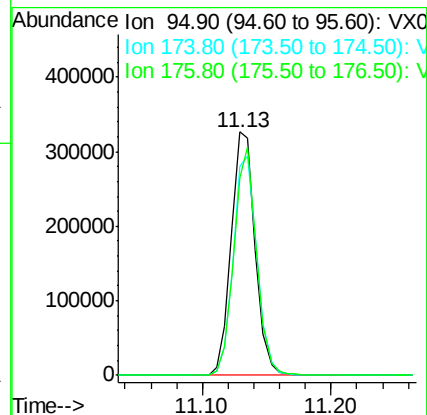
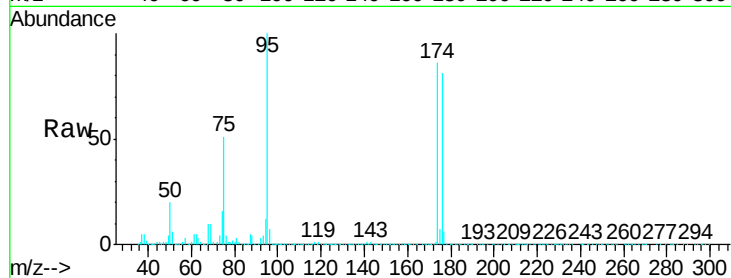
Tgt Ion: 95 Resp: 429406

Ion Ratio Lower Upper

95 100

174 89.1 0.0 179.8

176 88.2 0.0 173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

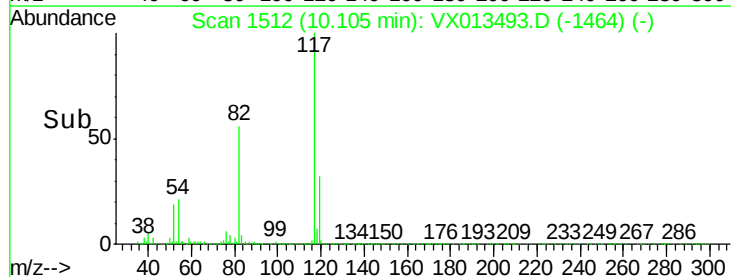
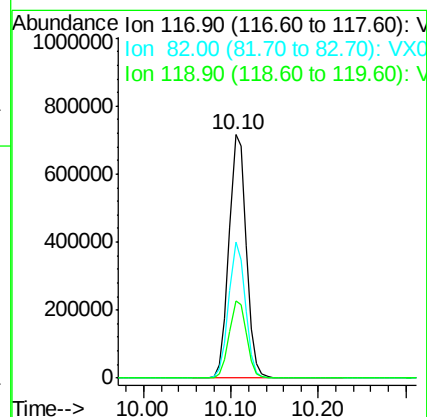
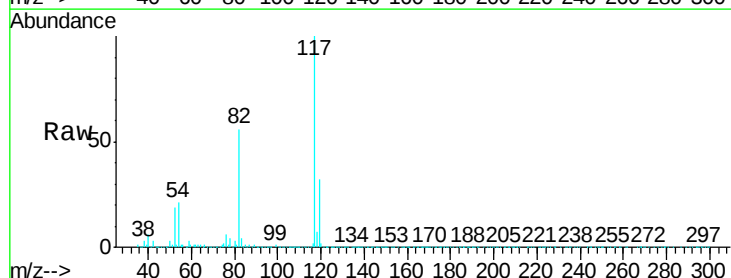
Tgt Ion: 117 Resp: 976102

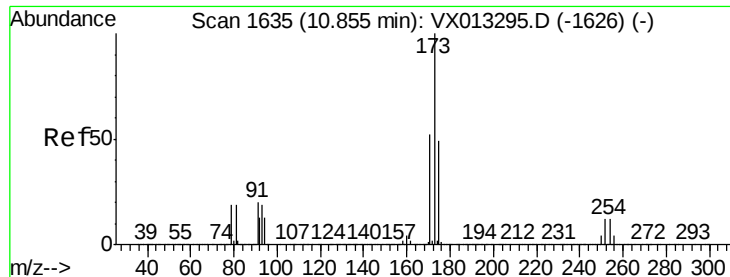
Ion Ratio Lower Upper

117 100

82 56.1 42.6 64.0

119 31.8 24.8 37.2





#71

Bromoform

Concen: 3.282 ug/l

RT: 10.86 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX1121WBL01

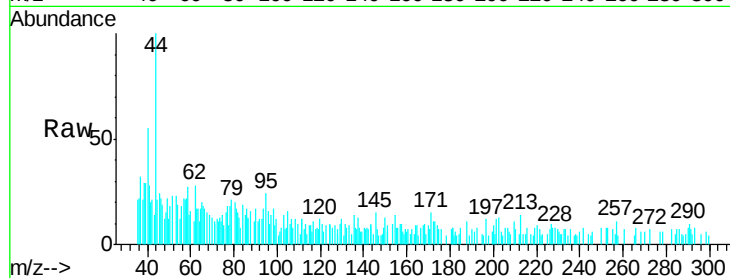
Tgt Ion:173 Resp: 570

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

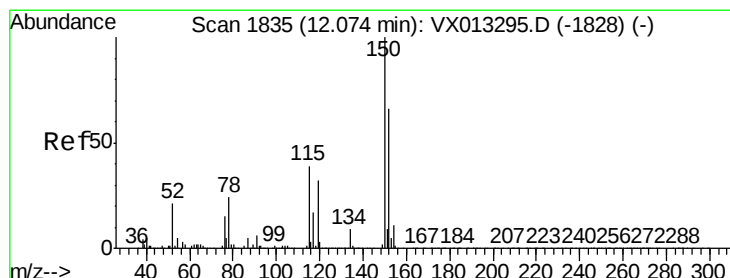
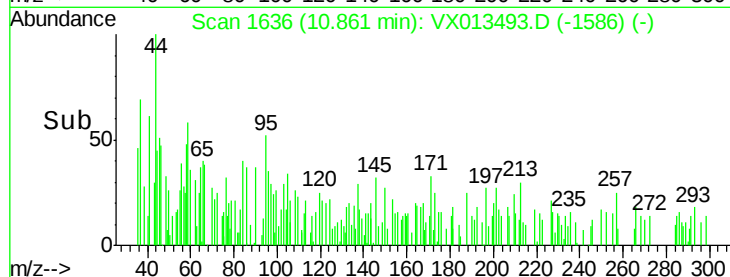
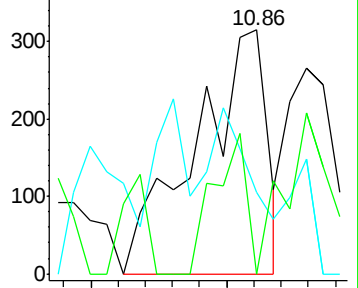
254 26.5 0.2 0.2#



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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

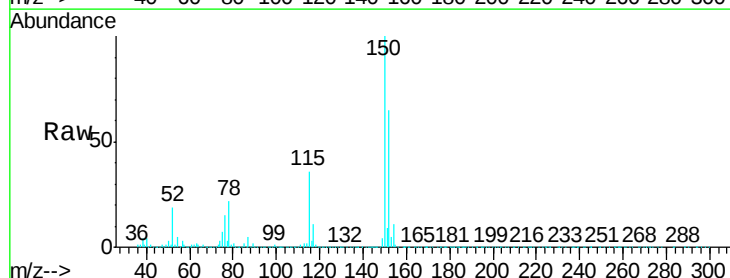
Tgt Ion:152 Resp: 423945

Ion Ratio Lower Upper

152 100

115 55.6 39.5 118.3

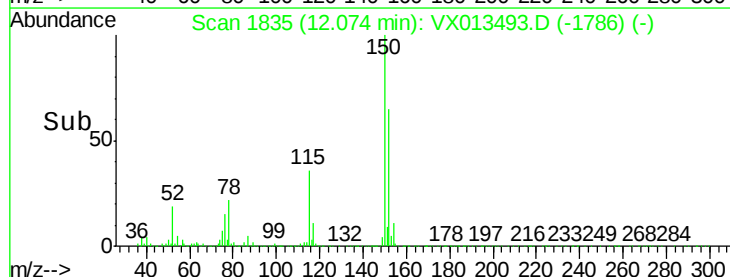
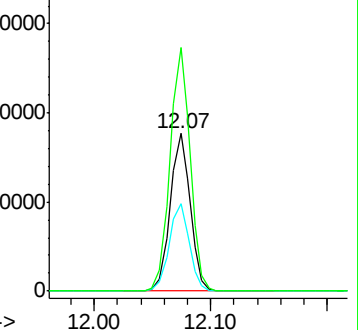
150 155.7 0.0 344.4

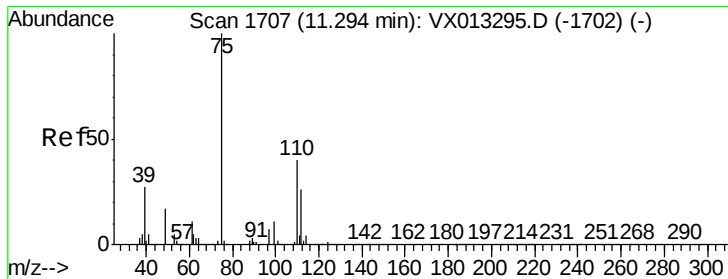


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.690 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

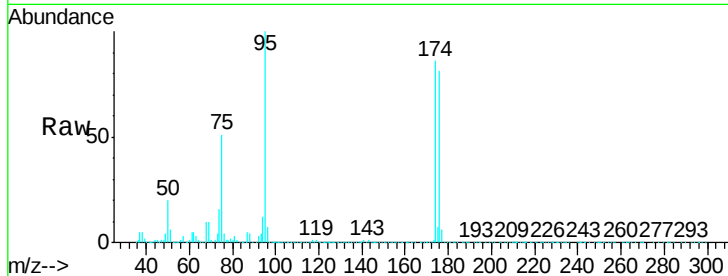
VX1121WBL01

Tgt Ion: 75 Resp: 212606

Ion Ratio Lower Upper

75 100

77 1.0 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

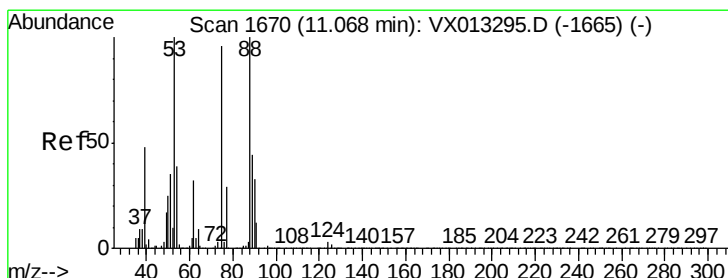
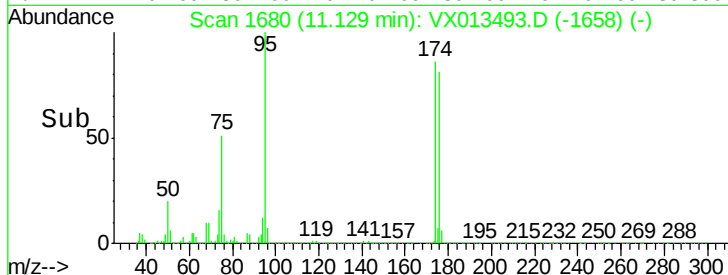
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.552 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013493.D

Acq: 21 Nov 2019 11:07

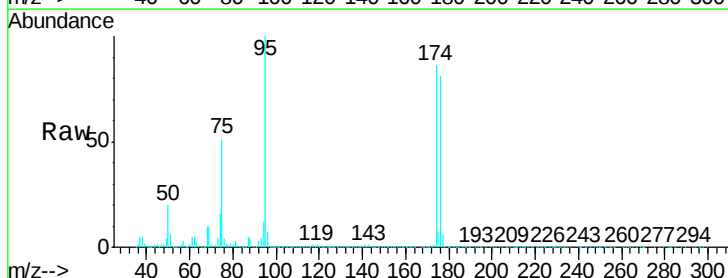
Tgt Ion: 75 Resp: 212606

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 36.0 54.0#



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

11.13

200000

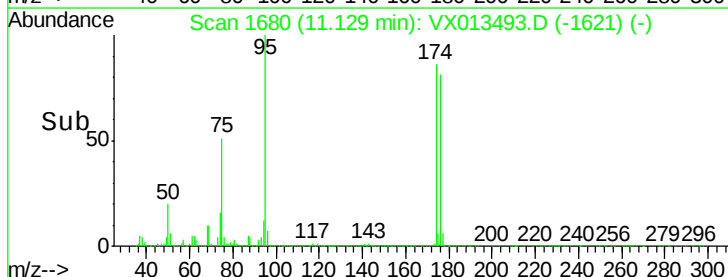
150000

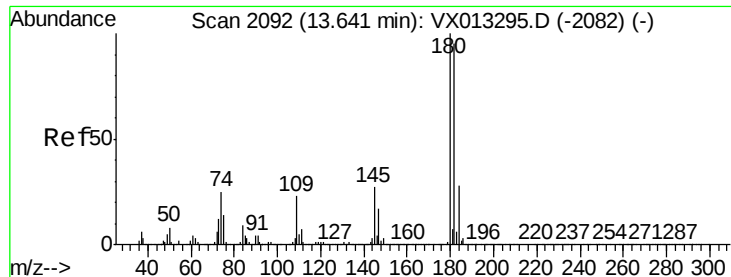
100000

50000

0

Time-->

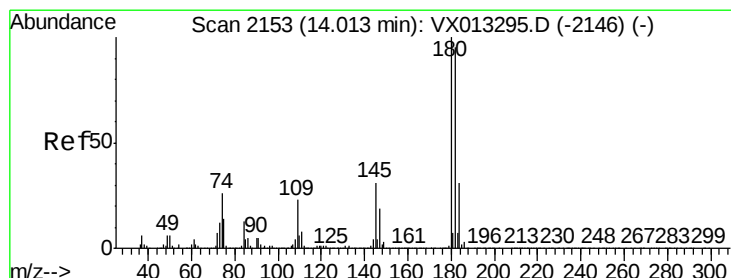
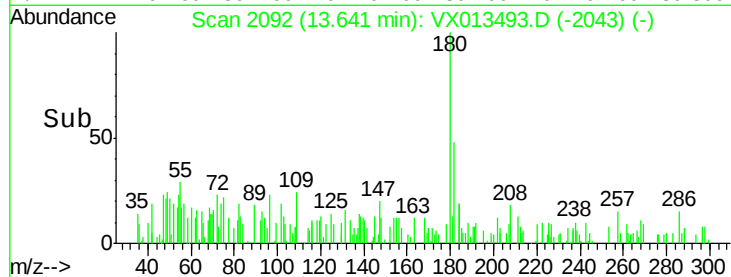
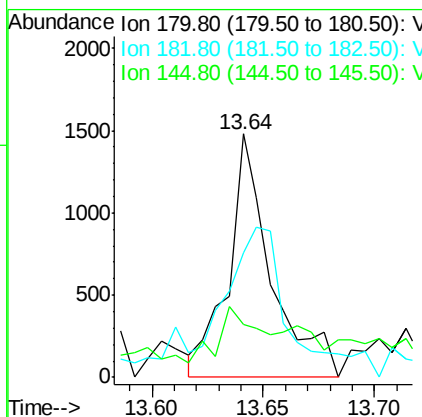
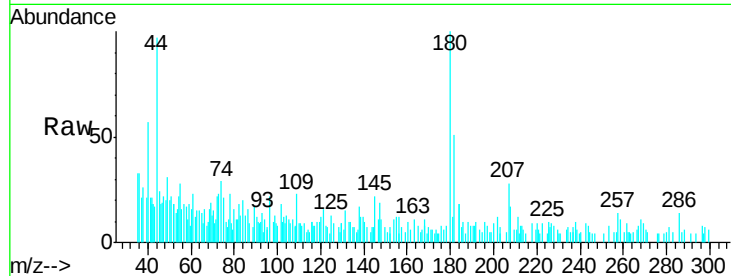




#93
 1,2,4-Trichlorobenzene
 Concen: 0.213 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013493.D
 Acq: 21 Nov 2019 11:07

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1121WBL01

Tgt Ion:180 Resp: 1987
 Ion Ratio Lower Upper
 180 100
 182 104.0 48.4 145.0
 145 20.4 14.1 42.4



#96
 1,2,3-Trichlorobenzene
 Concen: 0.249 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX013493.D
 Acq: 21 Nov 2019 11:07

Tgt Ion:180 Resp: 2322
 Ion Ratio Lower Upper
 180 100
 182 42.5 48.0 144.2#
 145 32.6 15.4 46.4

