

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042020\
 Data File : VX015763.D
 Acq On : 20 Apr 2020 14:19
 Operator : JC/SP
 Sample : L2305-02DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 20 15:02:40 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	1060801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1645901	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1611256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	870775	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	608873	40.70	ug/l	0.00
Spiked Amount			Recovery	=	81.40%	
35) Dibromofluoromethane	5.47	113	506998	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
50) Toluene-d8	8.70	98	1972942	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.12	95	823299	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	

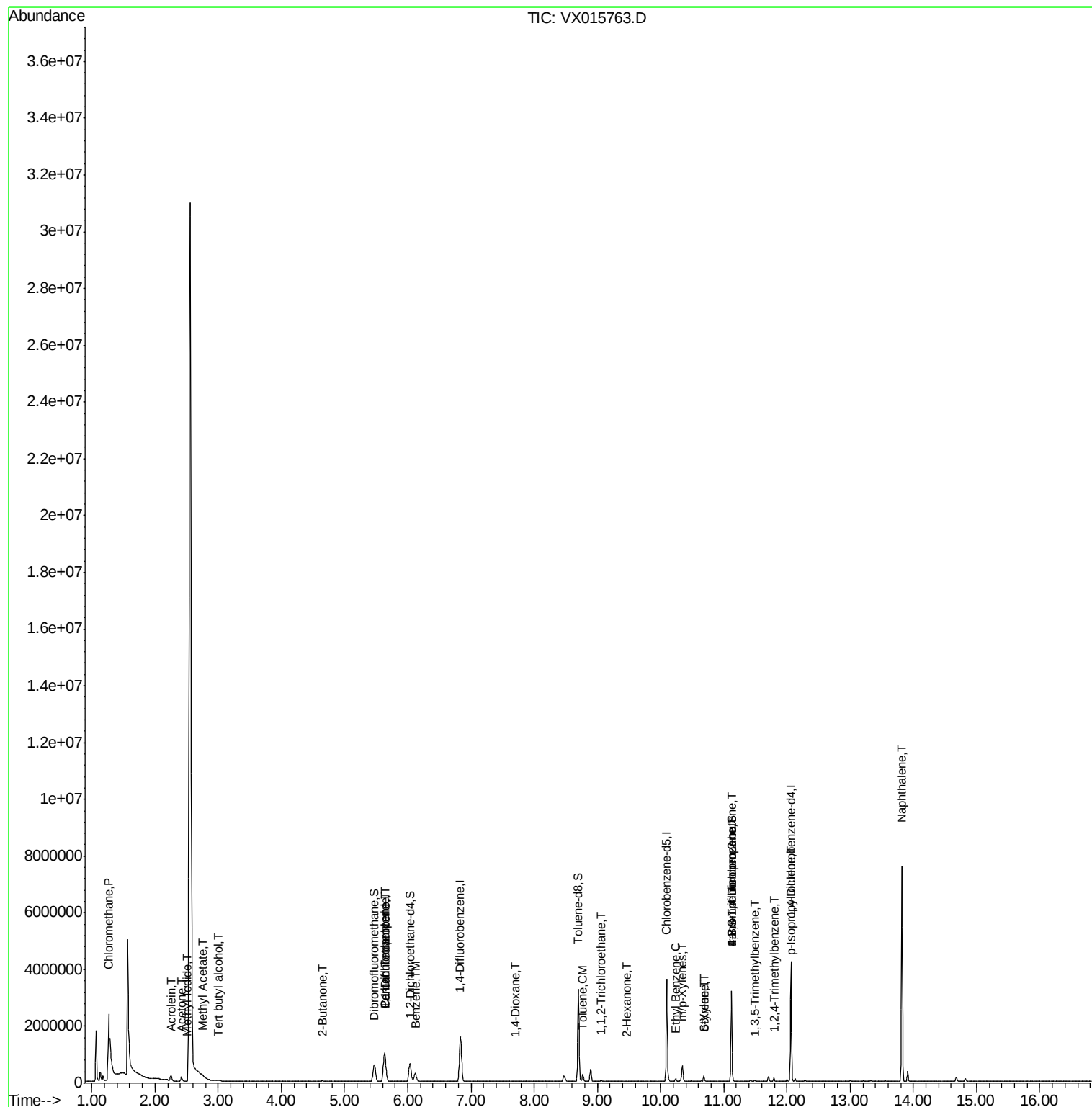
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	110084	9.249	ug/l #	46
5) Bromomethane	1.64	94	1330	Below Cal	#	41
10) Methyl Iodide	2.50	142	5649	0.439	ug/l #	76
11) Tert butyl alcohol	2.99	59	12978	3.624	ug/l #	76
13) Acrolein	2.25	56	3267	1.602	ug/l #	29
16) Acetone	2.42	43	168523	26.218	ug/l	100
18) Methyl Acetate	2.76	43	4328	0.264	ug/l #	90
25) 2-Butanone	4.65	43	31946	3.090	ug/l #	87
36) 1,1-Dichloropropene	5.63	75	72459	4.778	ug/l #	51
38) Carbon Tetrachloride	5.64	117	95743	5.829	ug/l #	16
40) Benzene	6.12	78	342907	7.719	ug/l	96
49) 1,4-Dioxane	7.69	88	425	1.368	ug/l #	1
52) Toluene	8.77	92	101418	3.703	ug/l	95
55) 1,1,2-Trichloroethane	9.06	97	39119	3.486	ug/l #	17
59) 2-Hexanone	9.47	43	3249	0.228	ug/l	91
67) Ethyl Benzene	10.24	91	71508	1.255	ug/l	98
68) m/p-Xylenes	10.34	106	117933	5.557	ug/l	96
69) o-Xylene	10.68	106	46477	2.216	ug/l	97
70) Styrene	10.70	104	11403	0.309	ug/l #	50
76) 1,2,3-Trichloropropane	11.12	75	413393	23.086	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	17631	0.362	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	413393	55.393	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.79	105	61686	1.242	ug/l	96
86) p-Isopropyltoluene	12.05	119	14232	0.279	ug/l #	78
95) Naphthalene	13.82	128	4511846	70.135	ug/l	100

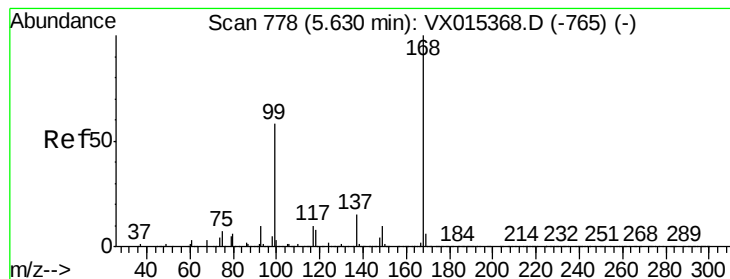
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Apr 20 15:02:40 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: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

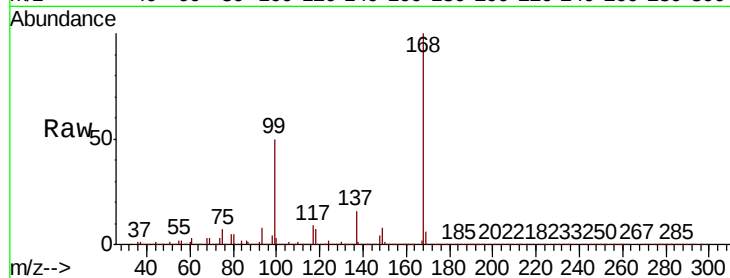
ClientSampled :

Tot Ion:168 Resp: 1060801

Ion Ratio Lower Upper

168 100

99 49.6 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

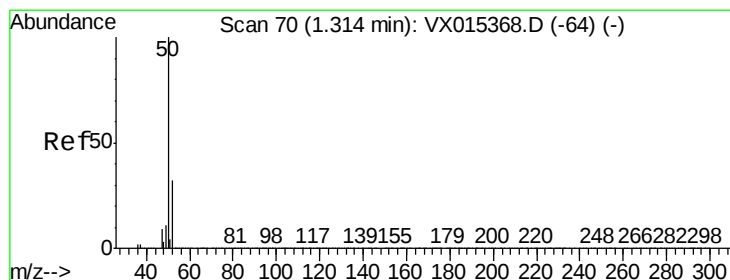
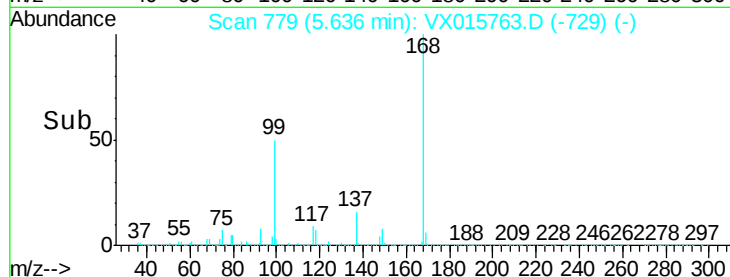
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 9.249 ug/l

RT: 1.27 min Scan# 62

Delta R.T. -0.05 min

Lab File: VX015763.D

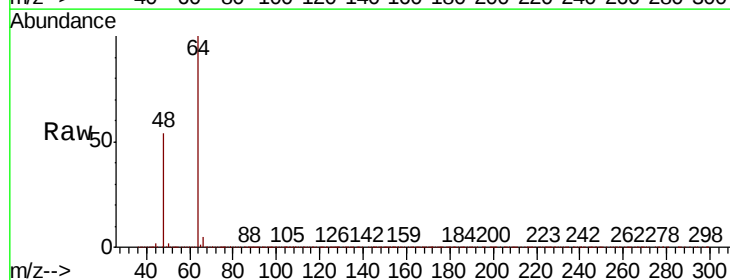
Acq: 20 Apr 2020 14:19

Tgt Ion: 50 Resp: 110084

Ion Ratio Lower Upper

50 100

52 1.7 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.27

40000

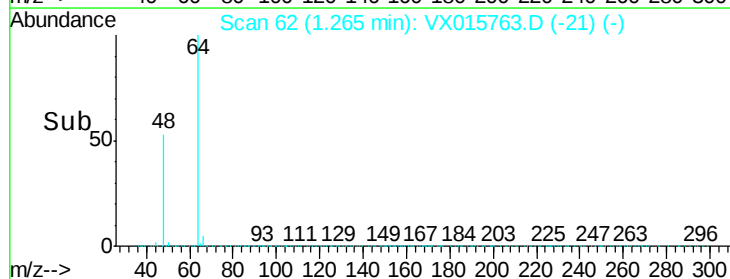
30000

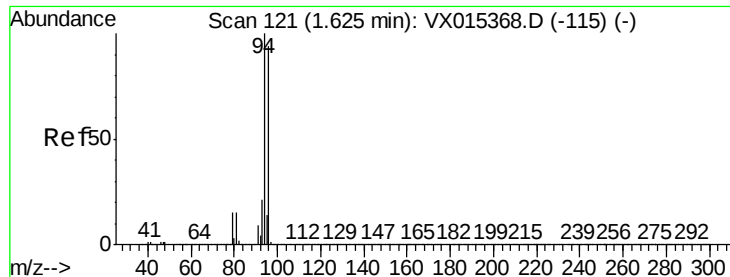
20000

10000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

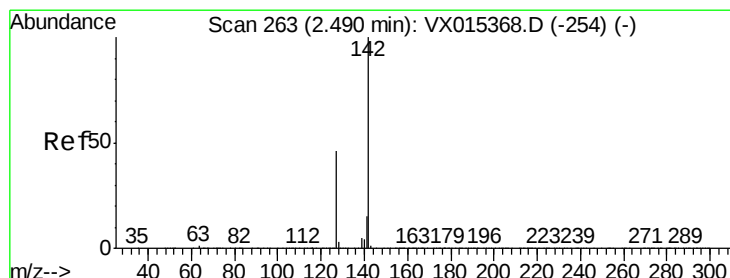
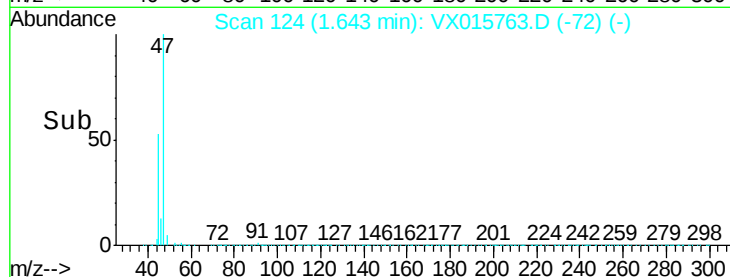
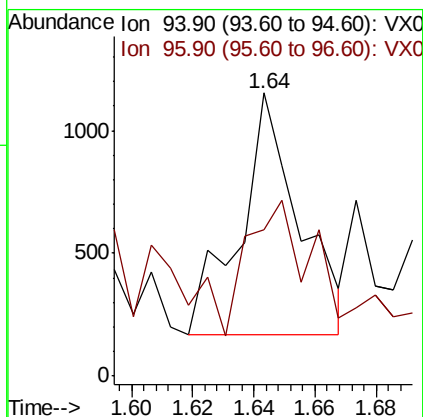
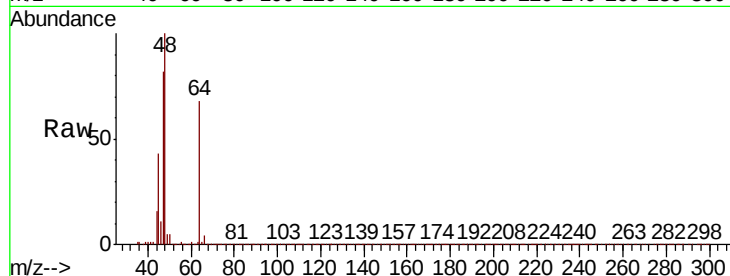
ClientSampled :

Tot Ion: 94 Resp: 1330

Ion Ratio Lower Upper

94 100

96 36.7 74.8 112.2#



#10

Methyl Iodide

Concen: 0.439 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

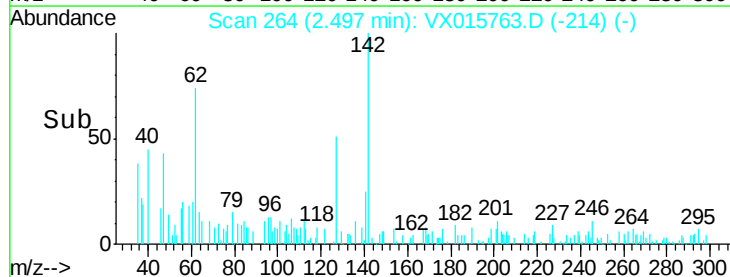
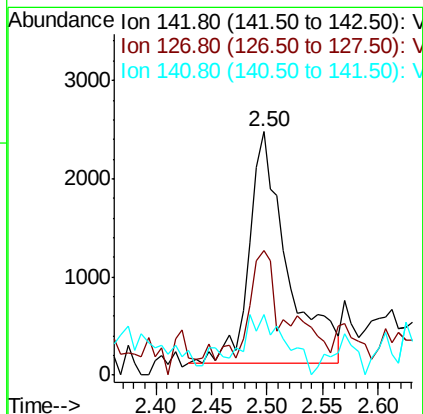
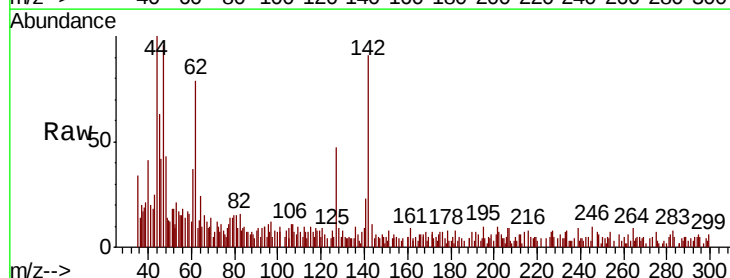
Tgt Ion: 142 Resp: 5649

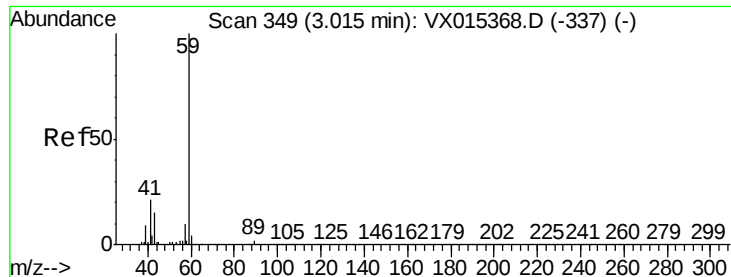
Ion Ratio Lower Upper

142 100

127 31.2 35.9 53.9#

141 27.7 11.6 17.4#

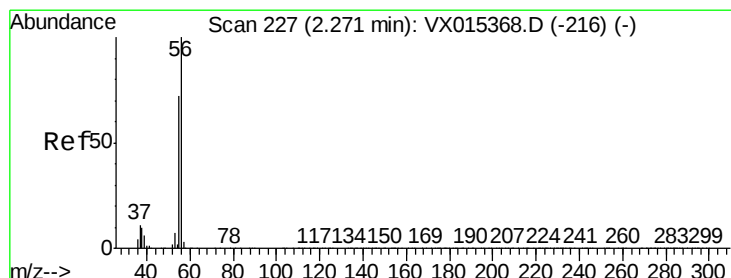
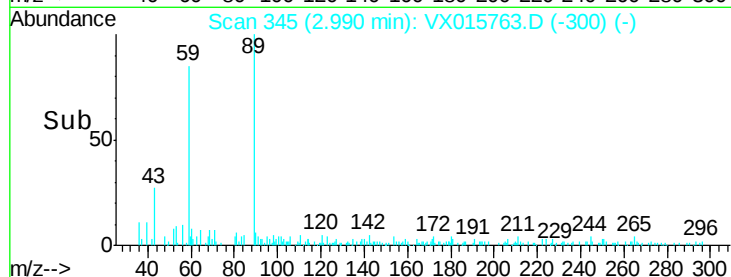
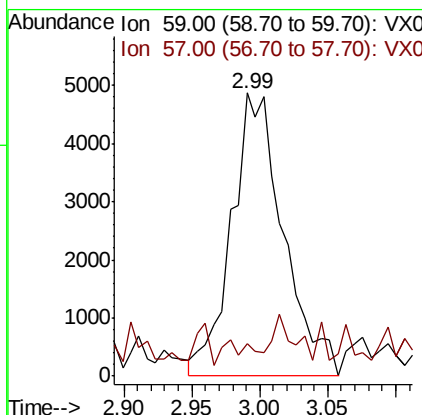
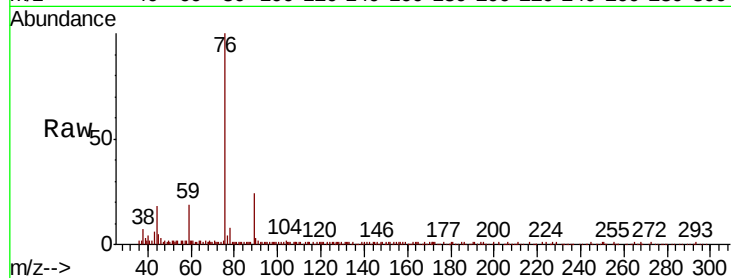




#11
Tert butvl alcohol
Concen: 3.624 ug/l
RT: 2.99 min Scan# 345
Delta R.T. -0.02 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

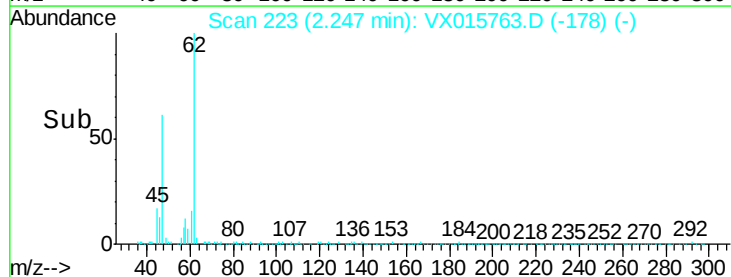
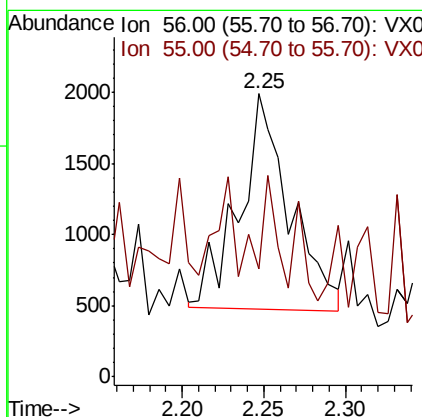
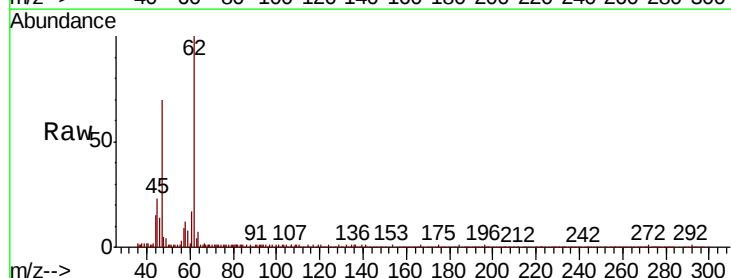
Instrument :
MSVOA_X
ClientSampled :

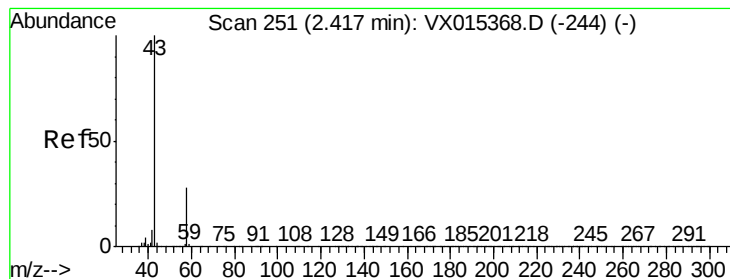
Tot Ion: 59 Resp: 12978
Ion Ratio Lower Upper
59 100
57 1.0 8.1 12.1#



#13
Acrolein
Concen: 1.602 ug/l
RT: 2.25 min Scan# 223
Delta R.T. -0.02 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

Tgt Ion: 56 Resp: 3267
Ion Ratio Lower Upper
56 100
55 12.2 57.0 85.4#





#16

Acetone

Concen: 26.218 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

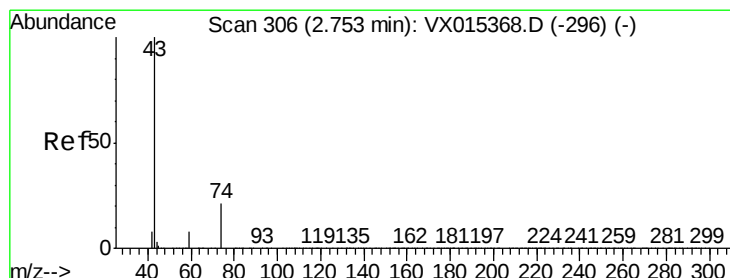
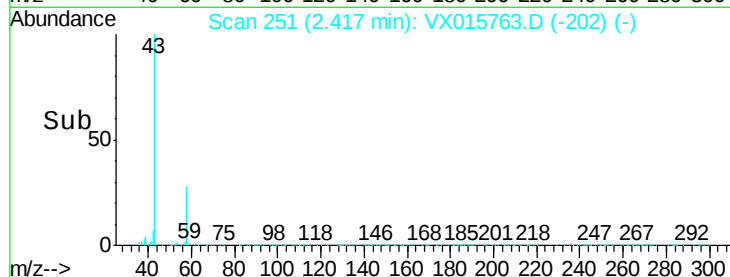
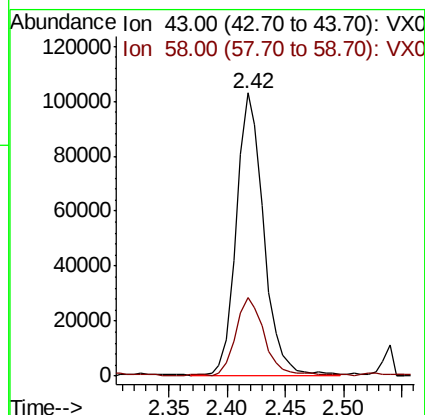
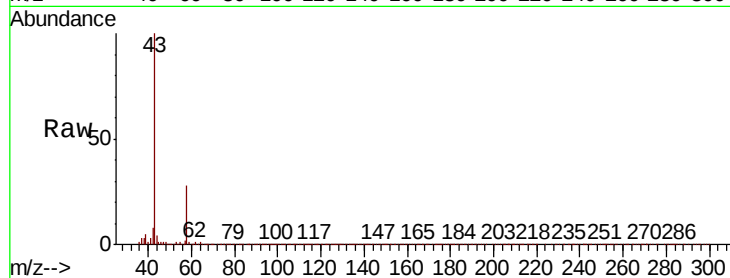
ClientSampleId :

Tot Ion: 43 Resp: 168523

Ion Ratio Lower Upper

43 100

58 27.3 22.1 33.1



#18

Methyl Acetate

Concen: 0.264 ug/l

RT: 2.76 min Scan# 307

Delta R.T. 0.01 min

Lab File: VX015763.D

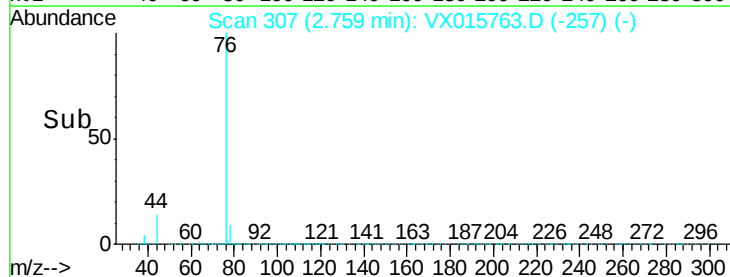
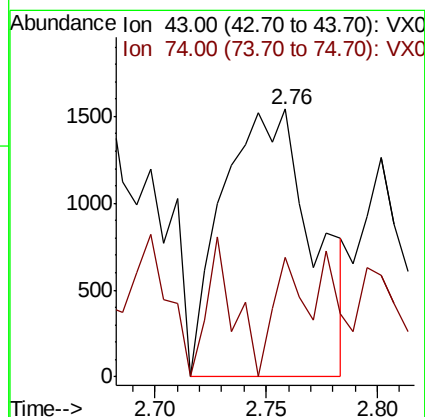
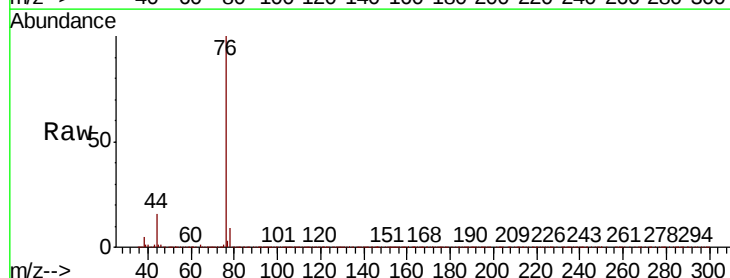
Acq: 20 Apr 2020 14:19

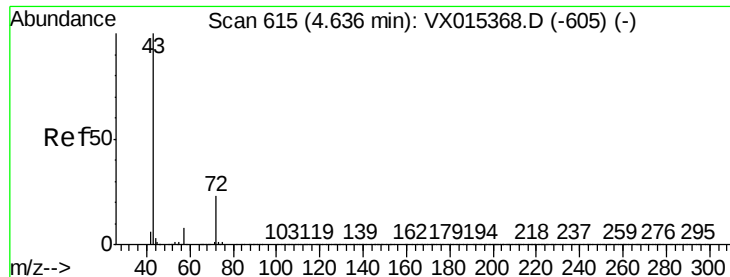
Tgt Ion: 43 Resp: 4328

Ion Ratio Lower Upper

43 100

74 15.7 16.5 24.7#

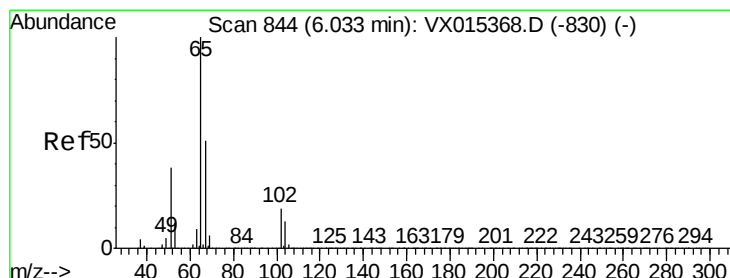
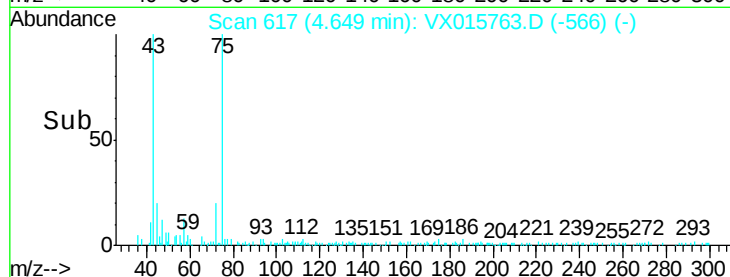
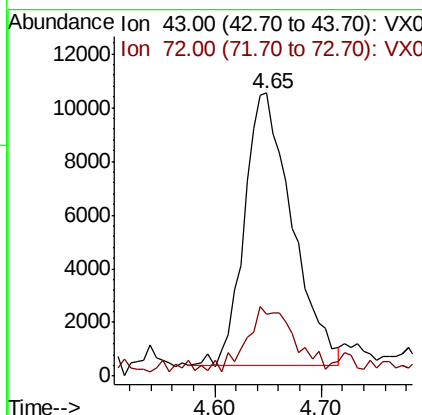
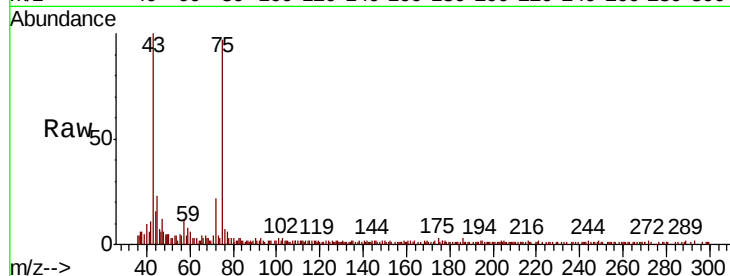




#25
2-Butanone
Concen: 3.090 ug/l
RT: 4.65 min Scan# 617
Delta R.T. 0.01 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

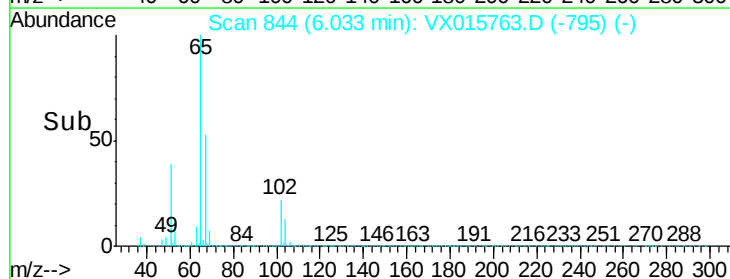
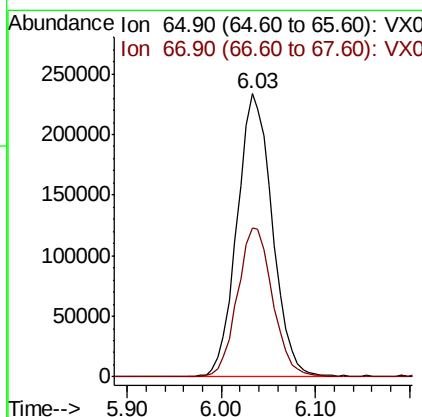
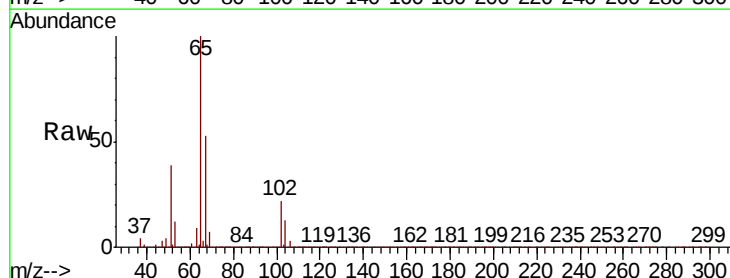
Instrument :
MSVOA_X
ClientSampleId :

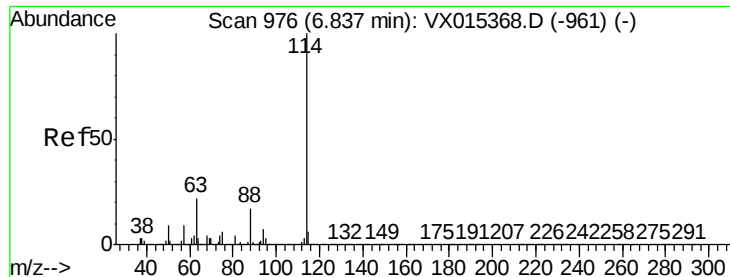
Tot Ion: 43 Resp: 31946
Ion Ratio Lower Upper
43 100
72 17.2 19.0 28.4#



#33
1,2-Dichloroethane-d4
Concen: 40.696 ug/l
RT: 6.03 min Scan# 844
Delta R.T. 0.00 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

Tgt Ion: 65 Resp: 608873
Ion Ratio Lower Upper
65 100
67 52.7 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

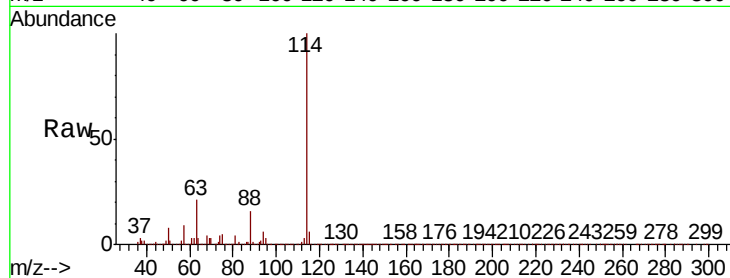
Tot Ion:114 Resp: 1645901

Ion Ratio Lower Upper

114 100

63 21.0 0.0 44.2

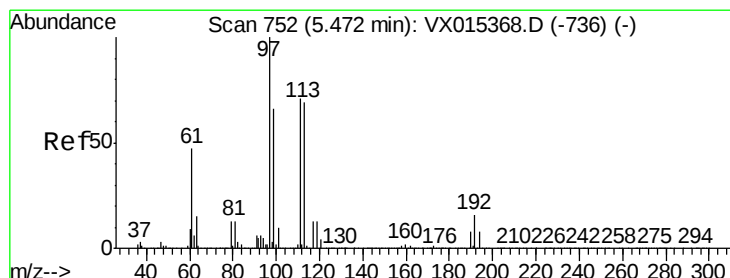
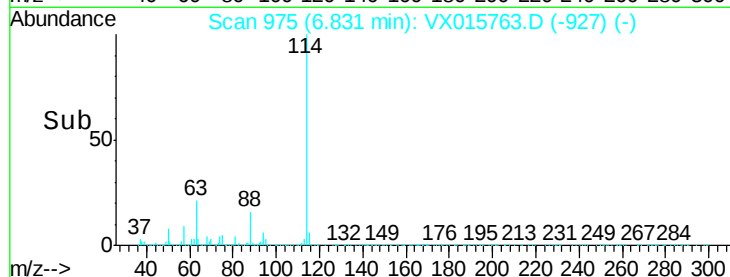
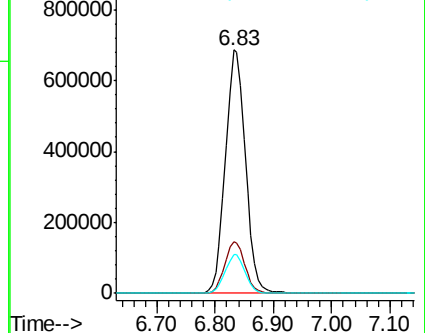
88 15.8 0.0 33.8



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: 48.189 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

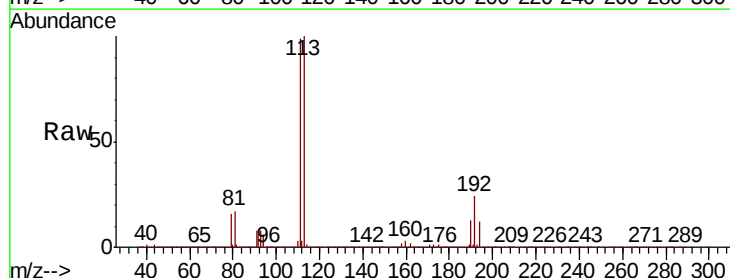
Tgt Ion:113 Resp: 506998

Ion Ratio Lower Upper

113 100

111 100.4 81.5 122.3

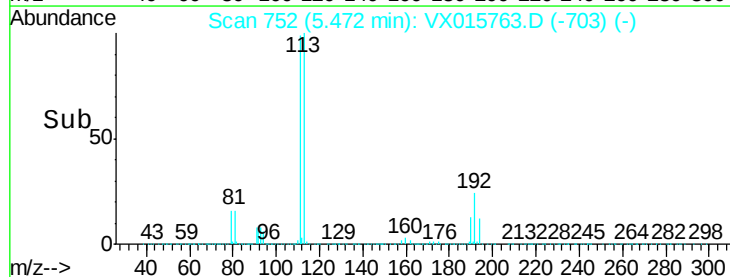
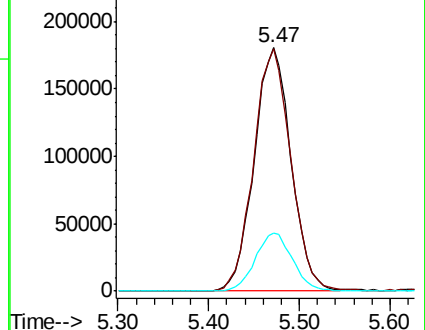
192 24.0 17.8 26.6

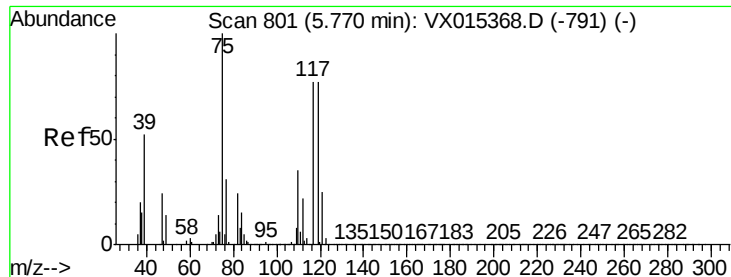


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

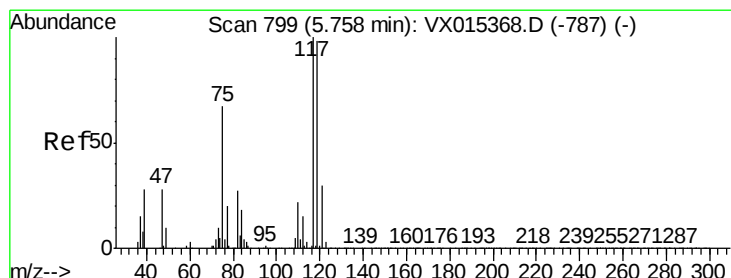
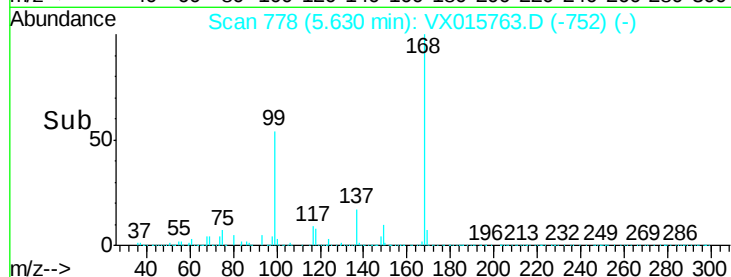
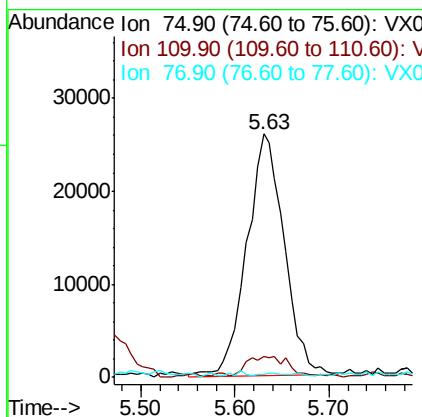
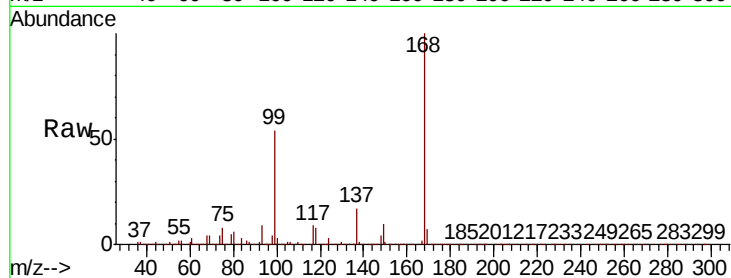




#36
 1,1-Dichloropropene
 Concen: 4.778 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015763.D
 Acq: 20 Apr 2020 14:19

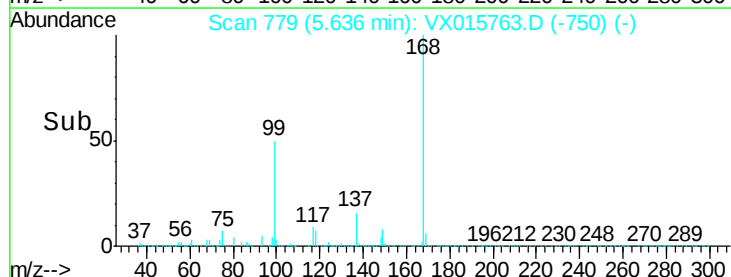
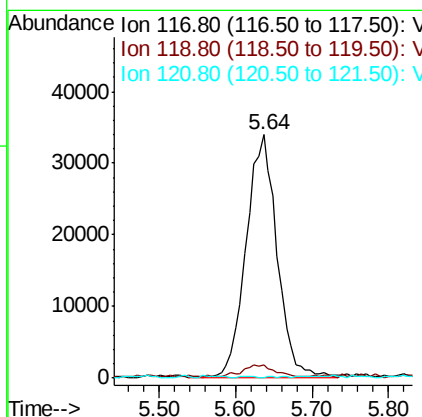
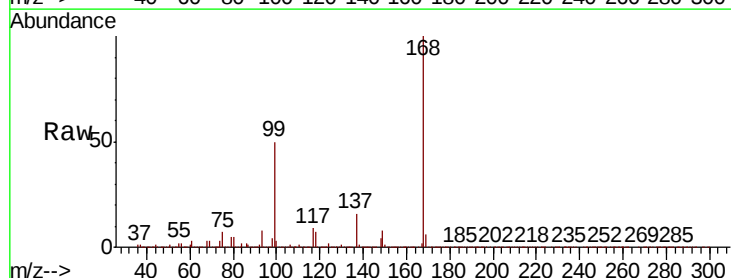
Instrument :
 MSVOA_X
 ClientSampleId :

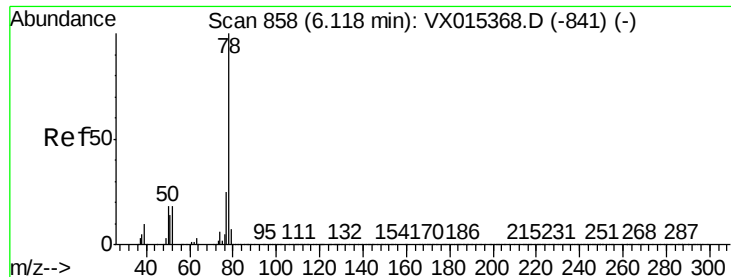
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.1	51.3#
77	0.4	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.829 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.12 min
 Lab File: VX015763.D
 Acq: 20 Apr 2020 14:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	78.0	117.0#
121	0.0	23.8	35.8#





#40

Benzene

Concen: 7.719 ug/l

RT: 6.12 min Scan# 858

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

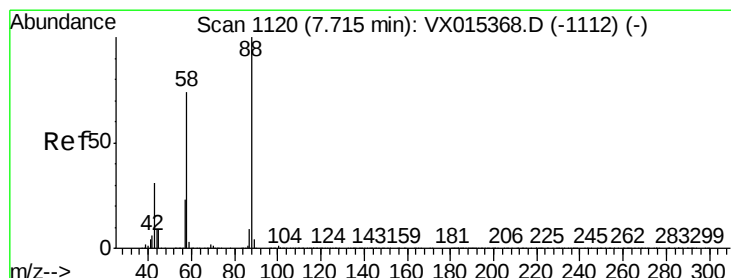
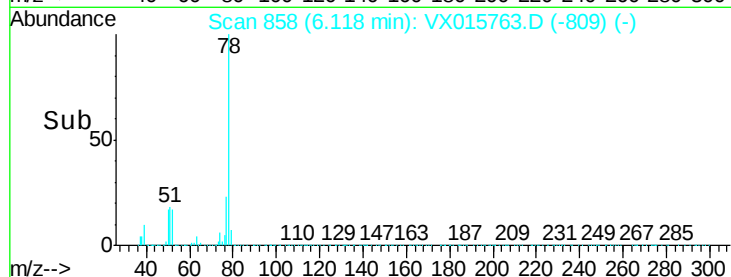
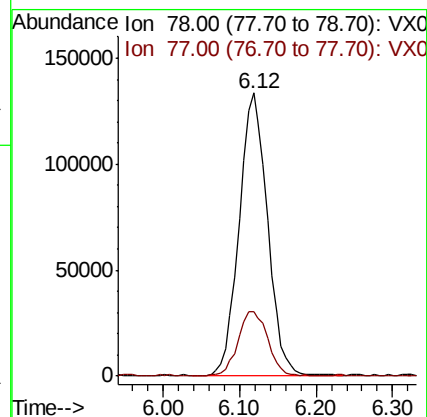
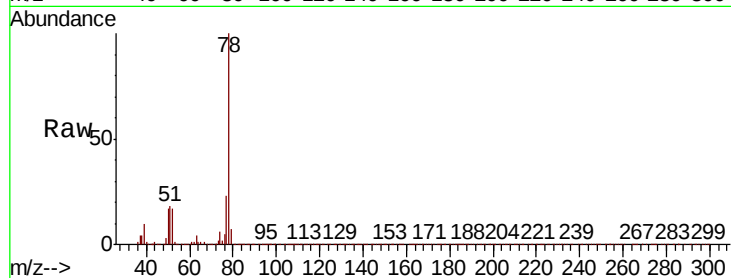
ClientSampleId :

Tot Ion: 78 Resp: 342907

Ion Ratio Lower Upper

78 100

77 22.7 19.8 29.8



#49

1,4-Dioxane

Concen: 1.368 ug/l

RT: 7.69 min Scan# 1116

Delta R.T. -0.02 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

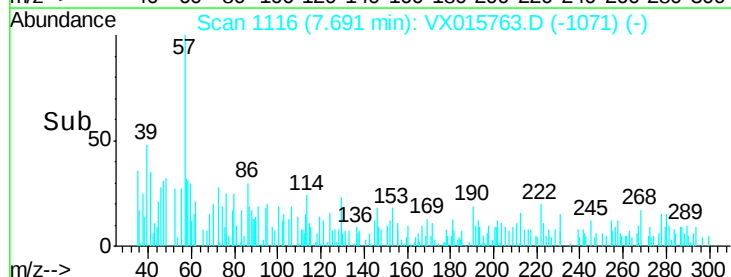
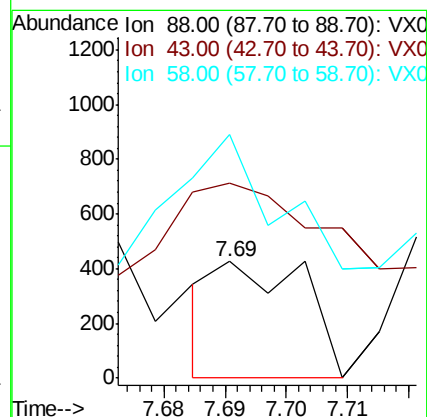
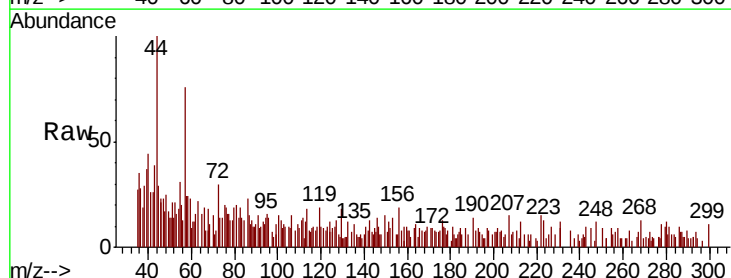
Tgt Ion: 88 Resp: 425

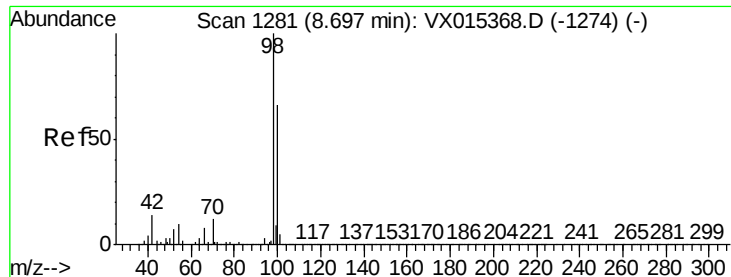
Ion Ratio Lower Upper

88 100

43 101.2 30.1 45.1#

58 224.7 60.6 90.8#

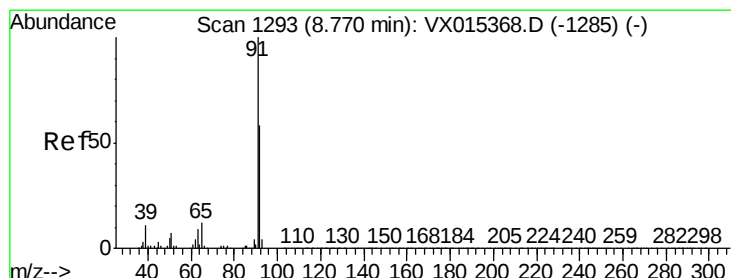
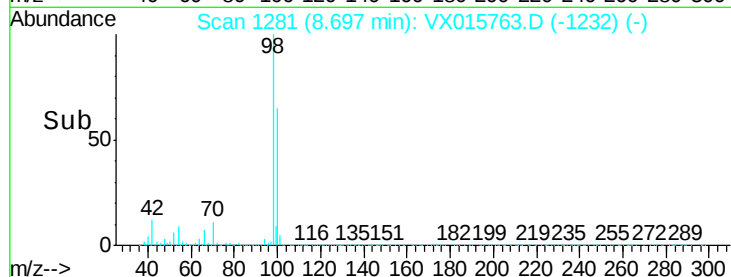
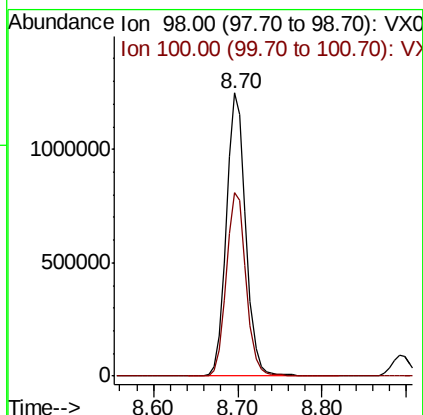
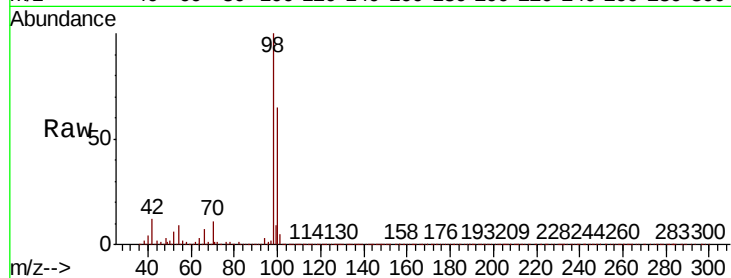




#50
Toluene-d8
Concen: 50.933 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

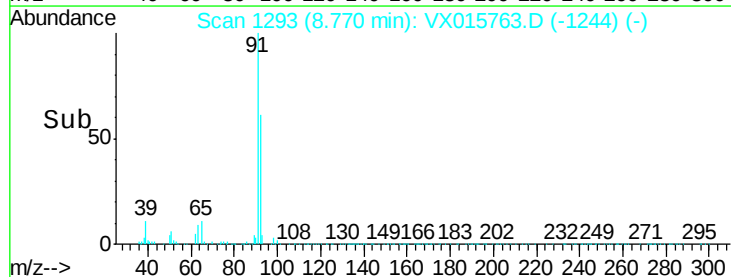
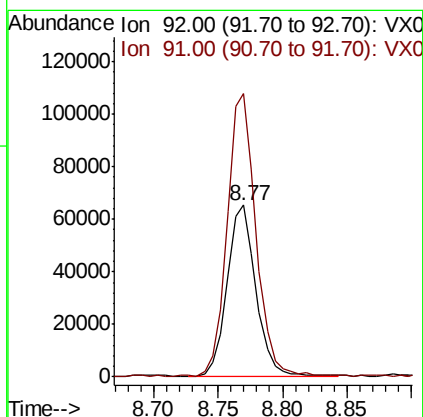
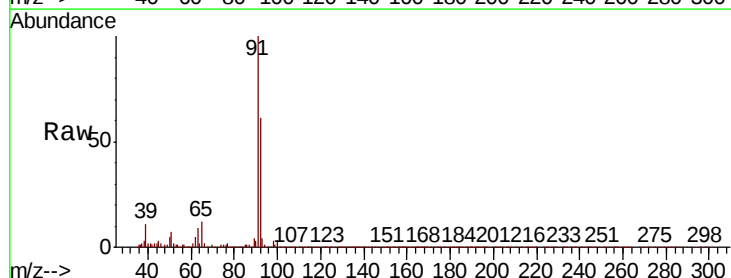
Instrument :
MSVOA_X
ClientSampled :

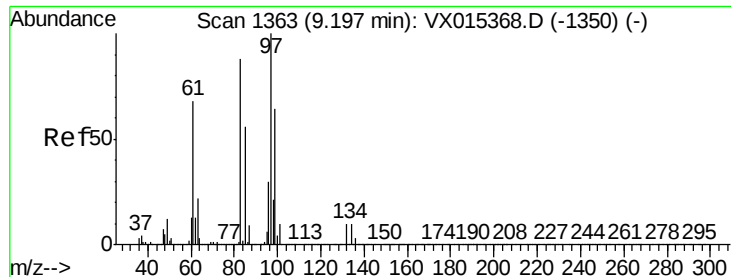
Tot Ion: 98 Resp: 1972942
Ion Ratio Lower Upper
98 100
100 65.9 53.5 80.3



#52
Toluene
Concen: 3.703 ug/l
RT: 8.77 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

Tgt Ion: 92 Resp: 101418
Ion Ratio Lower Upper
92 100
91 163.8 136.6 205.0





#55

1,1,2-Trichloroethane

Concen: 3.486 ug/l

RT: 9.06 min Scan# 1340

Delta R.T. -0.14 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 97 Resp: 39119

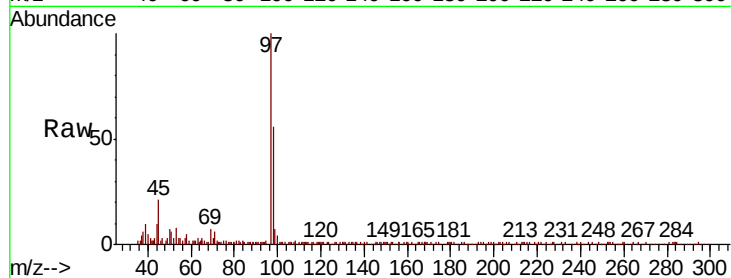
Ion Ratio Lower Upper

97 100

83 0.0 70.2 105.4#

85 0.0 44.7 67.1#

99 6.3 51.1 76.7#

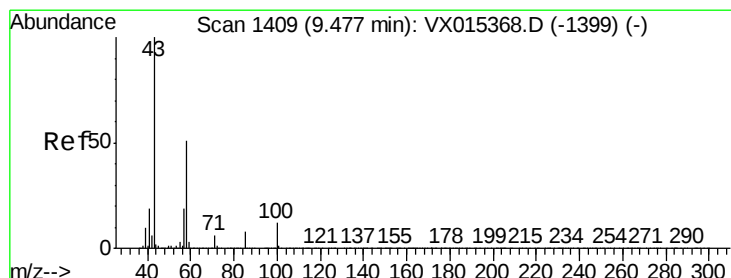
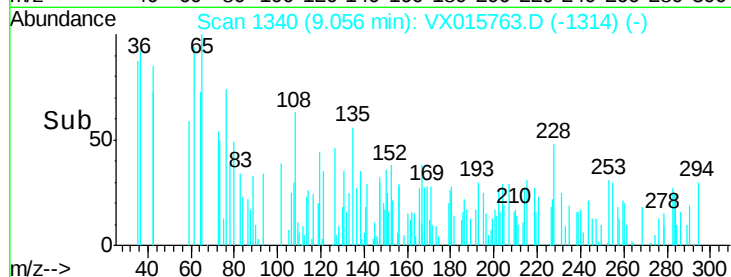
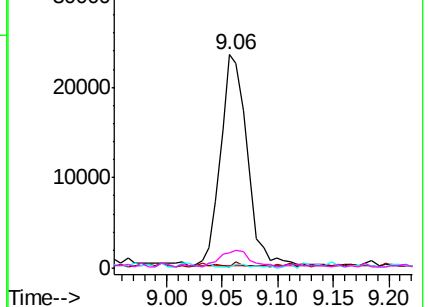


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#59

2-Hexanone

Concen: 0.228 ug/l

RT: 9.47 min Scan# 1408

Delta R.T. -0.01 min

Lab File: VX015763.D

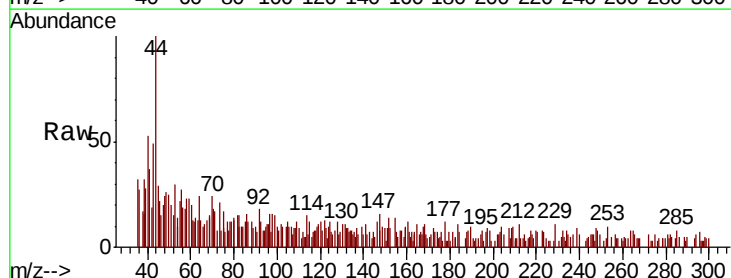
Acq: 20 Apr 2020 14:19

Tgt Ion: 43 Resp: 3249

Ion Ratio Lower Upper

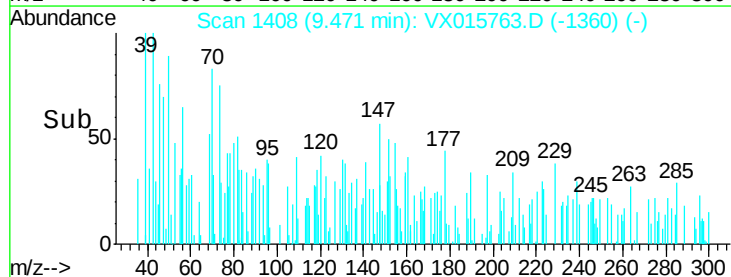
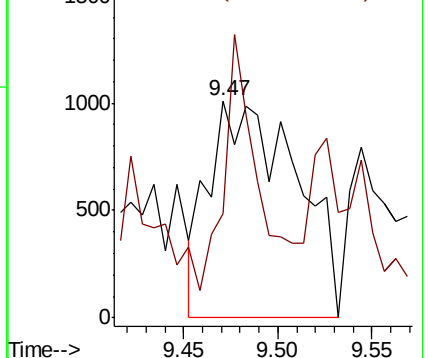
43 100

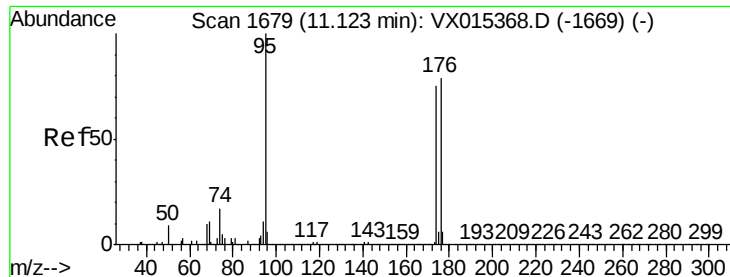
58 44.5 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.299 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

ClientSampled :

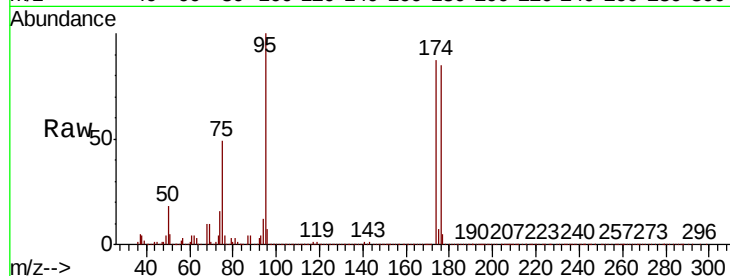
Tot Ion: 95 Resp: 823299

Ion Ratio Lower Upper

95 100

174 84.5 0.0 158.6

176 87.3 0.0 159.0

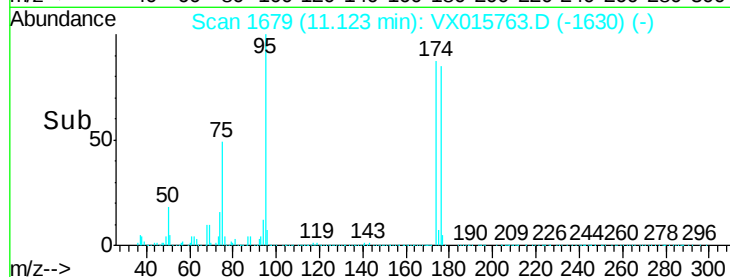


Abundance Ion 94.90 (94.60 to 95.60): VX015763.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015763.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015763.D (-1669) (-)

Time-->

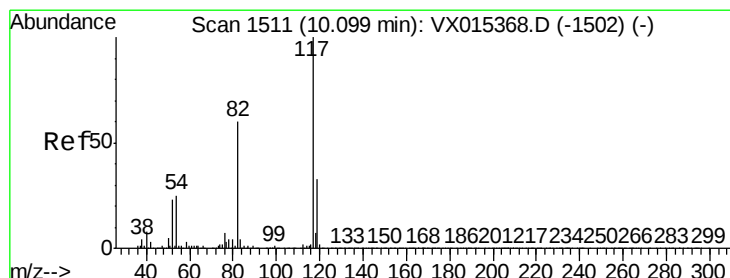


Abundance Ion 94.90 (94.60 to 95.60): VX015763.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015763.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015763.D (-1669) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

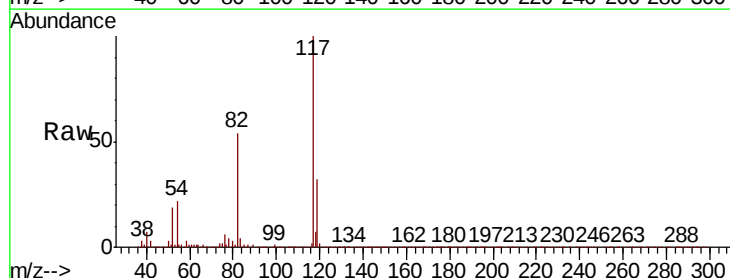
Tgt Ion: 117 Resp: 1611256

Ion Ratio Lower Upper

117 100

82 54.1 47.8 71.8

119 31.9 26.8 40.2

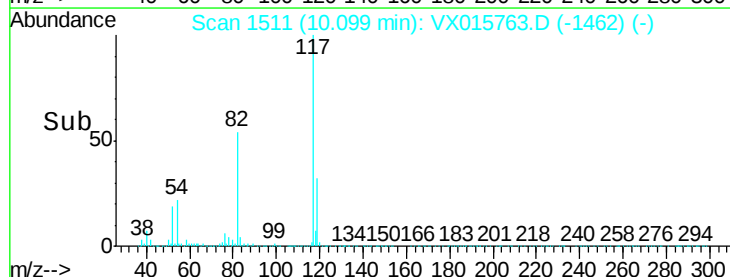


Abundance Ion 116.90 (116.60 to 117.60): VX015763.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015763.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015763.D (-1462) (-)

Time-->

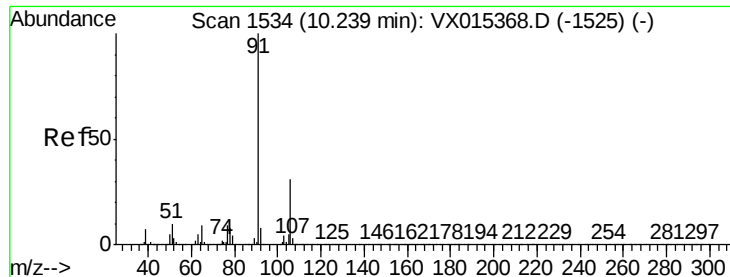


Abundance Ion 116.90 (116.60 to 117.60): VX015763.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015763.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015763.D (-1462) (-)

Time-->



#67

Ethyl Benzene

Concen: 1.255 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

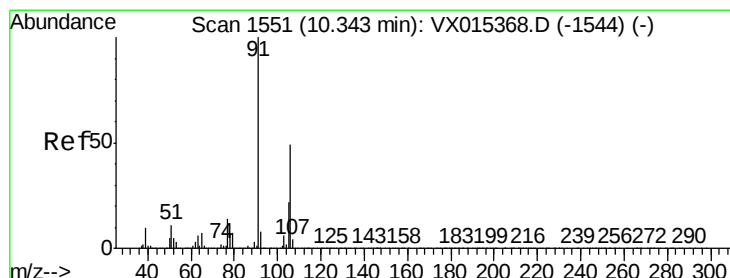
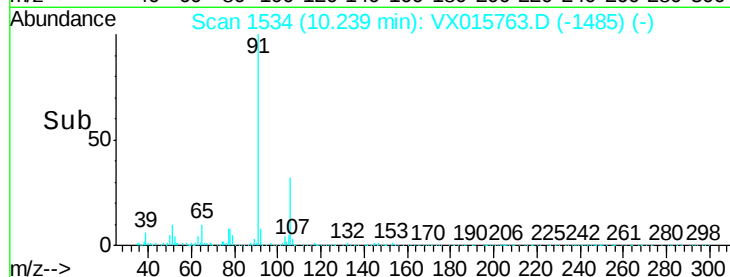
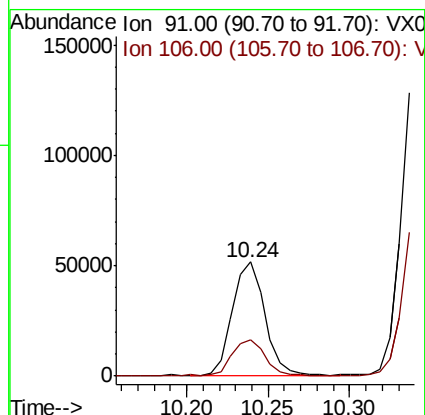
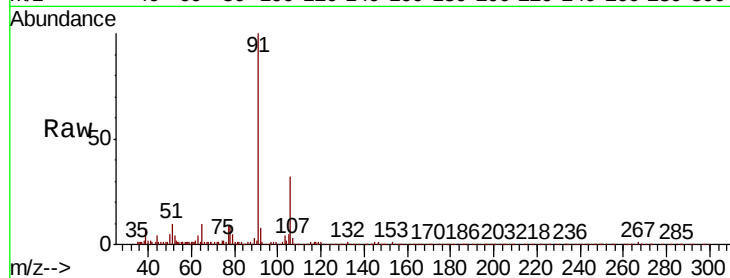
ClientSampled :

Tot Ion: 91 Resp: 71508

Ion Ratio Lower Upper

91 100

106 32.1 24.8 37.2



#68

m/p-Xylenes

Concen: 5.557 ug/l

RT: 10.34 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VX015763.D

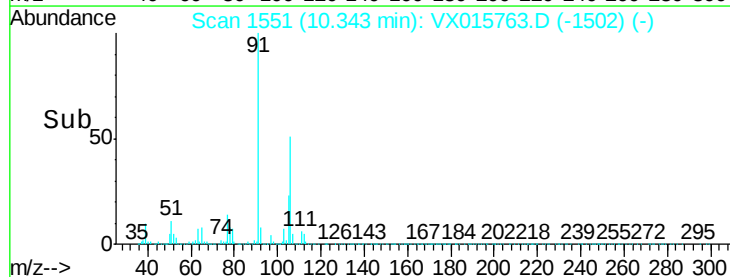
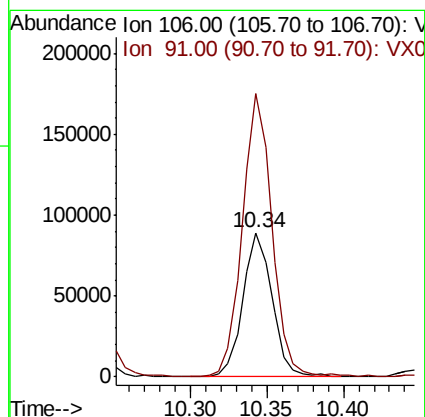
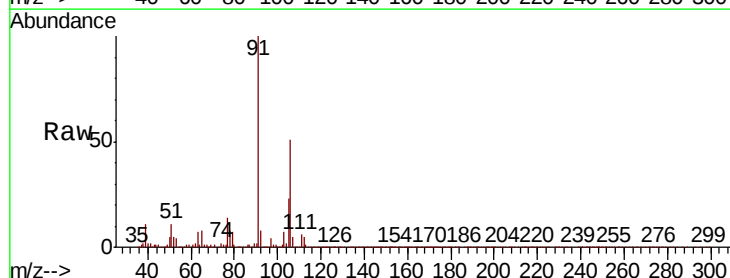
Acq: 20 Apr 2020 14:19

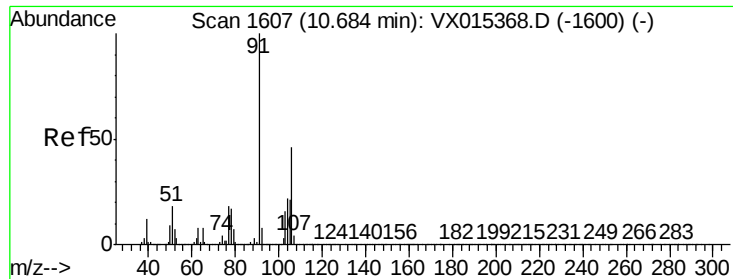
Tgt Ion: 106 Resp: 117933

Ion Ratio Lower Upper

106 100

91 197.9 163.4 245.0

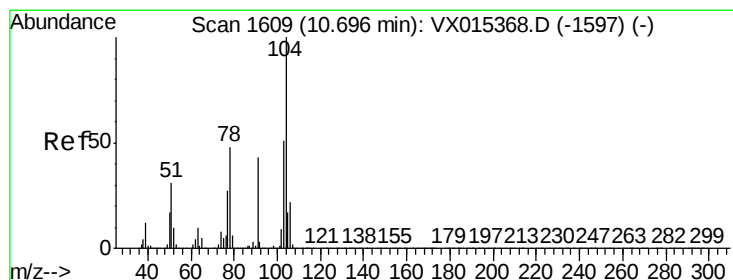
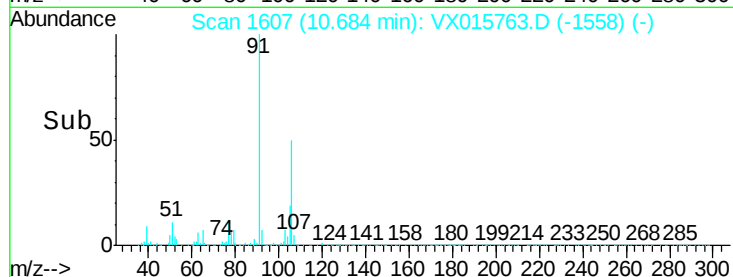
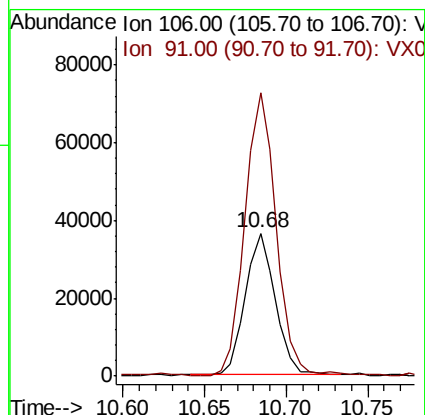
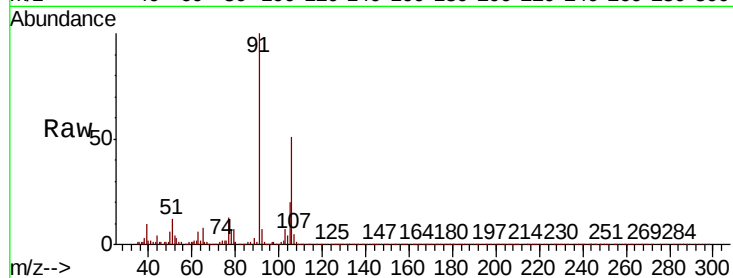




#69
o-Xylene
Concen: 2.216 ug/l
RT: 10.68 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

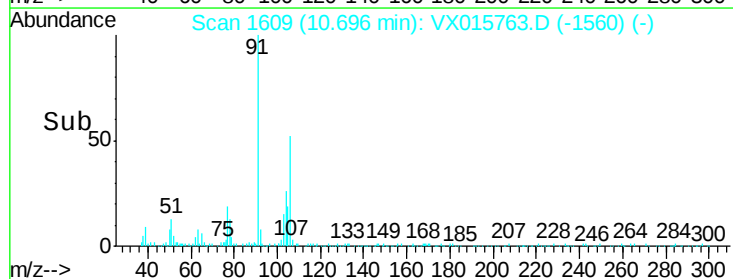
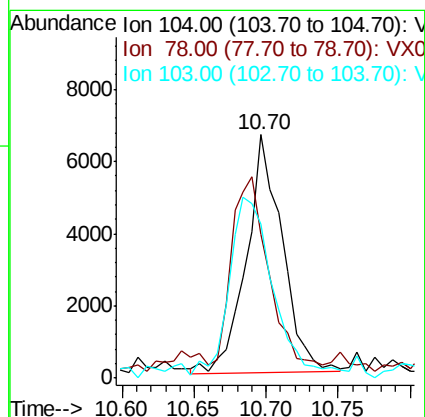
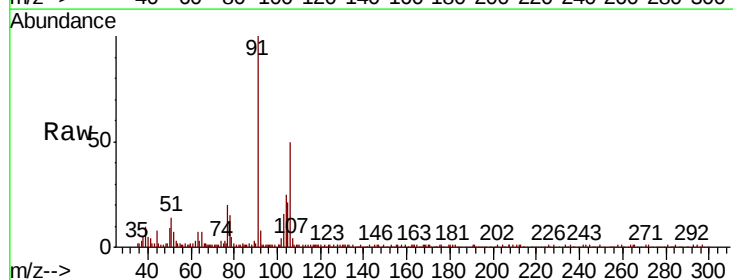
Instrument :
MSVOA_X
ClientSampleId :

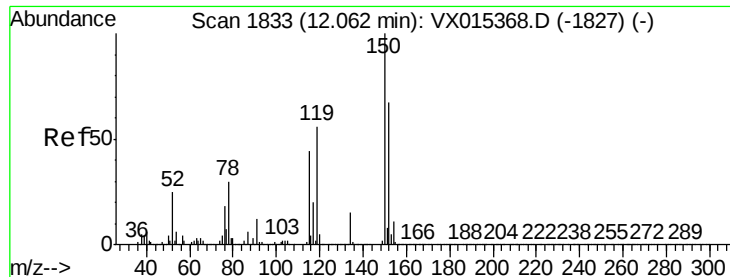
Tot Ion:106 Resp: 46477
Ion Ratio Lower Upper
106 100
91 209.7 107.1 321.3



#70
Styrene
Concen: 0.309 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

Tgt Ion:104 Resp: 11403
Ion Ratio Lower Upper
104 100
78 86.6 42.0 63.0#
103 91.2 43.4 65.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

ClientSampled :

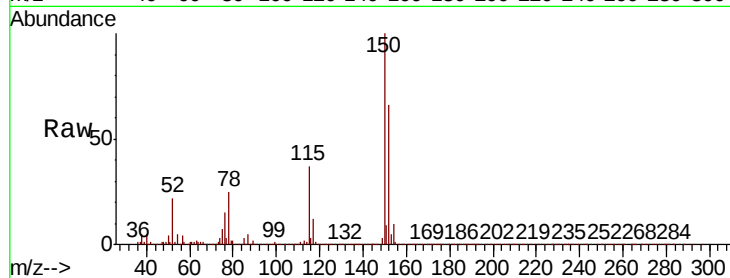
Tot Ion:152 Resp: 870775

Ion Ratio Lower Upper

152 100

115 57.1 39.0 116.9

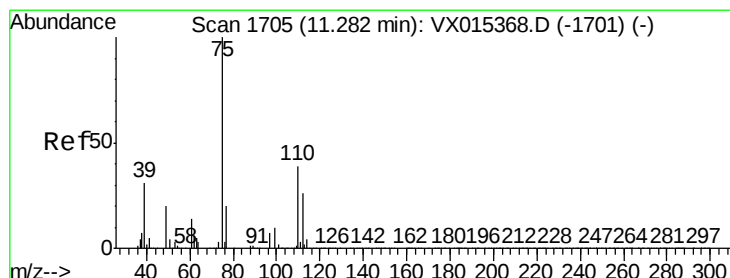
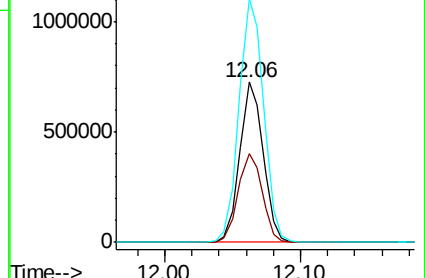
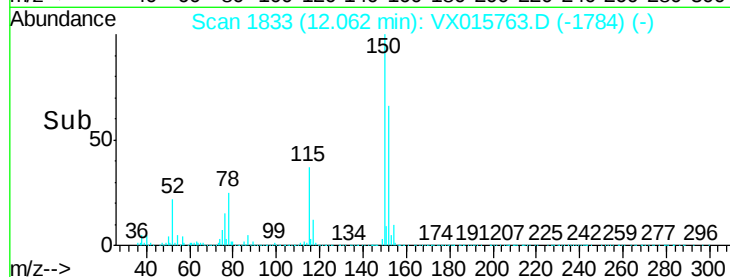
150 158.7 0.0 340.8



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: 23.086 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015763.D

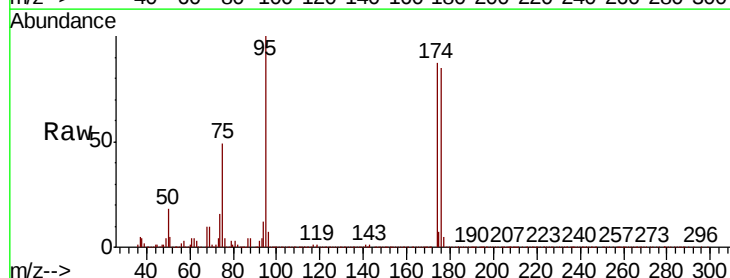
Acq: 20 Apr 2020 14:19

Tgt Ion: 75 Resp: 413393

Ion Ratio Lower Upper

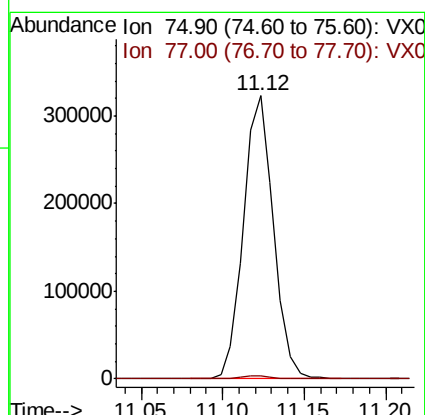
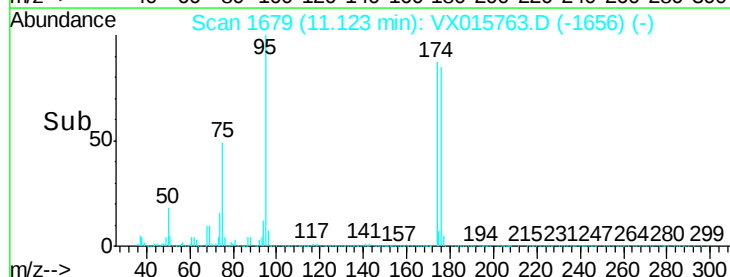
75 100

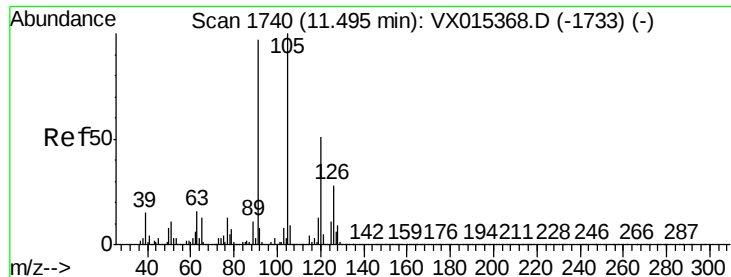
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.362 ug/l

RT: 11.49 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

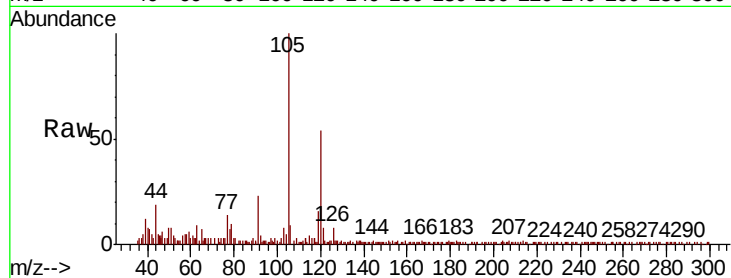
ClientSampleId :

Tot Ion:105 Resp: 17631

Ion Ratio Lower Upper

105 100

120 51.8 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

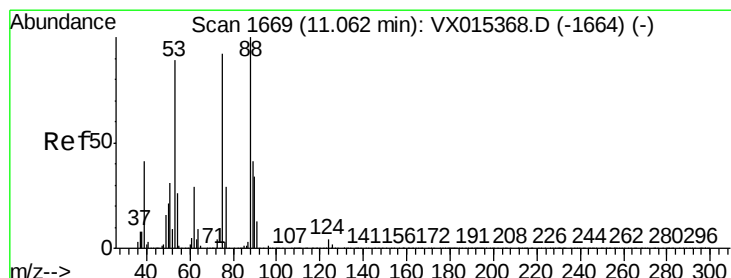
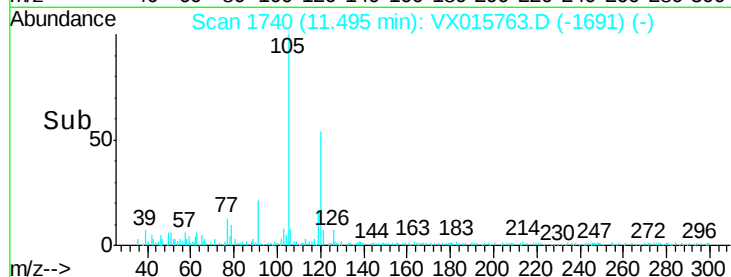
15000

10000

5000

0

Time--> 11.45 11.50 11.55



#81

trans-1,4-Dichloro-2-butene

Concen: 55.393 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

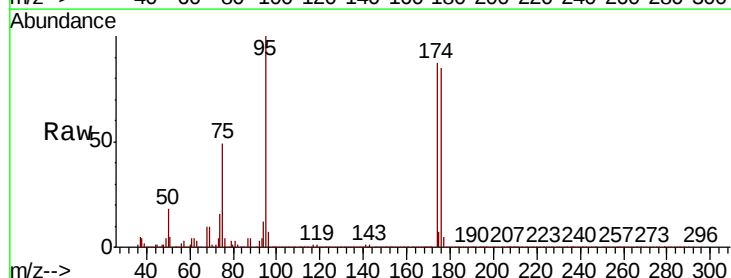
Tgt Ion: 75 Resp: 413393

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.12

400000

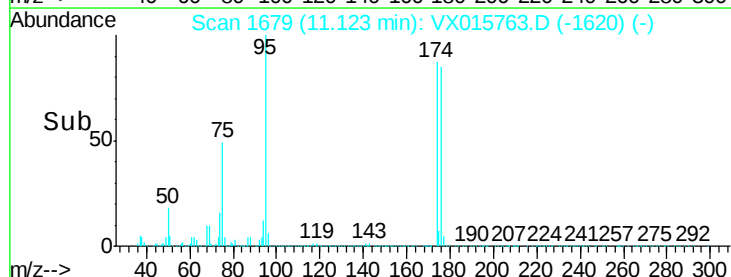
300000

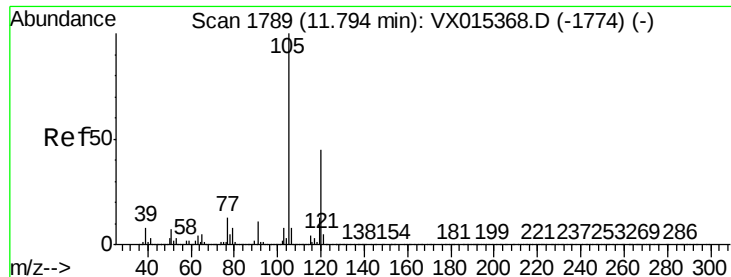
200000

100000

0

Time--> 11.05 11.10 11.15 11.20





#84

1,2,4-Trimethylbenzene

Concen: 1.242 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

Instrument :

MSVOA_X

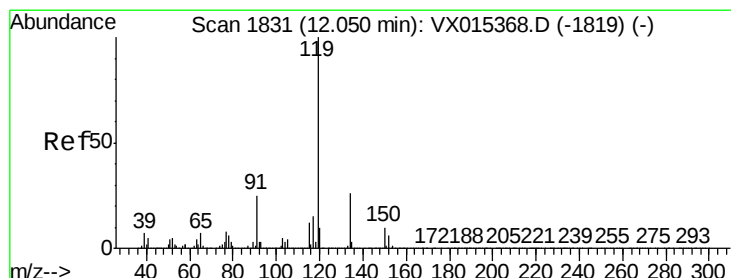
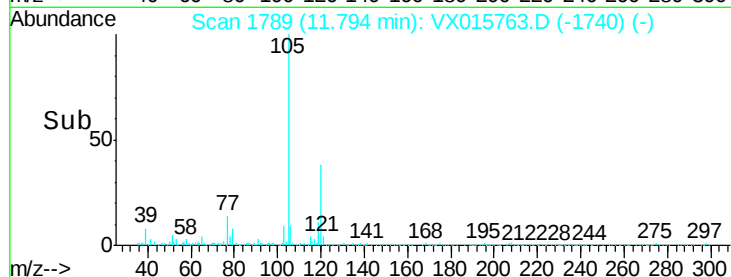
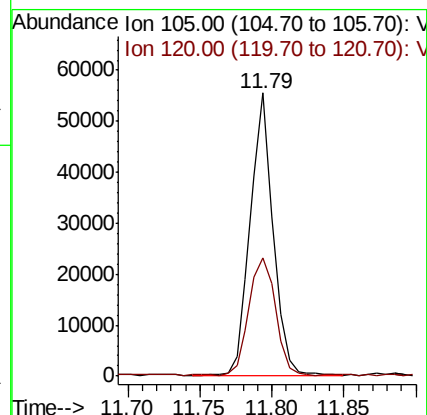
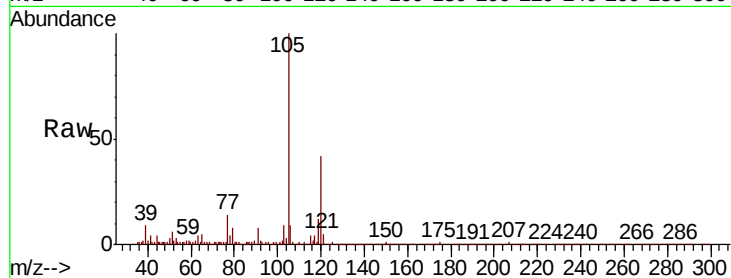
ClientSampleId :

Tot Ion:105 Resp: 61686

Ion Ratio Lower Upper

105 100

120 47.8 22.7 68.1



#86

p-Isopropyltoluene

Concen: 0.279 ug/l

RT: 12.05 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VX015763.D

Acq: 20 Apr 2020 14:19

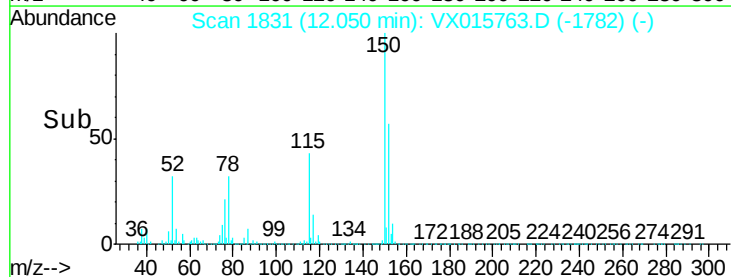
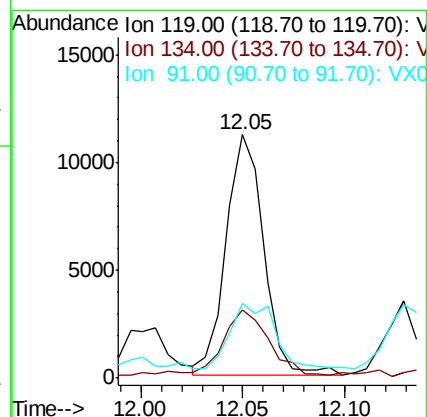
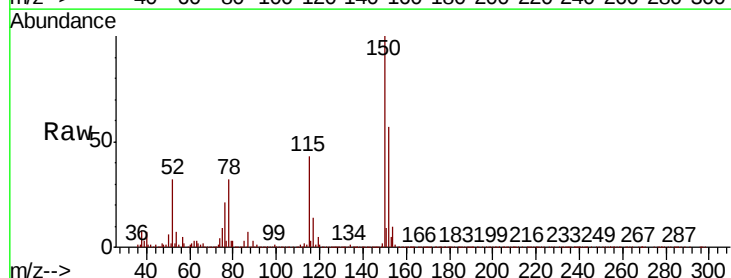
Tgt Ion:119 Resp: 14232

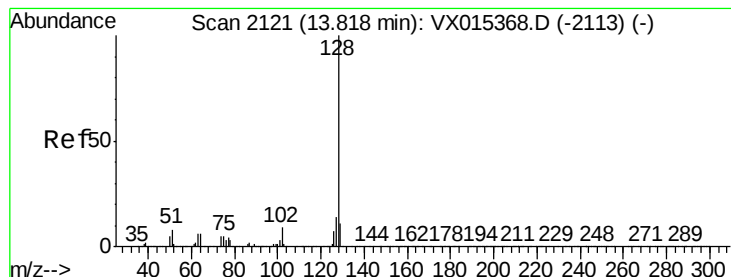
Ion Ratio Lower Upper

119 100

134 34.4 13.1 39.3

91 39.4 12.4 37.4#





#95
Naphthalene
Concen: 70.135 ug/l
RT: 13.82 min Scan# 2121
Delta R.T. 0.00 min
Lab File: VX015763.D
Acq: 20 Apr 2020 14:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 4511846
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 11.0 8.8 13.2

