

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX033020\
 Data File : VX015440.D
 Acq On : 30 Mar 2020 19:51
 Operator : JC/SP
 Sample : L2050-06 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 31 08:55:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1086004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1773821	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1708949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	884406	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	737359	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
35) Dibromofluoromethane	5.47	113	561659	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
50) Toluene-d8	8.70	98	2173244	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	
62) 4-Bromofluorobenzene	11.12	95	912014	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	

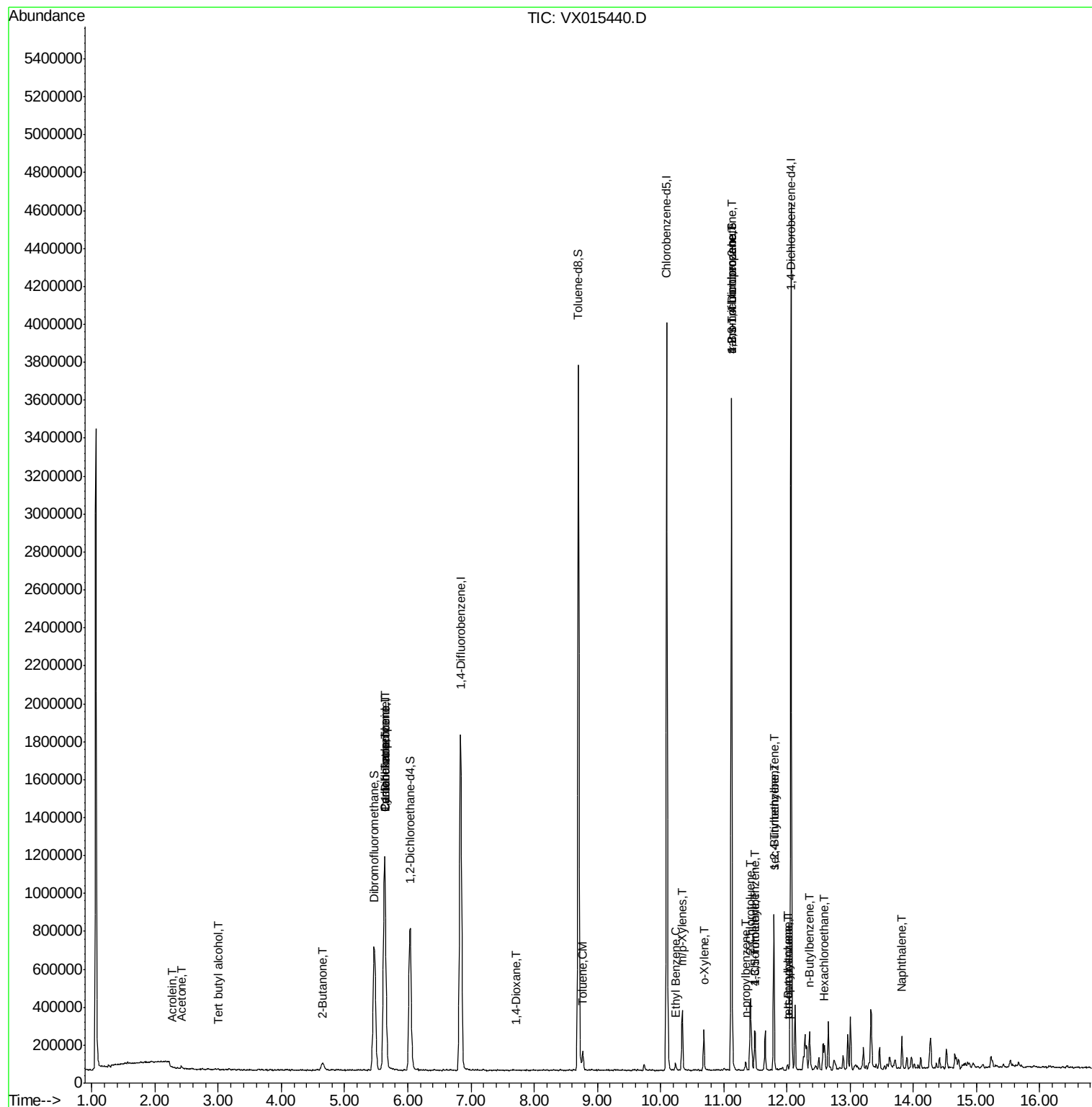
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	387	Below Cal	#	12
11) Tert butyl alcohol	3.00	59	4153	1.133	ug/l #	79
13) Acrolein	2.28	56	676	0.324	ug/l #	40
16) Acetone	2.42	43	17791	2.704	ug/l	94
25) 2-Butanone	4.65	43	6058	0.572	ug/l #	84
31) Cyclohexane	5.63	56	23984	1.237	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	82887	5.071	ug/l #	52
38) Carbon Tetrachloride	5.63	117	103152	5.827	ug/l #	15
49) 1,4-Dioxane	7.71	88	86	0.257	ug/l #	1
52) Toluene	8.77	92	36886	1.250	ug/l	96
67) Ethyl Benzene	10.24	91	23518	0.389	ug/l	92
68) m/p-Xylenes	10.34	106	72278	3.211	ug/l	98
69) o-Xylene	10.68	106	46726	2.101	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	478509	26.310	ug/l #	35
78) n-propylbenzene	11.35	91	28811	0.435	ug/l	98
79) 2-Chlorotoluene	11.42	91	31350	0.772	ug/l #	45
80) 1,3,5-Trimethylbenzene	11.49	105	87951	1.777	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	478509	63.131	ug/l #	10
82) 4-Chlorotoluene	11.50	91	10212	0.214	ug/l #	68
83) tert-Butylbenzene	12.01	119	14149	0.293	ug/l	71
84) 1,2,4-Trimethylbenzene	11.79	105	348749	6.915	ug/l	99
85) sec-Butylbenzene	11.79	105	348749	6.238	ug/l #	56
86) p-Isopropyltoluene	12.01	119	14149	0.273	ug/l	90
89) n-Butylbenzene	12.37	91	28220	0.602	ug/l #	23
90) Hexachloroethane	12.59	117	4184	0.414	ug/l #	13
95) Naphthalene	13.82	128	97681	1.495	ug/l	98

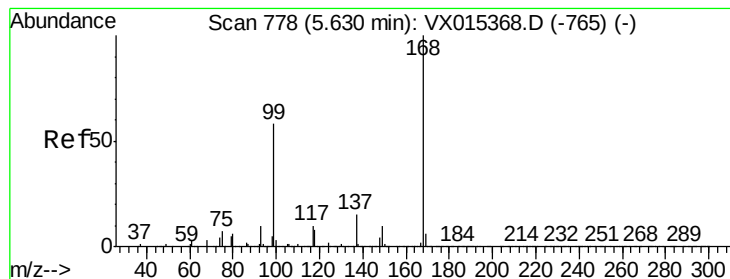
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 31 08:55:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

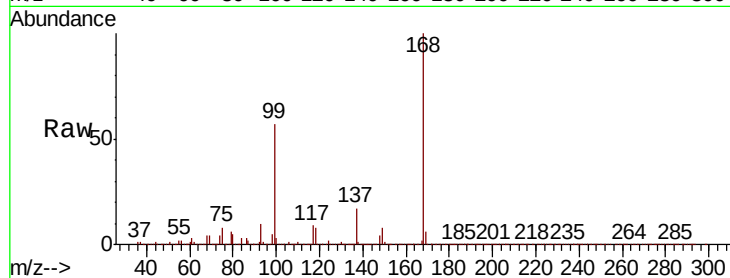
ClientSampleId :

Tot Ion:168 Resp: 1086004

Ion Ratio Lower Upper

168 100

99 57.1 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

400000

300000

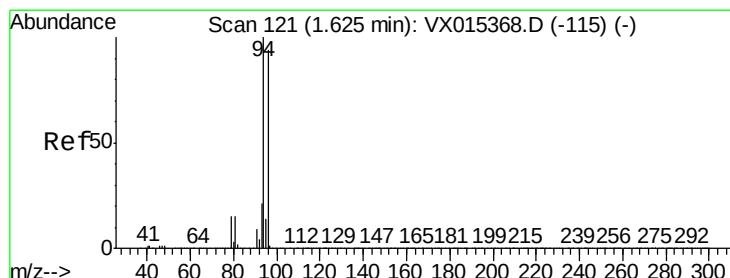
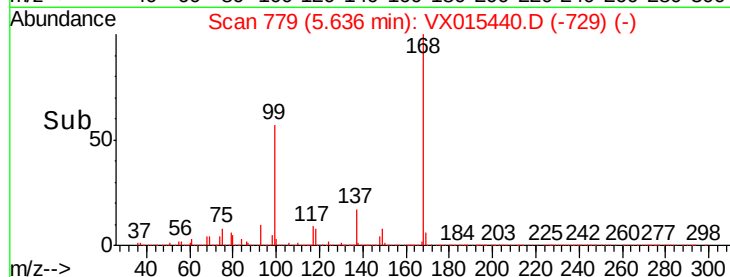
200000

100000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015440.D

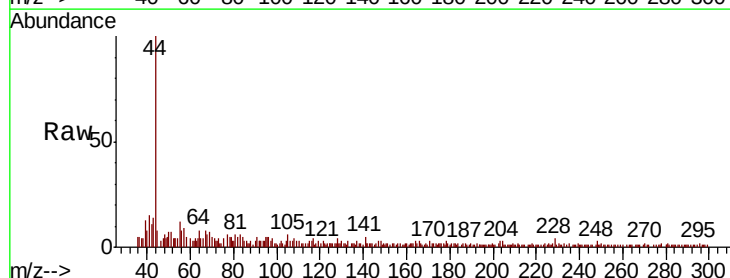
Acq: 30 Mar 2020 19:51

Tgt Ion: 94 Resp: 387

Ion Ratio Lower Upper

94 100

96 178.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

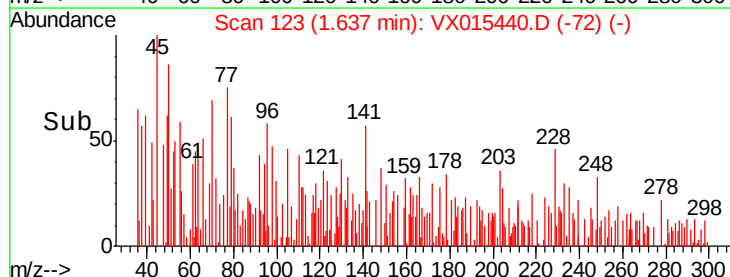
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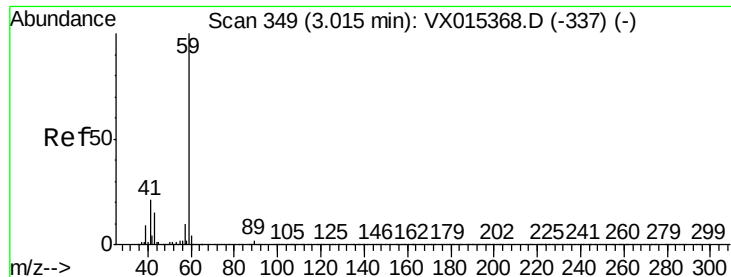
200

0

1.62 1.64 1.66

Time-->

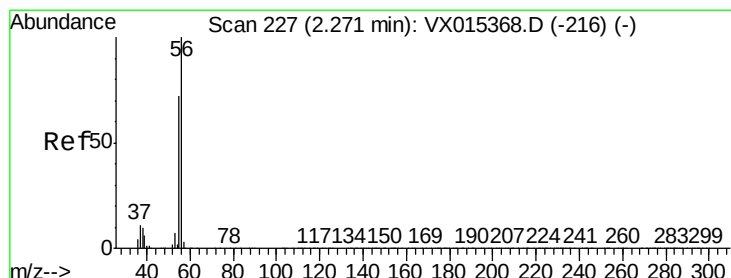
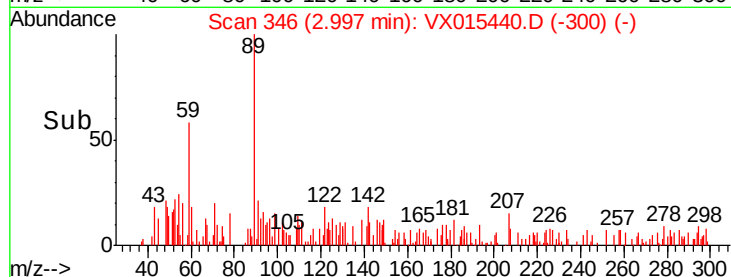
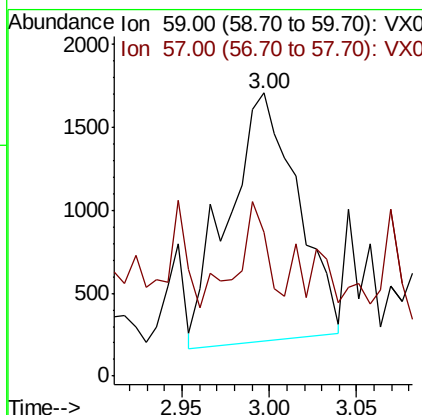
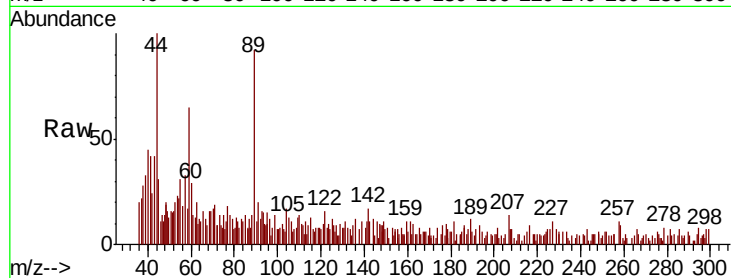




#11
Tert butyl alcohol
Concen: 1.133 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

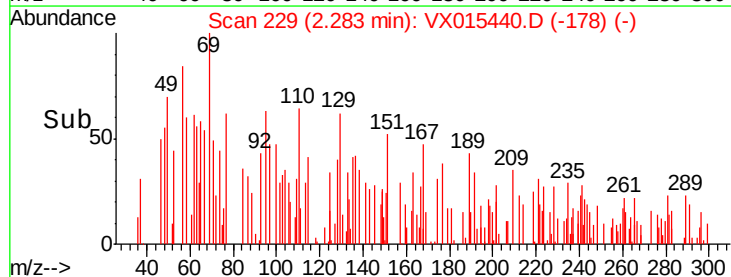
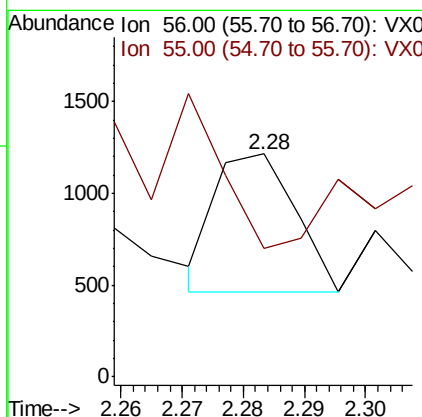
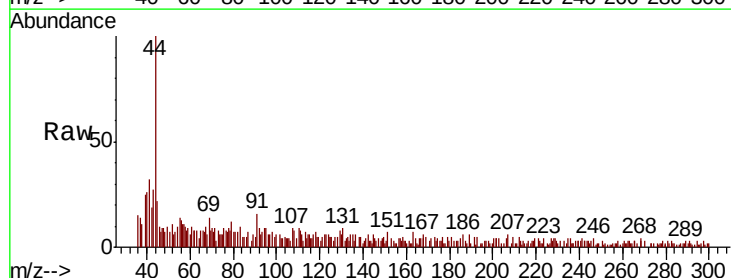
Instrument :
MSVOA_X
ClientSampled :

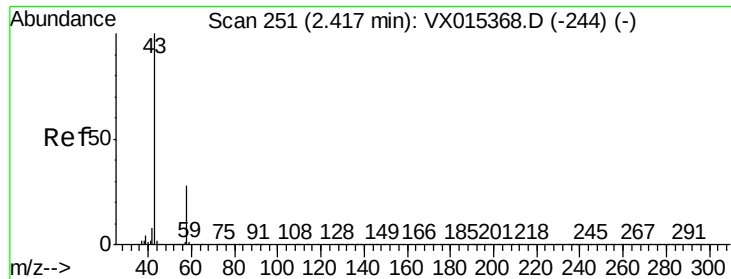
Tot Ion: 59 Resp: 4153
Ion Ratio Lower Upper
59 100
57 17.8 8.1 12.1#



#13
Acrolein
Concen: 0.324 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.01 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

Tgt Ion: 56 Resp: 676
Ion Ratio Lower Upper
56 100
55 121.0 57.0 85.4#

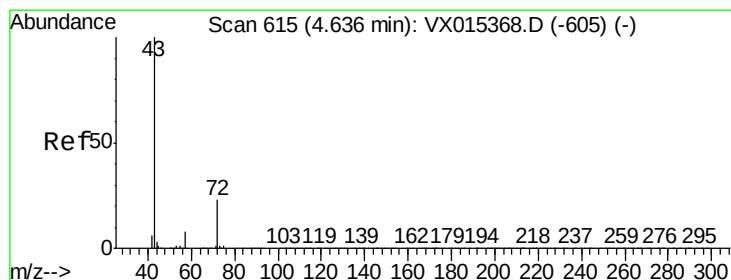
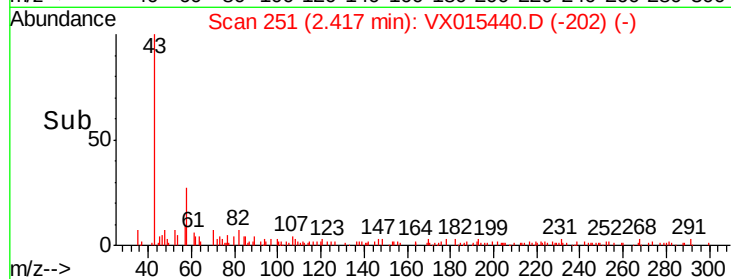
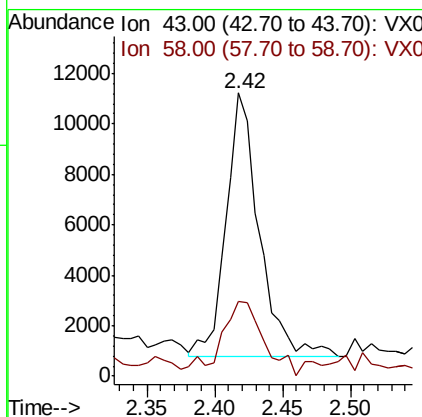
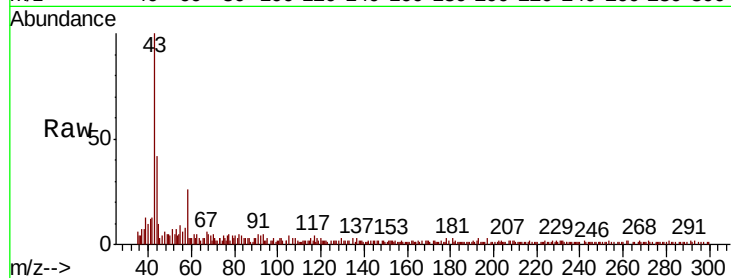




#16
Acetone
Concen: 2.704 ug/l
RT: 2.42 min Scan# 251
Delta R.T. 0.00 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

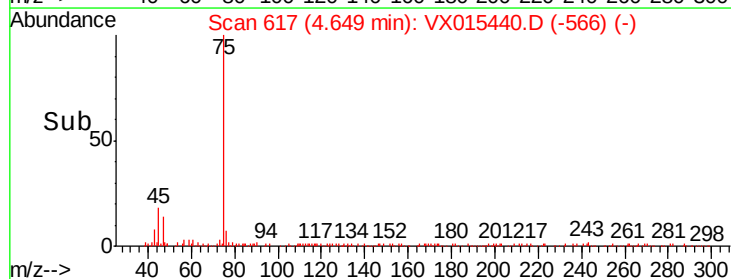
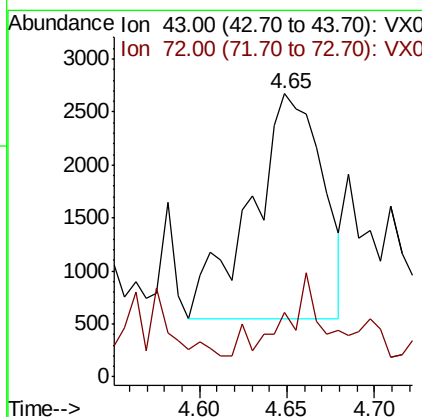
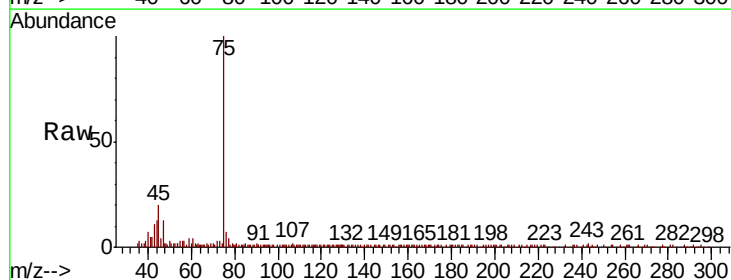
Instrument :
MSVOA_X
ClientSampleId :

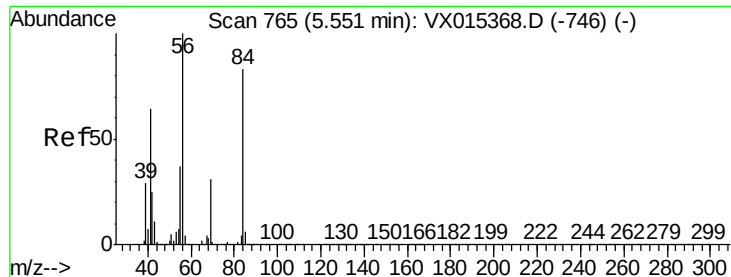
Tot Ion: 43 Resp: 17791
Ion Ratio Lower Upper
43 100
58 24.4 22.1 33.1



#25
2-Butanone
Concen: 0.572 ug/l
RT: 4.65 min Scan# 617
Delta R.T. 0.01 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

Tgt Ion: 43 Resp: 6058
Ion Ratio Lower Upper
43 100
72 16.0 19.0 28.4#

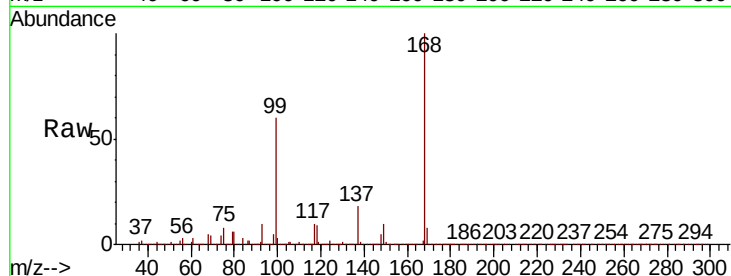




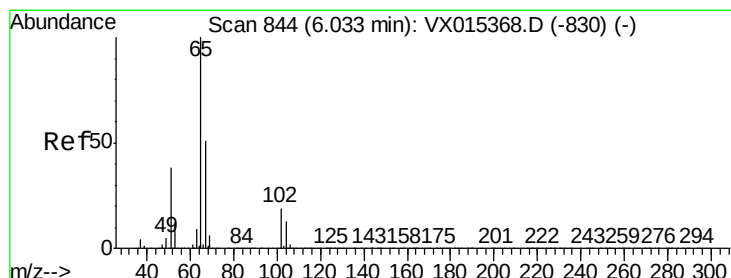
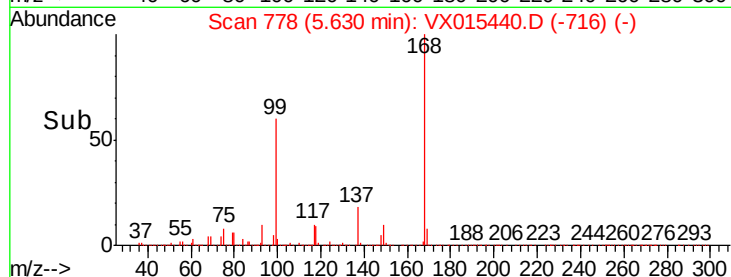
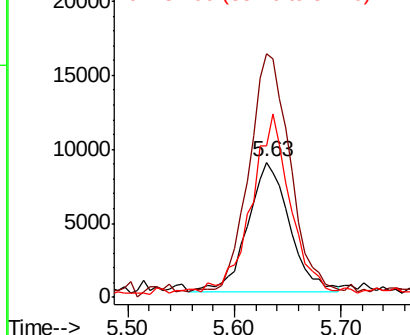
#31
Cyclohexane
Concen: 1.237 ug/l
RT: 5.63 min Scan# 778
Delta R.T. 0.08 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 23984
Ion Ratio Lower Upper
56 100
69 183.7 24.6 36.8#
84 111.0 66.1 99.1#

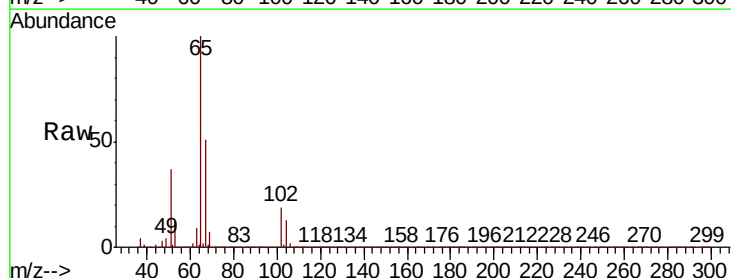


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

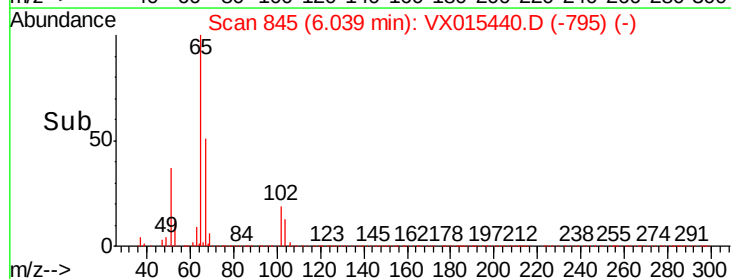
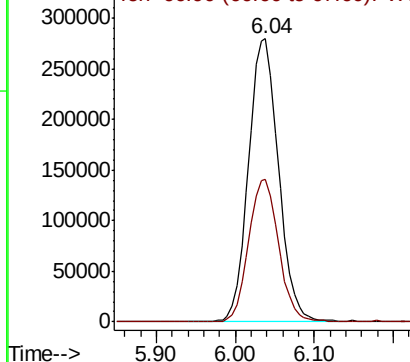


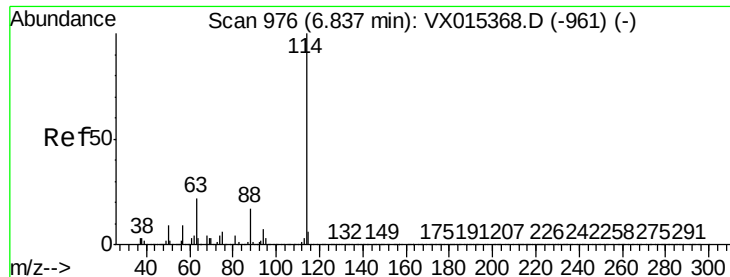
#33
1,2-Dichloroethane-d4
Concen: 48.140 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

Tgt Ion: 65 Resp: 737359
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

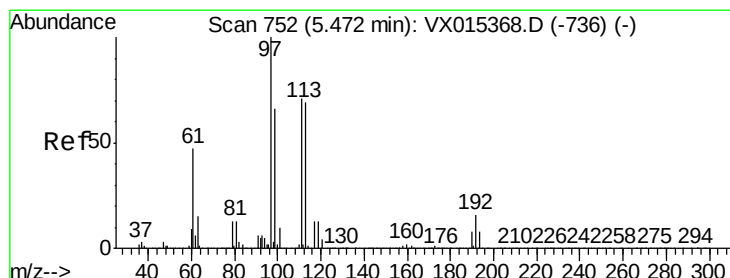
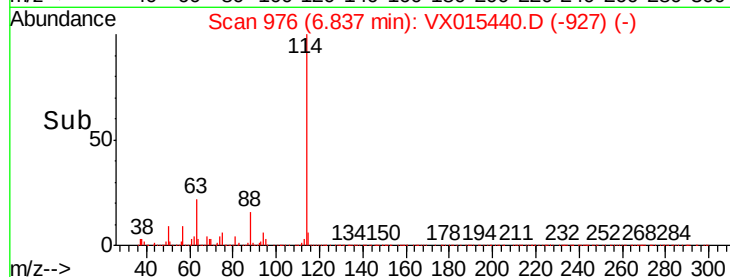
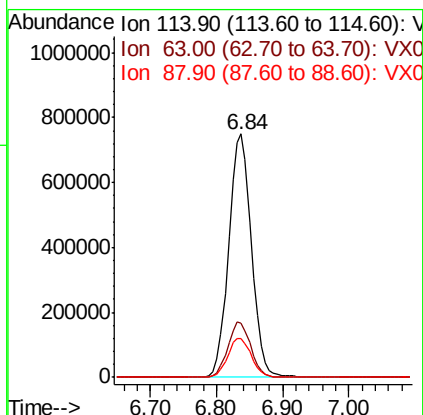
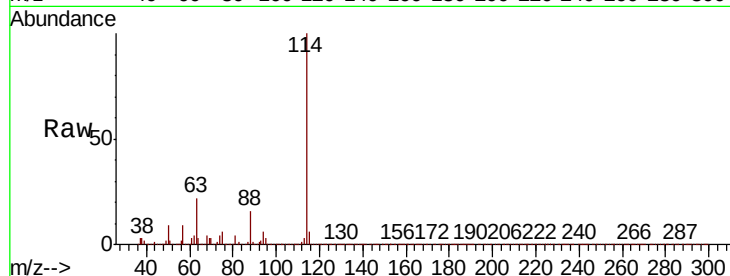




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.84 min Scan# 976
Delta R.T. 0.00 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

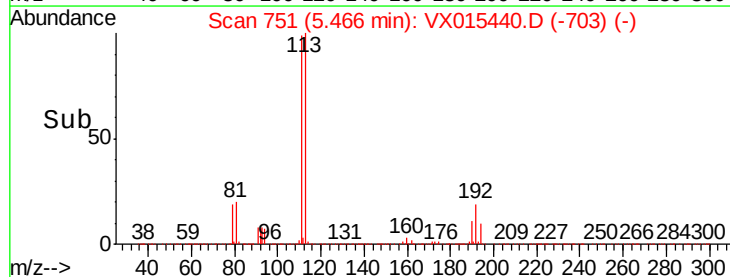
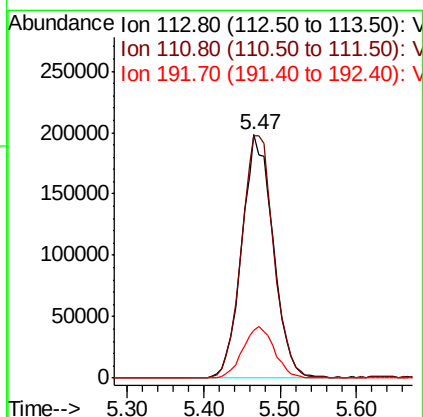
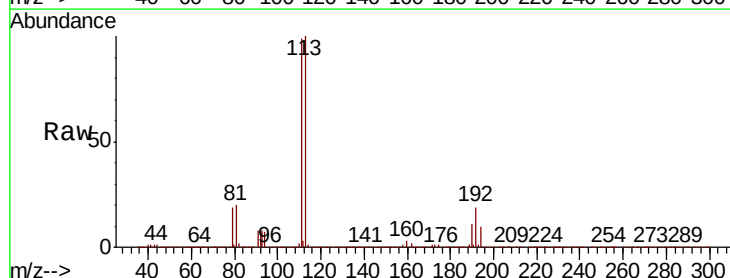
Instrument :
MSVOA_X
ClientSampleId :

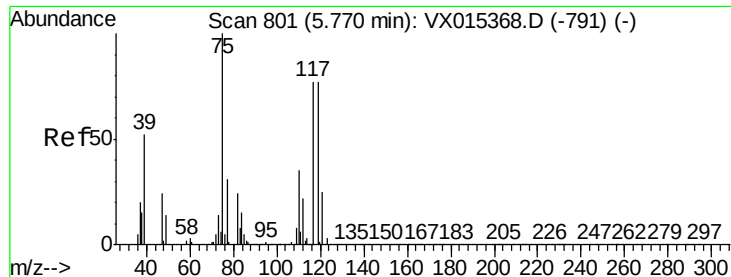
Tot Ion:114 Resp: 1773821
Ion Ratio Lower Upper
114 100
63 22.5 0.0 44.2
88 16.1 0.0 33.8



#35
Dibromofluoromethane
Concen: 49.534 ug/l
RT: 5.47 min Scan# 751
Delta R.T. -0.01 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

Tgt Ion:113 Resp: 561659
Ion Ratio Lower Upper
113 100
111 102.6 81.5 122.3
192 21.6 17.8 26.6

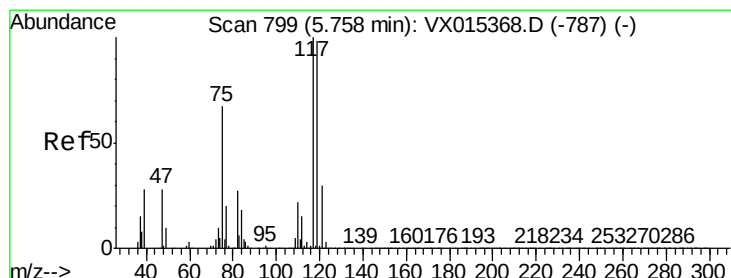
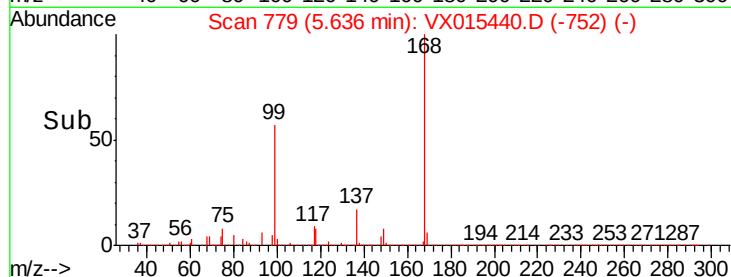
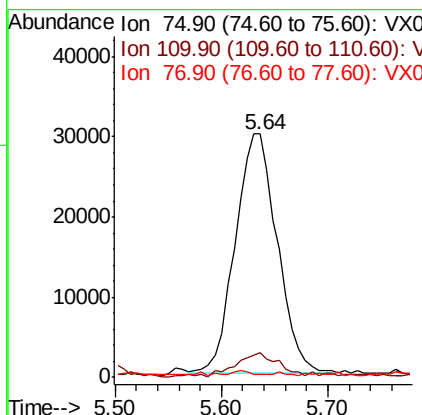
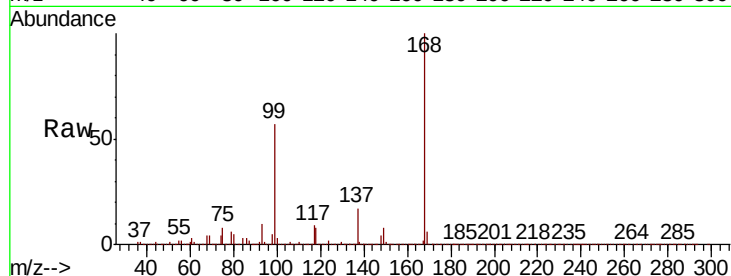




#36
 1,1-Dichloropropene
 Concen: 5.071 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015440.D
 Acq: 30 Mar 2020 19:51

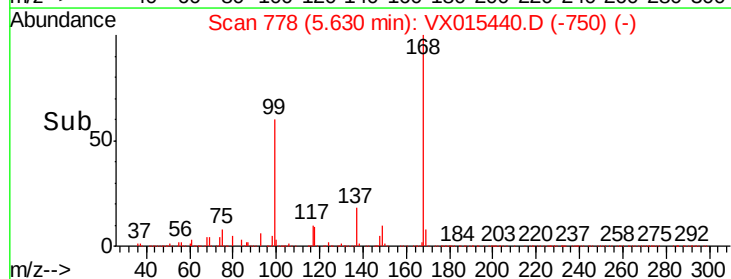
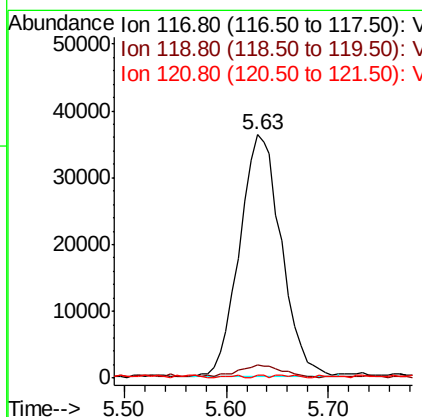
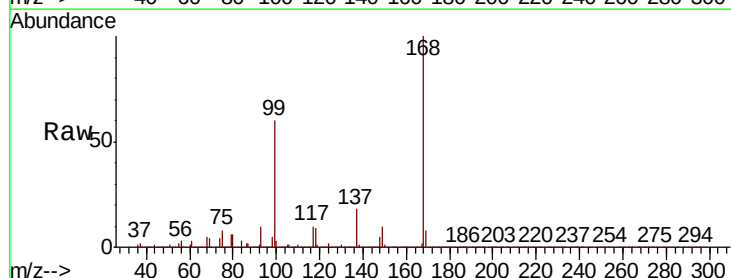
Instrument :
 MSVOA_X
 ClientSampleId :

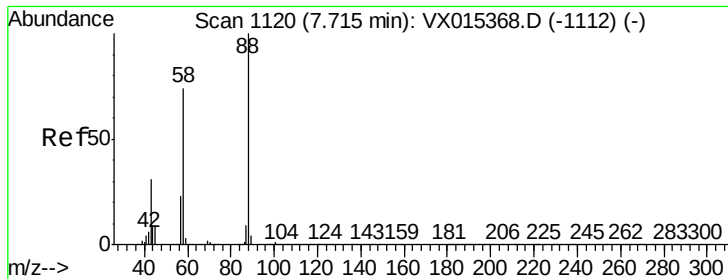
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.1	51.3#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.827 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.13 min
 Lab File: VX015440.D
 Acq: 30 Mar 2020 19:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	78.0	117.0#
121	0.5	23.8	35.8#





#49

1,4-Dioxane

Concen: 0.257 ug/l

RT: 7.71 min Scan# 1119

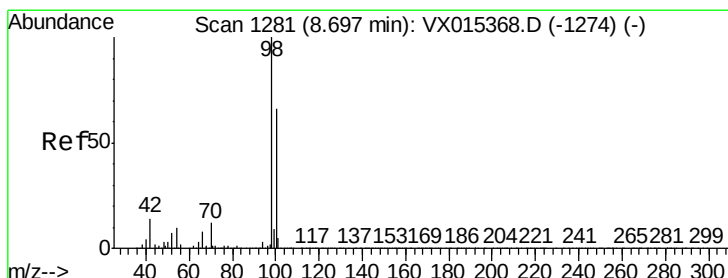
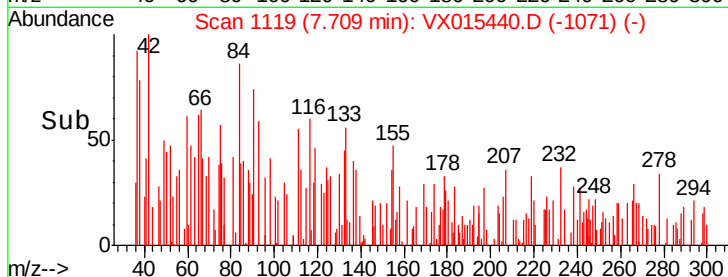
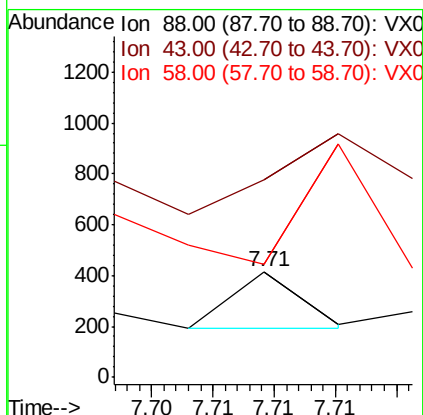
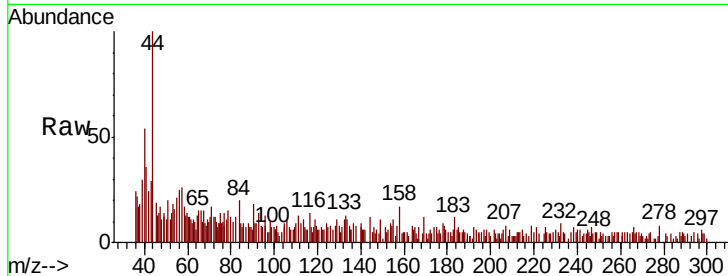
Delta R.T. -0.01 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	88	Resp:	86
Ion	Ratio	Lower	Upper
88	100		
43	323.3	30.1	45.1#
58	754.7	60.6	90.8#



#50

Toluene-d8

Concen: 52.058 ug/l

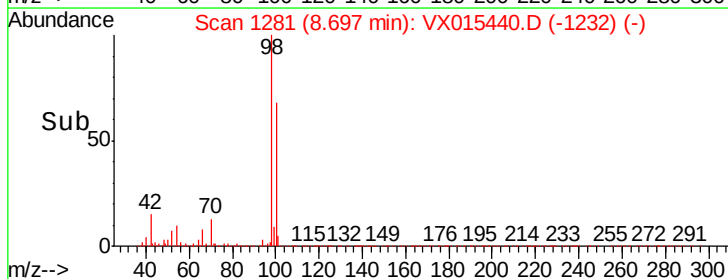
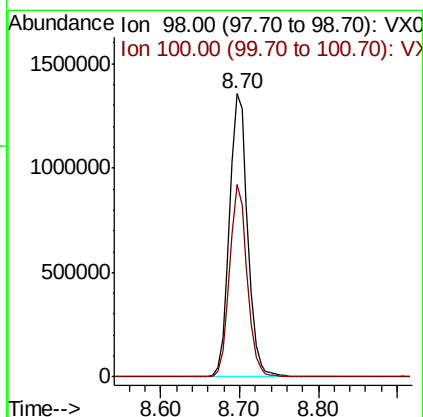
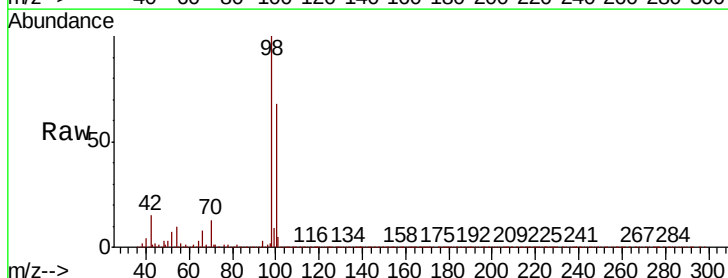
RT: 8.70 min Scan# 1281

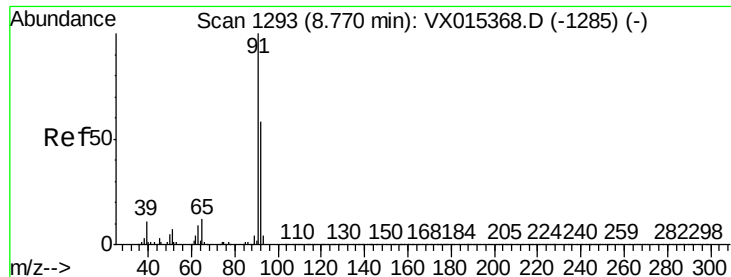
Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Tgt Ion:	98	Resp:	2173244
Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.5	80.3





#52

Toluene

Concen: 1.250 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

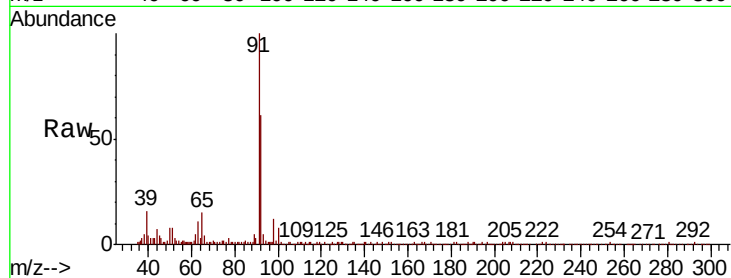
ClientSampleId :

Tot Ion: 92 Resp: 36886

Ion Ratio Lower Upper

92 100

91 165.5 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

40000

30000

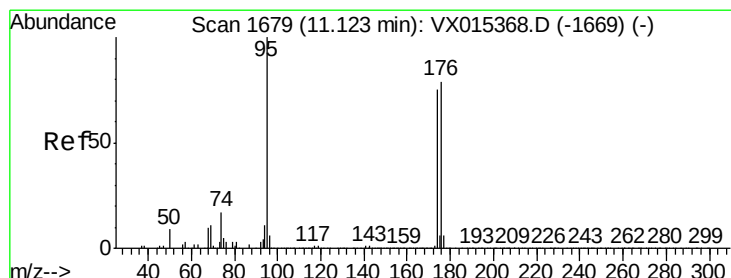
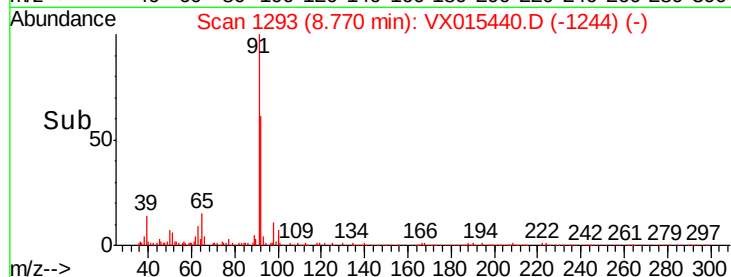
20000

10000

0

8.70 8.75 8.80 8.85

Time-->



#62

4-Bromofluorobenzene

Concen: 53.756 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

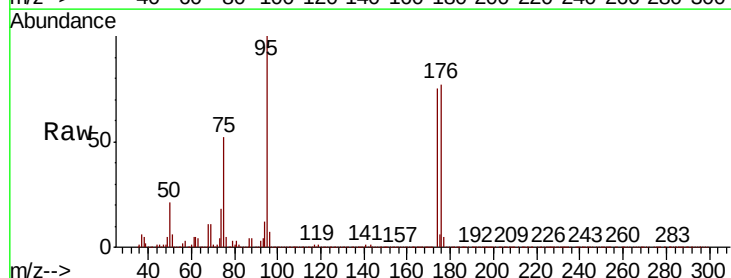
Tgt Ion: 95 Resp: 912014

Ion Ratio Lower Upper

95 100

174 76.1 0.0 158.6

176 76.4 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

1000000

800000

600000

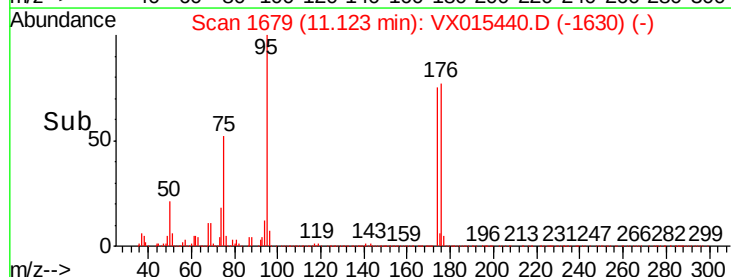
400000

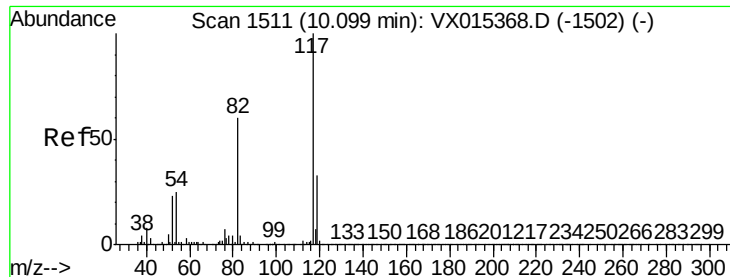
200000

0

11.10 11.20

Time-->

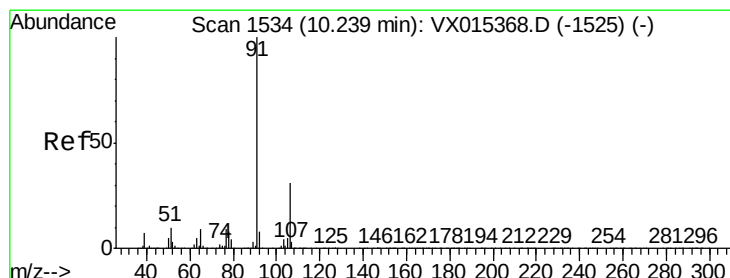
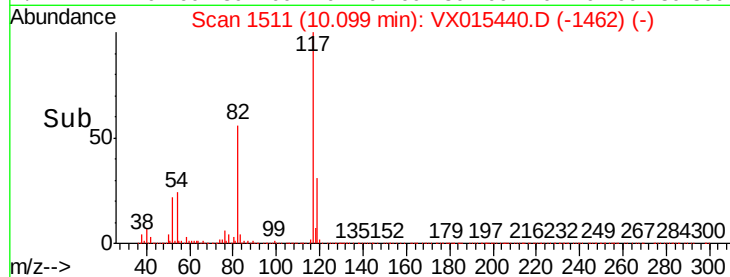
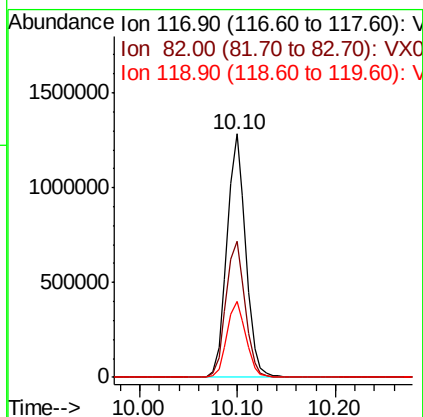
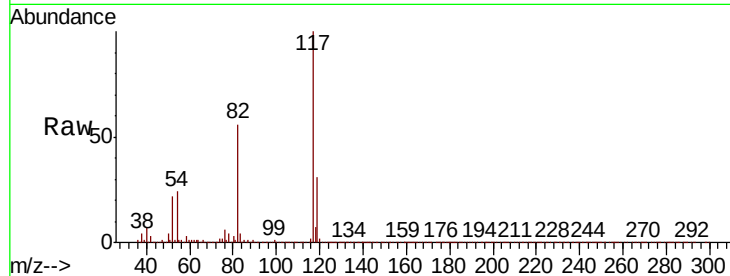




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

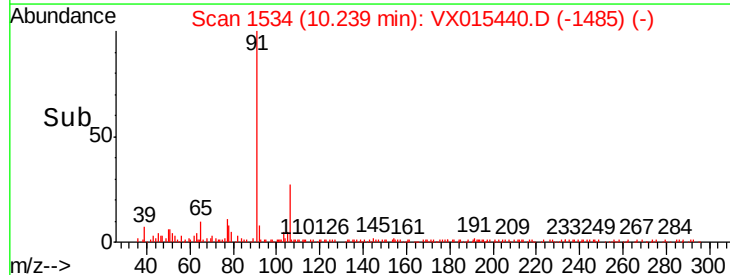
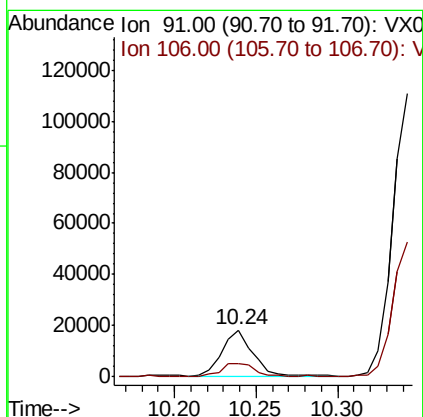
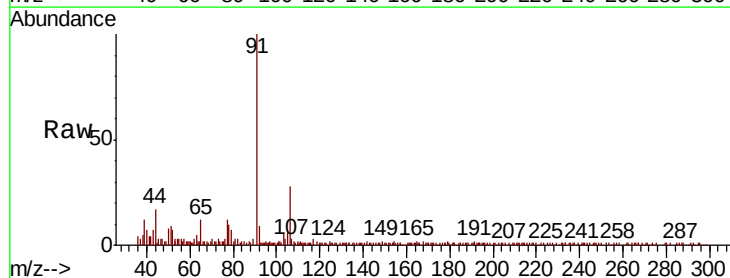
Instrument :
MSVOA_X
ClientSampleId :

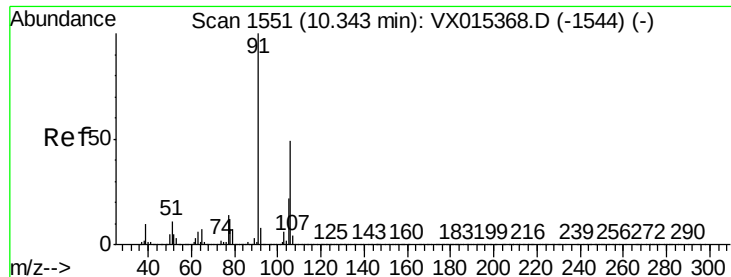
Tot Ion:117 Resp: 1708949
Ion Ratio Lower Upper
117 100
82 55.7 47.8 71.8
119 31.1 26.8 40.2



#67
Ethyl Benzene
Concen: 0.389 ug/l
RT: 10.24 min Scan# 1534
Delta R.T. 0.00 min
Lab File: VX015440.D
Acq: 30 Mar 2020 19:51

Tgt Ion: 91 Resp: 23518
Ion Ratio Lower Upper
91 100
106 26.6 24.8 37.2





#68

m/p-Xylenes

Concen: 3.211 ug/l

RT: 10.34 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

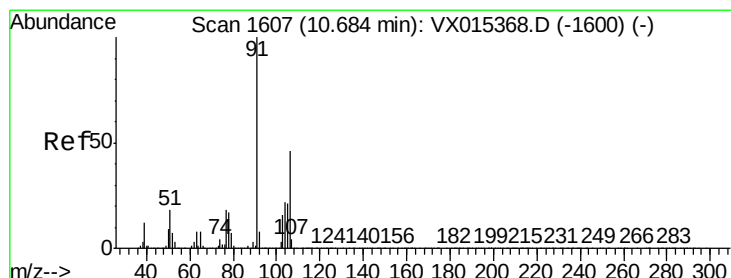
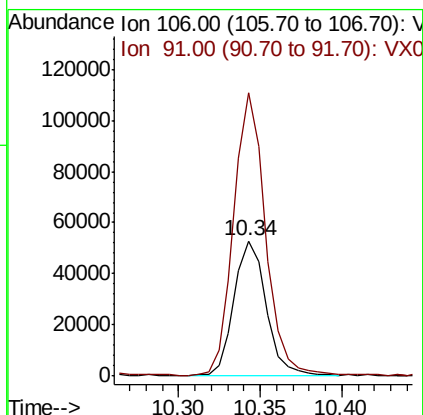
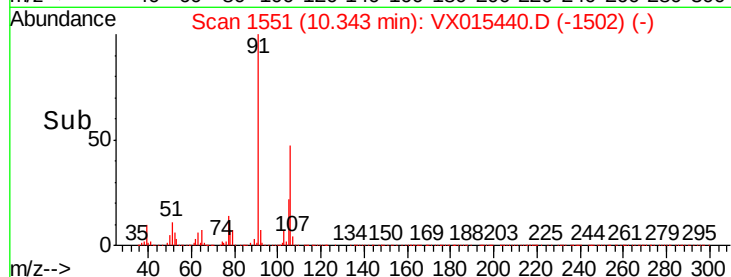
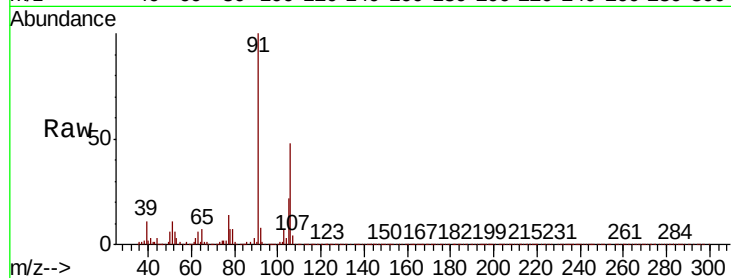
ClientSampleId :

Tot Ion:106 Resp: 72278

Ion Ratio Lower Upper

106 100

91 207.8 163.4 245.0



#69

o-Xylene

Concen: 2.101 ug/l

RT: 10.68 min Scan# 1607

Delta R.T. 0.00 min

Lab File: VX015440.D

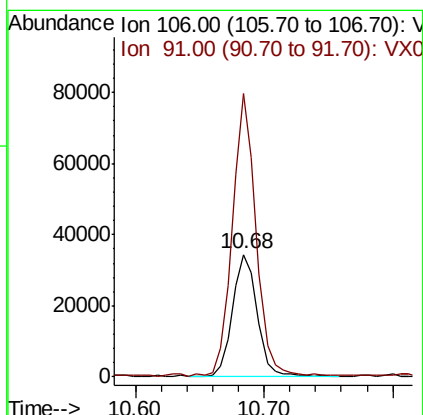
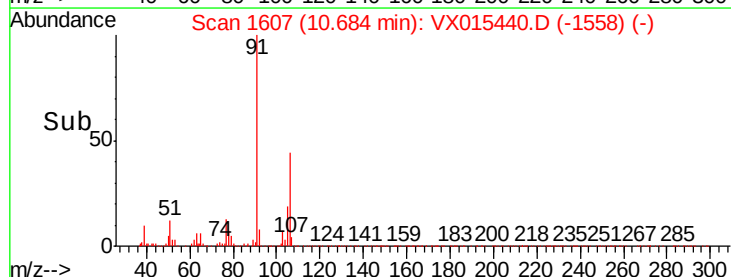
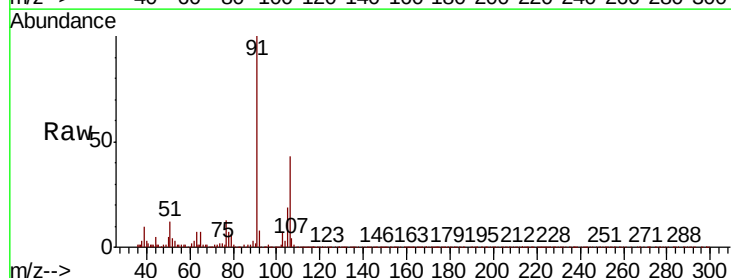
Acq: 30 Mar 2020 19:51

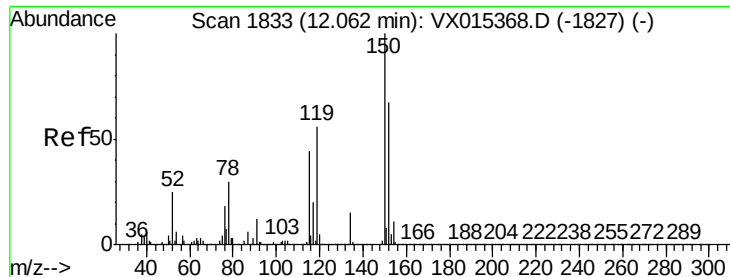
Tgt Ion:106 Resp: 46726

Ion Ratio Lower Upper

106 100

91 218.4 107.1 321.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

ClientSampled :

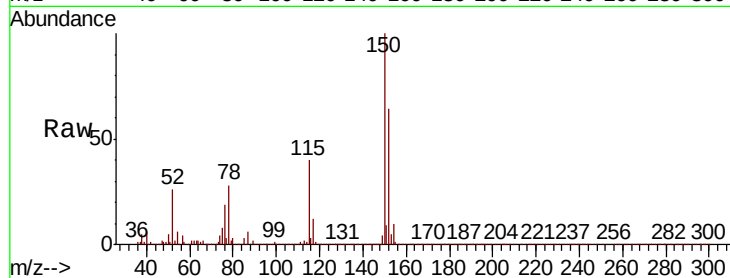
Tot Ion:152 Resp: 884406

Ion Ratio Lower Upper

152 100

115 61.1 39.0 116.9

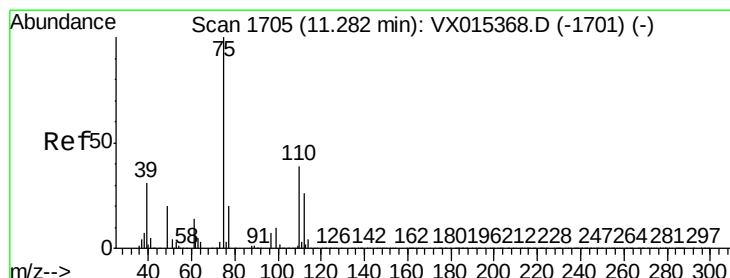
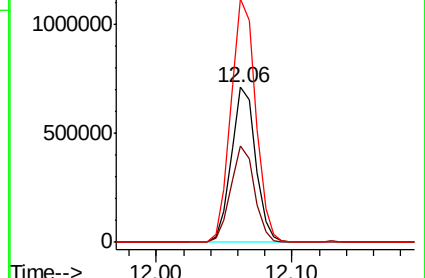
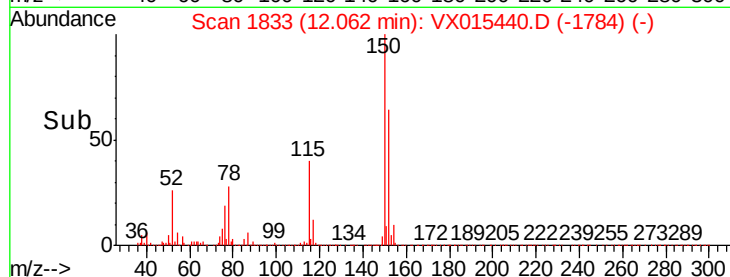
150 159.8 0.0 340.8



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: 26.310 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015440.D

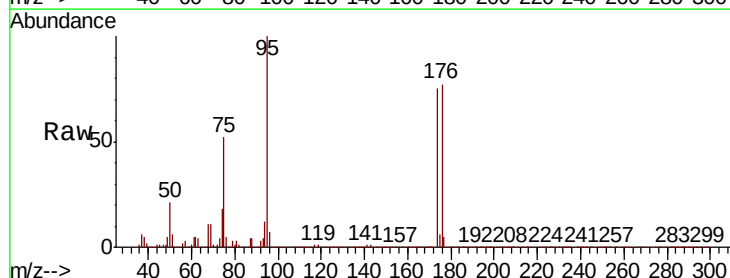
Acq: 30 Mar 2020 19:51

Tgt Ion: 75 Resp: 478509

Ion Ratio Lower Upper

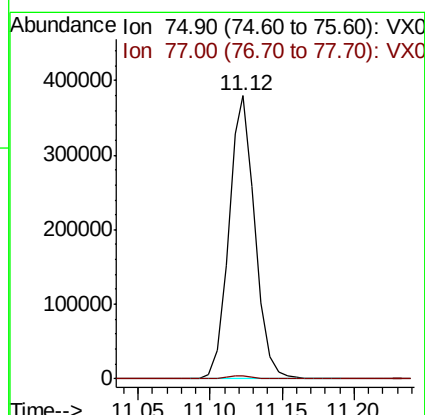
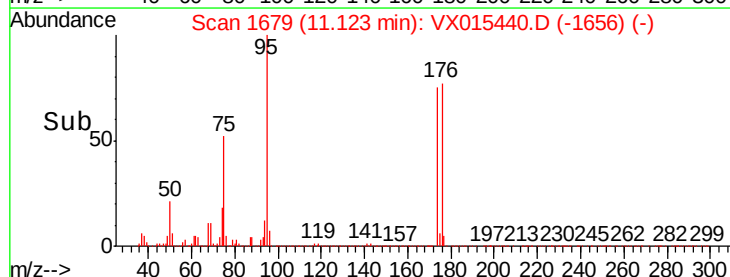
75 100

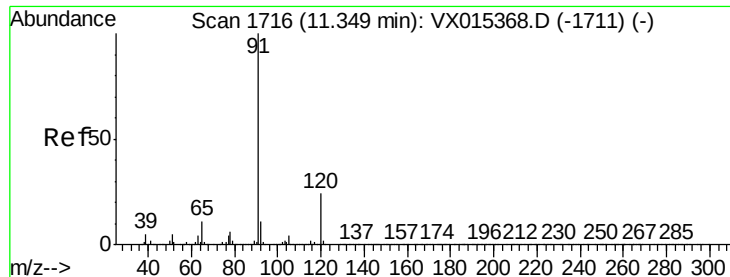
77 1.0 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.435 ug/l

RT: 11.35 min Scan# 1716

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

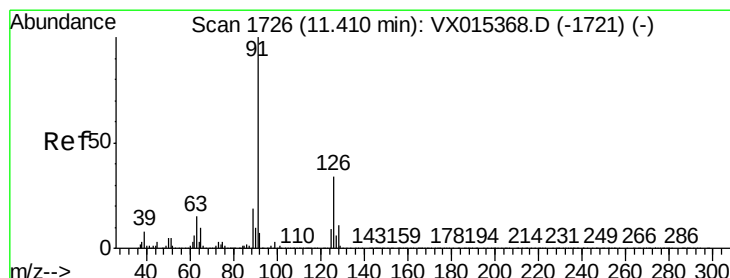
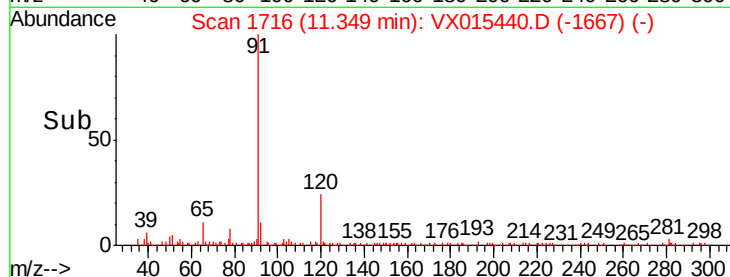
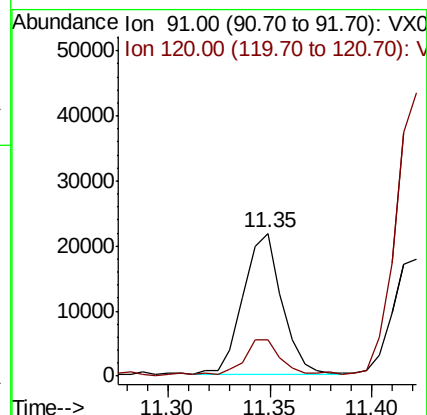
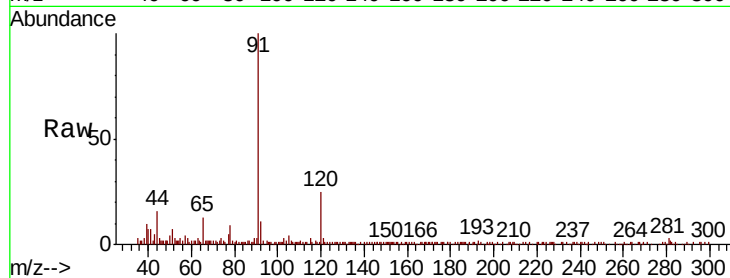
ClientSampleId :

Tot Ion: 91 Resp: 28811

Ion Ratio Lower Upper

91 100

120 22.1 11.7 35.0



#79

2-Chlorotoluene

Concen: 0.772 ug/l

RT: 11.42 min Scan# 1728

Delta R.T. 0.01 min

Lab File: VX015440.D

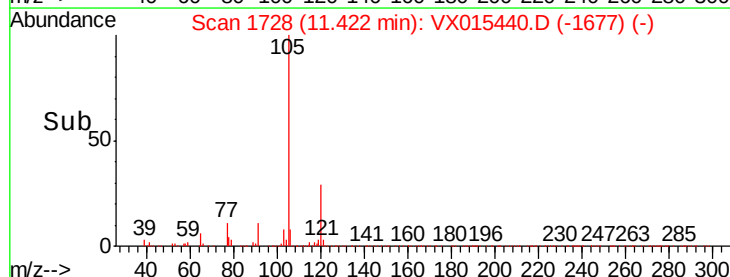
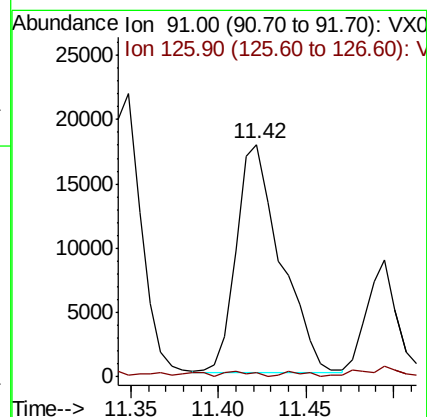
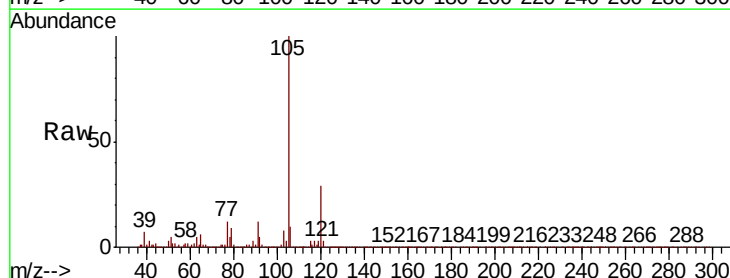
Acq: 30 Mar 2020 19:51

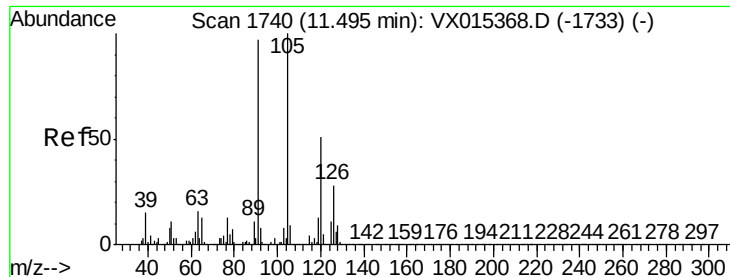
Tgt Ion: 91 Resp: 31350

Ion Ratio Lower Upper

91 100

126 1.6 16.5 49.5#

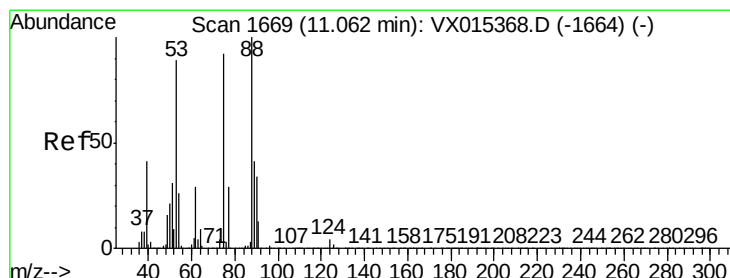
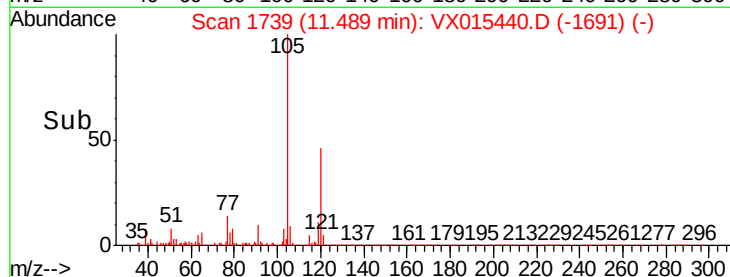
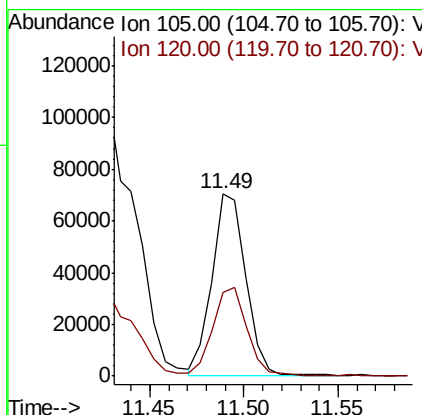
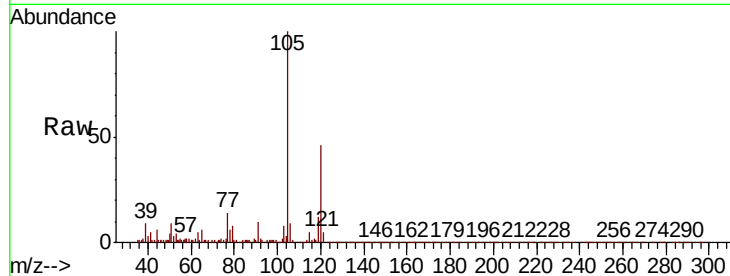




#80
 1,3,5-Trimethylbenzene
 Concen: 1.777 ug/l
 RT: 11.49 min Scan# 1739
 Delta R.T. -0.01 min
 Lab File: VX015440.D
 Acq: 30 Mar 2020 19:51

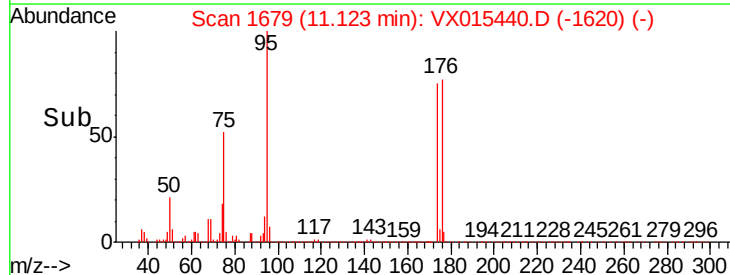
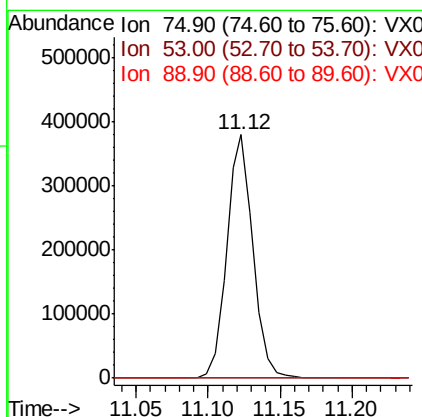
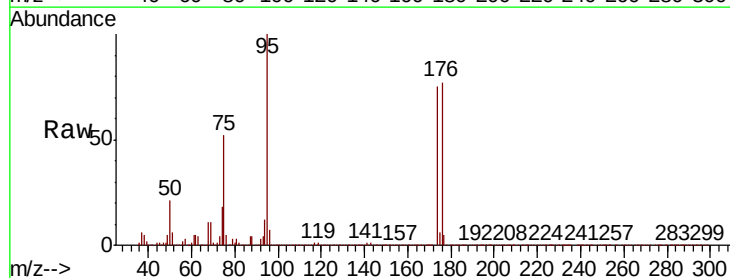
Instrument :
 MSVOA_X
 ClientSampleId :

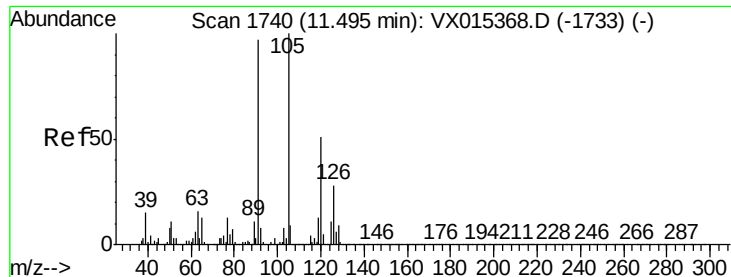
Tot Ion:105 Resp: 87951
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.131 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. 0.06 min
 Lab File: VX015440.D
 Acq: 30 Mar 2020 19:51

Tgt Ion: 75 Resp: 478509
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.1 120.1#
 89 0.0 36.1 54.1#





#82

4-Chlorotoluene

Concen: 0.214 ug/l

RT: 11.50 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

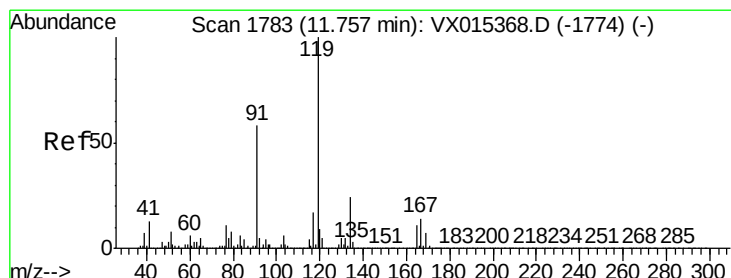
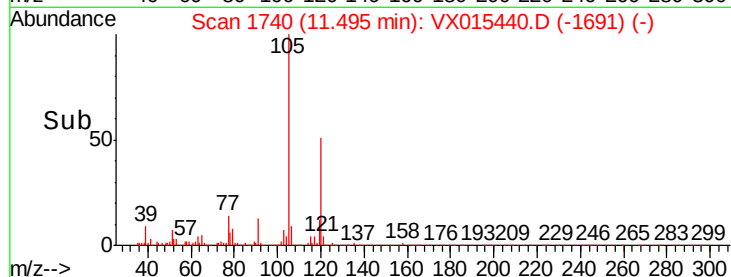
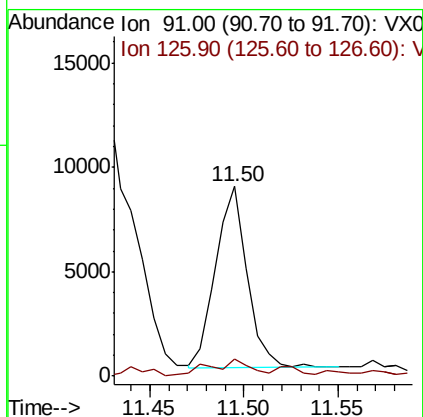
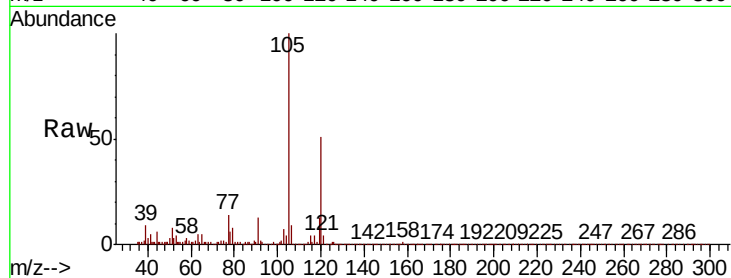
ClientSampleId :

Tot Ion: 91 Resp: 10212

Ion Ratio Lower Upper

91 100

126 12.0 14.7 44.1#



#83

tert-Butylbenzene

Concen: 0.293 ug/l

RT: 12.01 min Scan# 1824

Delta R.T. 0.25 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

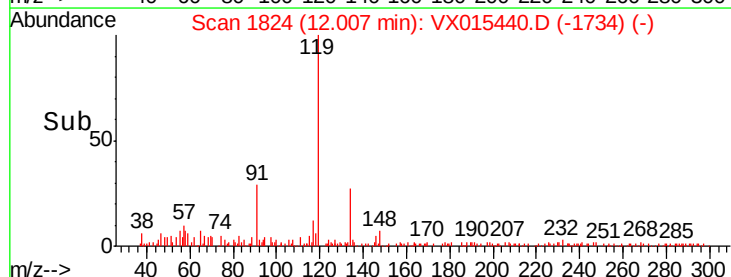
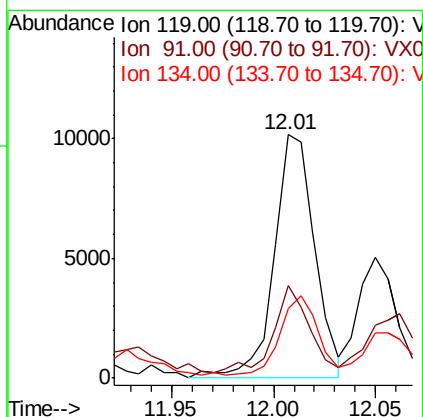
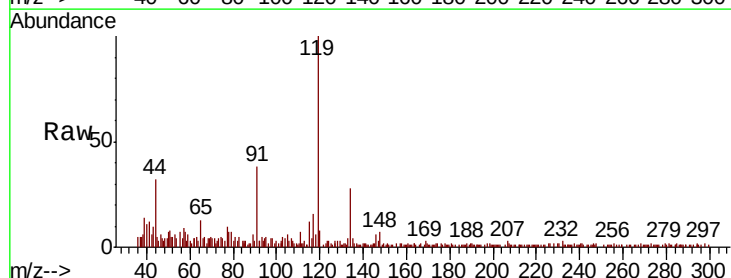
Tgt Ion: 119 Resp: 14149

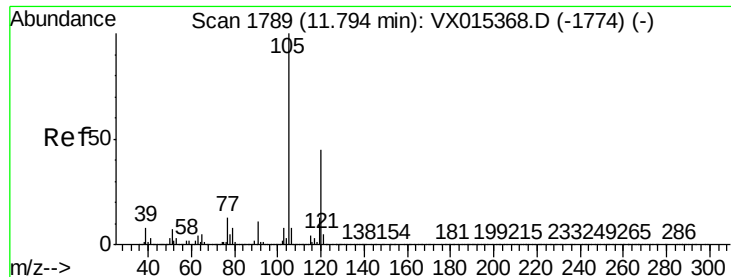
Ion Ratio Lower Upper

119 100

91 31.3 28.6 85.8

134 30.1 11.8 35.3





#84

1,2,4-Trimethylbenzene

Concen: 6.915 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

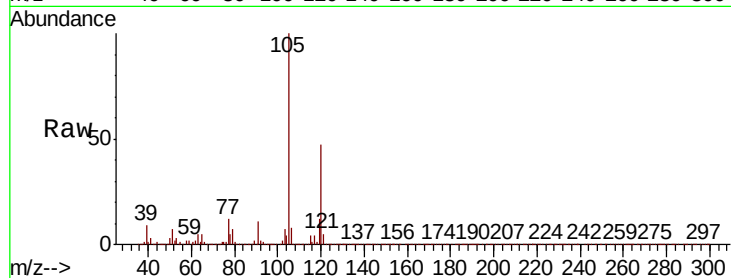
ClientSampleId :

Tot Ion:105 Resp: 348749

Ion Ratio Lower Upper

105 100

120 46.2 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

300000

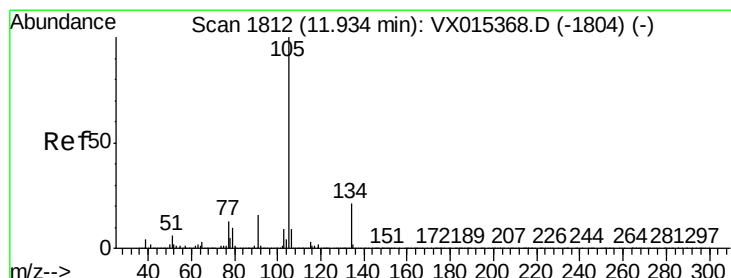
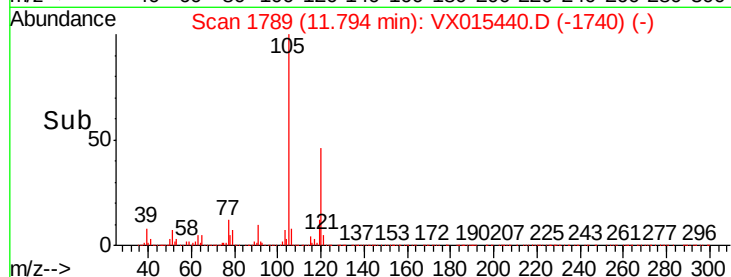
200000

100000

0

Time-->

11.75 11.80 11.85



#85

sec-Butylbenzene

Concen: 6.238 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. -0.14 min

Lab File: VX015440.D

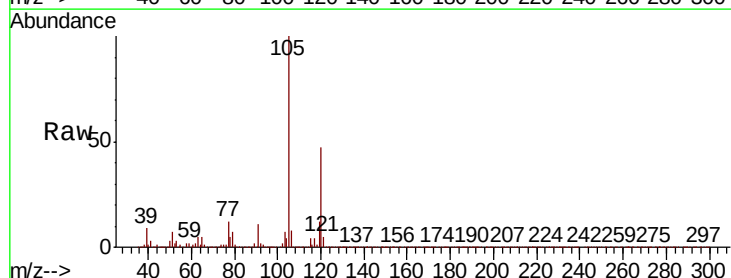
Acq: 30 Mar 2020 19:51

Tgt Ion:105 Resp: 348749

Ion Ratio Lower Upper

105 100

134 0.4 10.4 31.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.79

300000

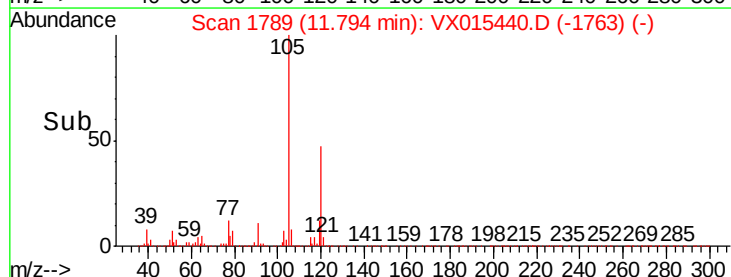
200000

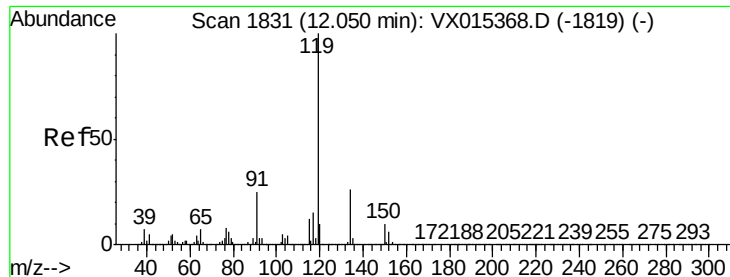
100000

0

Time-->

11.75 11.80 11.85

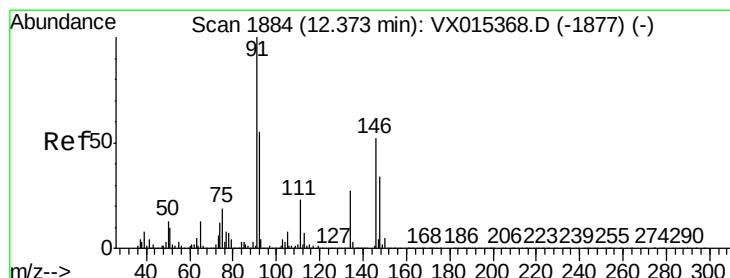
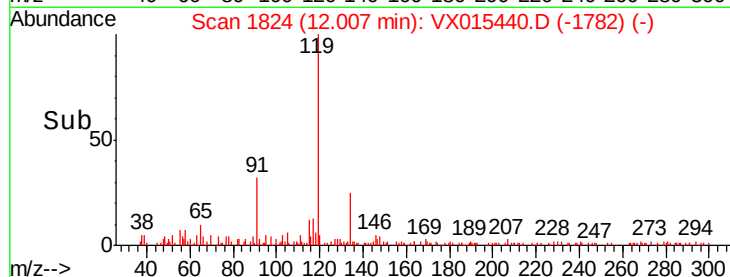
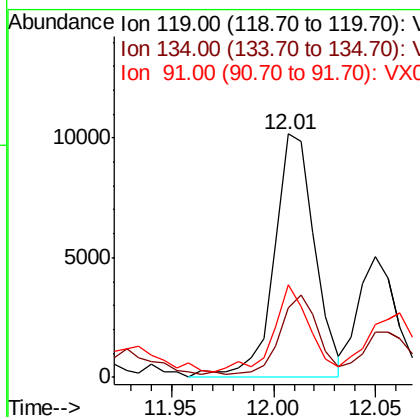
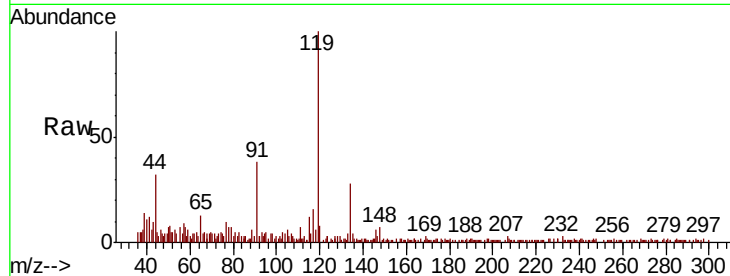




#86
 p-Isopropyltoluene
 Concen: 0.273 ug/l
 RT: 12.01 min Scan# 1824
 Delta R.T. -0.04 min
 Lab File: VX015440.D
 Acq: 30 Mar 2020 19:51

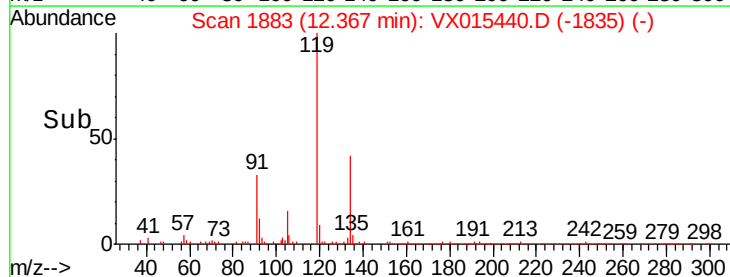
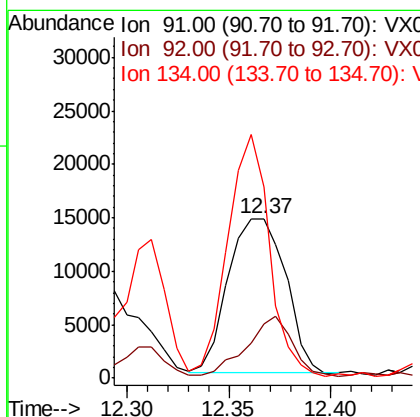
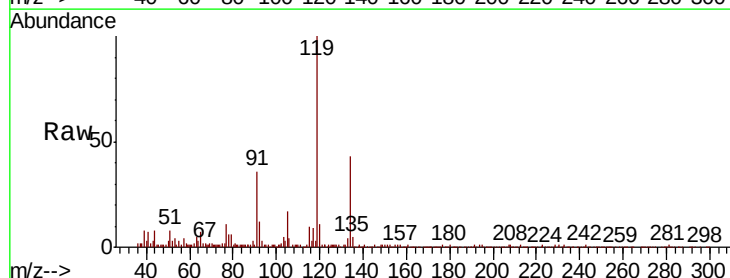
Instrument :
 MSVOA_X
 ClientSampled :

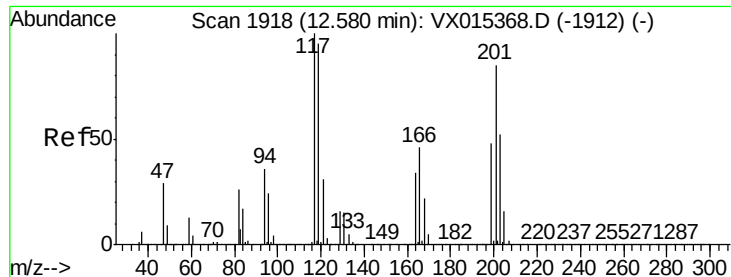
Tot Ion	Ratio	Lower	Upper
119	100		
134	30.3	13.1	39.3
91	31.3	12.4	37.4



#89
 n-Butylbenzene
 Concen: 0.602 ug/l
 RT: 12.37 min Scan# 1883
 Delta R.T. -0.01 min
 Lab File: VX015440.D
 Acq: 30 Mar 2020 19:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	30.7	27.2	81.5
134	113.4	13.4	40.2#





#90

Hexachloroethane

Concen: 0.414 ug/l

RT: 12.59 min Scan# 1920

Delta R.T. 0.01 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

Instrument :

MSVOA_X

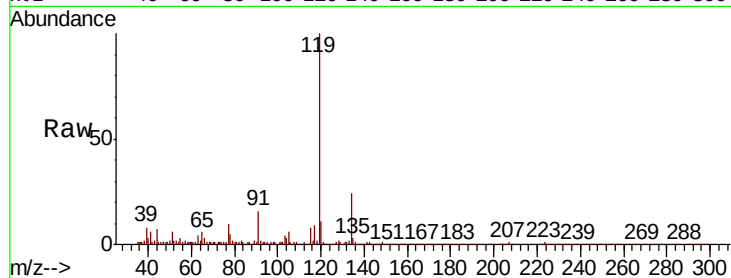
ClientSampled :

Tot Ion:117 Resp: 4184

Ion Ratio Lower Upper

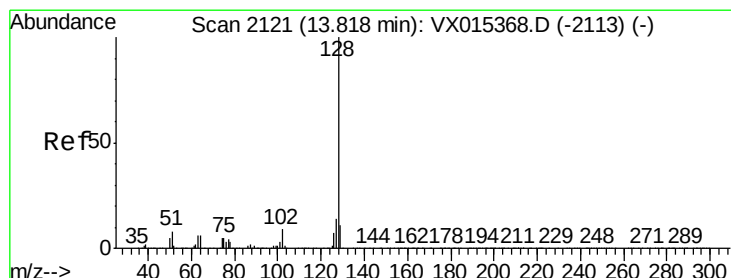
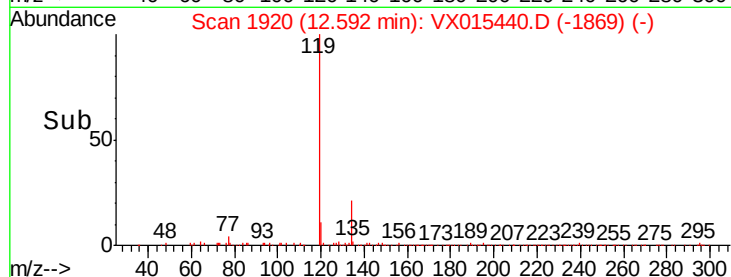
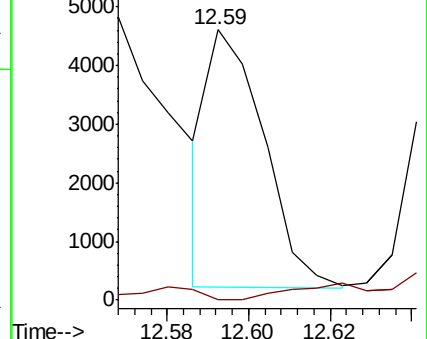
117 100

201 5.5 42.6 128.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.495 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. 0.00 min

Lab File: VX015440.D

Acq: 30 Mar 2020 19:51

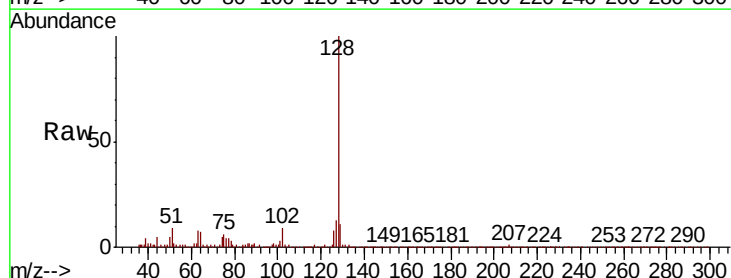
Tgt Ion:128 Resp: 97681

Ion Ratio Lower Upper

128 100

127 13.6 10.6 15.8

129 12.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

