

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111319\
 Data File : VX013404.D
 Acq On : 13 Nov 2019 13:58
 Operator : JC/SP
 Sample : K5802-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 14 04:35:19 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	745728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1191329	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1058323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	489804	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	425952	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
35) Dibromofluoromethane	5.49	113	359025	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	8.71	98	1405310	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.14	95	475640	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	

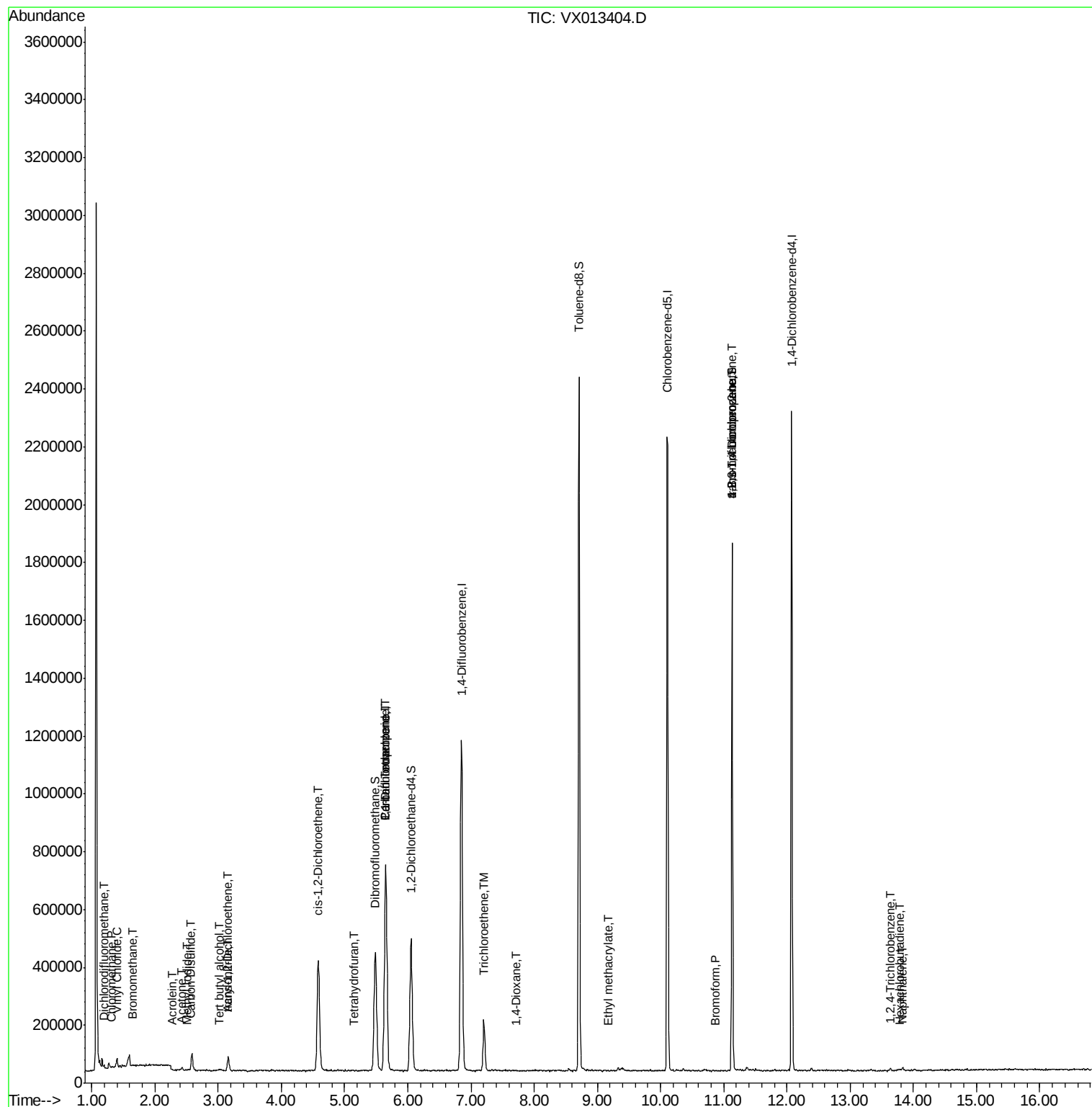
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	8273	0.963	ug/l	84
3) Chloromethane	1.31	50	2486	0.267	ug/l #	81
4) Vinyl Chloride	1.40	62	19367	1.826	ug/l	99
5) Bromomethane	1.64	94	1940	0.262	ug/l #	31
6) Chloroethane	1.65	64	2494	Below Cal	#	43
10) Methyl Iodide	2.50	142	2579	0.298	ug/l #	72
11) Tert butyl alcohol	3.02	59	5587	2.399	ug/l #	76
13) Acrolein	2.28	56	849	0.673	ug/l #	66
15) Acrylonitrile	3.15	53	2335	0.537	ug/l #	43
16) Acetone	2.42	43	10054	2.282	ug/l #	87
17) Carbon Disulfide	2.56	76	5673	0.310	ug/l #	91
21) trans-1,2-Dichloroethene	3.15	96	21166	2.842	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	246355	29.527	ug/l	89
29) Tetrahydrofuran	5.14	42	1506	0.378	ug/l #	43
36) 1,1-Dichloropropene	5.65	75	50805	4.971	ug/l #	50
38) Carbon Tetrachloride	5.65	117	63423	6.346	ug/l #	14
44) Trichloroethene	7.21	130	74740	8.529	ug/l	96
49) 1,4-Dioxane	7.73	88	176	0.783	ug/l #	1
56) Ethyl methacrylate	9.17	69	509	1.598	ug/l #	60
71) Bromoform	10.85	173	235	3.233	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	233364	23.457	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	233364	60.378	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.64	180	2281	0.212	ug/l #	63
94) Hexachlorobutadiene	13.78	225	1104	0.210	ug/l	82
95) Naphthalene	13.83	128	7330	0.217	ug/l #	91

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

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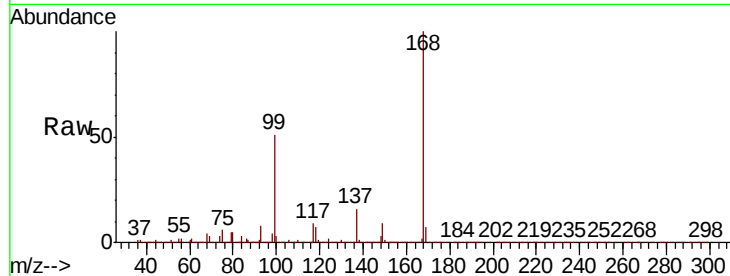


#1

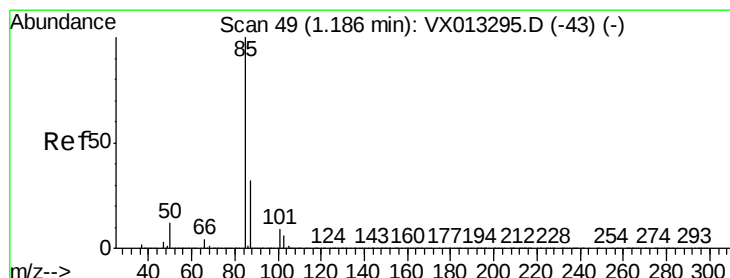
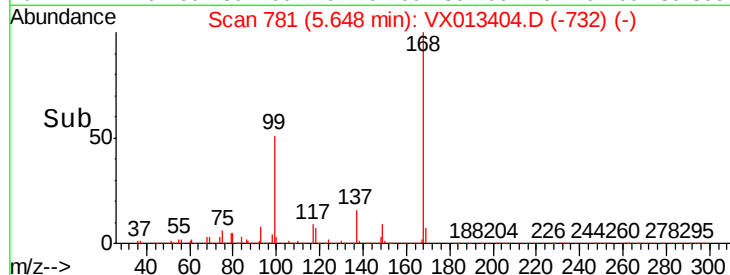
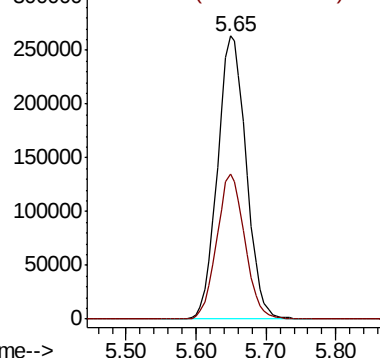
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.00 min
 Lab File: VX013404.D
 Acq: 13 Nov 2019 13:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 745728
 Ion Ratio Lower Upper
 168 100
 99 51.4 40.8 61.2



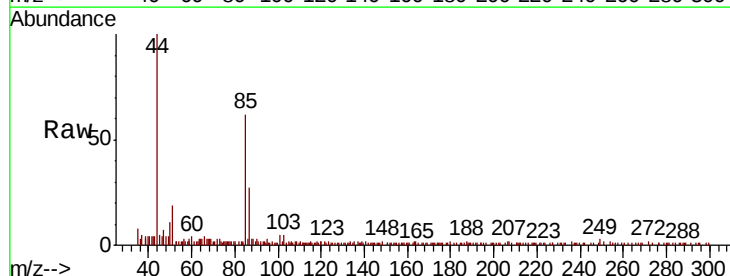
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



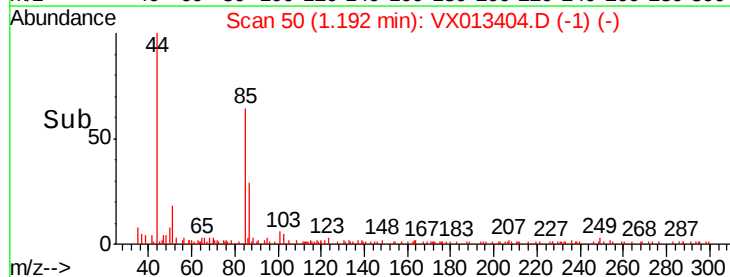
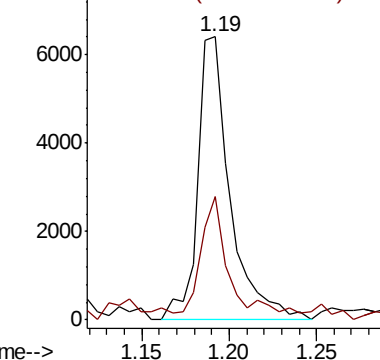
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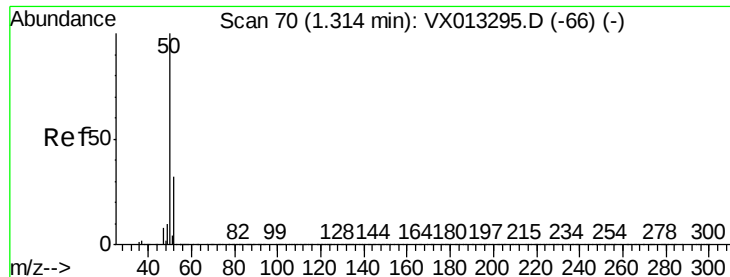
Dichlorodifluoromethane
 Concen: 0.963 ug/l
 RT: 1.19 min Scan# 50
 Delta R.T. 0.01 min
 Lab File: VX013404.D
 Acq: 13 Nov 2019 13:58

Tgt Ion: 85 Resp: 8273
 Ion Ratio Lower Upper
 85 100
 87 40.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0
 Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

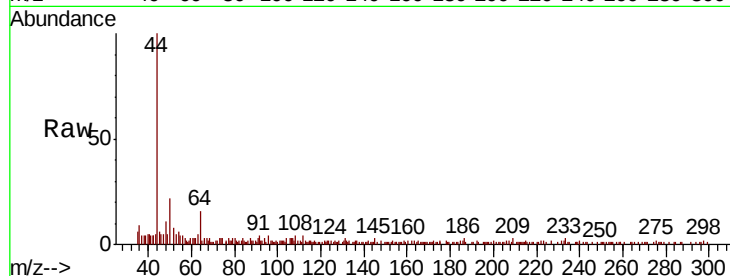
ClientSampled :

Tot Ion: 50 Resp: 2486

Ion Ratio Lower Upper

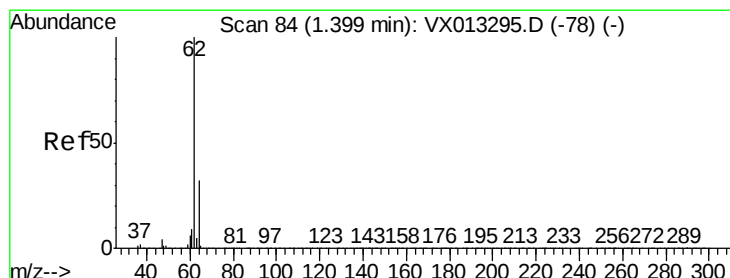
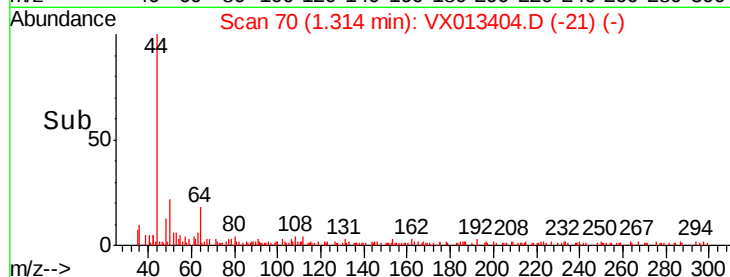
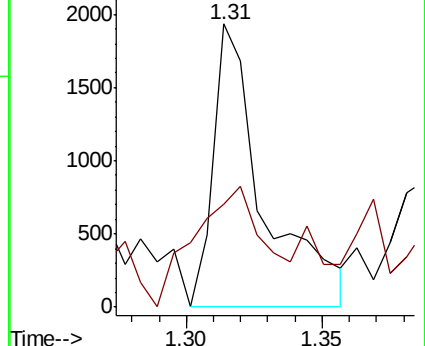
50 100

52 21.1 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 1.826 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013404.D

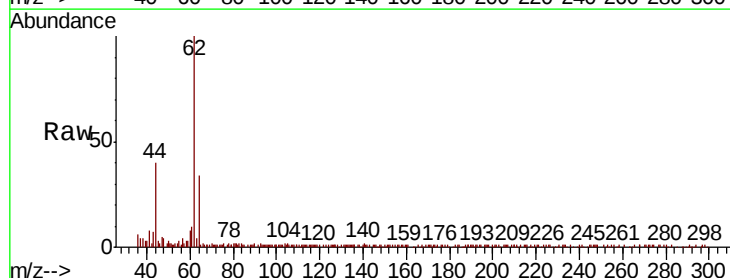
Acq: 13 Nov 2019 13:58

Tgt Ion: 62 Resp: 19367

Ion Ratio Lower Upper

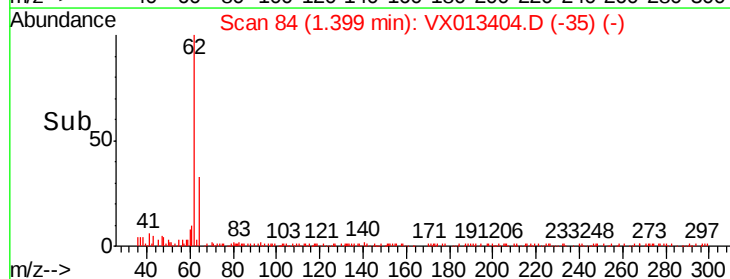
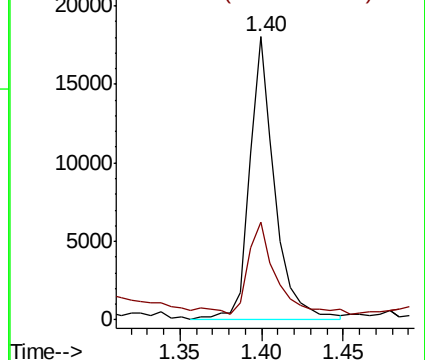
62 100

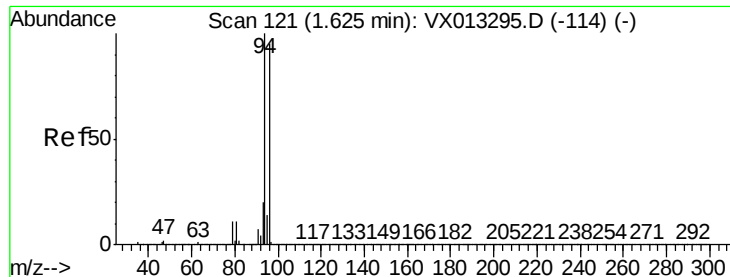
64 31.5 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.262 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

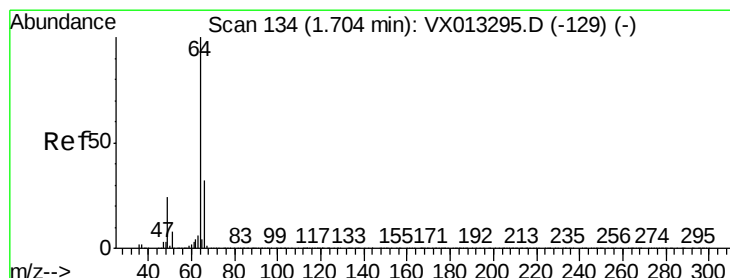
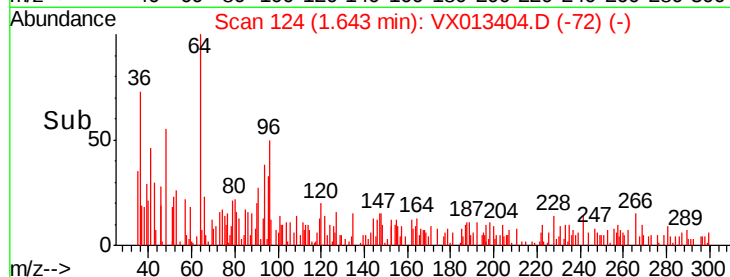
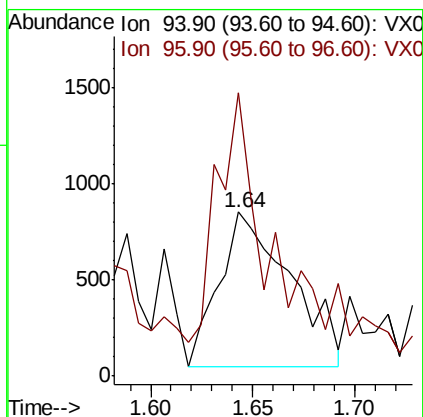
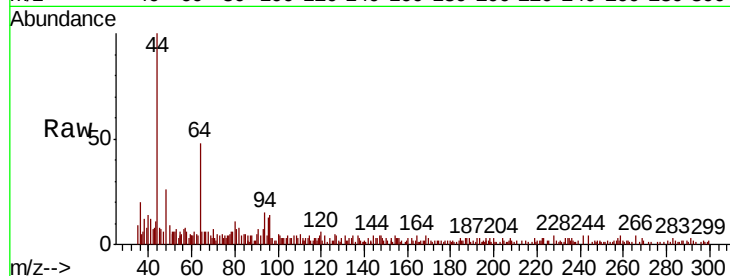
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 1940

Ion Ratio Lower Upper

94 100

96 162.0 75.8 113.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. -0.05 min

Lab File: VX013404.D

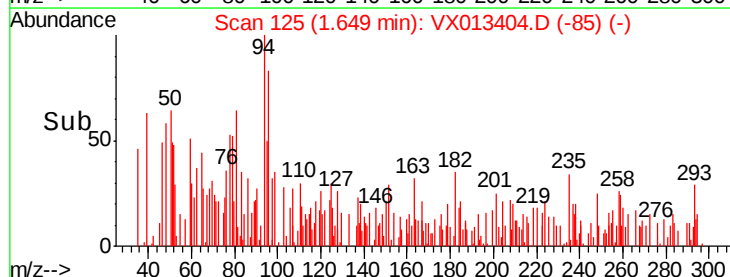
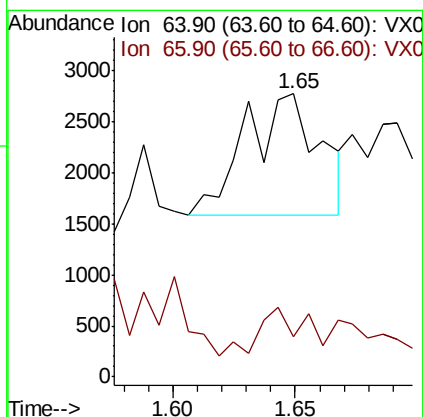
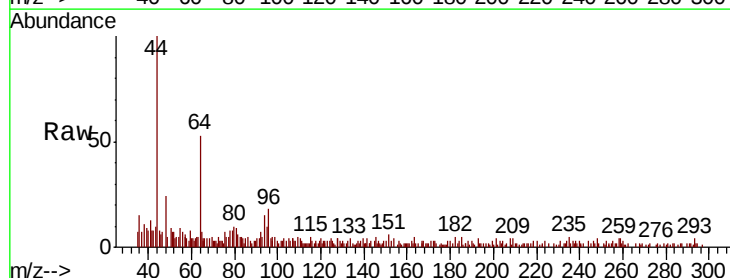
Acq: 13 Nov 2019 13:58

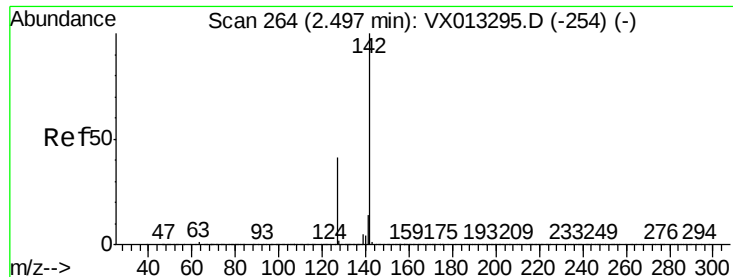
Tgt Ion: 64 Resp: 2494

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#





#10

Methvl Iodide

Concen: 0.298 ug/l

RT: 2.50 min Scan# 264

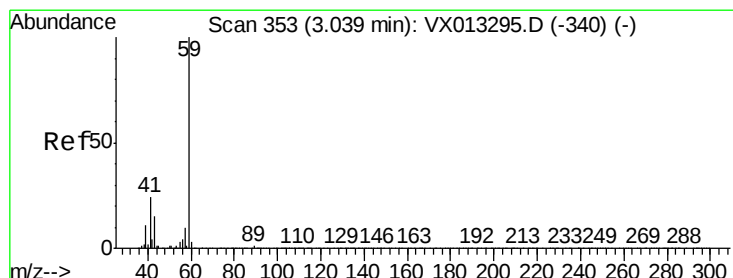
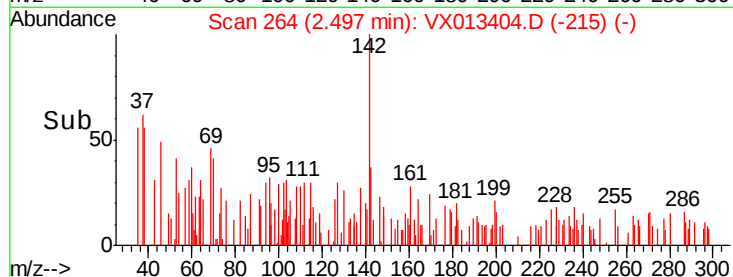
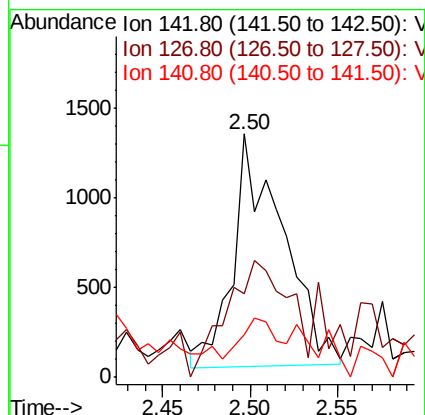
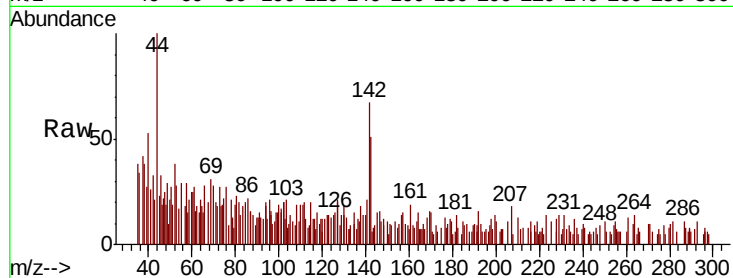
Delta R.T. -0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	142	Resp:	2579
Ion	Ratio	Lower	Upper
142	100		
127	62.7	32.6	49.0#
141	12.0	11.6	17.4



#11

Tert butyl alcohol

Concen: 2.399 ug/l

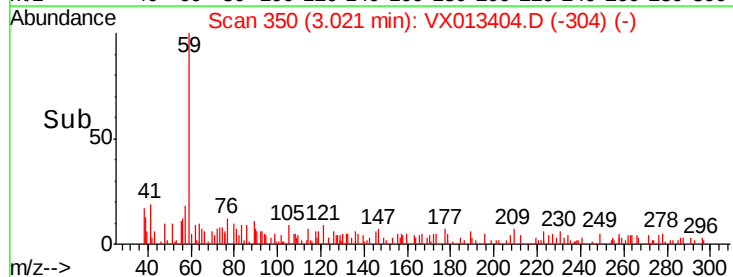
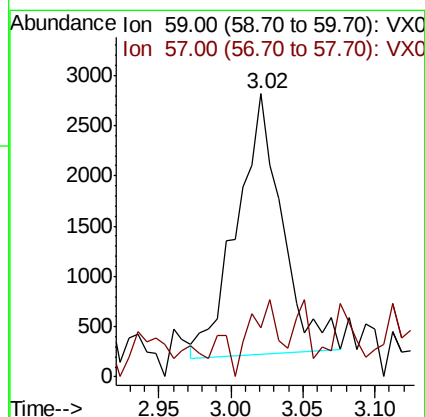
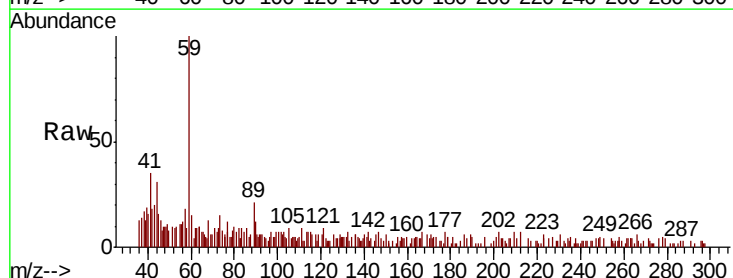
RT: 3.02 min Scan# 350

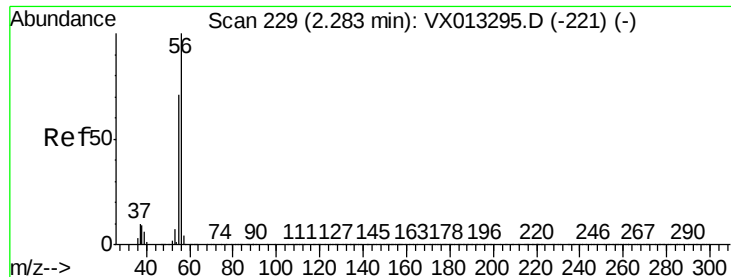
Delta R.T. -0.02 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Tgt Ion:	59	Resp:	5587
Ion	Ratio	Lower	Upper
59	100		
57	18.9	8.0	12.0#





#13

Acrolein

Concen: 0.673 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

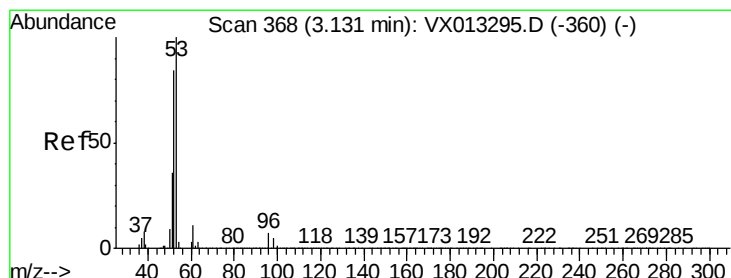
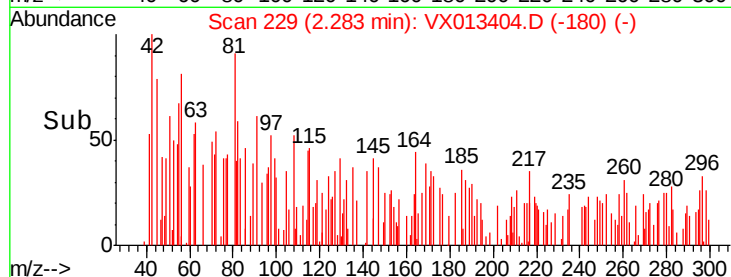
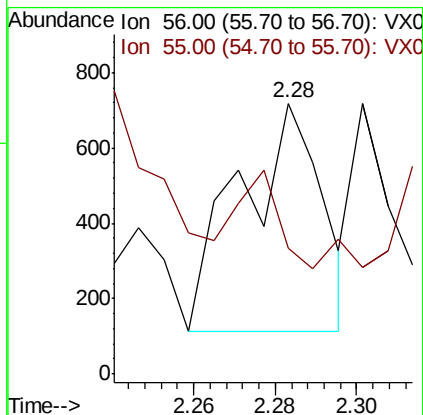
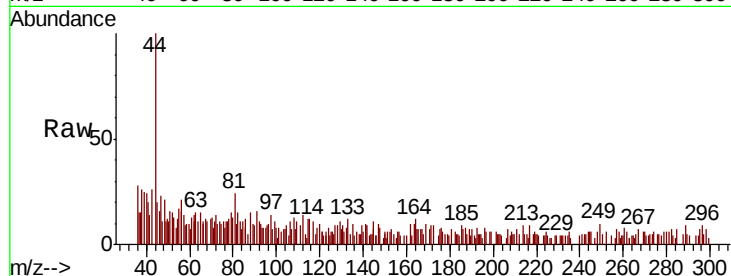
ClientSampleId :

Tot Ion: 56 Resp: 849

Ion Ratio Lower Upper

56 100

55 43.2 57.4 86.0#



#15

Acrylonitrile

Concen: 0.537 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

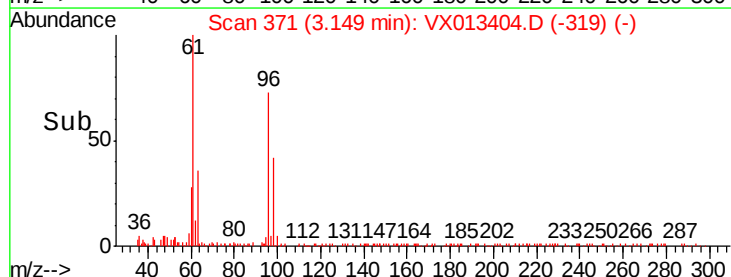
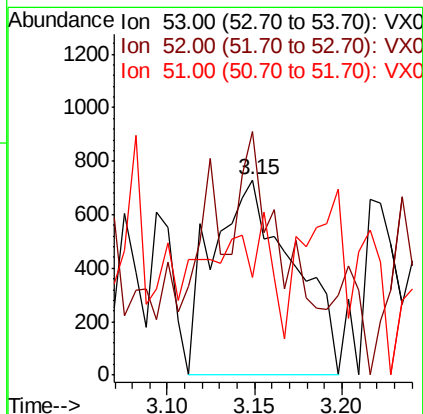
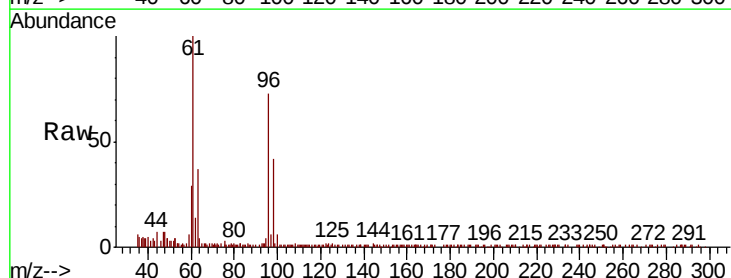
Tgt Ion: 53 Resp: 2335

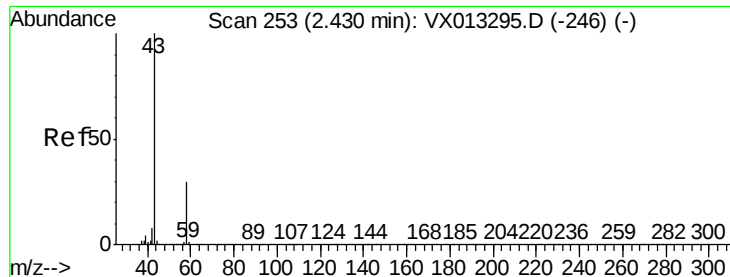
Ion Ratio Lower Upper

53 100

52 34.6 67.4 101.0#

51 0.0 29.4 44.2#





#16

Acetone

Concen: 2.282 ug/l

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

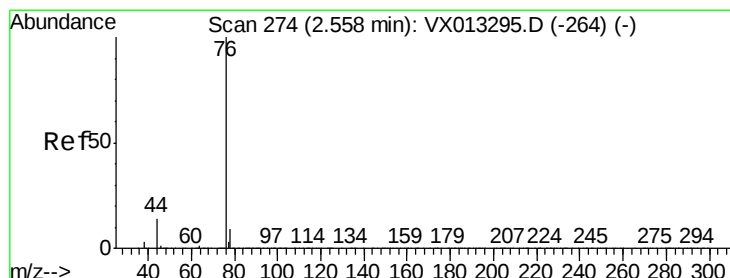
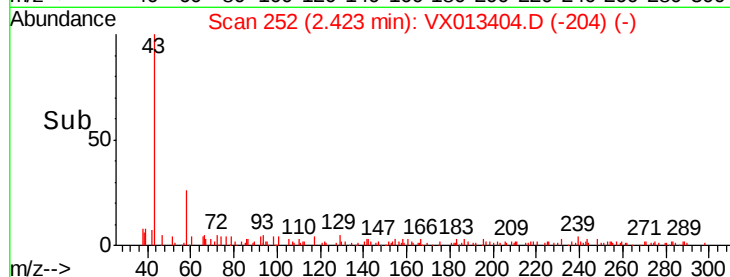
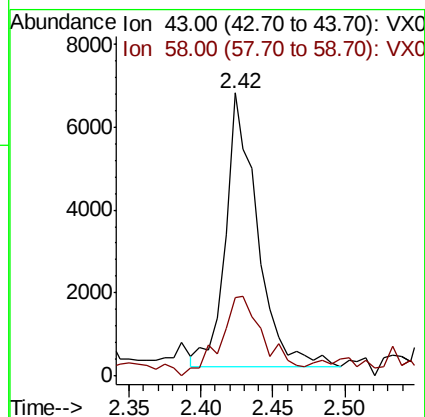
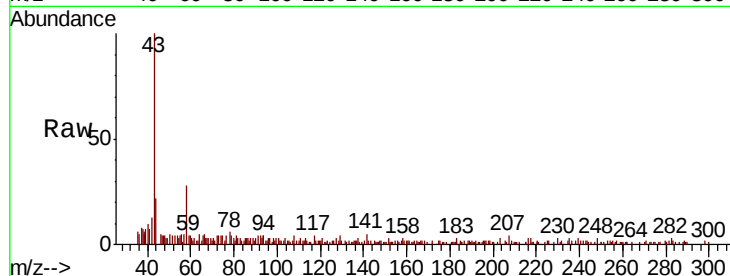
ClientSampleId :

Tot Ion: 43 Resp: 10054

Ion Ratio Lower Upper

43 100

58 23.1 24.3 36.5#



#17

Carbon Disulfide

Concen: 0.310 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013404.D

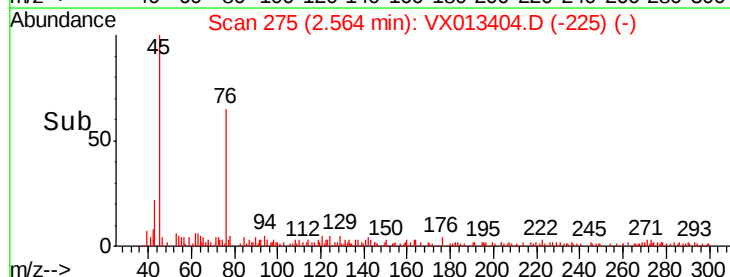
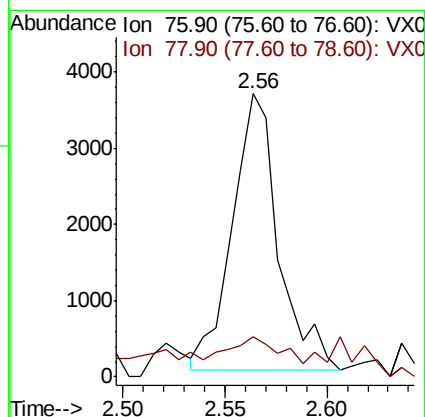
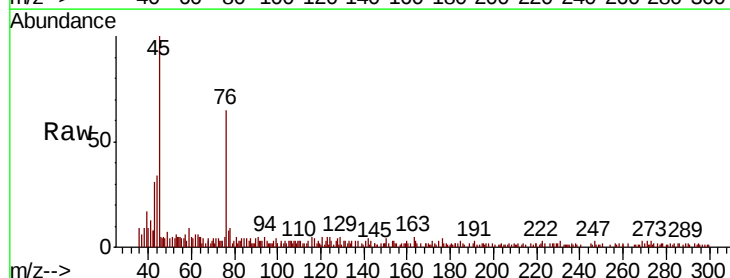
Acq: 13 Nov 2019 13:58

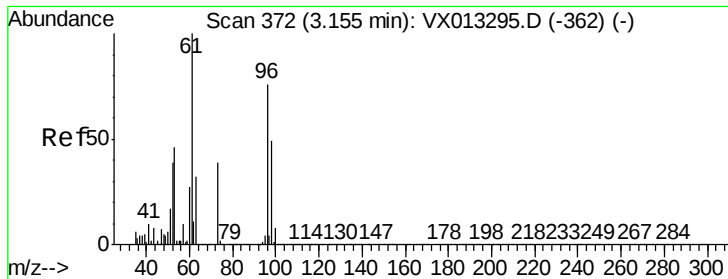
Tgt Ion: 76 Resp: 5673

Ion Ratio Lower Upper

76 100

78 5.5 7.0 10.6#





#21

trans-1,2-Dichloroethene

Concen: 2.842 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

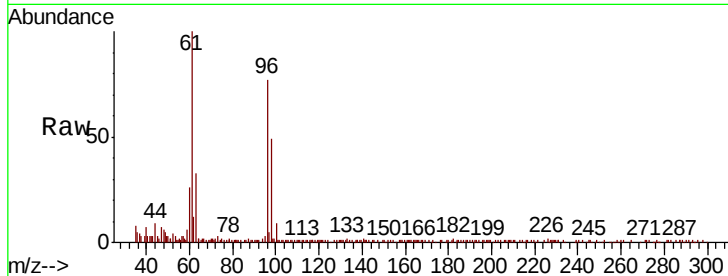
Tot Ion: 96 Resp: 21166

Ion Ratio Lower Upper

96 100

61 129.4 105.8 158.6

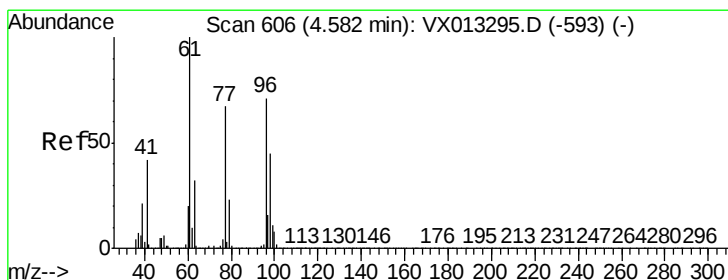
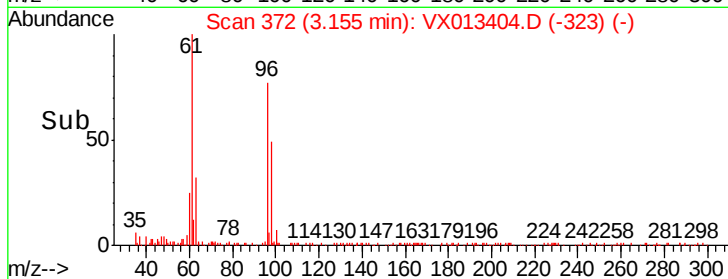
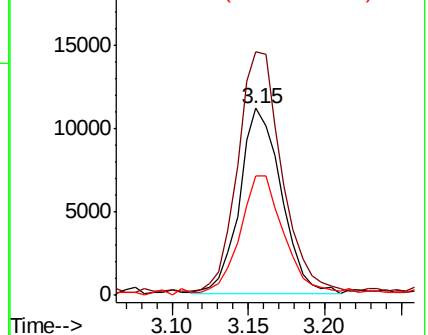
98 62.9 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 29.527 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

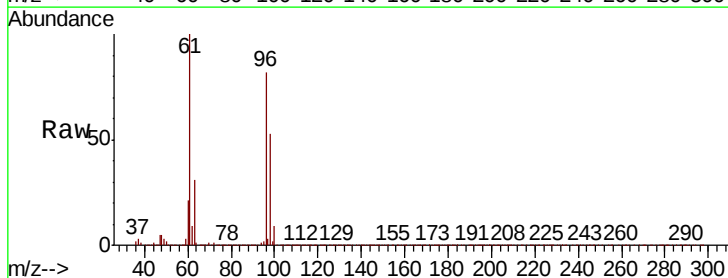
Tgt Ion: 96 Resp: 246355

Ion Ratio Lower Upper

96 100

61 124.9 0.0 288.0

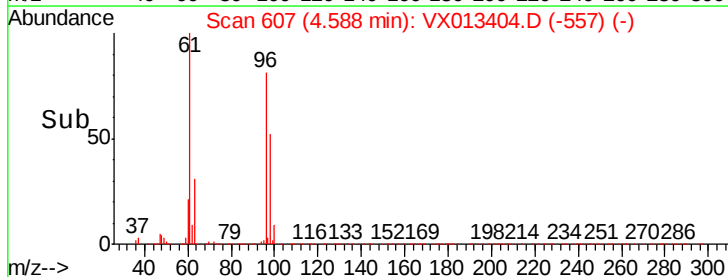
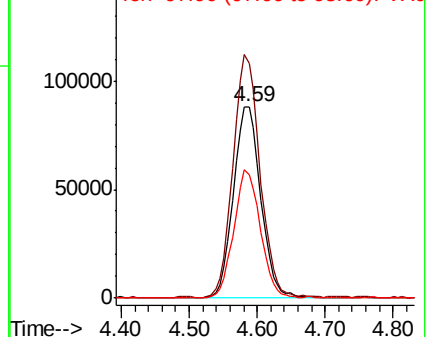
98 64.6 0.0 129.6

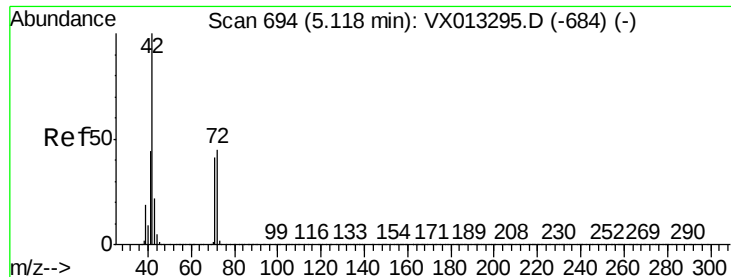


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.378 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.02 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

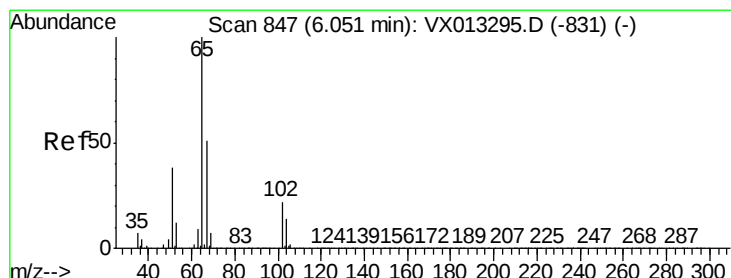
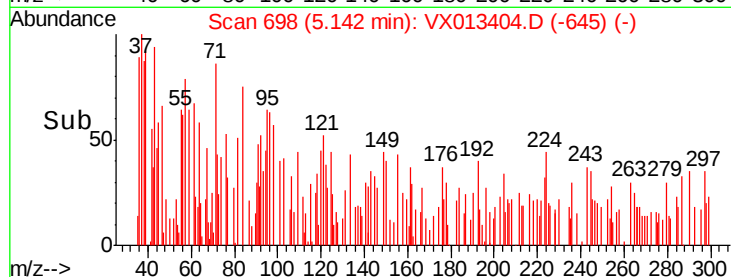
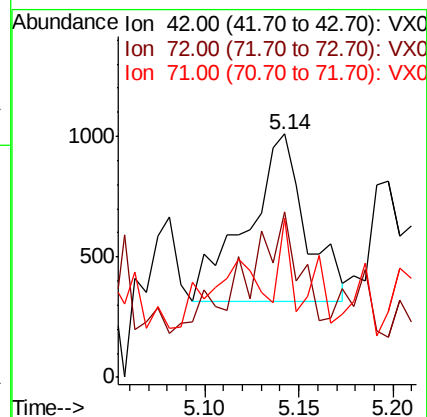
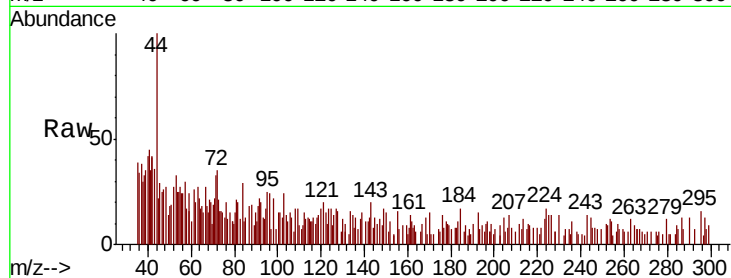
Tot Ion: 42 Resp: 1506

Ion Ratio Lower Upper

42 100

72 76.2 35.8 53.8#

71 0.0 33.4 50.0#



#33

1,2-Dichloroethane-d4

Concen: 48.214 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013404.D

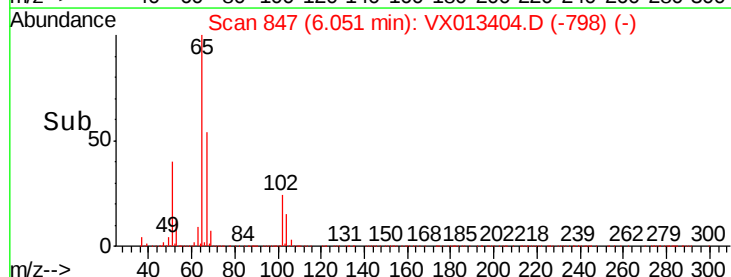
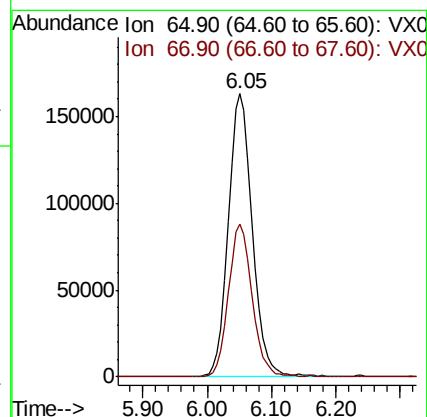
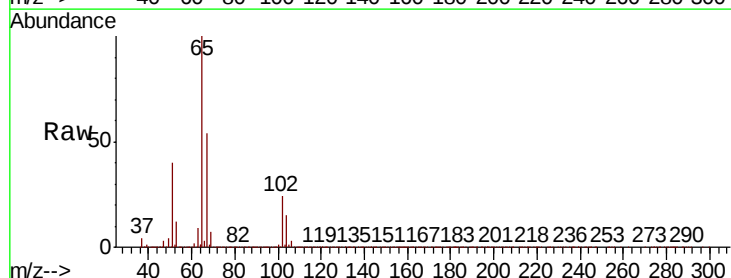
Acq: 13 Nov 2019 13:58

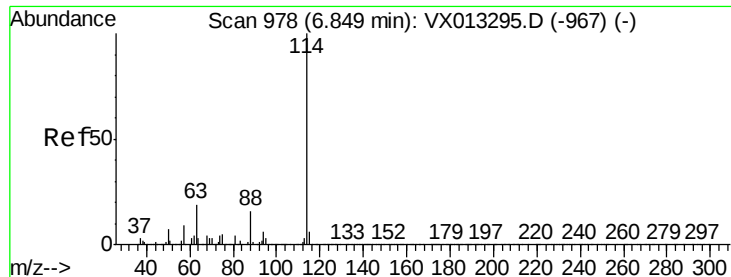
Tgt Ion: 65 Resp: 425952

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: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

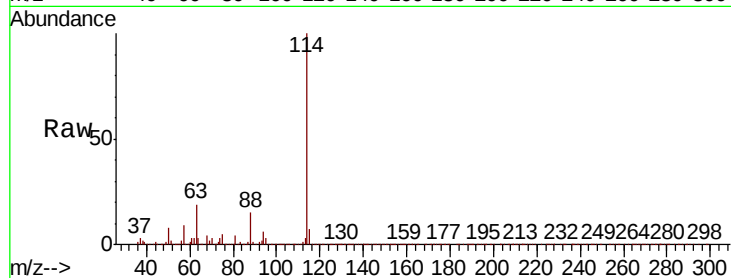
Tot Ion:114 Resp: 1191329

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.4

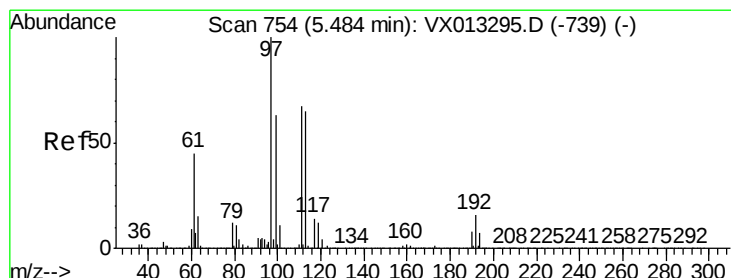
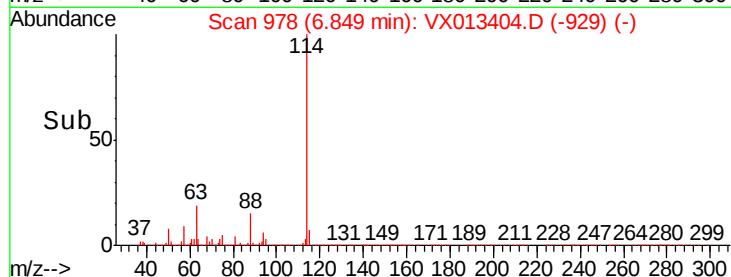
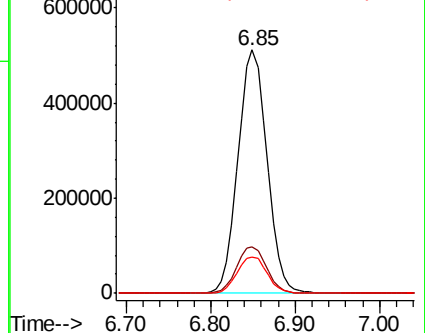
88 15.0 0.0 32.2



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



#35

Dibromofluoromethane

Concen: 48.048 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

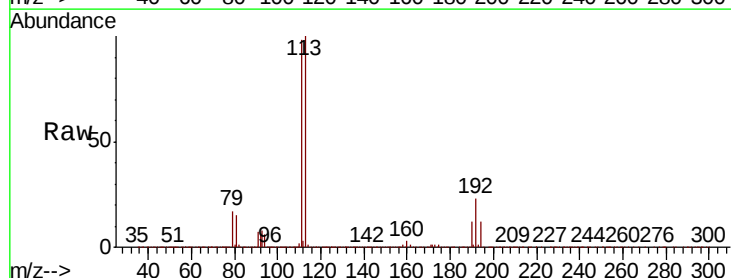
Tgt Ion:113 Resp: 359025

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

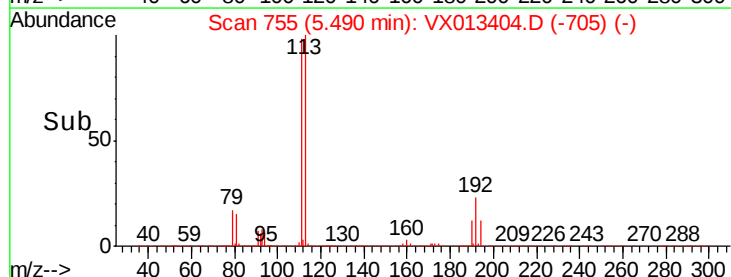
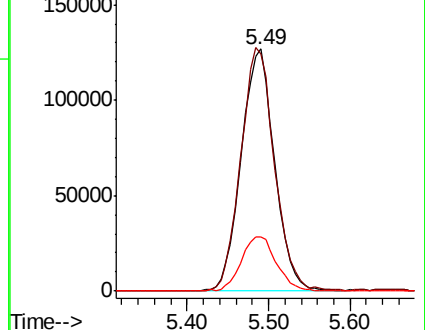
192 23.8 19.1 28.7

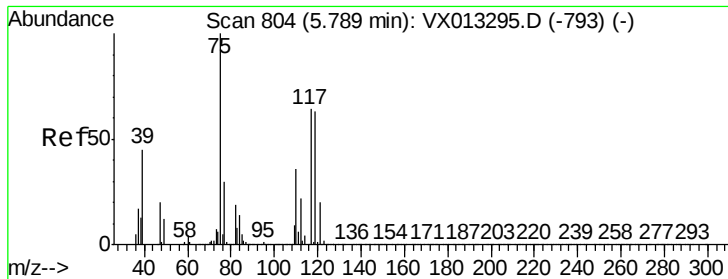


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

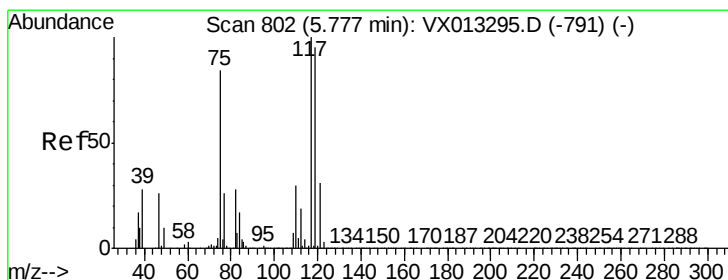
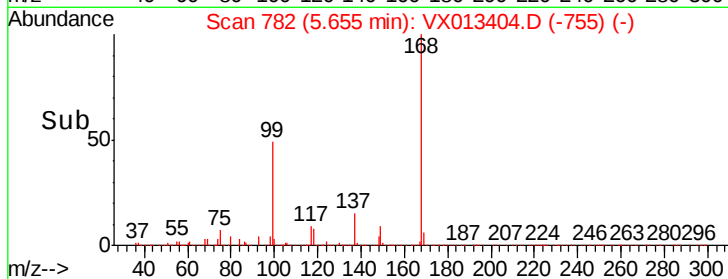
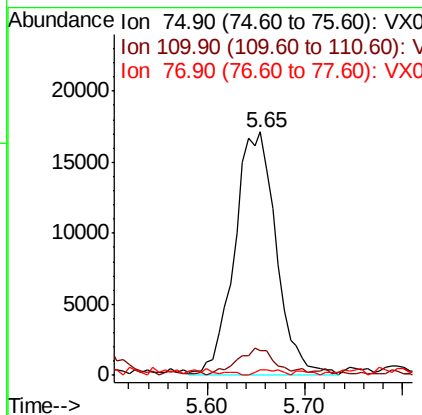
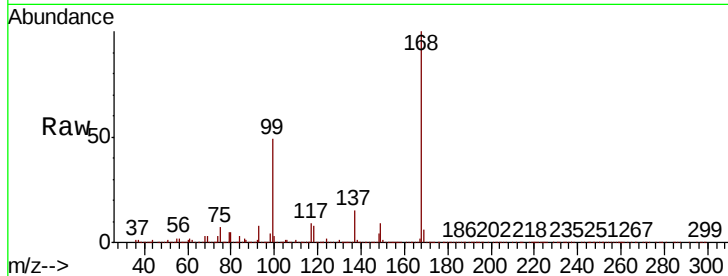




#36
 1,1-Dichloropropene
 Concen: 4.971 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013404.D
 Acq: 13 Nov 2019 13:58

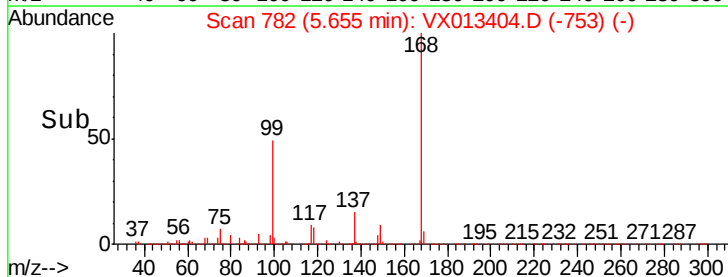
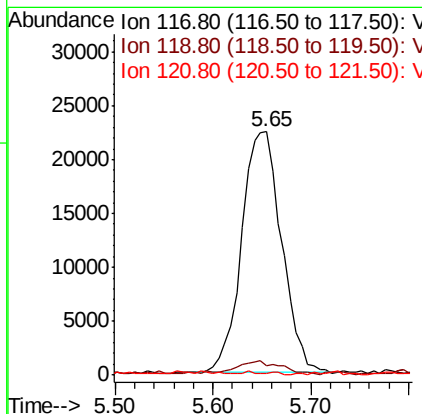
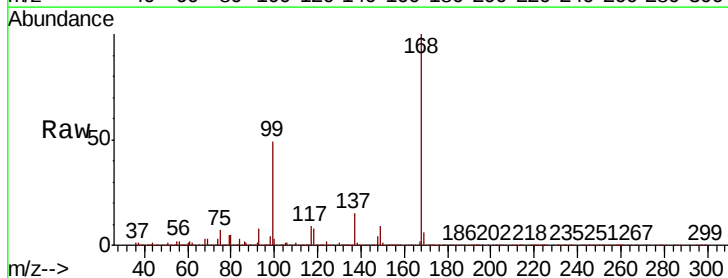
Instrument :
 MSVOA_X
 ClientSampled :

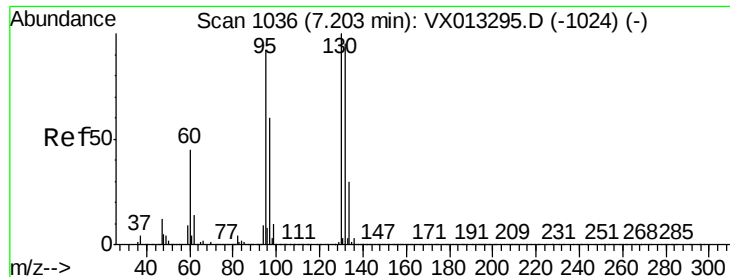
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	1.4	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.346 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013404.D
 Acq: 13 Nov 2019 13:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	2.2	76.1	114.1#
121	0.0	24.6	37.0#





#44

Trichloroethene

Concen: 8.529 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

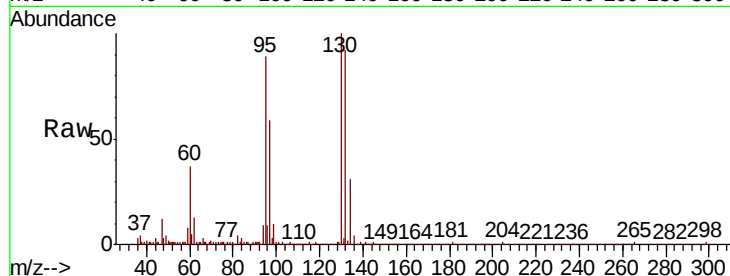
ClientSampled :

Tot Ion:130 Resp: 74740

Ion Ratio Lower Upper

130 100

95 88.8 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

40000

30000

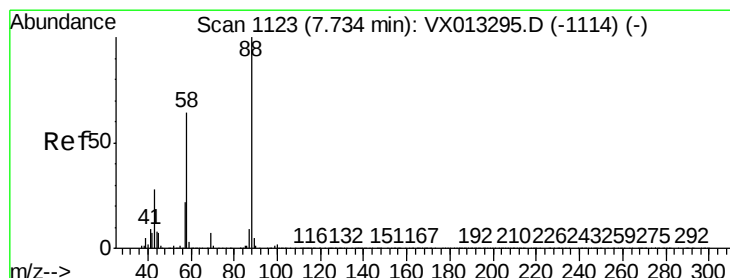
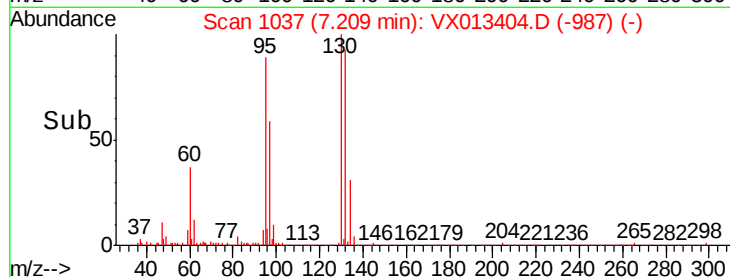
20000

10000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 0.783 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

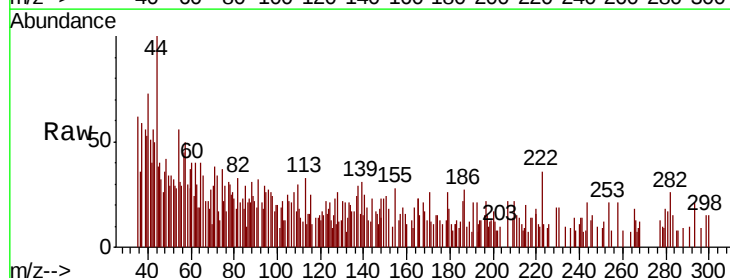
Tgt Ion: 88 Resp: 176

Ion Ratio Lower Upper

88 100

43 286.4 26.6 39.8#

58 150.6 55.0 82.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

600

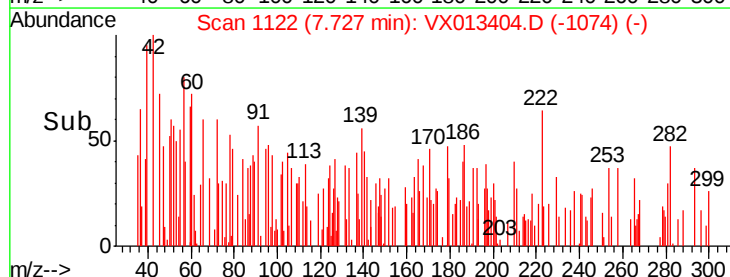
400

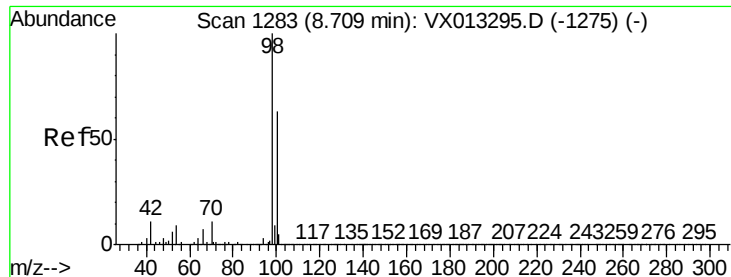
200

0

7.71 7.72 7.73 7.74

Time-->





#50

Toluene-d8

Concen: 49.888 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

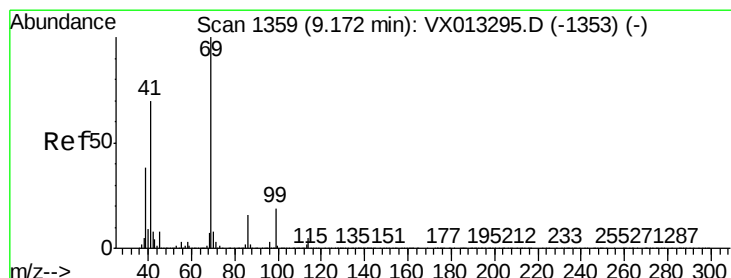
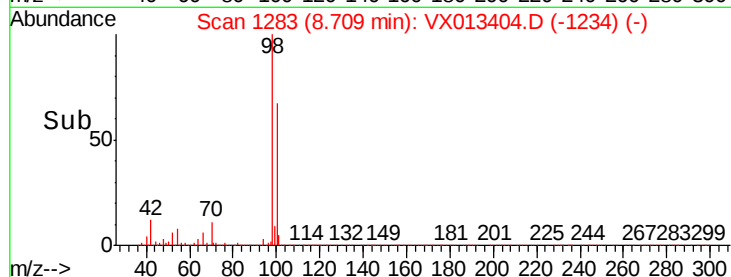
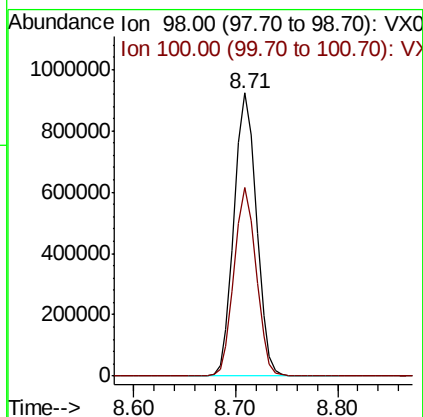
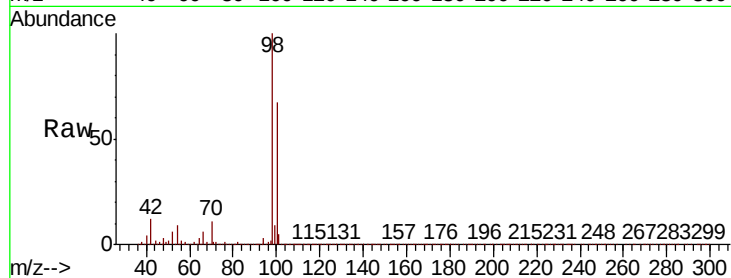
ClientSampleId :

Tot Ion: 98 Resp: 1405310

Ion Ratio Lower Upper

98 100

100 65.7 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.598 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

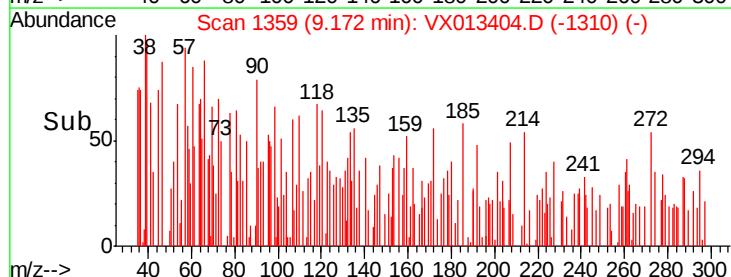
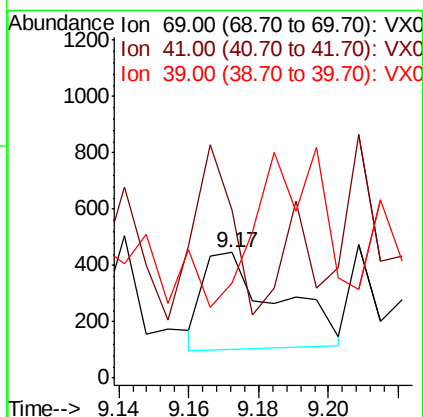
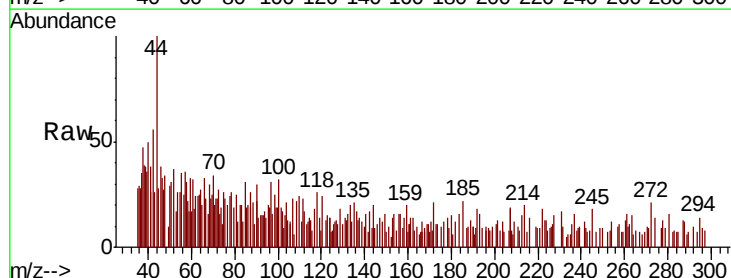
Tgt Ion: 69 Resp: 509

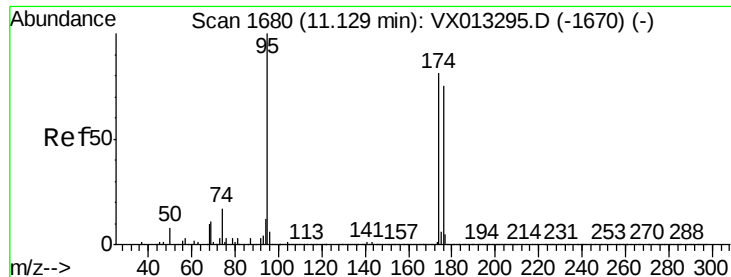
Ion Ratio Lower Upper

69 100

41 92.7 56.2 84.2#

39 0.0 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 46.785 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

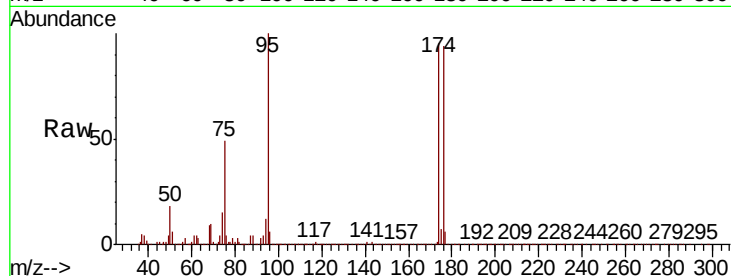
Tot Ion: 95 Resp: 475640

Ion Ratio Lower Upper

95 100

174 89.6 0.0 179.8

176 87.9 0.0 173.0



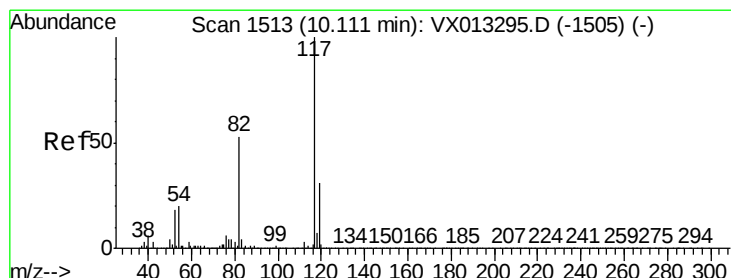
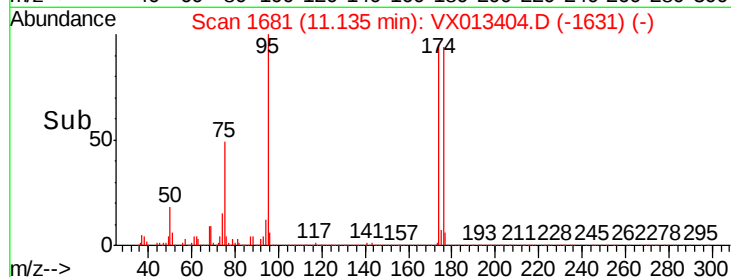
Abundance Ion 94.90 (94.60 to 95.60): VX013295.D (-1670) (-)

Ion 173.80 (173.50 to 174.50): VX013295.D (-1670) (-)

Ion 175.80 (175.50 to 176.50): VX013295.D (-1670) (-)

Time-->

11.05 11.10 11.15 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

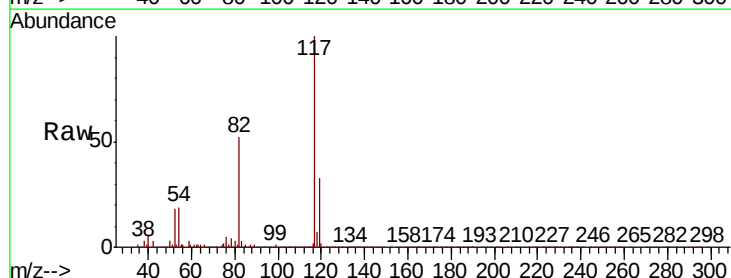
Tgt Ion: 117 Resp: 1058323

Ion Ratio Lower Upper

117 100

82 51.8 42.6 64.0

119 32.6 24.8 37.2



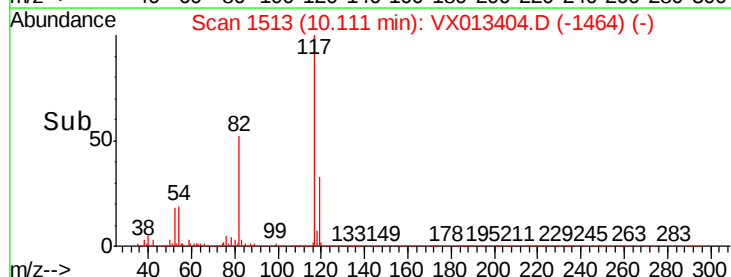
Abundance Ion 116.90 (116.60 to 117.60): VX013295.D (-1505) (-)

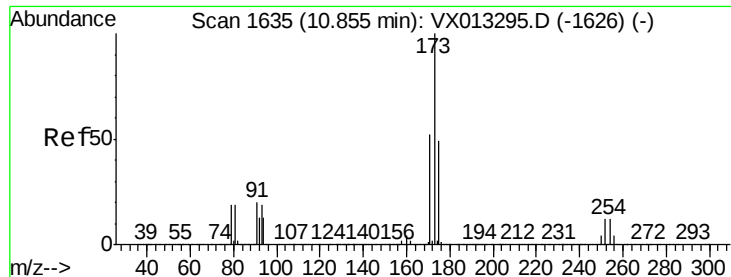
Ion 82.00 (81.70 to 82.70): VX013295.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX013295.D (-1505) (-)

Time-->

10.00 10.10 10.20

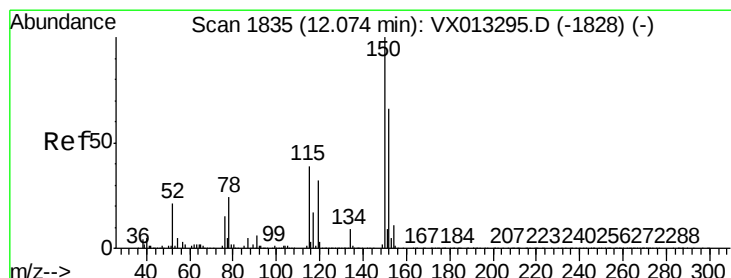
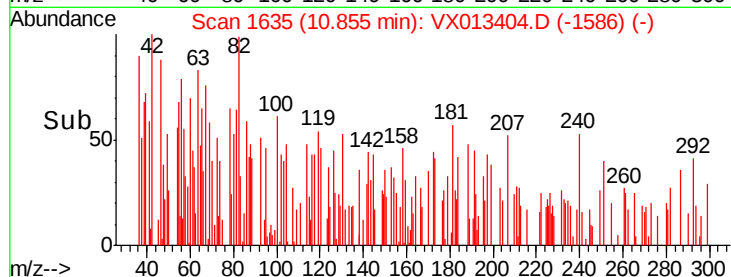
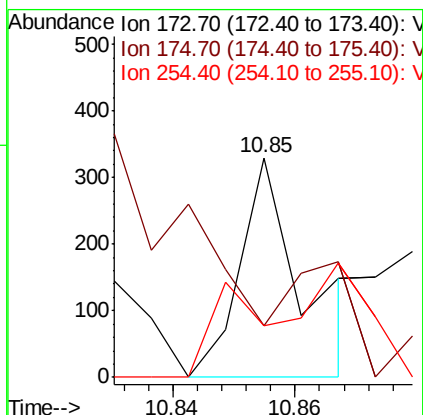
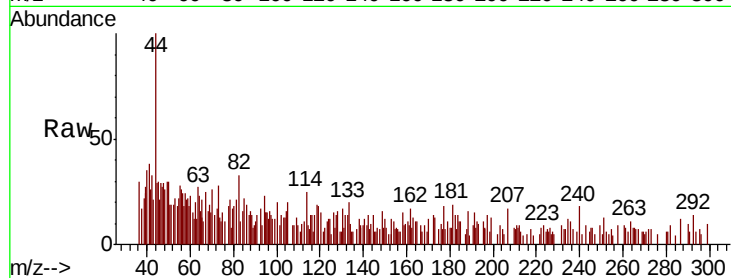




#71
Bromoform
Concen: 3.233 ug/l
RT: 10.85 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VX013404.D
Acq: 13 Nov 2019 13:58

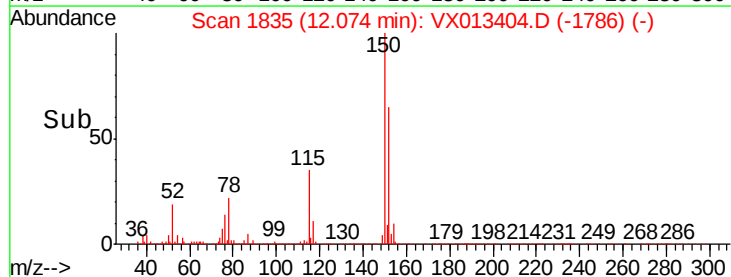
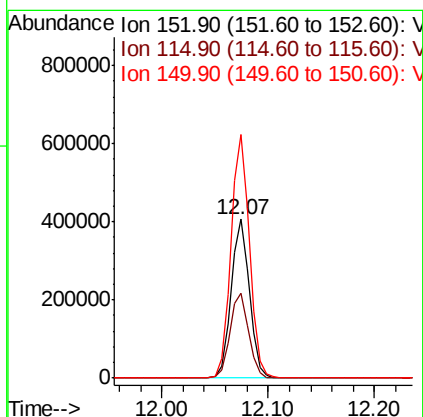
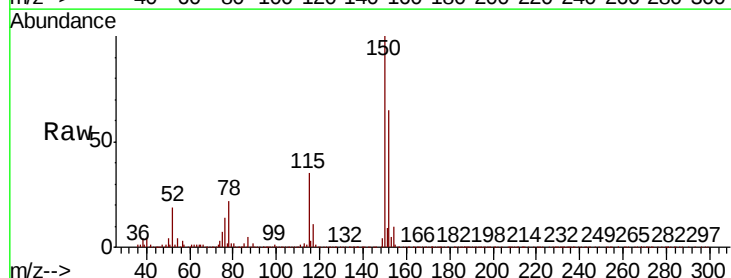
Instrument :
MSVOA_X
ClientSampled :

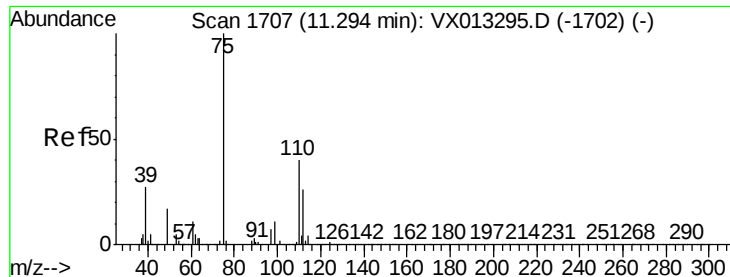
Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.8	74.4
254	89.4	0.2	0.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013404.D
Acq: 13 Nov 2019 13:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.3	39.5	118.3
150	154.6	0.0	344.4





#76

1,2,3-Trichloropropane

Concen: 23.457 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

Instrument :

MSVOA_X

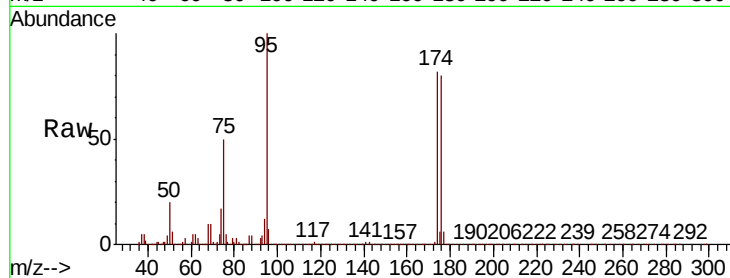
ClientSampleId :

Tot Ion: 75 Resp: 233364

Ion Ratio Lower Upper

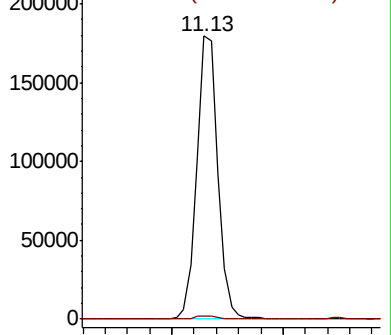
75 100

77 1.6 22.3 66.8#

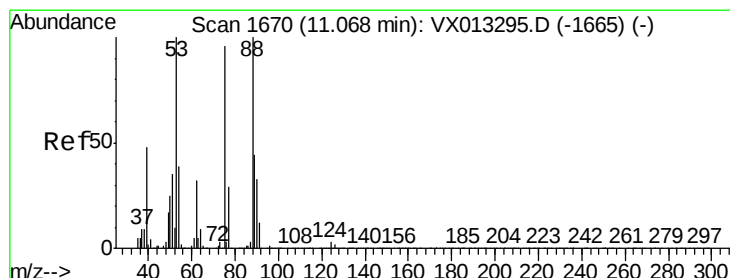
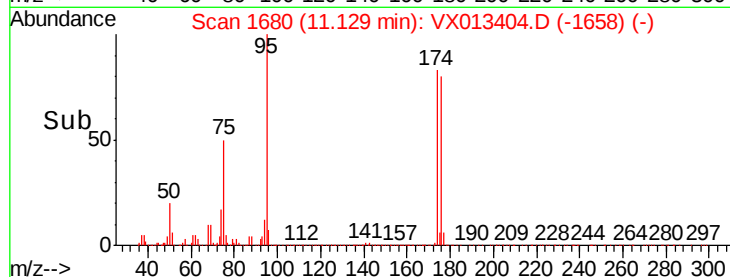


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 60.378 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013404.D

Acq: 13 Nov 2019 13:58

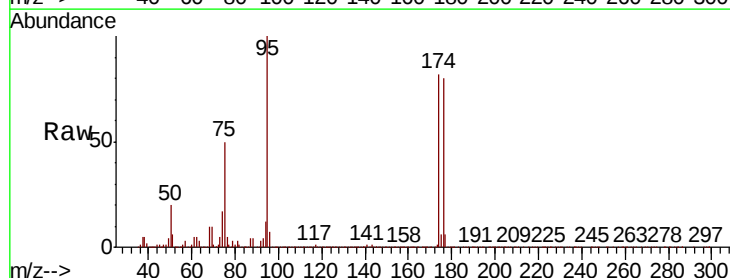
Tgt Ion: 75 Resp: 233364

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

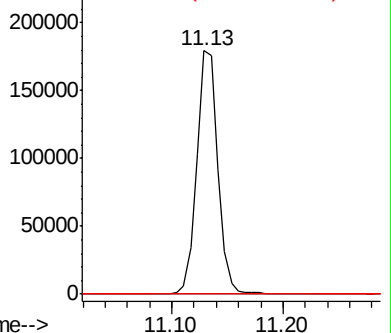
89 0.1 36.0 54.0#



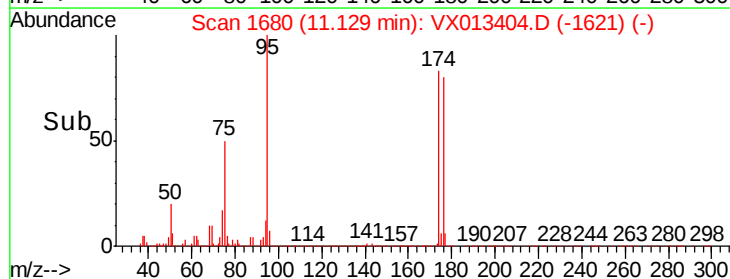
Abundance Ion 74.90 (74.60 to 75.60): VX0

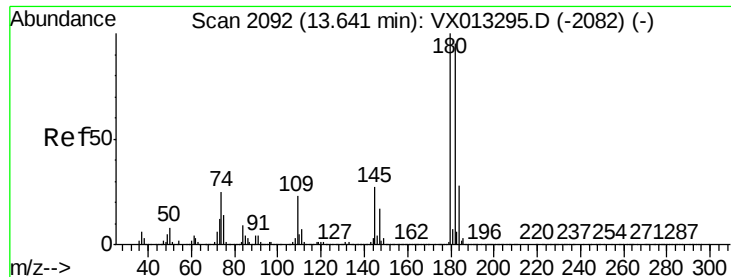
Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->

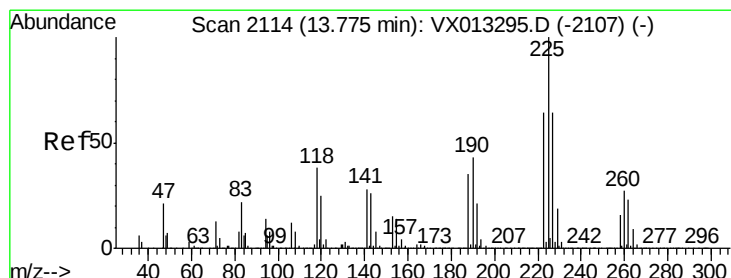
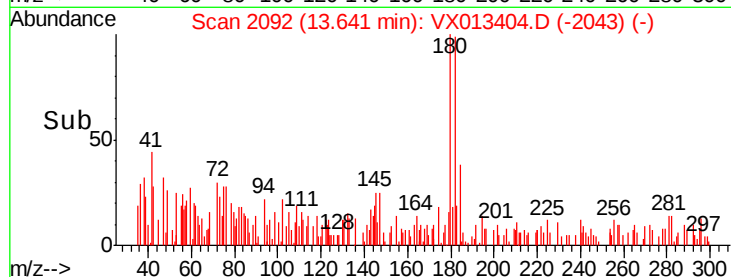
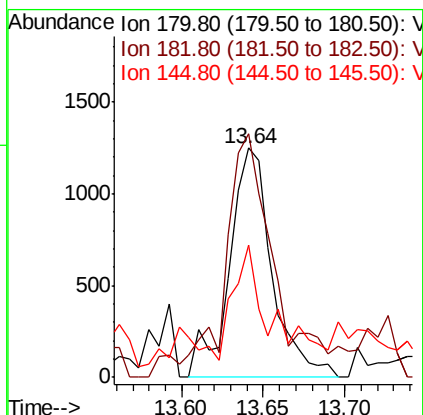
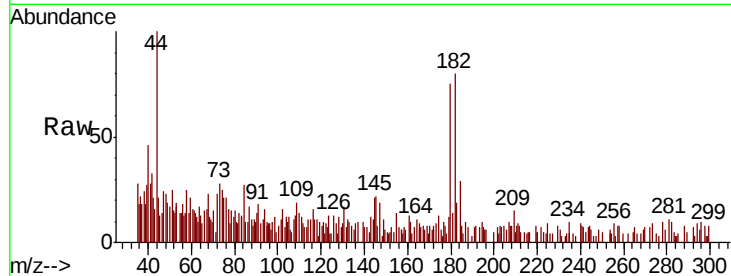




#93
 1,2,4-Trichlorobenzene
 Concen: 0.212 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013404.D
 Acq: 13 Nov 2019 13:58

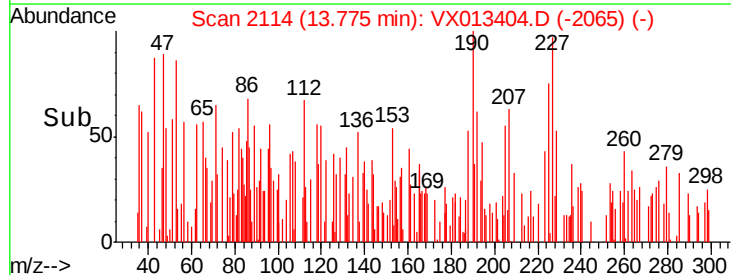
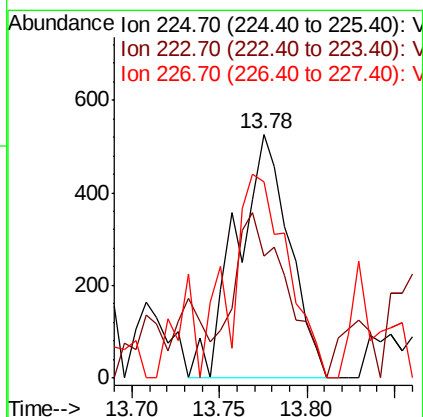
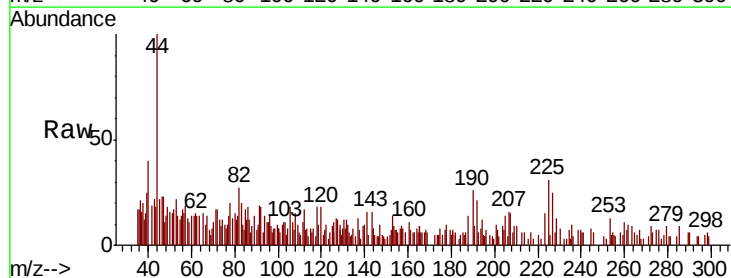
Instrument :
 MSVOA_X
 ClientSampleId :

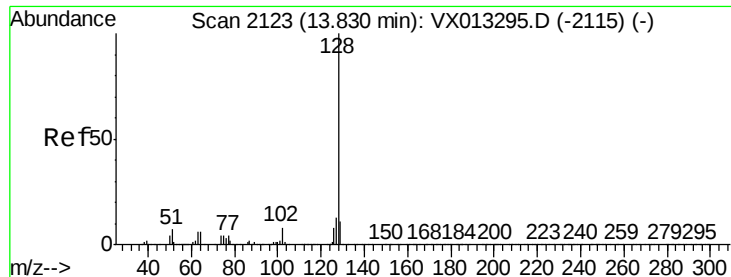
Tot Ion:180 Resp: 2281
 Ion Ratio Lower Upper
 180 100
 182 128.0 48.4 145.0
 145 58.1 14.1 42.4#



#94
 Hexachlorobutadiene
 Concen: 0.210 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VX013404.D
 Acq: 13 Nov 2019 13:58

Tgt Ion:225 Resp: 1104
 Ion Ratio Lower Upper
 225 100
 223 66.7 31.9 95.7
 227 89.3 31.9 95.9





#95
Naphthalene
Concen: 0.217 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013404.D
Acq: 13 Nov 2019 13:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.7	10.2	15.2
129	16.5	8.5	12.7#

