

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112519\
 Data File : VX013586.D
 Acq On : 25 Nov 2019 17:10
 Operator : JC/SP
 Sample : K5968-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 26 03:15:48 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	677979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1093029	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	980995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	476148	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	396466	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
35) Dibromofluoromethane	5.49	113	325613	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	8.71	98	1307020	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	11.14	95	452080	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	

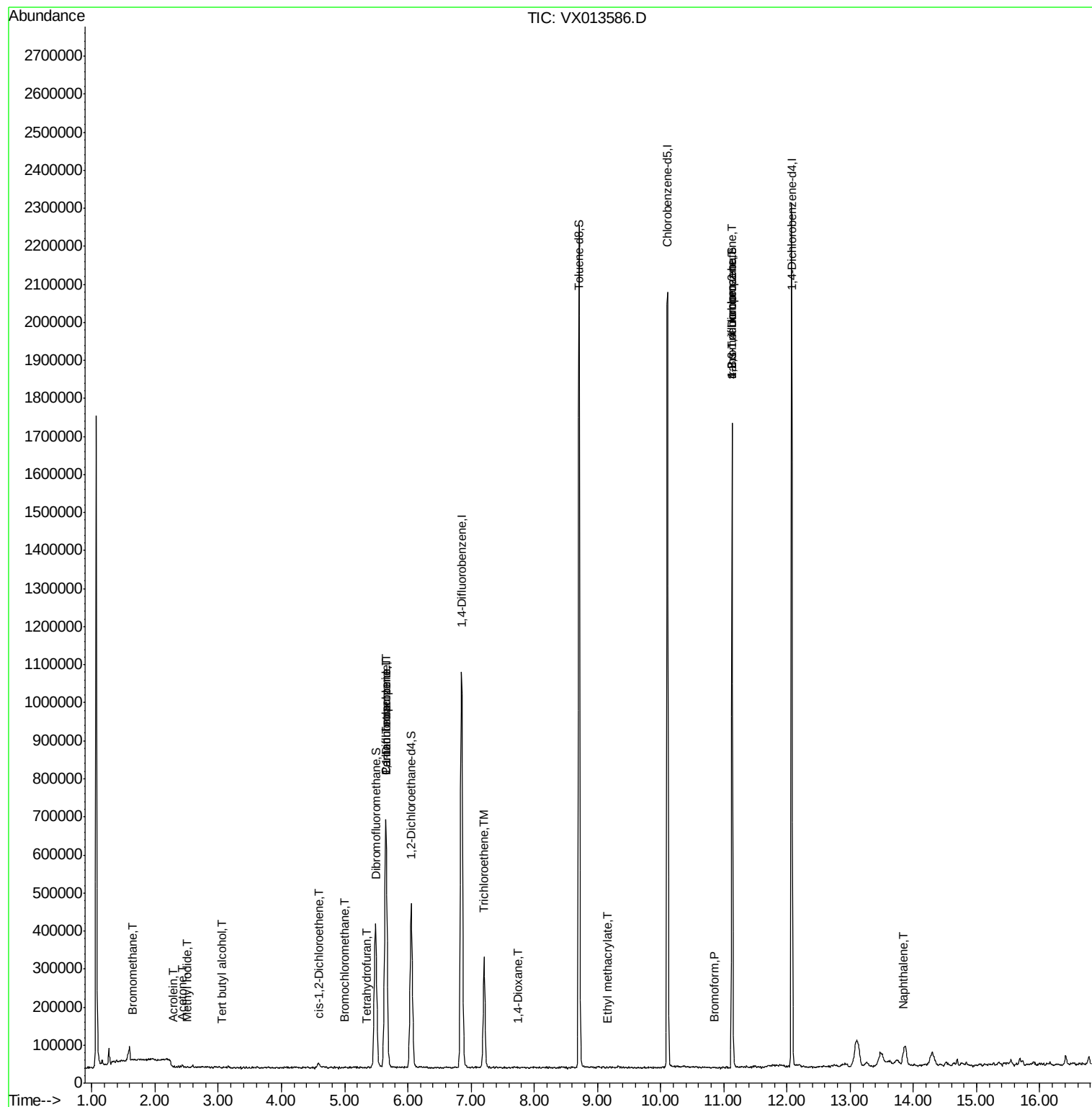
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	2057	0.306	ug/l	93
6) Chloroethane	1.78	64	1507	Below Cal	#	43
10) Methyl Iodide	2.50	142	1981	0.252	ug/l #	58
11) Tert butyl alcohol	3.06	59	512	0.242	ug/l #	1
13) Acrolein	2.28	56	725	0.632	ug/l #	73
16) Acetone	2.43	43	7316	1.826	ug/l #	88
27) cis-1,2-Dichloroethene	4.59	96	9051	1.193	ug/l	72
28) Bromochloromethane	5.00	49	745	0.215	ug/l #	11
29) Tetrahydrofuran	5.34	42	1052	0.290	ug/l	95
36) 1,1-Dichloropropene	5.65	75	44031	4.696	ug/l #	52
38) Carbon Tetrachloride	5.65	117	58936	6.427	ug/l #	17
44) Trichloroethene	7.21	130	119858	14.908	ug/l	96
49) 1,4-Dioxane	7.75	88	635	3.079	ug/l #	56
56) Ethyl methacrylate	9.17	69	424	1.595	ug/l #	65
71) Bromoform	10.85	173	137	3.222	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	222037	22.959	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	222037	59.095	ug/l #	10
95) Naphthalene	13.83	128	16762	0.511	ug/l #	93

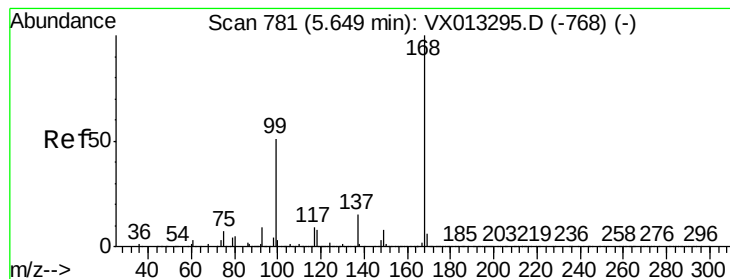
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

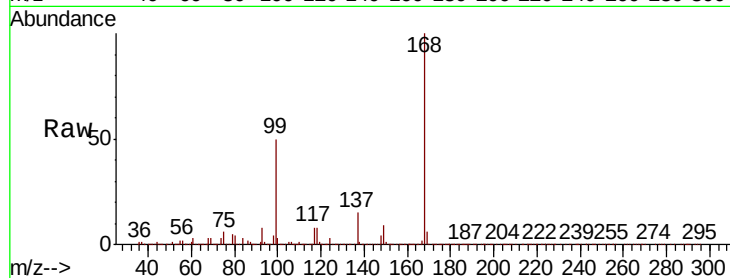
ClientSampleId :

Tot Ion:168 Resp: 677979

Ion Ratio Lower Upper

168 100

99 50.3 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

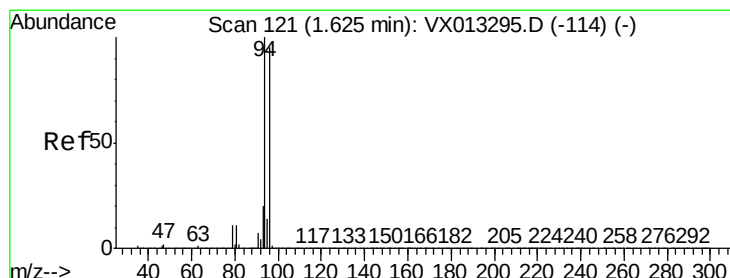
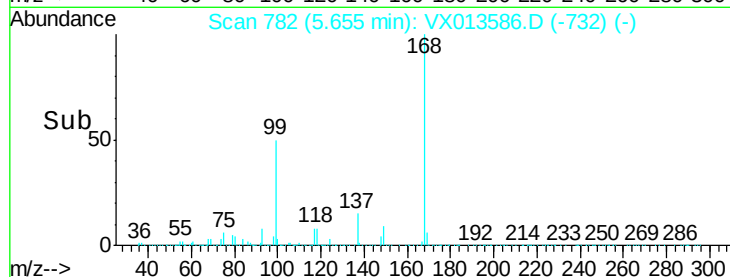
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.306 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013586.D

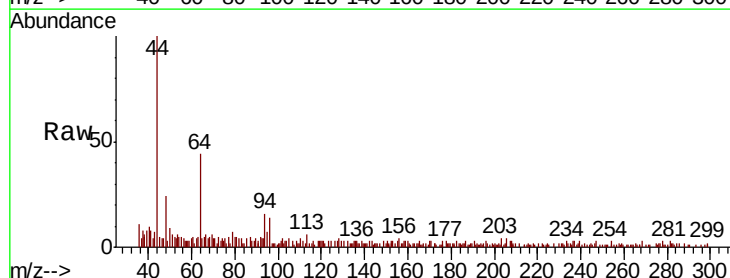
Acq: 25 Nov 2019 17:10

Tgt Ion: 94 Resp: 2057

Ion Ratio Lower Upper

94 100

96 87.5 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

600

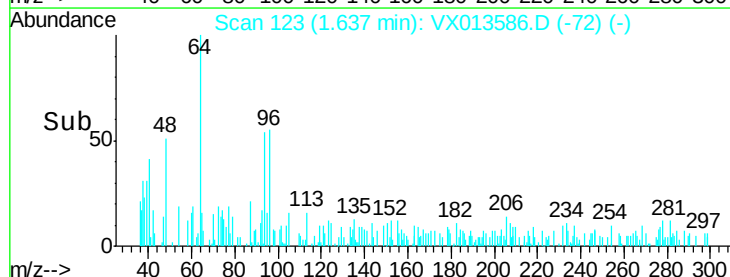
400

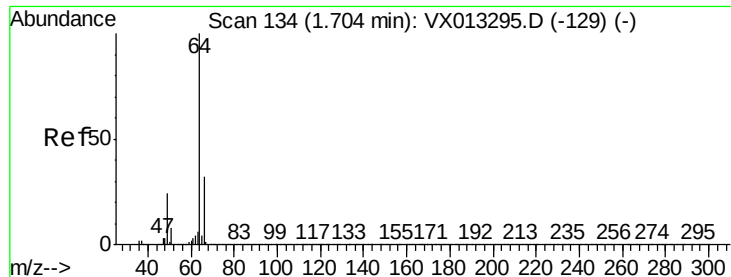
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 147

Delta R.T. 0.08 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

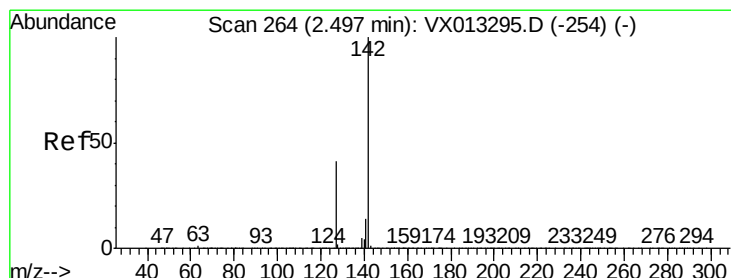
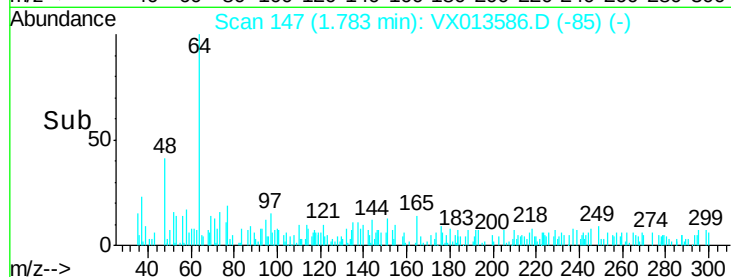
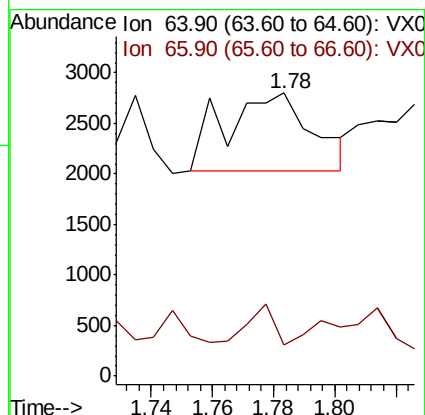
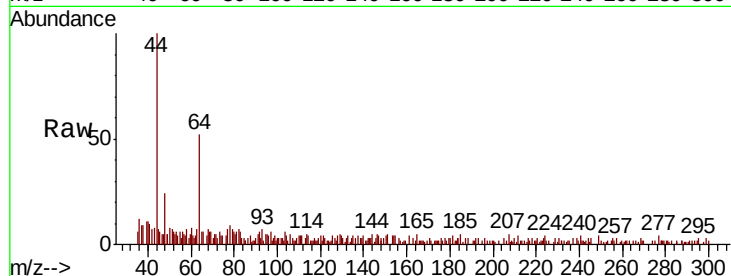
ClientSampled :

Tot Ion: 64 Resp: 1507

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 0.252 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

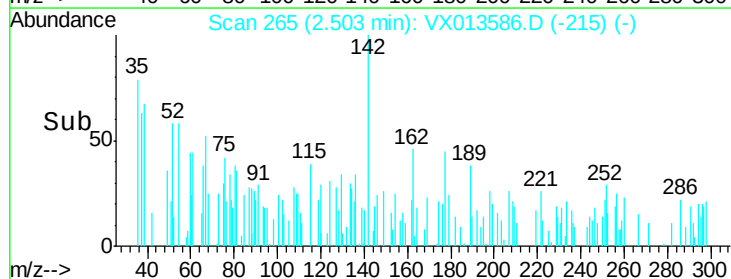
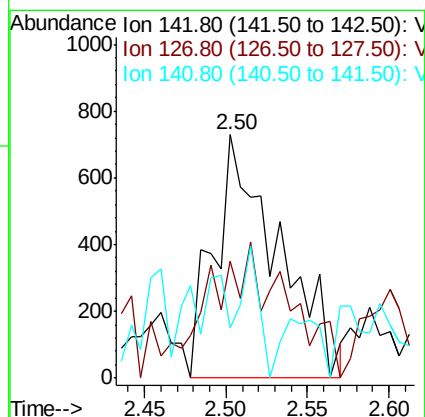
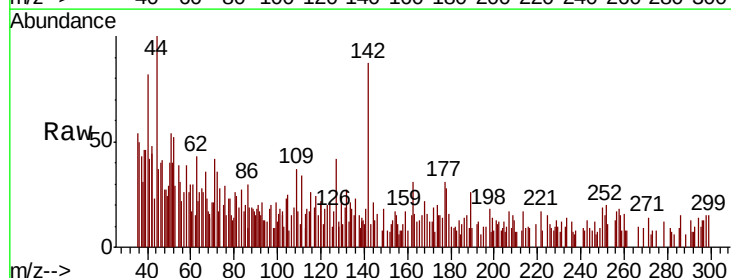
Tgt Ion: 142 Resp: 1981

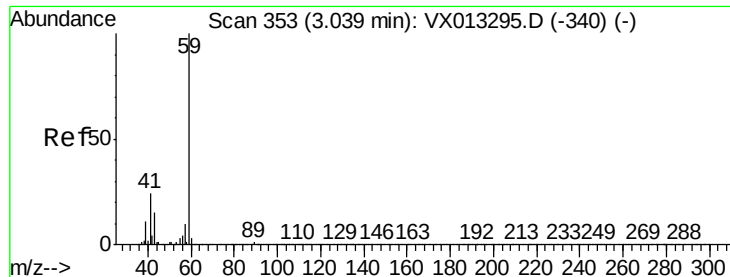
Ion Ratio Lower Upper

142 100

127 9.3 32.6 49.0#

141 7.2 11.6 17.4#



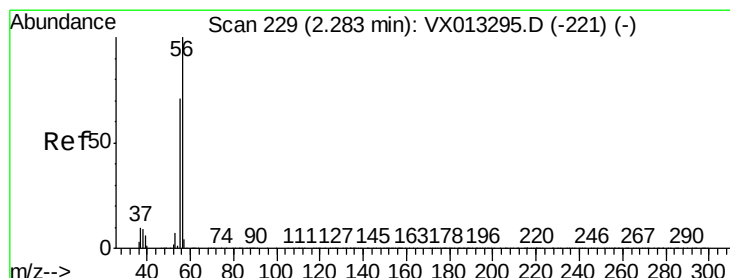
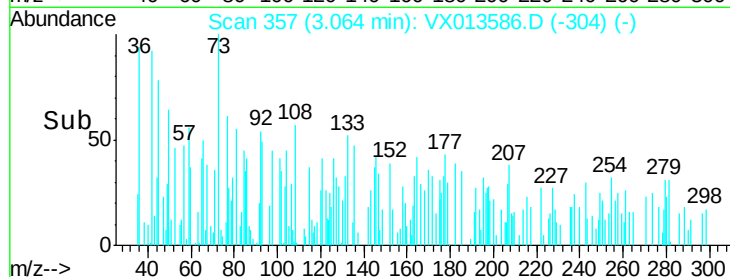
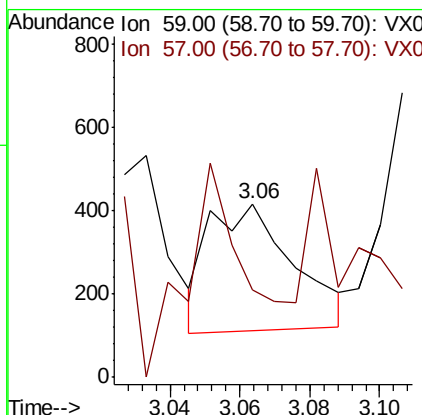
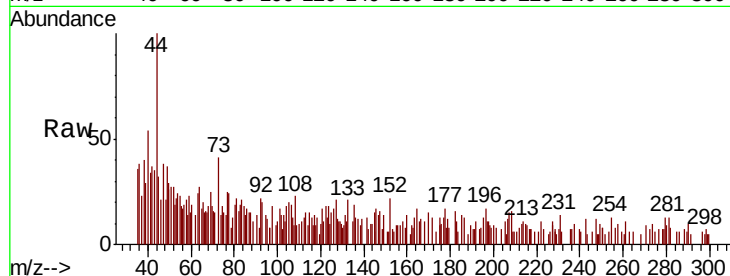


#11

Tert butyl alcohol
Concen: 0.242 ug/l
RT: 3.06 min Scan# 357
Delta R.T. 0.02 min
Lab File: VX013586.D
Acq: 25 Nov 2019 17:10

Instrument :
MSVOA_X
ClientSampled :

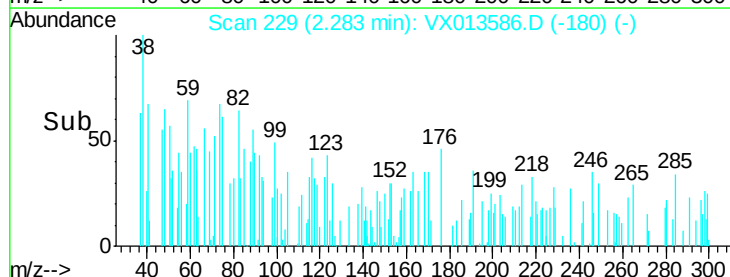
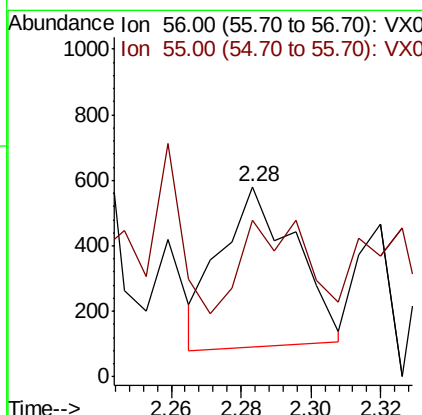
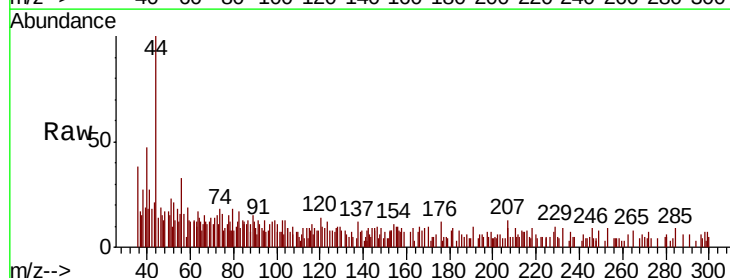
Tot Ion: 59 Resp: 512
Ion Ratio Lower Upper
59 100
57 116.2 8.0 12.0#

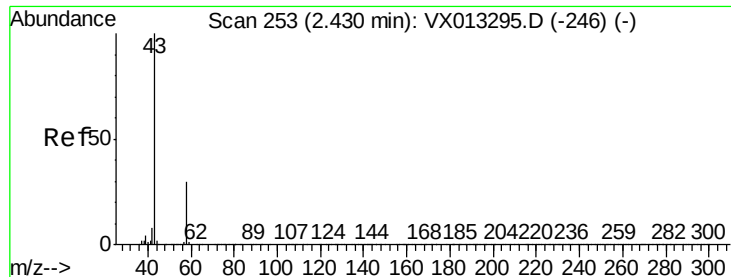


#13

Acrolein
Concen: 0.632 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX013586.D
Acq: 25 Nov 2019 17:10

Tgt Ion: 56 Resp: 725
Ion Ratio Lower Upper
56 100
55 49.1 57.4 86.0#

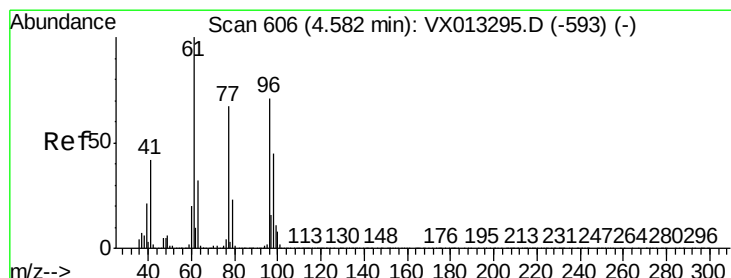
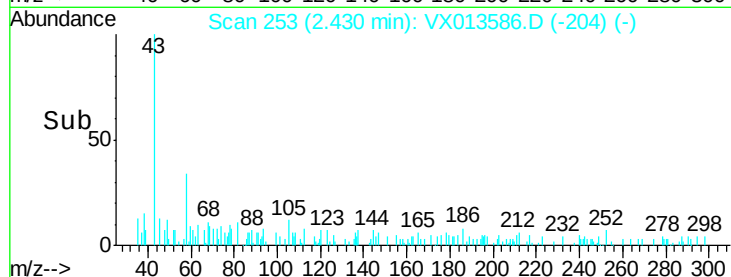
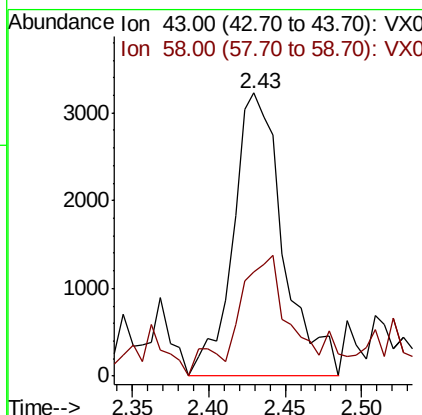
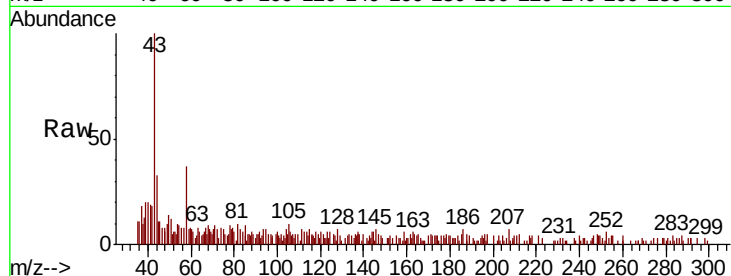




#16
Acetone
Concen: 1.826 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013586.D
Acq: 25 Nov 2019 17:10

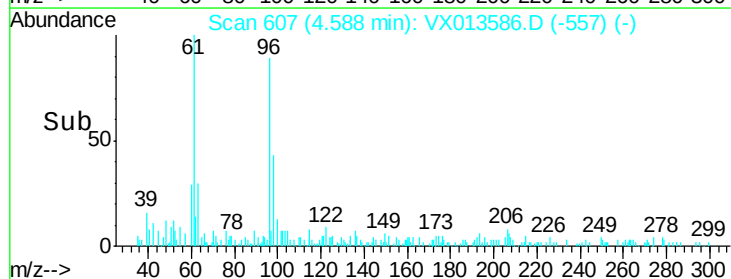
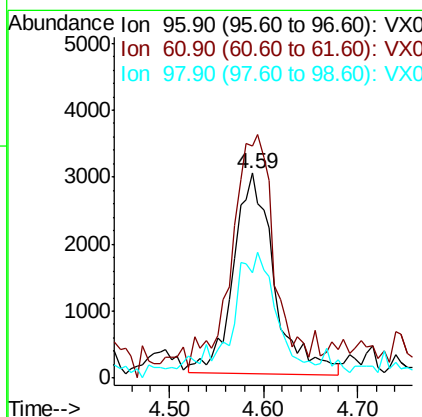
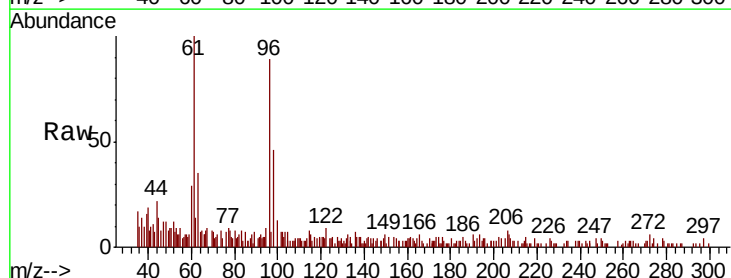
Instrument :
MSVOA_X
ClientSampleId :

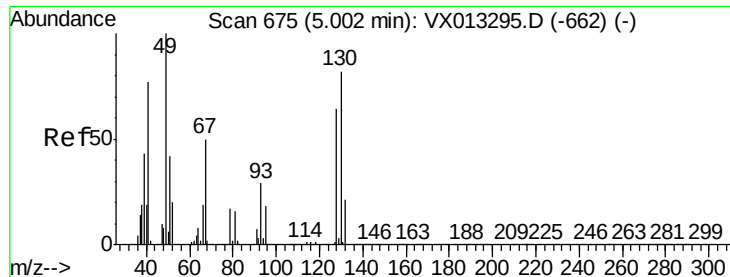
Tot Ion: 43 Resp: 7316
Ion Ratio Lower Upper
43 100
58 36.7 24.3 36.5#



#27
cis-1,2-Dichloroethene
Concen: 1.193 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013586.D
Acq: 25 Nov 2019 17:10

Tgt Ion: 96 Resp: 9051
Ion Ratio Lower Upper
96 100
61 118.4 0.0 288.0
98 29.3 0.0 129.6





#28

Bromochloromethane

Concen: 0.215 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampled :

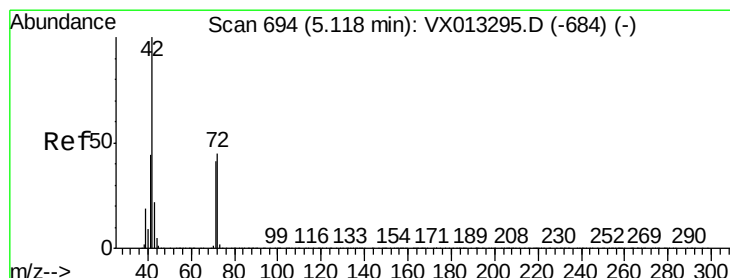
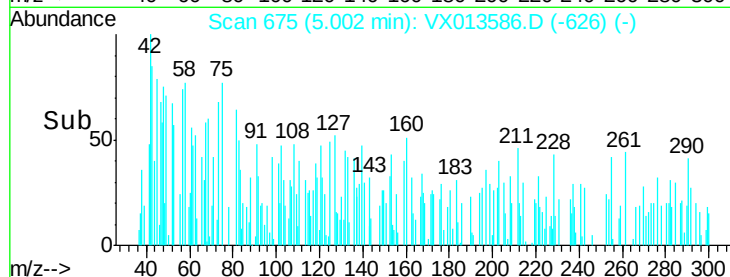
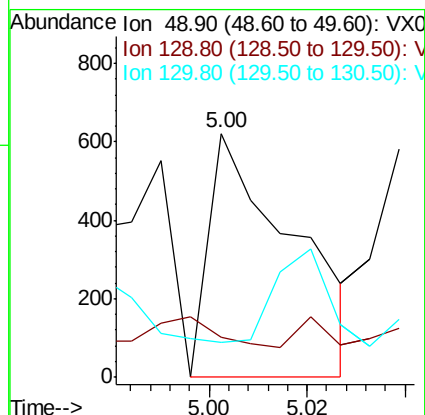
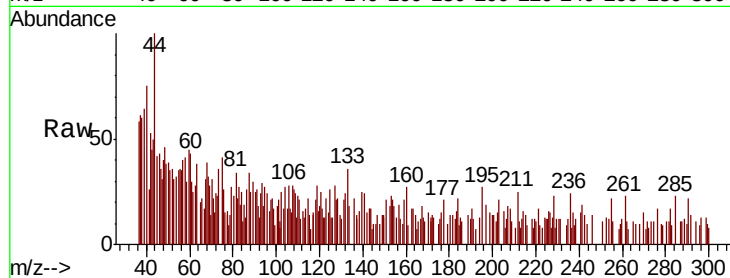
Tot Ion: 49 Resp: 745

Ion Ratio Lower Upper

49 100

129 16.0 0.0 5.2#

130 0.0 63.8 95.6#



#29

Tetrahydrofuran

Concen: 0.290 ug/l

RT: 5.34 min Scan# 731

Delta R.T. 0.23 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

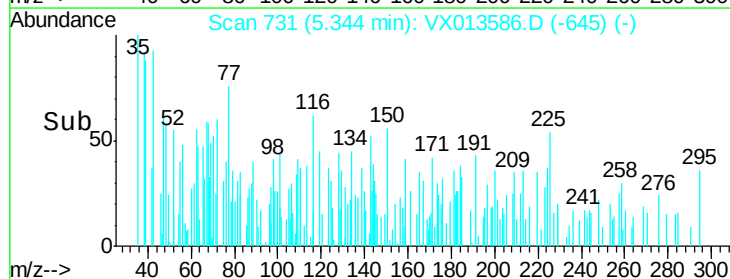
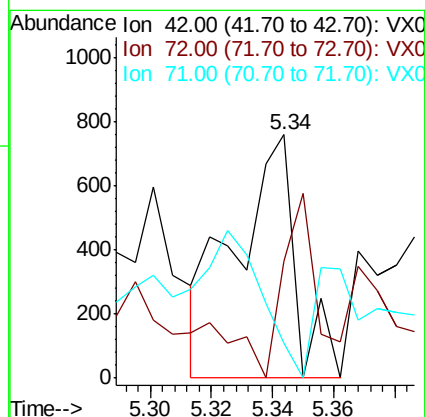
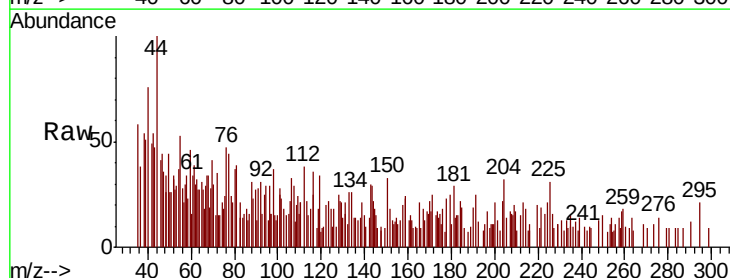
Tgt Ion: 42 Resp: 1052

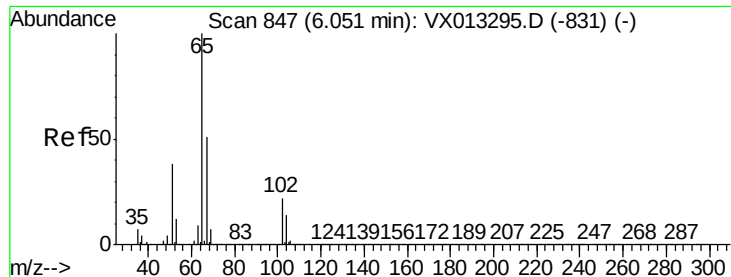
Ion Ratio Lower Upper

42 100

72 41.4 35.8 53.8

71 45.0 33.4 50.0

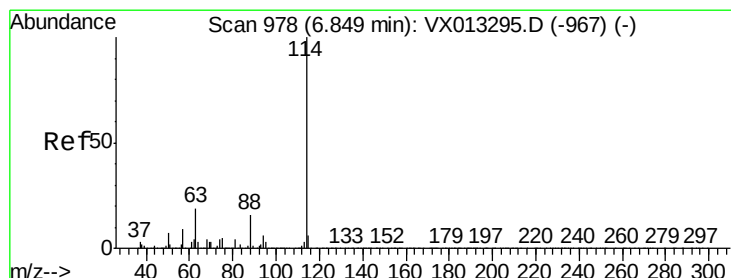
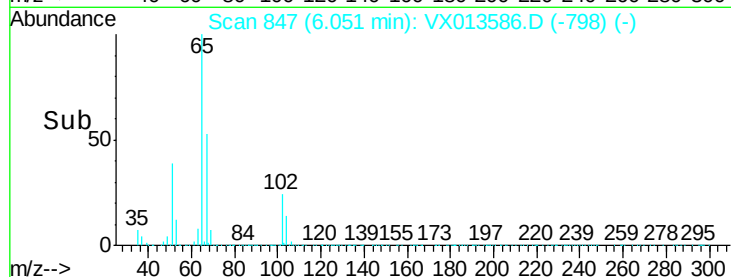
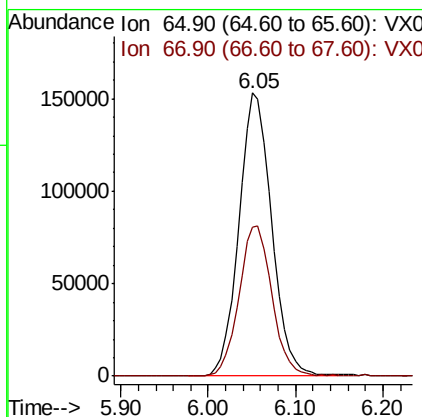
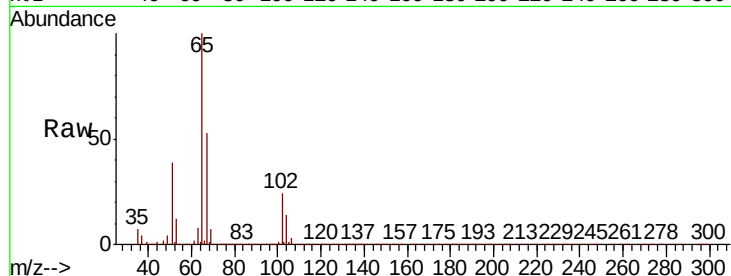




#33
 1,2-Dichloroethane-d4
 Concen: 49.361 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013586.D
 Acq: 25 Nov 2019 17:10

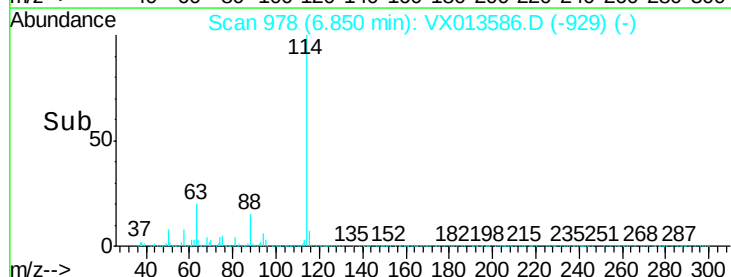
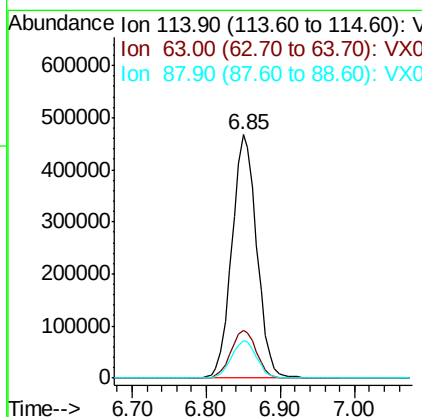
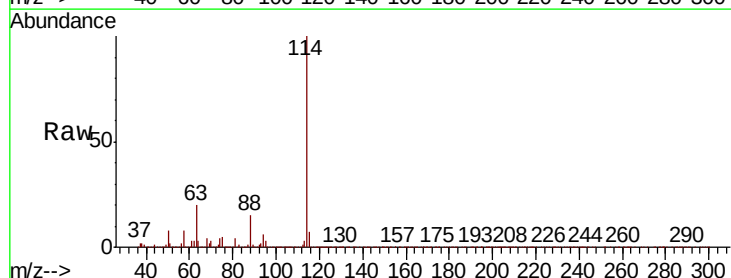
Instrument :
 MSVOA_X
 ClientSampleId :

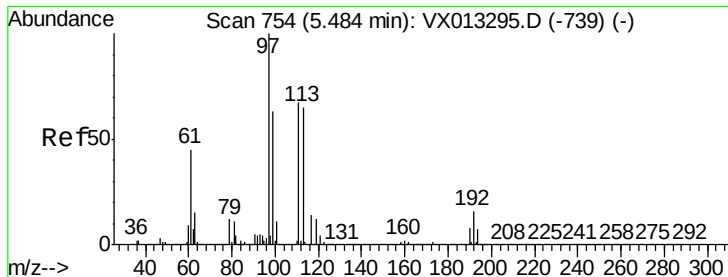
Tot Ion: 65 Resp: 396466
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013586.D
 Acq: 25 Nov 2019 17:10

Tgt Ion: 114 Resp: 1093029
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.4
 88 15.1 0.0 32.2





#35

Dibromofluoromethane

Concen: 47.496 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013586.D

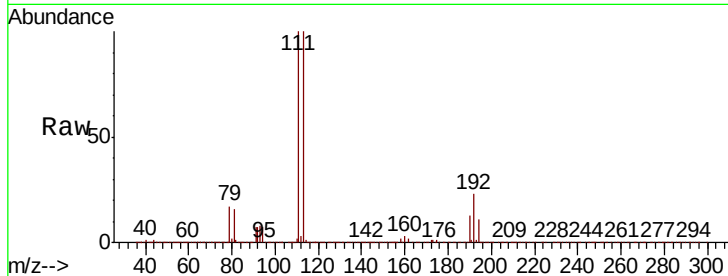
Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

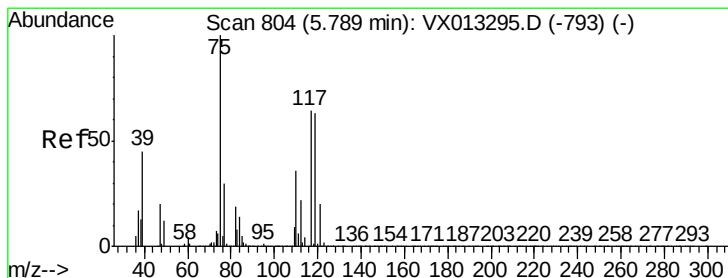
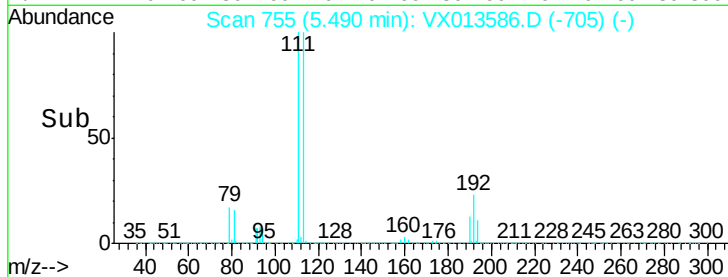
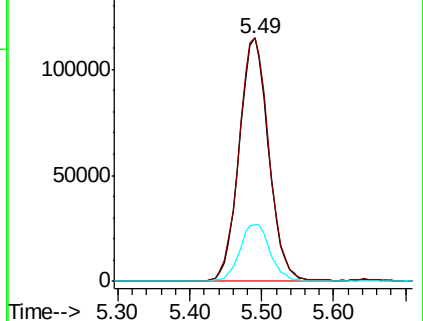
Tot Ion:	113	Resp:	325613
Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.9	122.9
192	24.2	19.1	28.7



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



#36

1,1-Dichloropropene

Concen: 4.696 ug/l

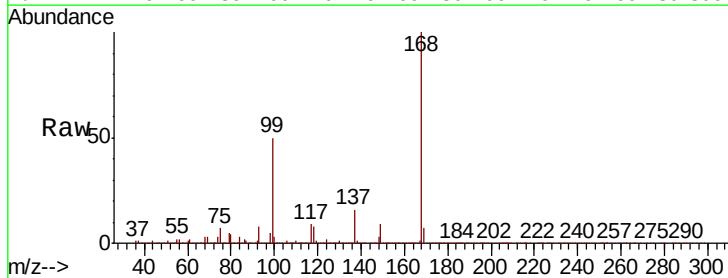
RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

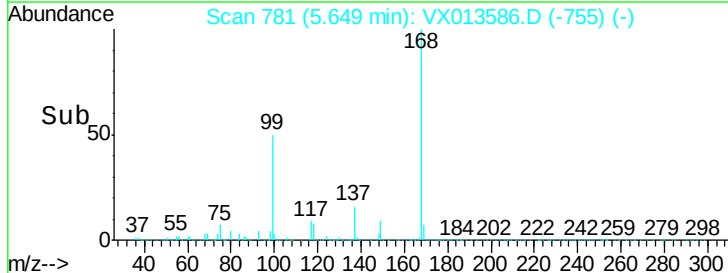
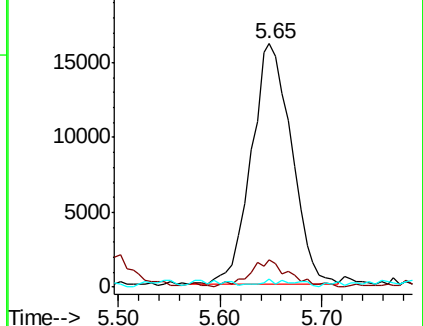
Tgt Ion:	75	Resp:	44031
Ion	Ratio	Lower	Upper
75	100		
110	11.6	18.1	54.1#
77	0.4	25.0	37.4#

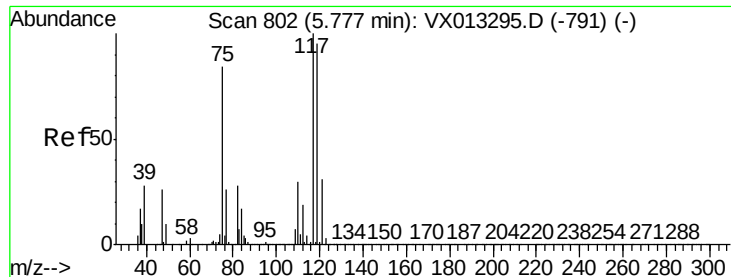


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.427 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

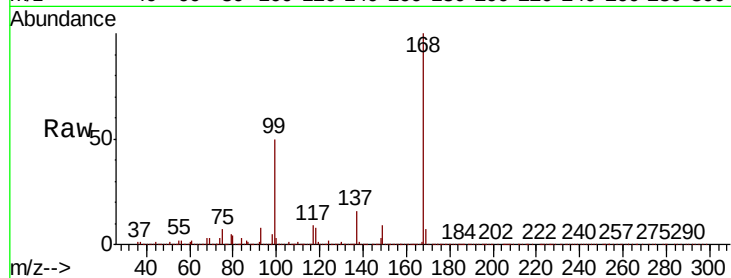
Tot Ion:117 Resp: 58936

Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

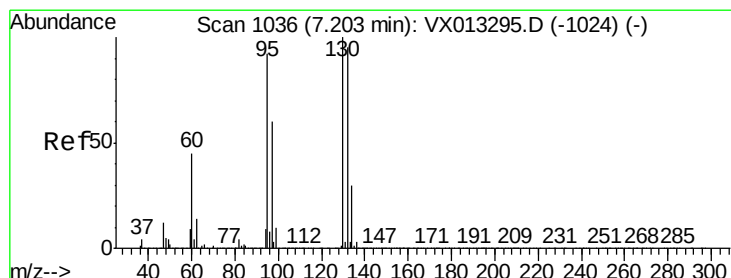
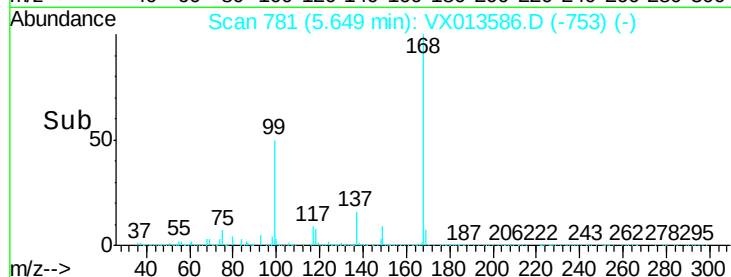
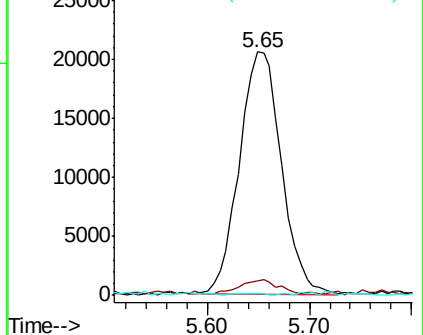
121 0.6 24.6 37.0#



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



#44

Trichloroethene

Concen: 14.908 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013586.D

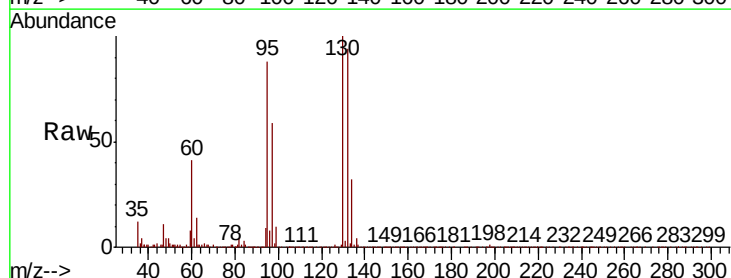
Acq: 25 Nov 2019 17:10

Tgt Ion:130 Resp: 119858

Ion Ratio Lower Upper

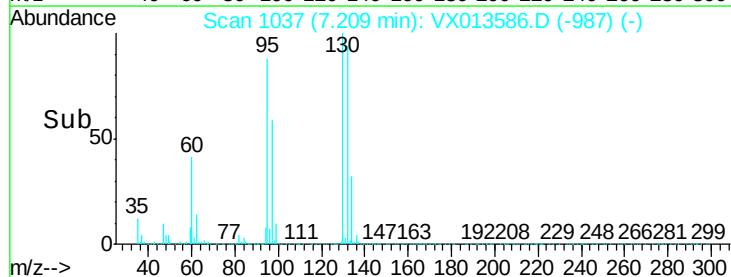
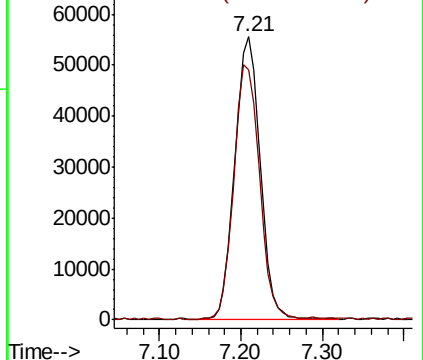
130 100

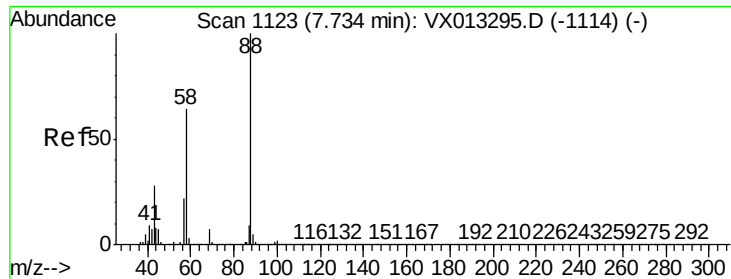
95 88.5 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 3.079 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

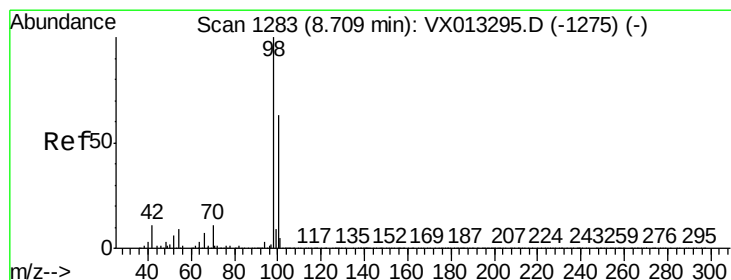
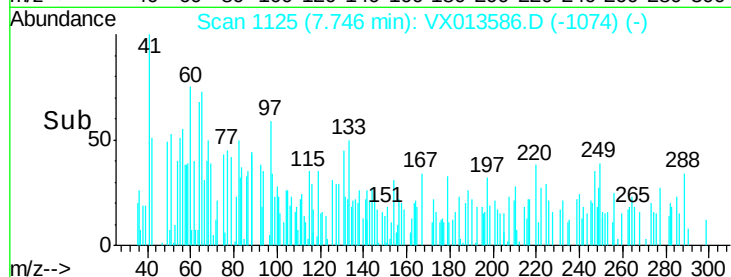
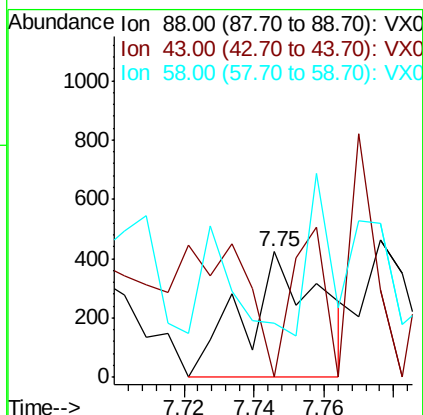
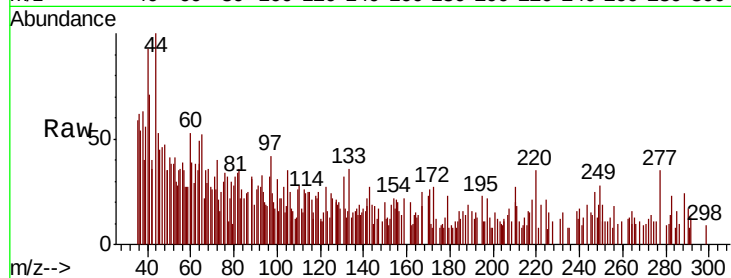
Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 635

Ion	Ratio	Lower	Upper
88	100		
43	52.4	26.6	39.8#
58	29.6	55.0	82.6#



#50

Toluene-d8

Concen: 50.572 ug/l

RT: 8.71 min Scan# 1283

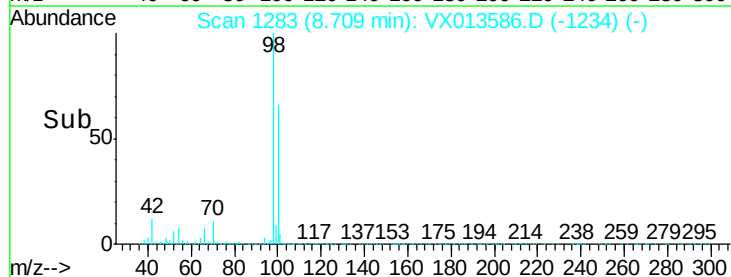
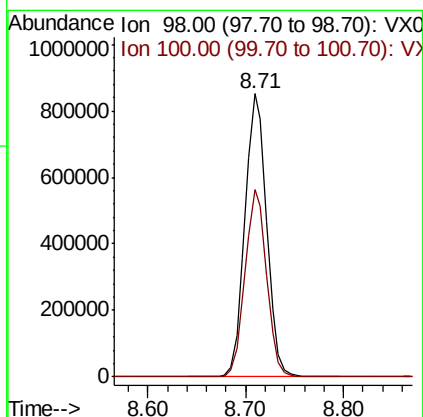
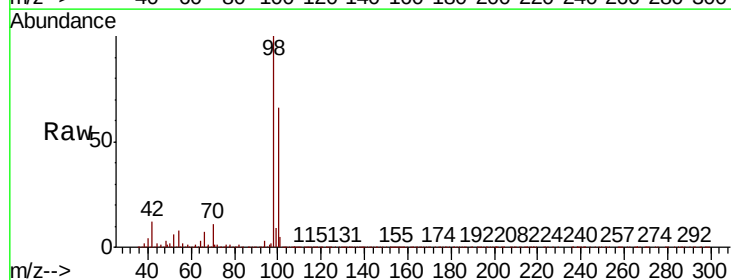
Delta R.T. 0.00 min

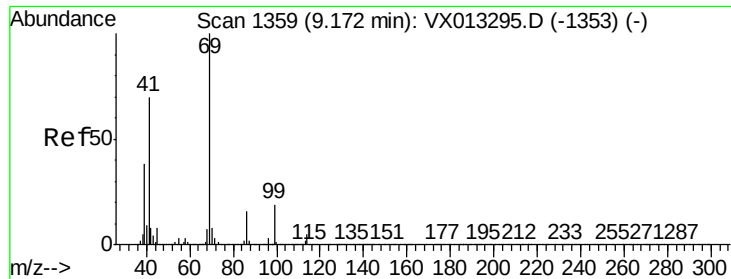
Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Tgt Ion: 98 Resp: 1307020

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.2	78.2





#56

Ethyl methacrylate

Concen: 1.595 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :
MSVOA_X
ClientSampled :

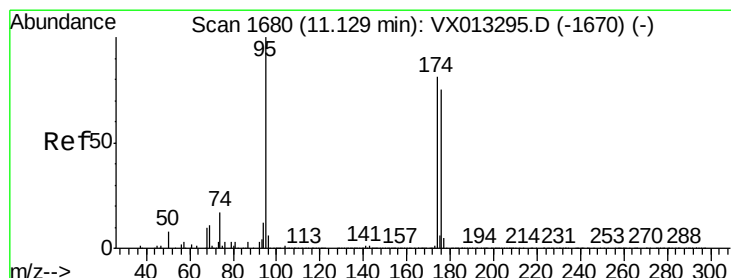
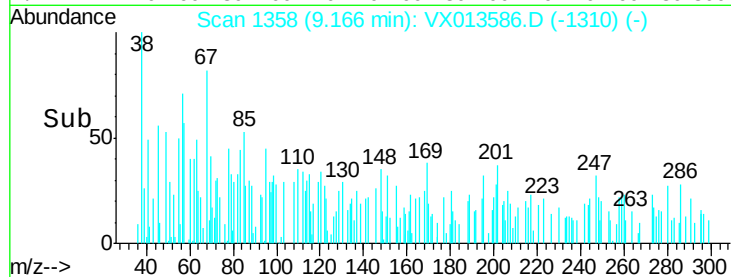
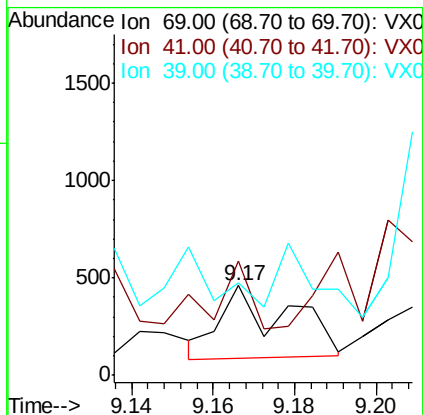
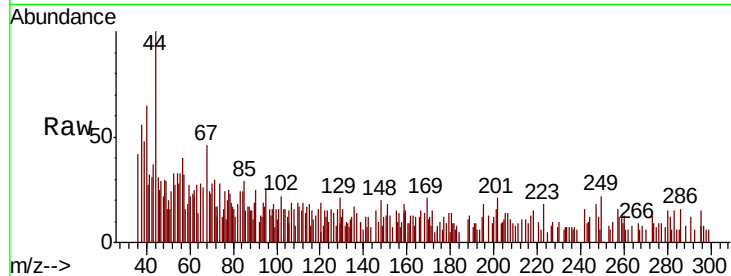
Tot Ion: 69 Resp: 424

Ion Ratio Lower Upper

69 100

41 99.8 56.2 84.2#

39 59.4 31.1 46.7#



#62

4-Bromofluorobenzene

Concen: 48.467 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

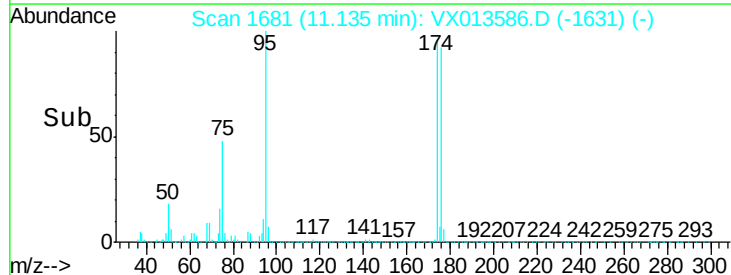
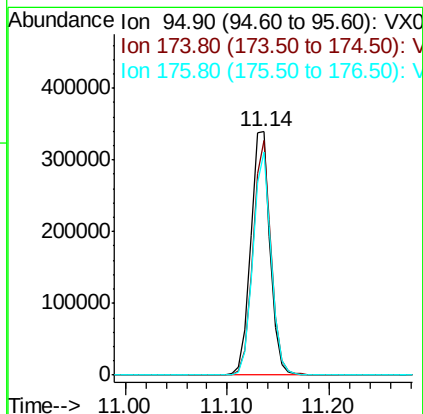
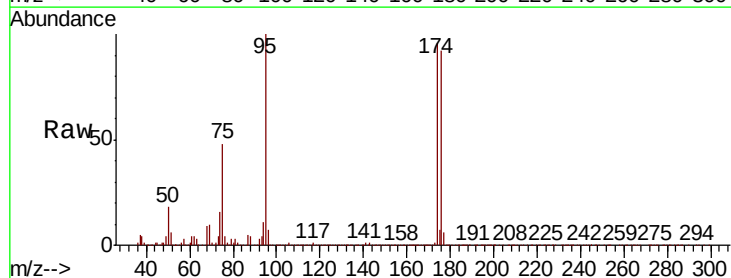
Tgt Ion: 95 Resp: 452080

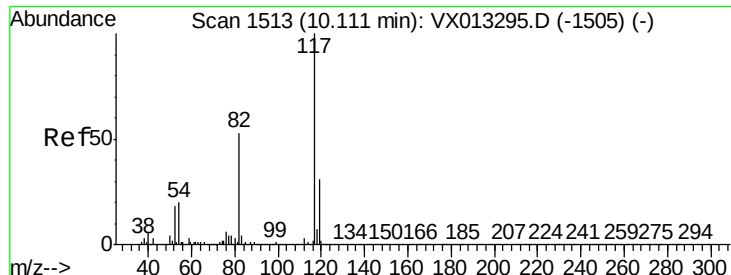
Ion Ratio Lower Upper

95 100

174 90.5 0.0 179.8

176 86.7 0.0 173.0

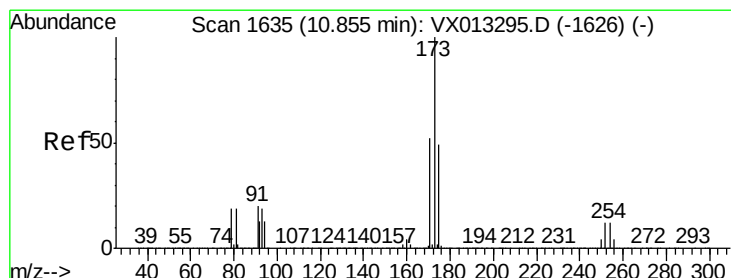
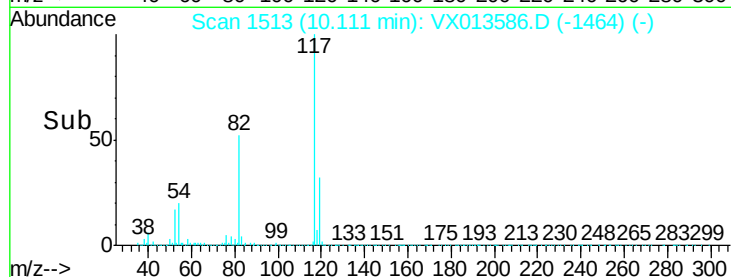
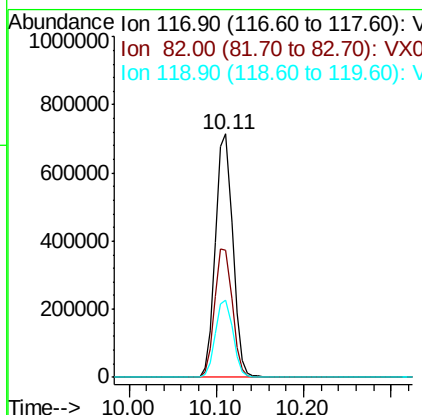
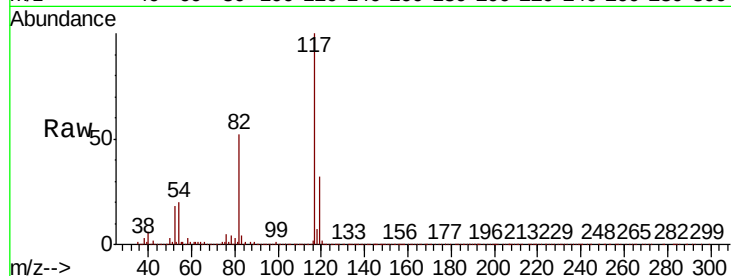




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013586.D
Acq: 25 Nov 2019 17:10

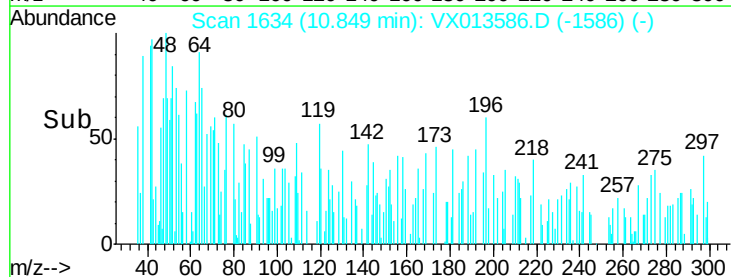
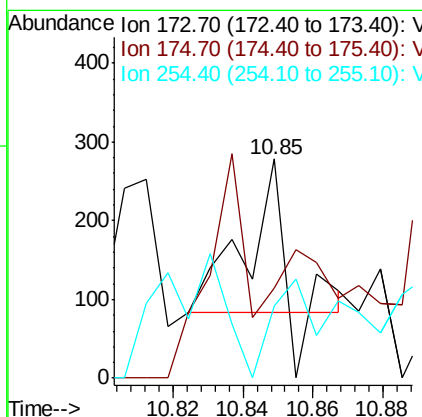
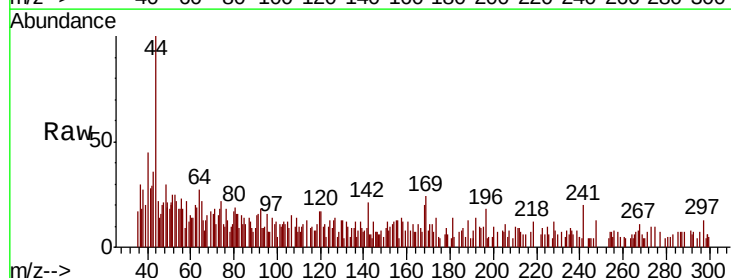
Instrument :
MSVOA_X
ClientSampled :

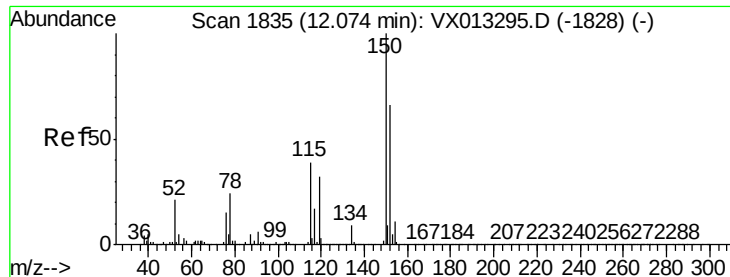
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.6	64.0
119	31.8	24.8	37.2



#71
Bromoform
Concen: 3.222 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013586.D
Acq: 25 Nov 2019 17:10

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.8	74.4#
254	137.2	0.2	0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

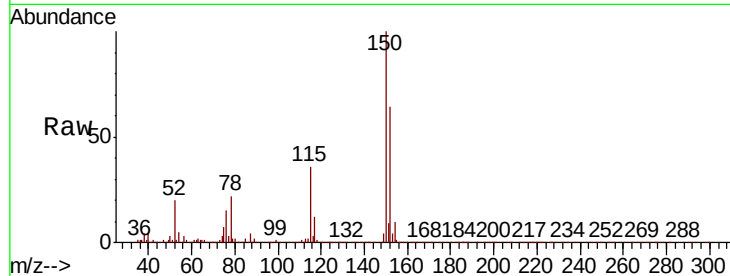
Tot Ion:152 Resp: 476148

Ion Ratio Lower Upper

152 100

115 55.6 39.5 118.3

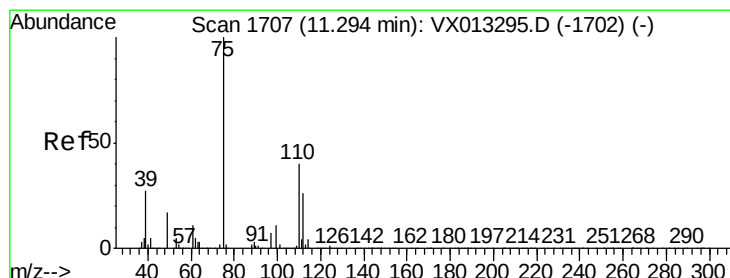
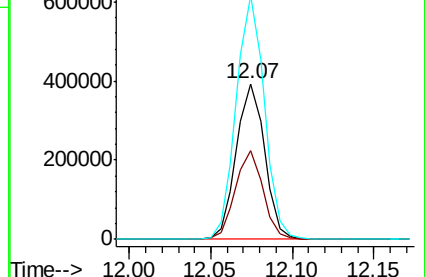
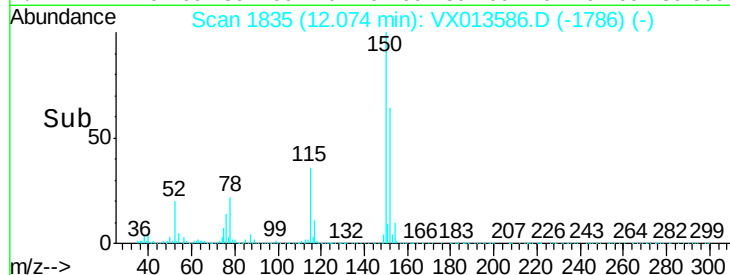
150 155.3 0.0 344.4



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: 22.959 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013586.D

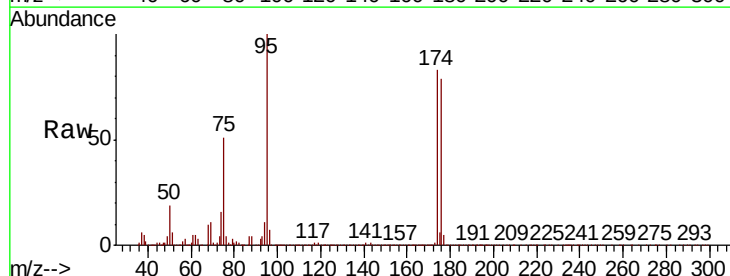
Acq: 25 Nov 2019 17:10

Tgt Ion: 75 Resp: 222037

Ion Ratio Lower Upper

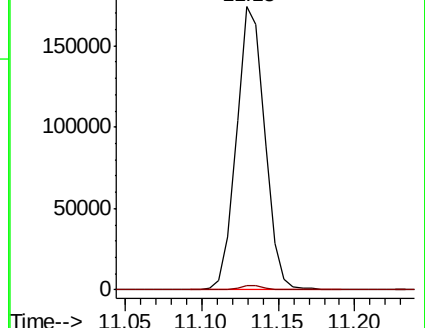
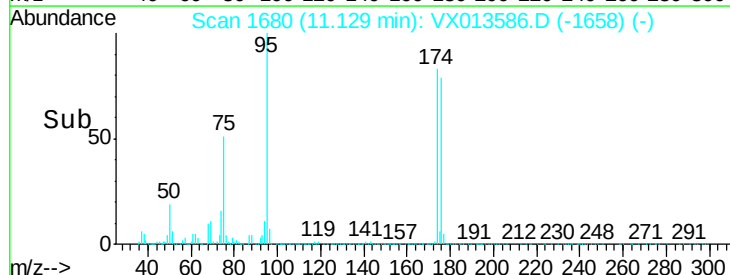
75 100

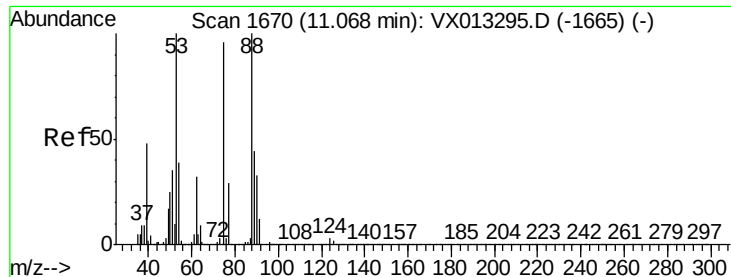
77 1.3 22.3 66.8#



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: 59.095 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

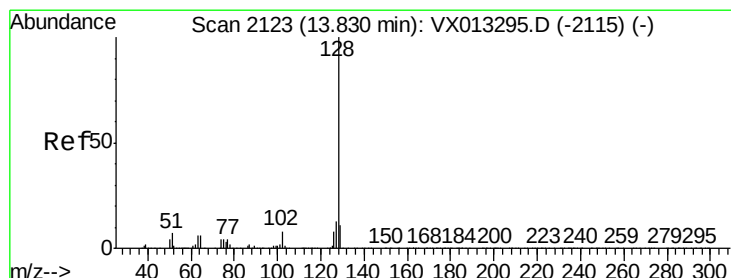
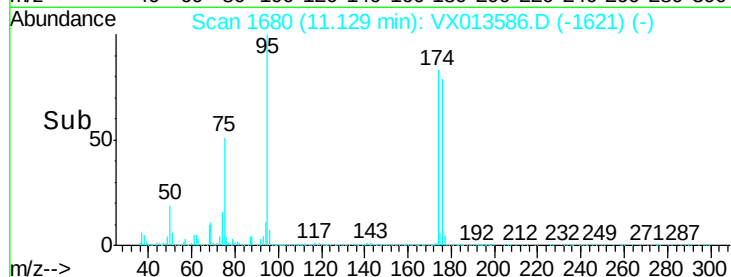
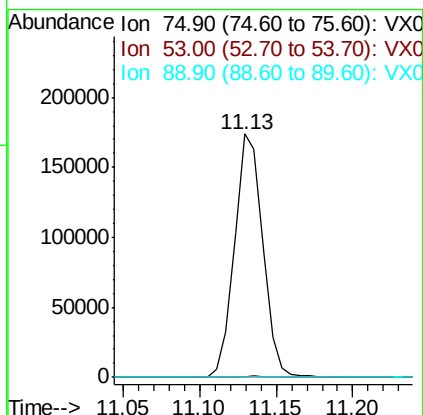
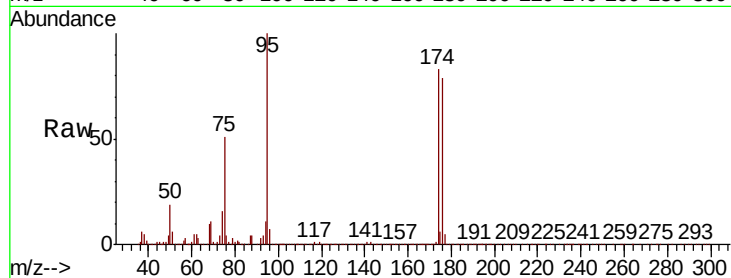
Tot Ion: 75 Resp: 222037

Ion Ratio Lower Upper

75 100

53 0.5 81.0 121.6#

89 0.0 36.0 54.0#



#95

Naphthalene

Concen: 0.511 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013586.D

Acq: 25 Nov 2019 17:10

Tgt Ion: 128 Resp: 16762

Ion Ratio Lower Upper

128 100

127 16.6 10.2 15.2#

129 11.9 8.5 12.7

