

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112019\
 Data File : VX013476.D
 Acq On : 20 Nov 2019 14:48
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 21 00:47:15 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	702347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1142613	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1013795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	465981	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	411882	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
35) Dibromofluoromethane	5.49	113	341266	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	8.71	98	1360256	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
62) 4-Bromofluorobenzene	11.13	95	456619	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	

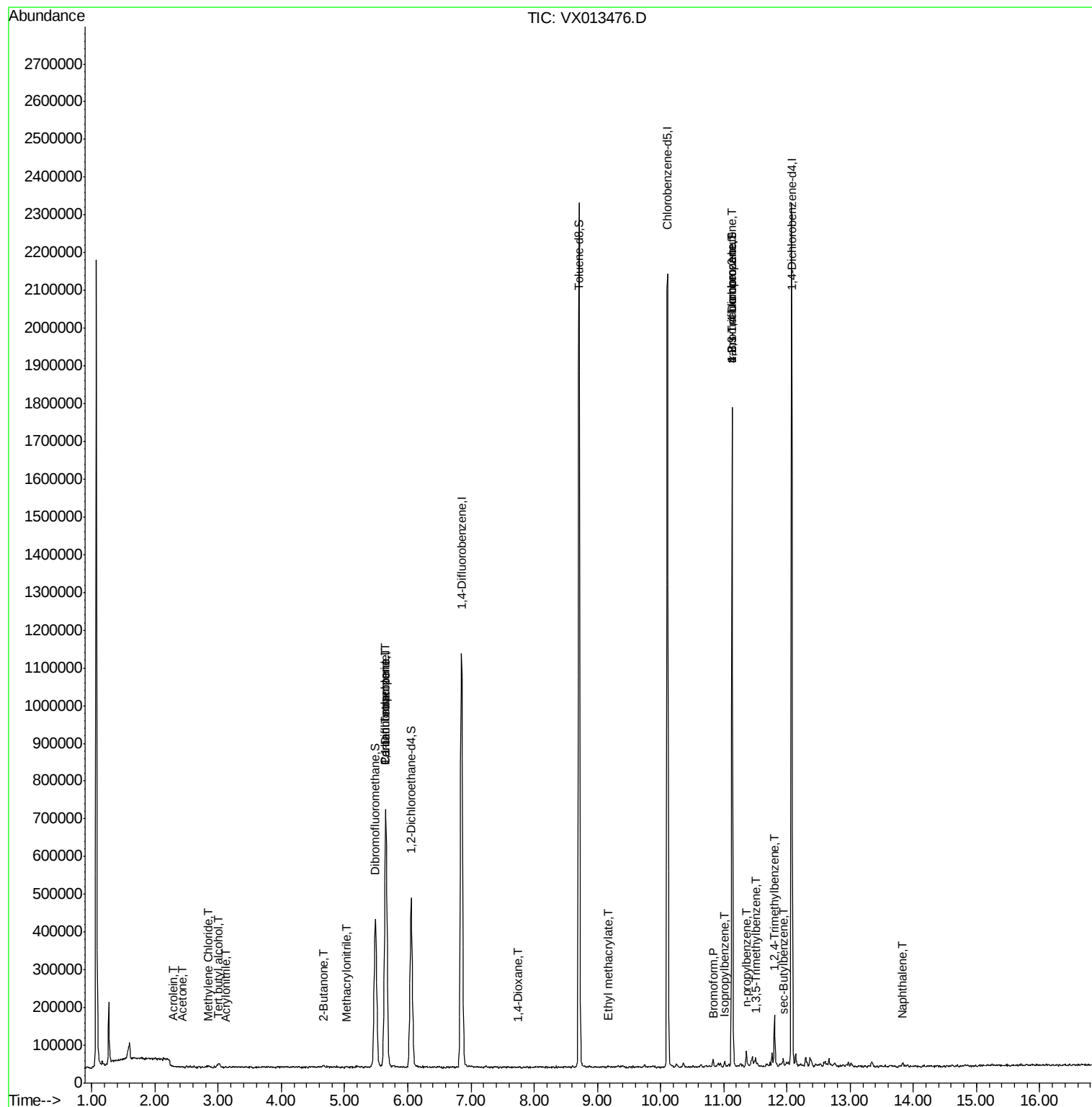
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.66	64	809	Below Cal		92
11) Tert butyl alcohol	3.01	59	8834	4.028	ug/l	95
13) Acrolein	2.29	56	395	0.332	ug/l #	65
15) Acrylonitrile	3.13	53	974	0.238	ug/l #	19
16) Acetone	2.43	43	1026	0.247	ug/l #	30
20) Methylene Chloride	2.84	84	2218	0.289	ug/l #	49
25) 2-Butanone	4.66	43	1256	0.206	ug/l #	79
36) 1,1-Dichloropropene	5.65	75	48417	4.939	ug/l #	51
38) Carbon Tetrachloride	5.65	117	61800	6.447	ug/l #	16
41) Methacrylonitrile	5.03	41	1540	0.227	ug/l #	33
49) 1,4-Dioxane	7.74	88	275	1.275	ug/l #	1
56) Ethyl methacrylate	9.17	69	323	1.586	ug/l #	22
71) Bromoform	10.85	173	237	3.234	ug/l #	28
73) Isopropylbenzene	11.01	105	8410	0.272	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	228544	24.147	ug/l #	33
78) n-propylbenzene	11.35	91	26055	0.757	ug/l	94
80) 1,3,5-Trimethylbenzene	11.50	105	10976	0.427	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	228544	62.154	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	63576	2.463	ug/l	96
85) sec-Butylbenzene	11.94	105	6040	0.203	ug/l	97
95) Naphthalene	13.83	128	6834	0.213	ug/l #	83

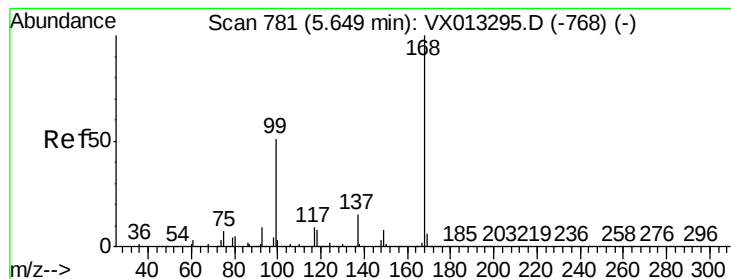
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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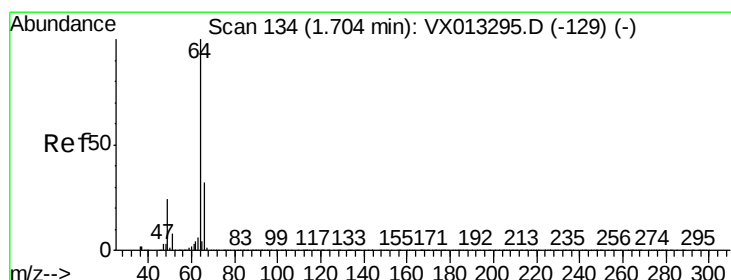
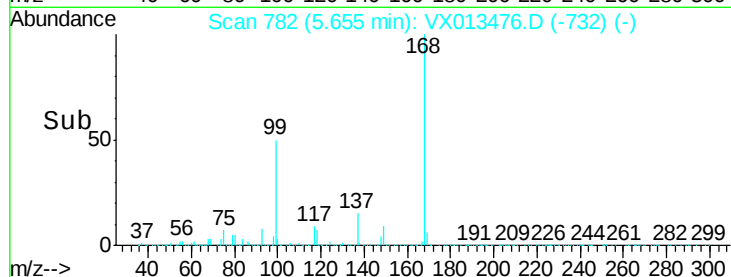
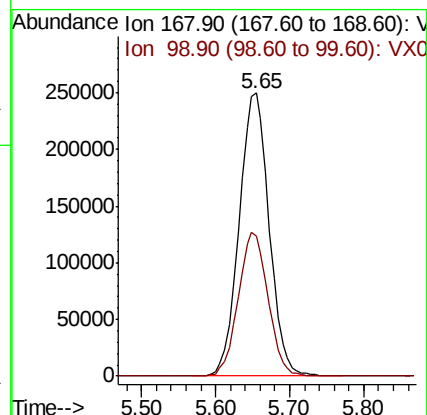
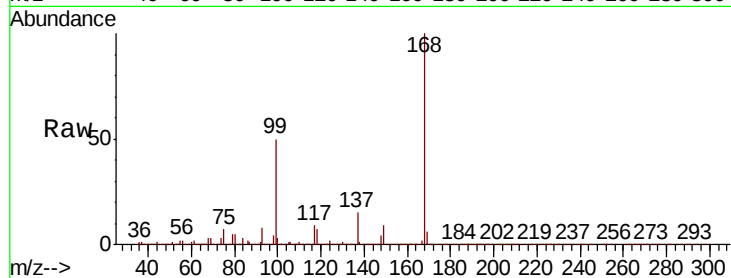


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VX013476.D
 Acq: 20 Nov 2019 14:48

Instrument :
 MSVOA_X
 ClientSampled :

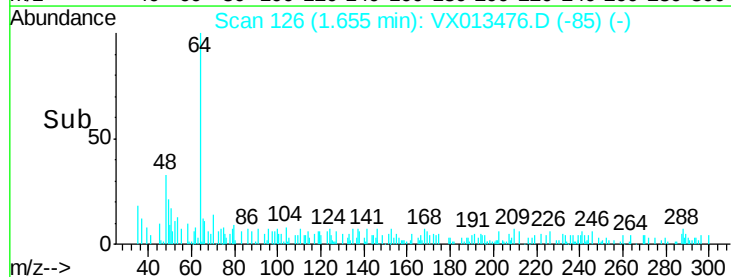
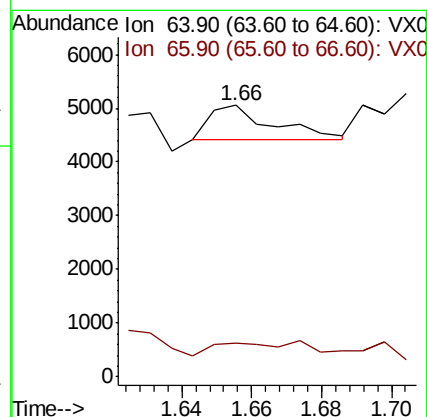
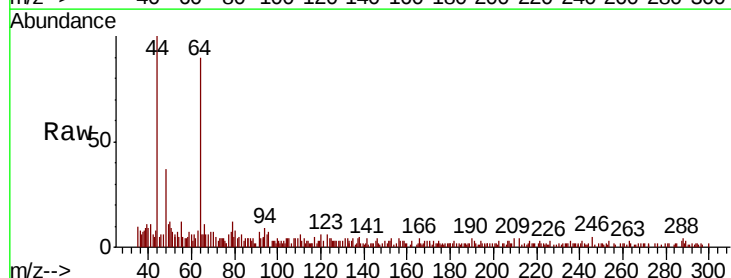
Tot Ion	Ratio	Lower	Upper
168	100		
99	49.5	40.8	61.2

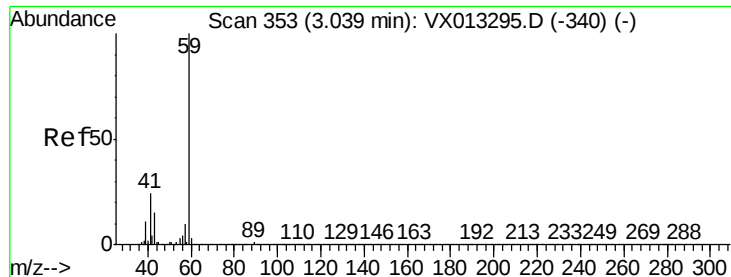


#6

Chloroethane
 Concen: Below Cal
 RT: 1.66 min Scan# 126
 Delta R.T. -0.05 min
 Lab File: VX013476.D
 Acq: 20 Nov 2019 14:48

Tgt Ion	Ratio	Lower	Upper
64	100		
66	36.2	25.6	38.4



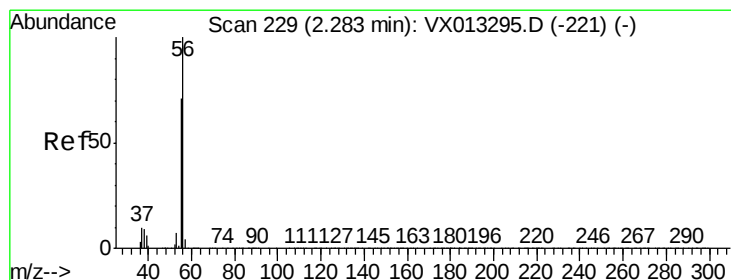
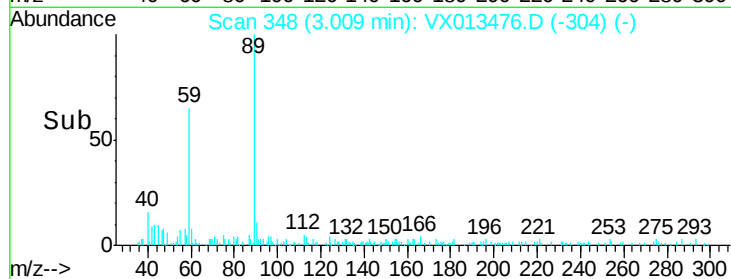
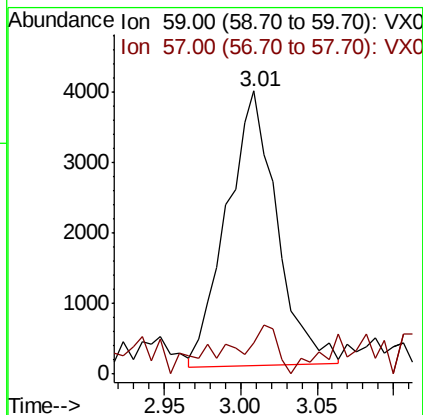
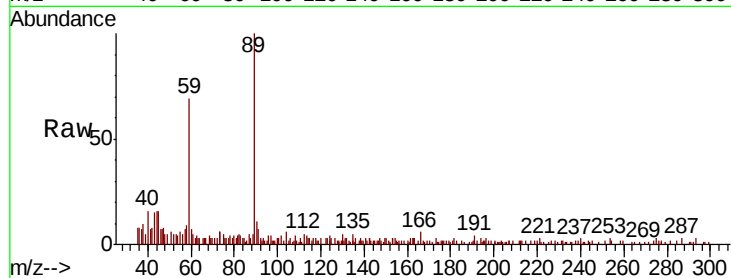


#11

Tert butyl alcohol
Concen: 4.028 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Instrument :
MSVOA_X
ClientSampled :

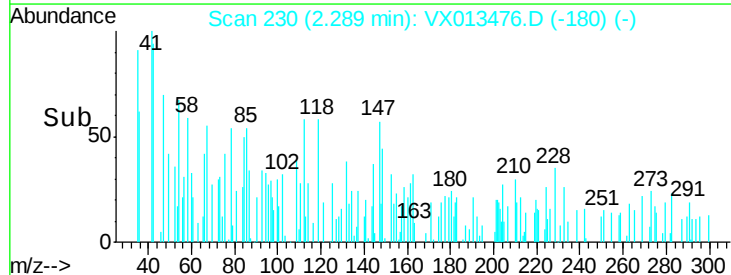
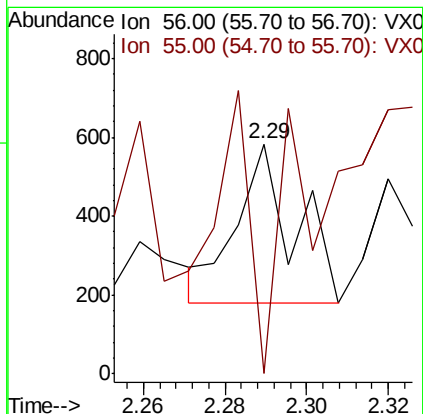
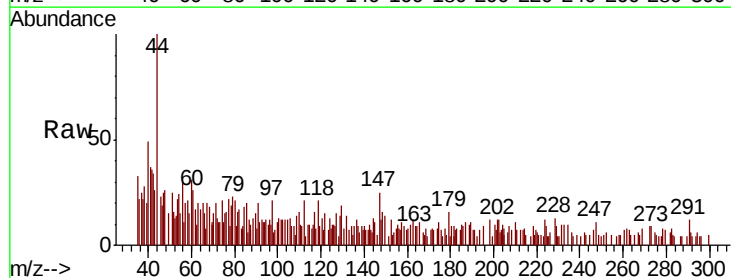
Tot Ion: 59 Resp: 8834
Ion Ratio Lower Upper
59 100
57 8.2 8.0 12.0

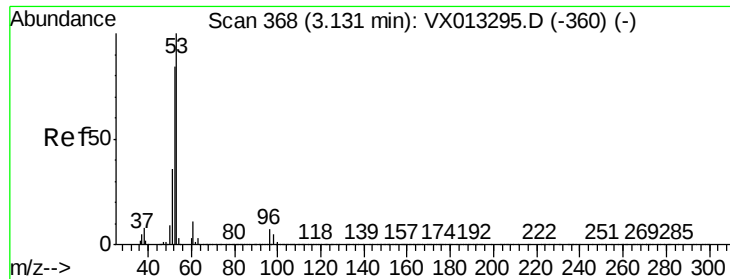


#13

Acrolein
Concen: 0.332 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Tgt Ion: 56 Resp: 395
Ion Ratio Lower Upper
56 100
55 100.8 57.4 86.0#





#15

Acrylonitrile

Concen: 0.238 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :
MSVOA_X
ClientSampled :

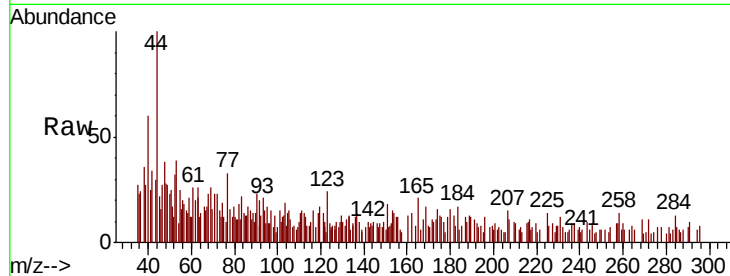
Tot Ion: 53 Resp: 974

Ion Ratio Lower Upper

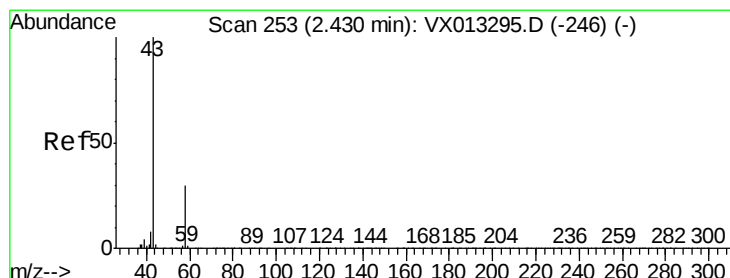
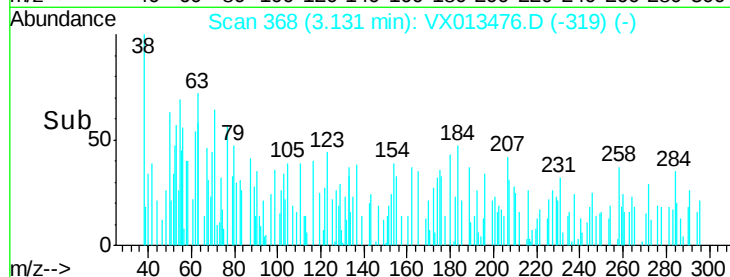
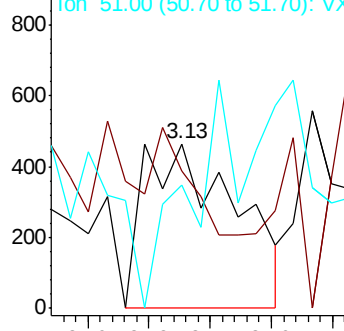
53 100

52 0.0 67.4 101.0#

51 68.2 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.247 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013476.D

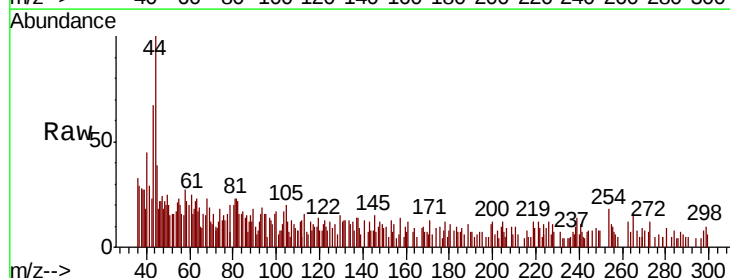
Acq: 20 Nov 2019 14:48

Tgt Ion: 43 Resp: 1026

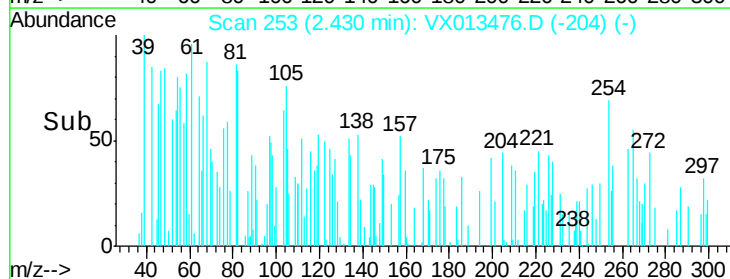
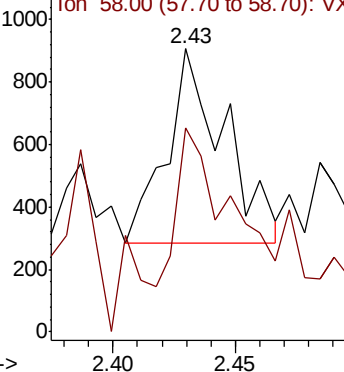
Ion Ratio Lower Upper

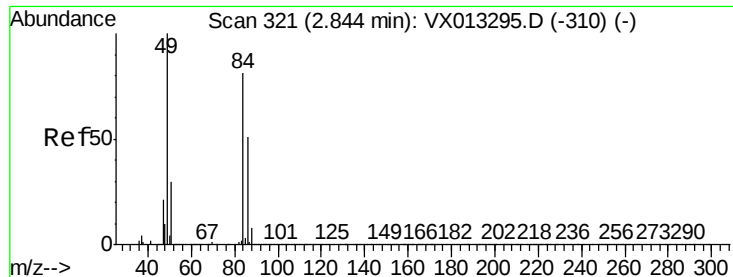
43 100

58 68.4 24.3 36.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

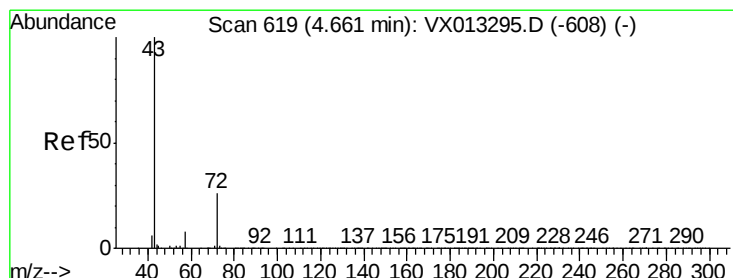
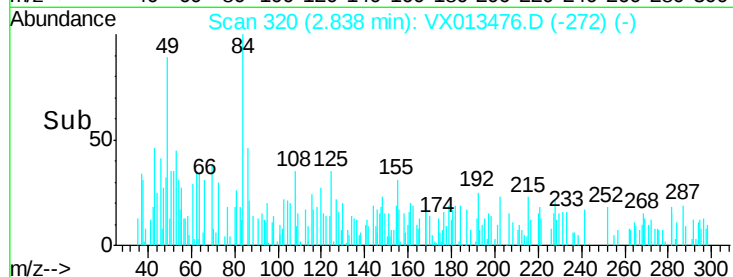
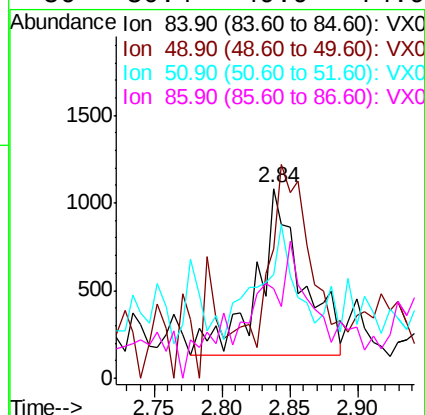
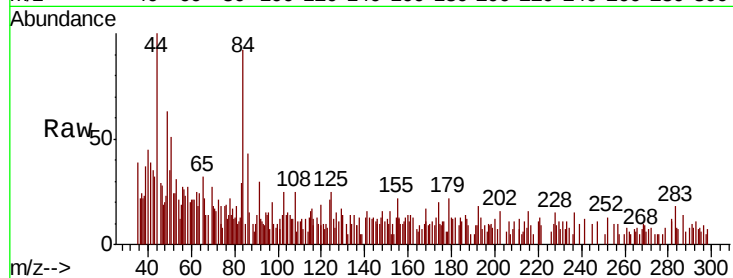




#20
Methvlene Chloride
Concen: 0.289 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

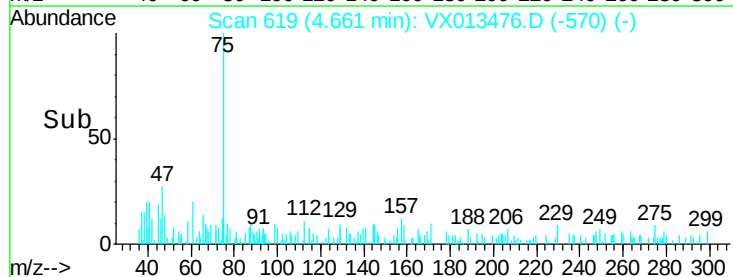
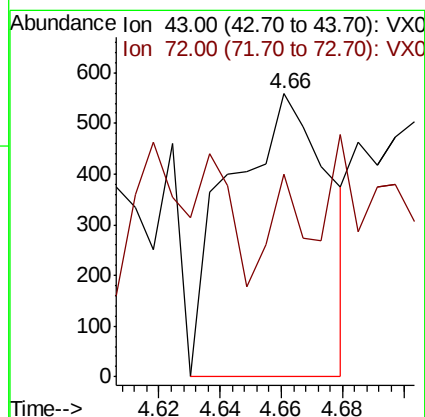
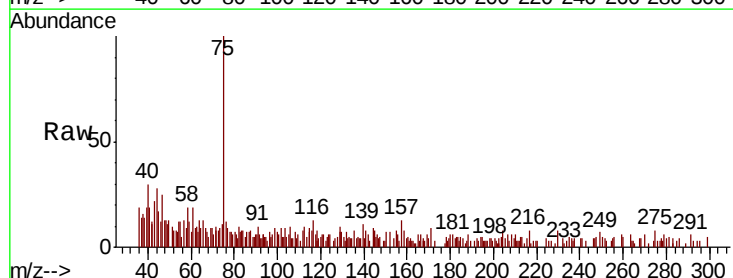
Instrument :
MSVOA_X
ClientSampleId :

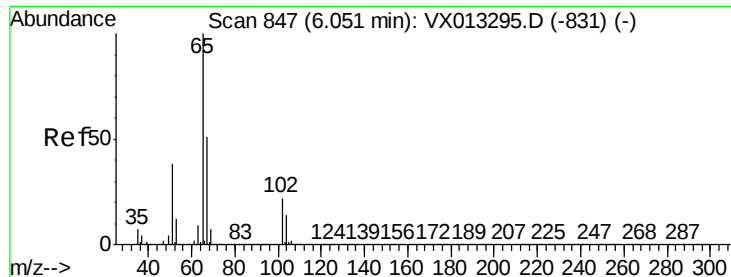
Tot Ion: 84 Resp: 2218
Ion Ratio Lower Upper
84 100
49 42.9 98.2 147.4#
51 35.0 29.9 44.9
86 30.4 49.9 74.9#



#25
2-Butanone
Concen: 0.206 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Tgt Ion: 43 Resp: 1256
Ion Ratio Lower Upper
43 100
72 15.4 21.0 31.6#





#33

1,2-Dichloroethane-d4

Concen: 49.501 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :

MSVOA_X

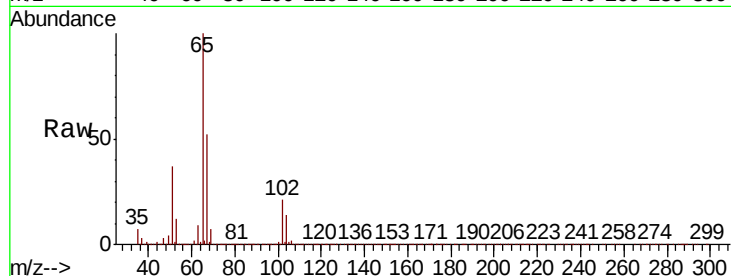
ClientSampleId :

Tot Ion: 65 Resp: 411882

Ion Ratio Lower Upper

65 100

67 52.6 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

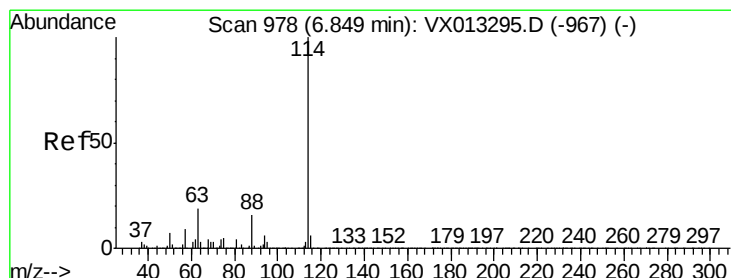
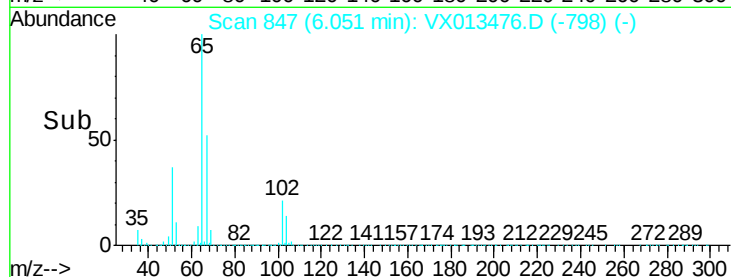
150000

100000

50000

0

Time--> 5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

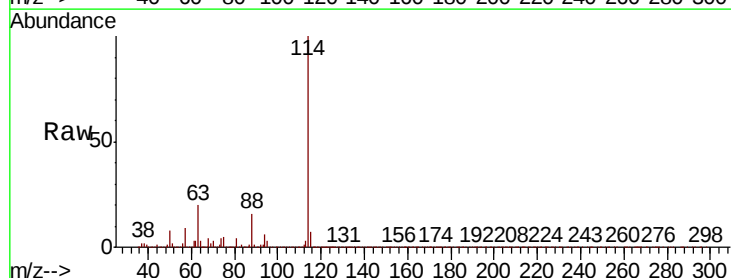
Tgt Ion: 114 Resp: 1142613

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.4

88 16.0 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

600000

500000

400000

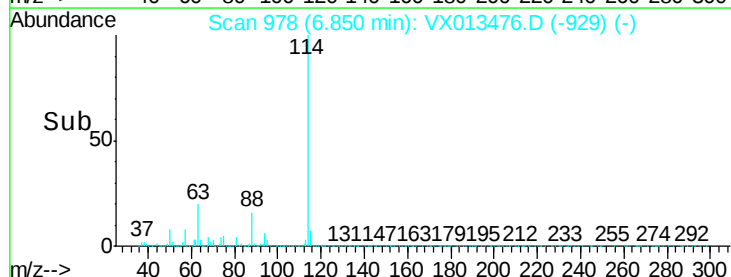
300000

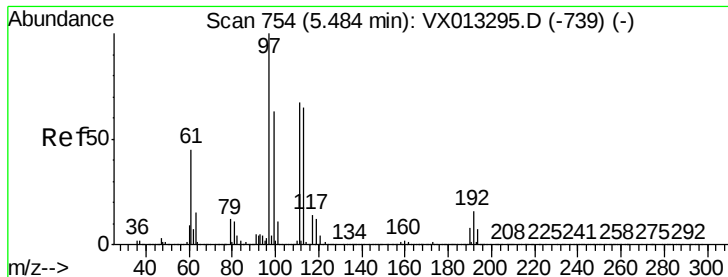
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.619 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :
MSVOA_X
ClientSampled :

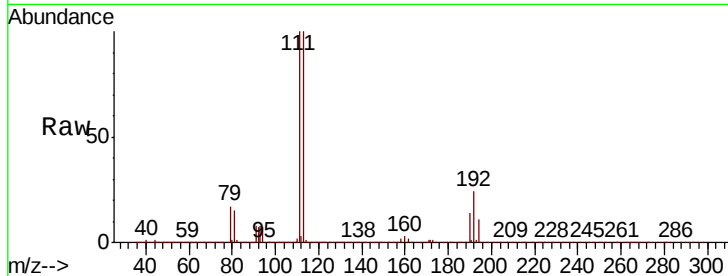
Tot Ion:113 Resp: 341266

Ion Ratio Lower Upper

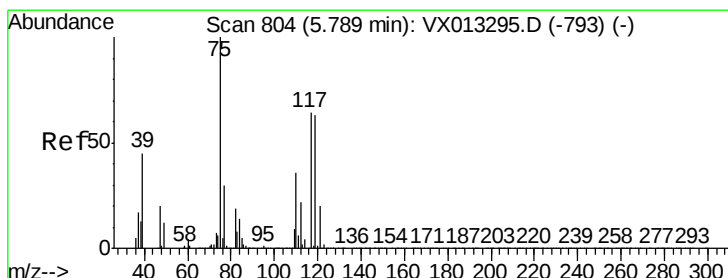
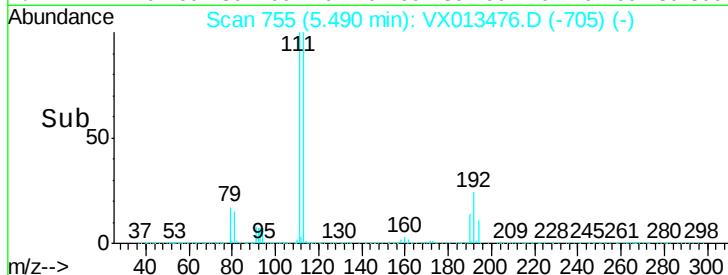
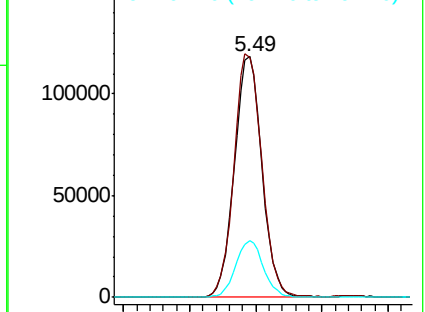
113 100

111 102.2 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: 4.939 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

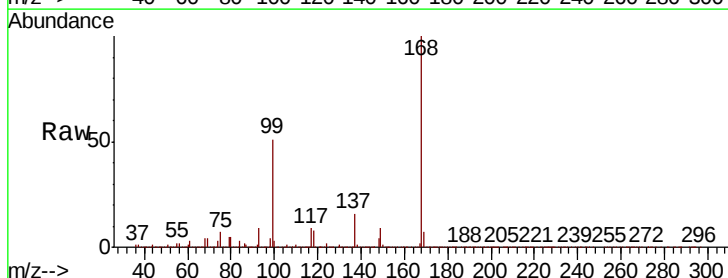
Tgt Ion: 75 Resp: 48417

Ion Ratio Lower Upper

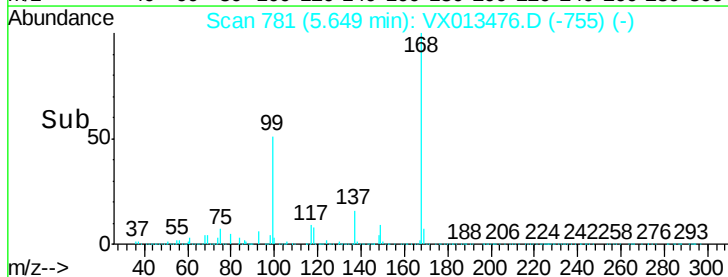
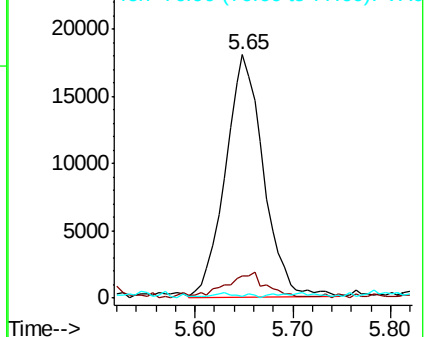
75 100

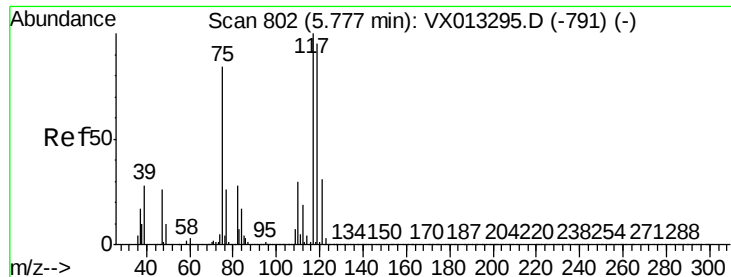
110 11.2 18.1 54.1#

77 0.0 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: 6.447 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

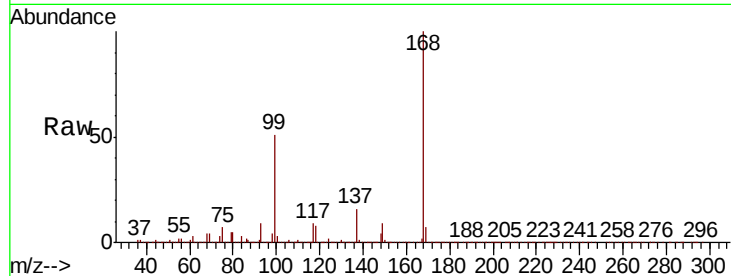
Tot Ion:117 Resp: 61800

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

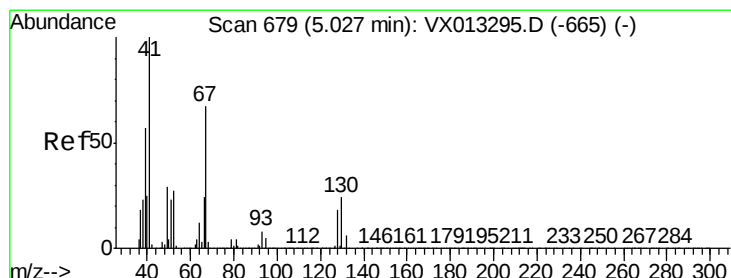
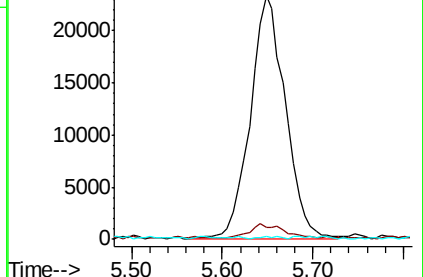
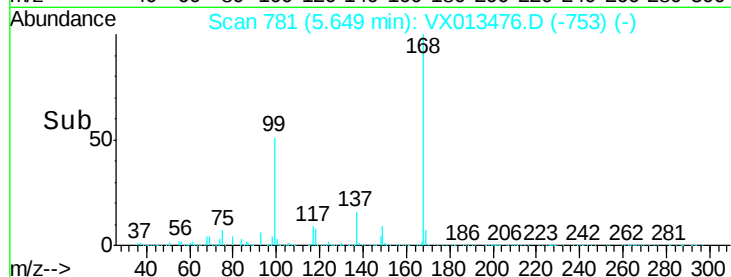
121 1.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.227 ug/l

RT: 5.03 min Scan# 680

Delta R.T. 0.01 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Tgt Ion: 41 Resp: 1540

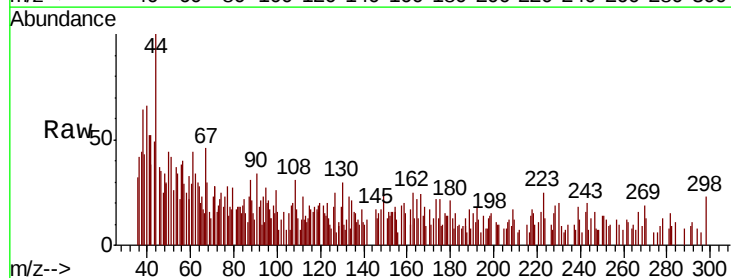
Ion Ratio Lower Upper

41 100

39 0.0 45.0 67.6#

67 16.6 55.4 83.2#

52 0.0 23.1 34.7#

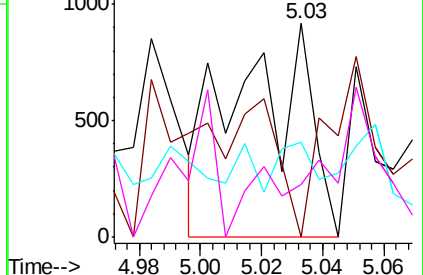
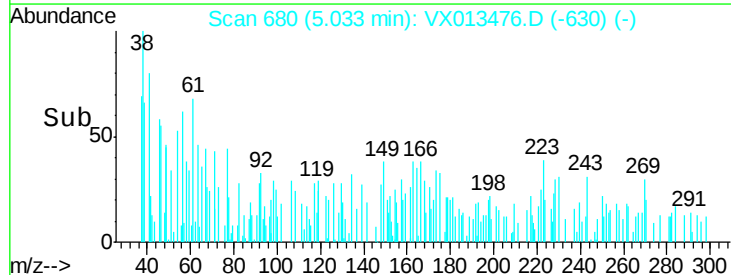


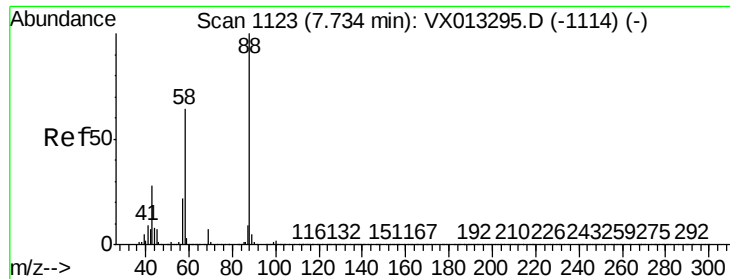
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 1.275 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

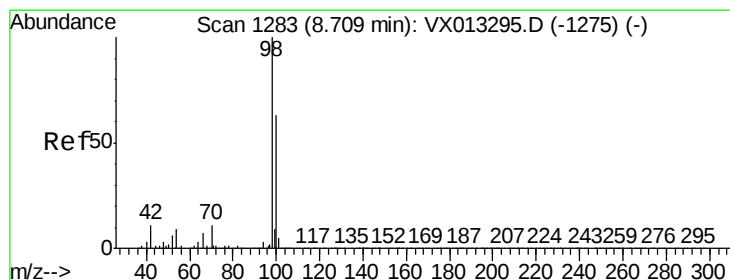
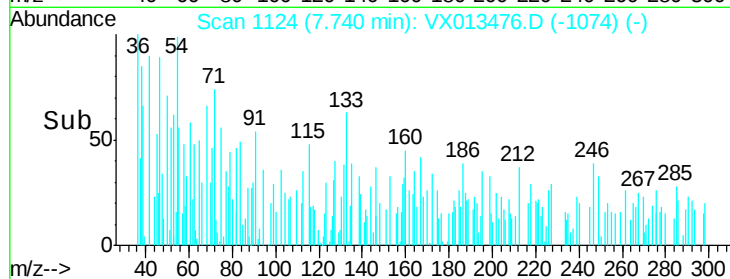
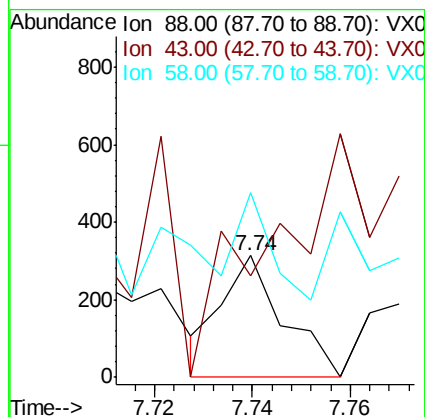
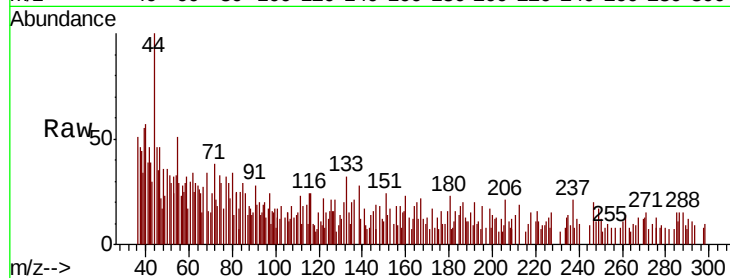
Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 275

Ion	Ratio	Lower	Upper
88	100		
43	538.5	26.6	39.8#
58	55.3	55.0	82.6



#50

Toluene-d8

Concen: 50.347 ug/l

RT: 8.71 min Scan# 1283

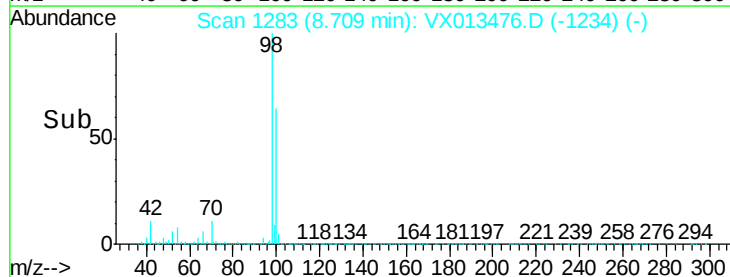
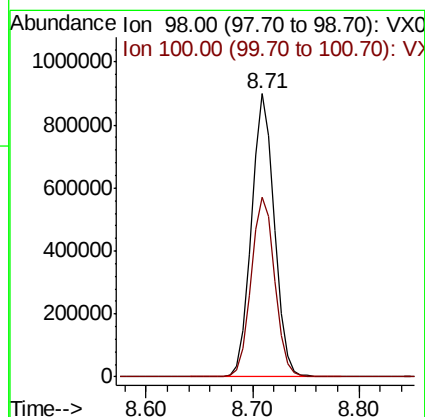
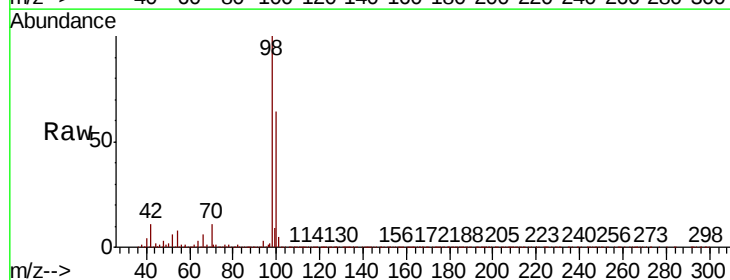
Delta R.T. 0.00 min

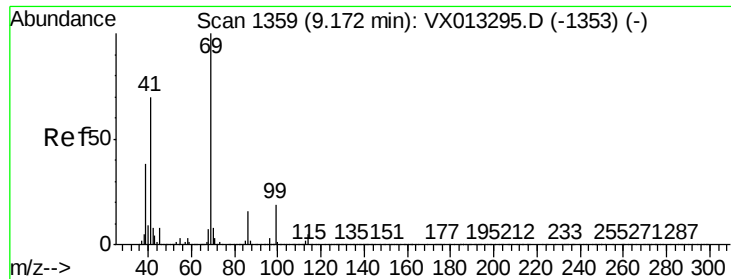
Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Tgt Ion: 98 Resp: 1360256

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.2	78.2

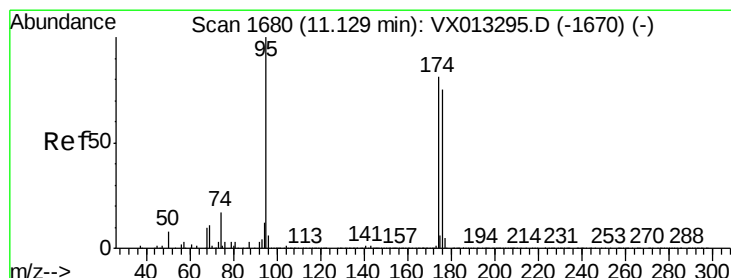
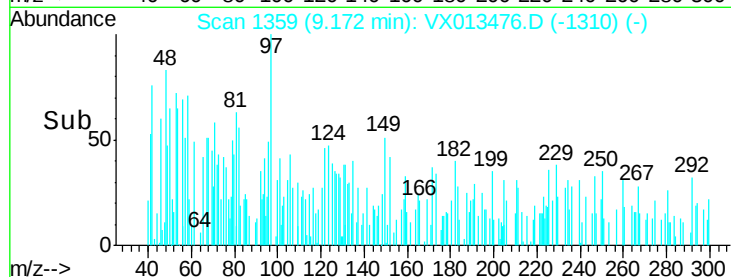
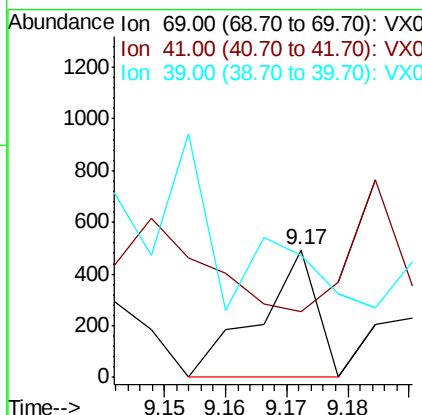
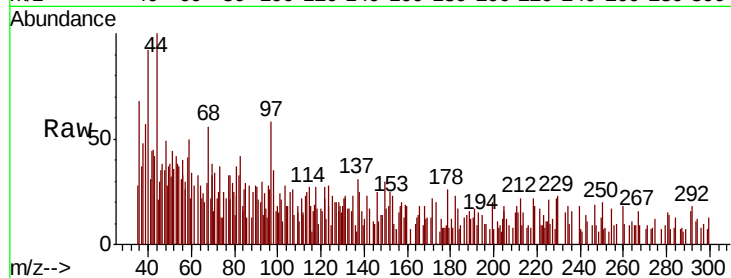




#56
Ethyl methacrylate
Concen: 1.586 ug/l
RT: 9.17 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

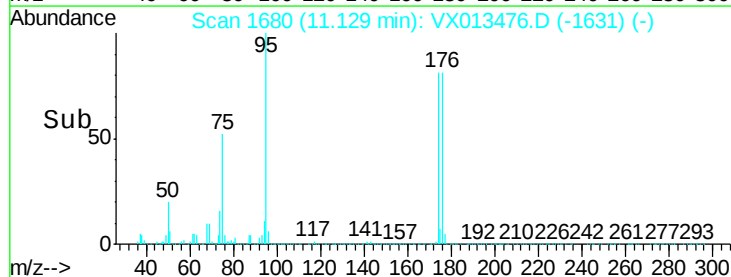
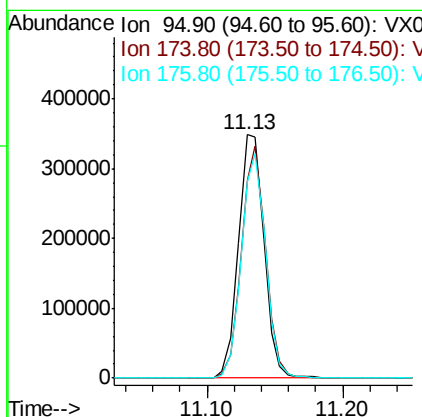
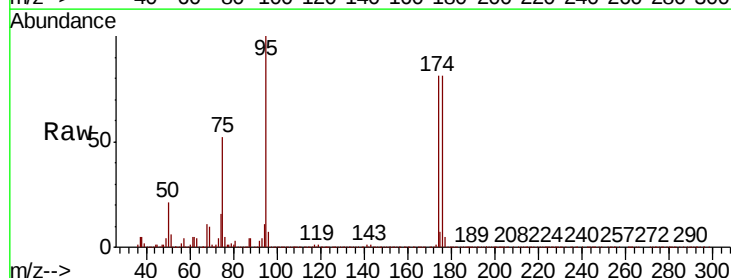
Instrument :
MSVOA_X
ClientSampled :

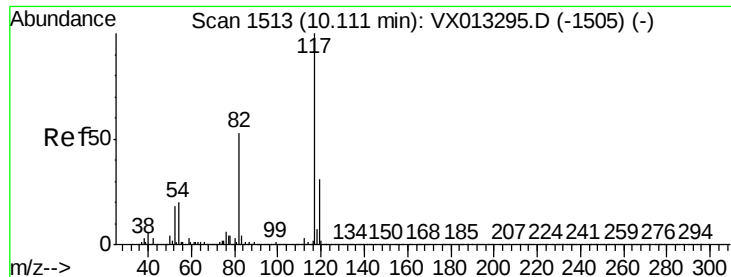
Tot Ion: 69 Resp: 323
Ion Ratio Lower Upper
69 100
41 0.0 56.2 84.2#
39 0.0 31.1 46.7#



#62
4-Bromofluorobenzene
Concen: 46.829 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Tgt Ion: 95 Resp: 456619
Ion Ratio Lower Upper
95 100
174 89.9 0.0 179.8
176 87.5 0.0 173.0

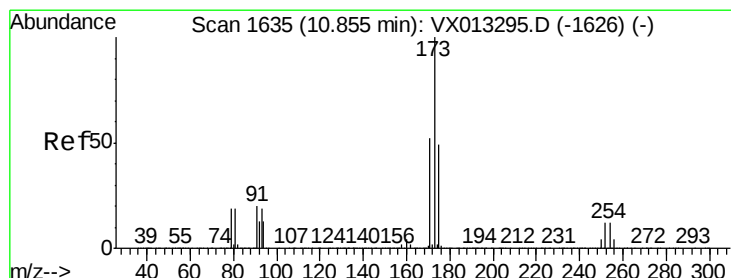
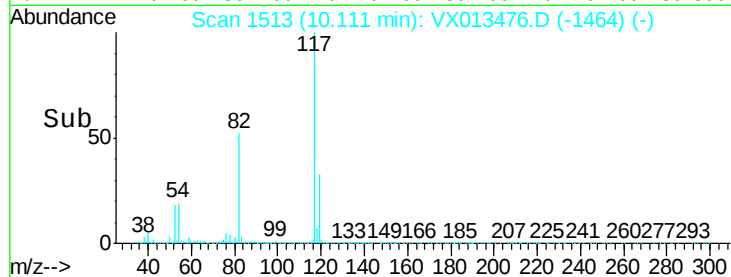
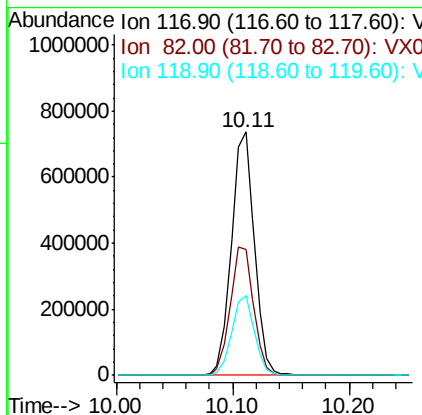
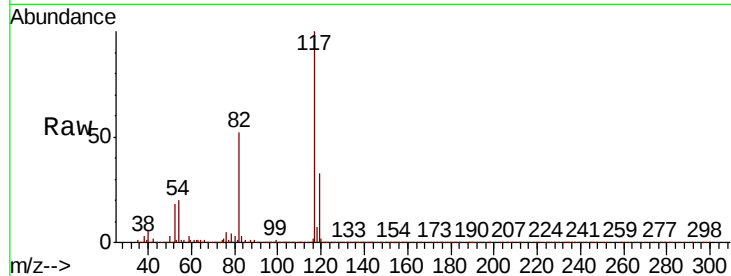




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

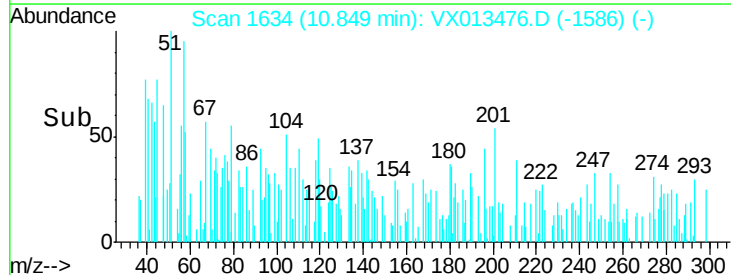
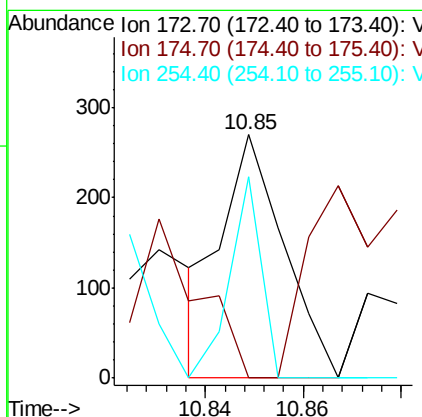
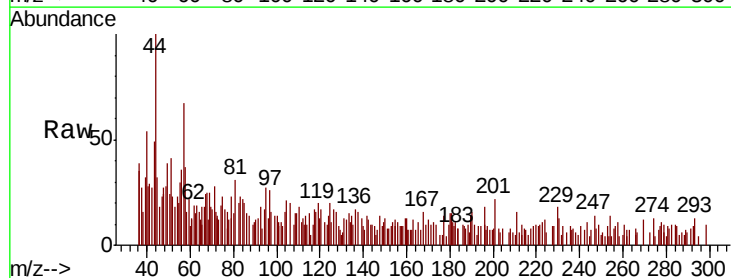
Instrument :
MSVOA_X
ClientSampleId :

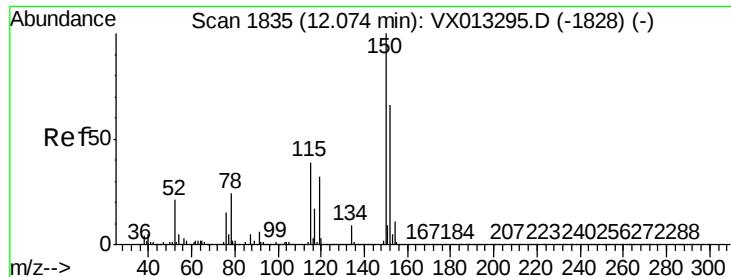
Tot Ion:117 Resp: 1013795
Ion Ratio Lower Upper
117 100
82 51.9 42.6 64.0
119 32.6 24.8 37.2



#71
Bromoform
Concen: 3.234 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Tgt Ion:173 Resp: 237
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 42.2 0.2 0.2#



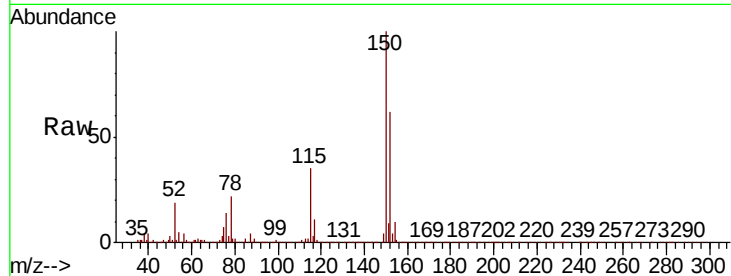


#72

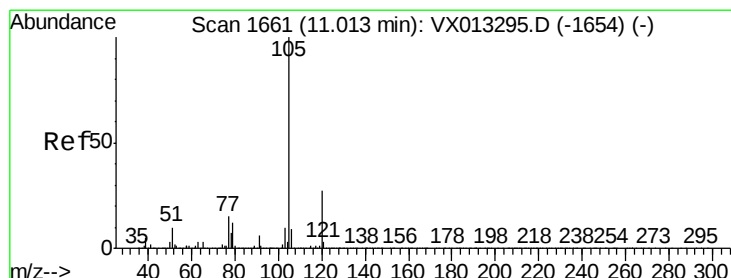
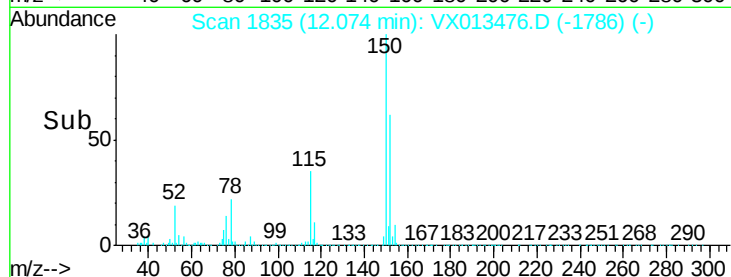
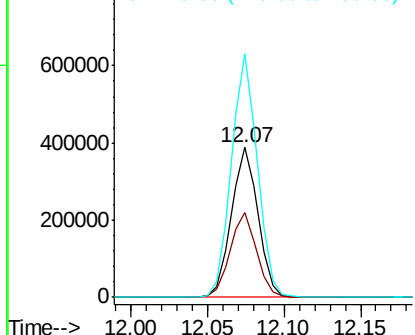
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.0	39.5	118.3
150	159.7	0.0	344.4



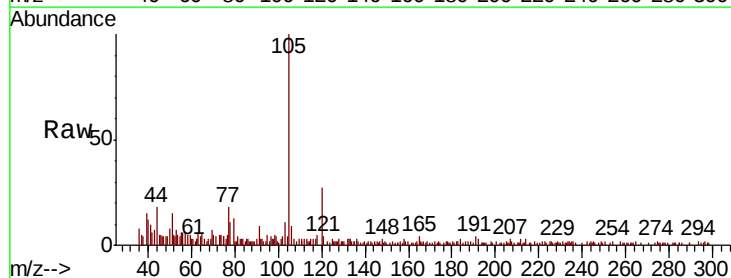
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



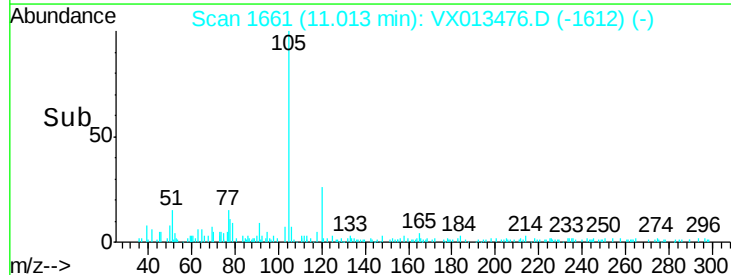
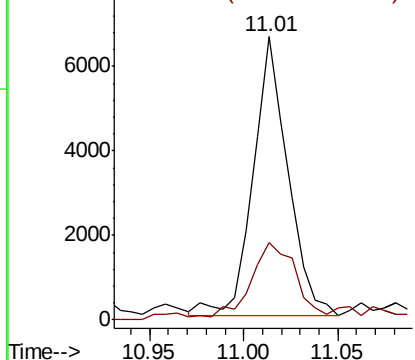
#73

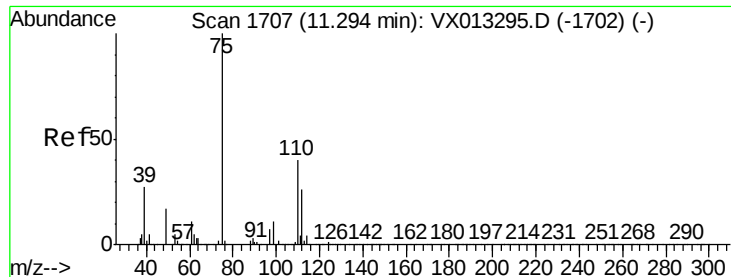
Isopropylbenzene
Concen: 0.272 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	33.1	13.5	40.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 24.147 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :

MSVOA_X

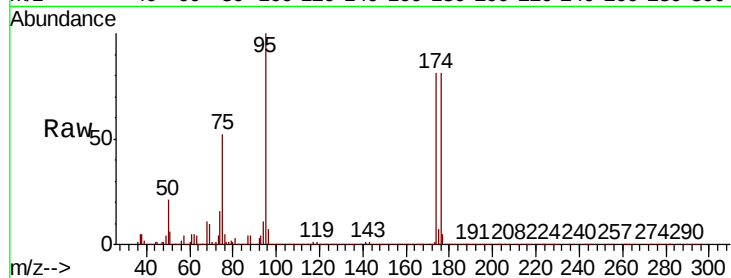
ClientSampled :

Tot Ion: 75 Resp: 228544

Ion Ratio Lower Upper

75 100

77 1.2 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

200000

150000

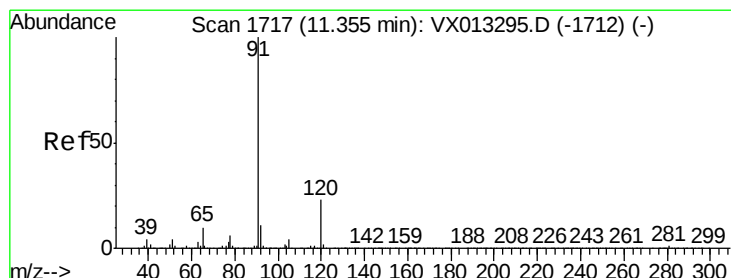
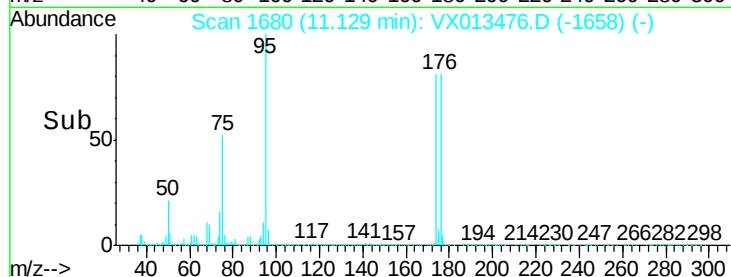
100000

50000

0

Time-->

11.10 11.20



#78

n-propylbenzene

Concen: 0.757 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013476.D

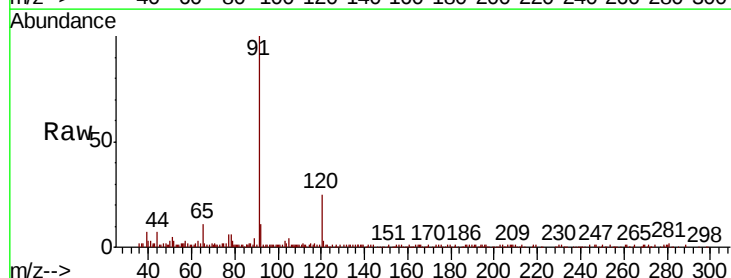
Acq: 20 Nov 2019 14:48

Tgt Ion: 91 Resp: 26055

Ion Ratio Lower Upper

91 100

120 26.3 11.6 34.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

25000

20000

15000

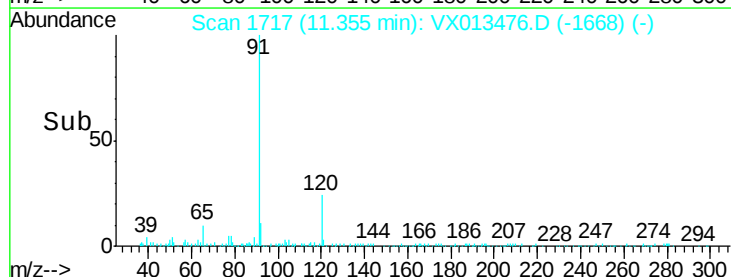
10000

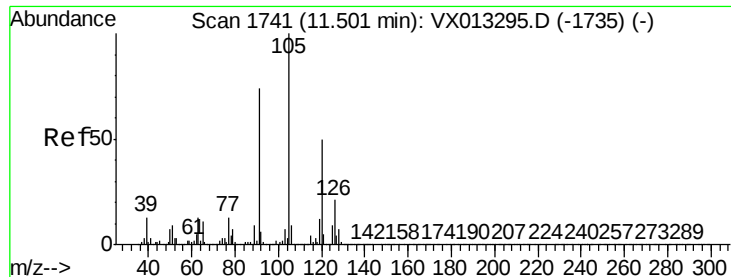
5000

0

Time-->

11.30 11.35 11.40





#80

1,3,5-Trimethylbenzene

Concen: 0.427 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :

MSVOA_X

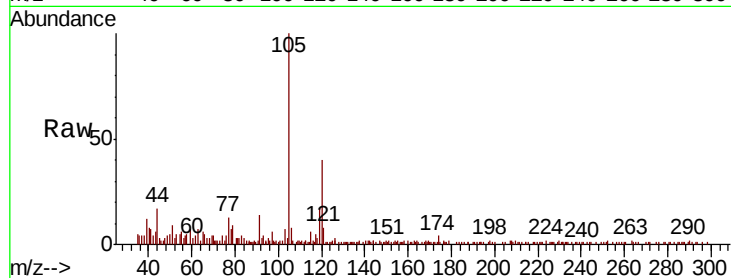
ClientSampleId :

Tot Ion:105 Resp: 10976

Ion Ratio Lower Upper

105 100

120 55.1 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12000

10000

8000

6000

4000

2000

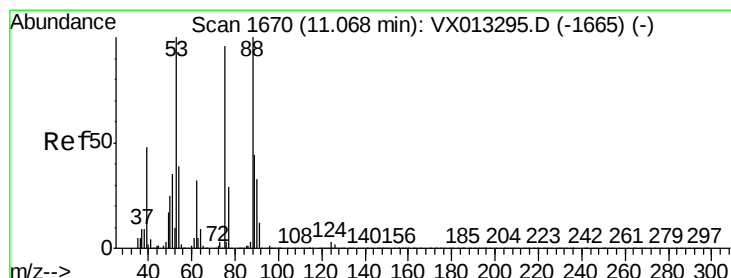
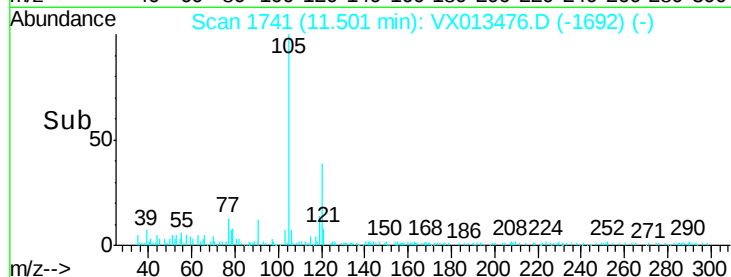
0

11.45

11.50

11.55

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 62.154 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

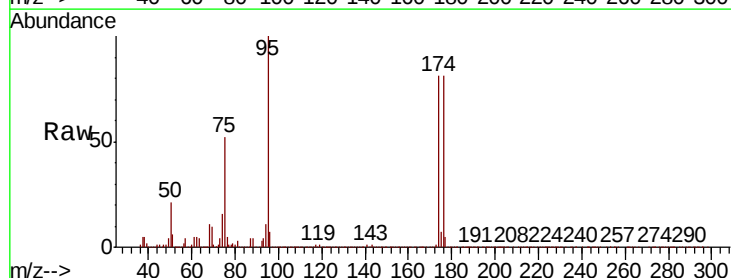
Tgt Ion: 75 Resp: 228544

Ion Ratio Lower Upper

75 100

53 0.0 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

250000

200000

150000

100000

50000

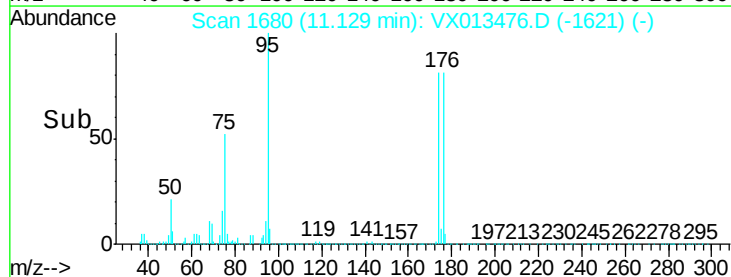
0

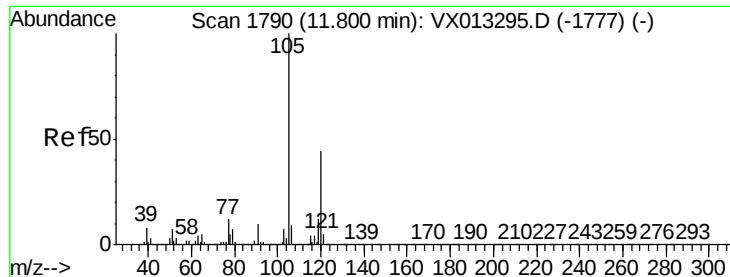
11.10

11.13

11.20

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 2.463 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX013476.D

Acq: 20 Nov 2019 14:48

Instrument :

MSVOA_X

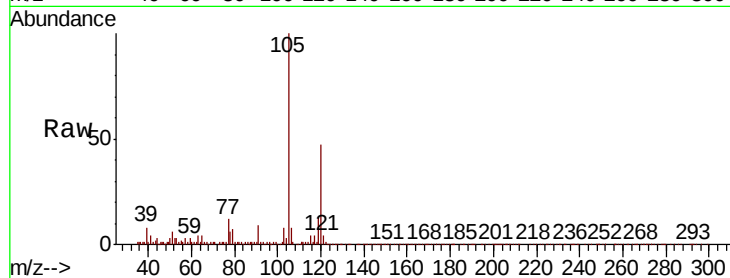
ClientSampled :

Tot Ion:105 Resp: 63576

Ion Ratio Lower Upper

105 100

120 48.3 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.81

60000

50000

40000

30000

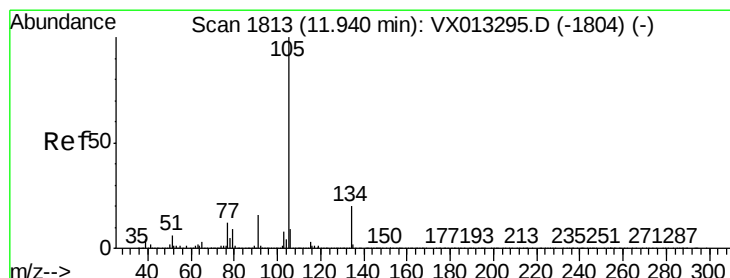
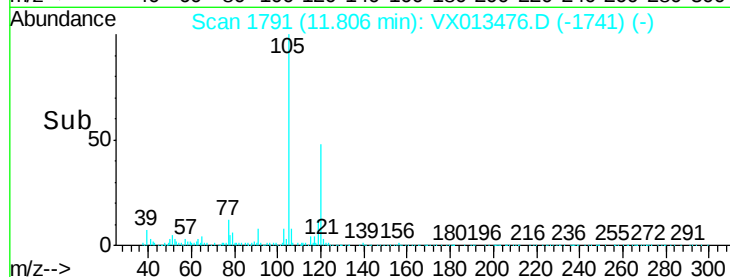
20000

10000

0

11.75 11.80 11.85

Time-->



#85

sec-Butylbenzene

Concen: 0.203 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013476.D

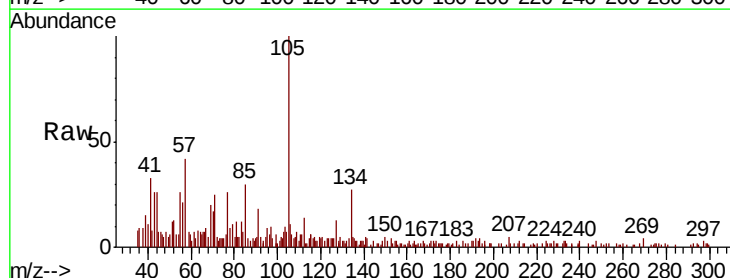
Acq: 20 Nov 2019 14:48

Tgt Ion:105 Resp: 6040

Ion Ratio Lower Upper

105 100

134 21.8 10.3 30.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

5000

4000

3000

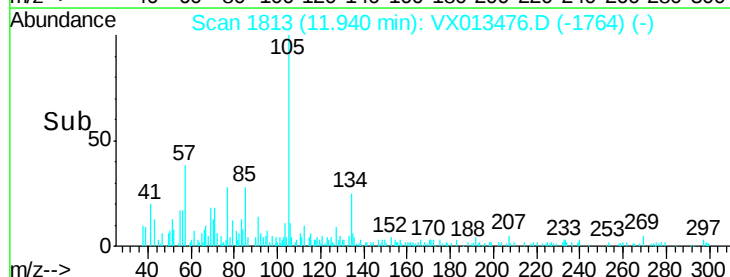
2000

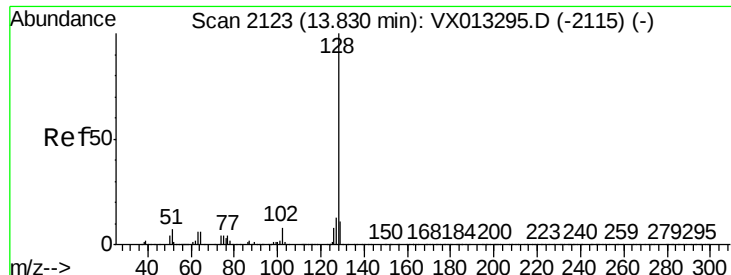
1000

0

11.90 11.95 12.00

Time-->





#95
Naphthalene
Concen: 0.213 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX013476.D
Acq: 20 Nov 2019 14:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 6834
Ion Ratio Lower Upper
128 100
127 14.7 10.2 15.2
129 22.3 8.5 12.7#

