

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO041020\
 Data File : VX015623.D
 Acq On : 10 Apr 2020 15:56
 Operator : JC/SP
 Sample : L2209-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 400408744.2-VOA

Quant Time: Apr 11 02:20:14 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	1099763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1735654	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1688356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	943478	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	714076	46.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.08%	
35) Dibromofluoromethane	5.47	113	528974	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	
50) Toluene-d8	8.70	98	2083353	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
62) 4-Bromofluorobenzene	11.12	95	896145	53.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.96%	

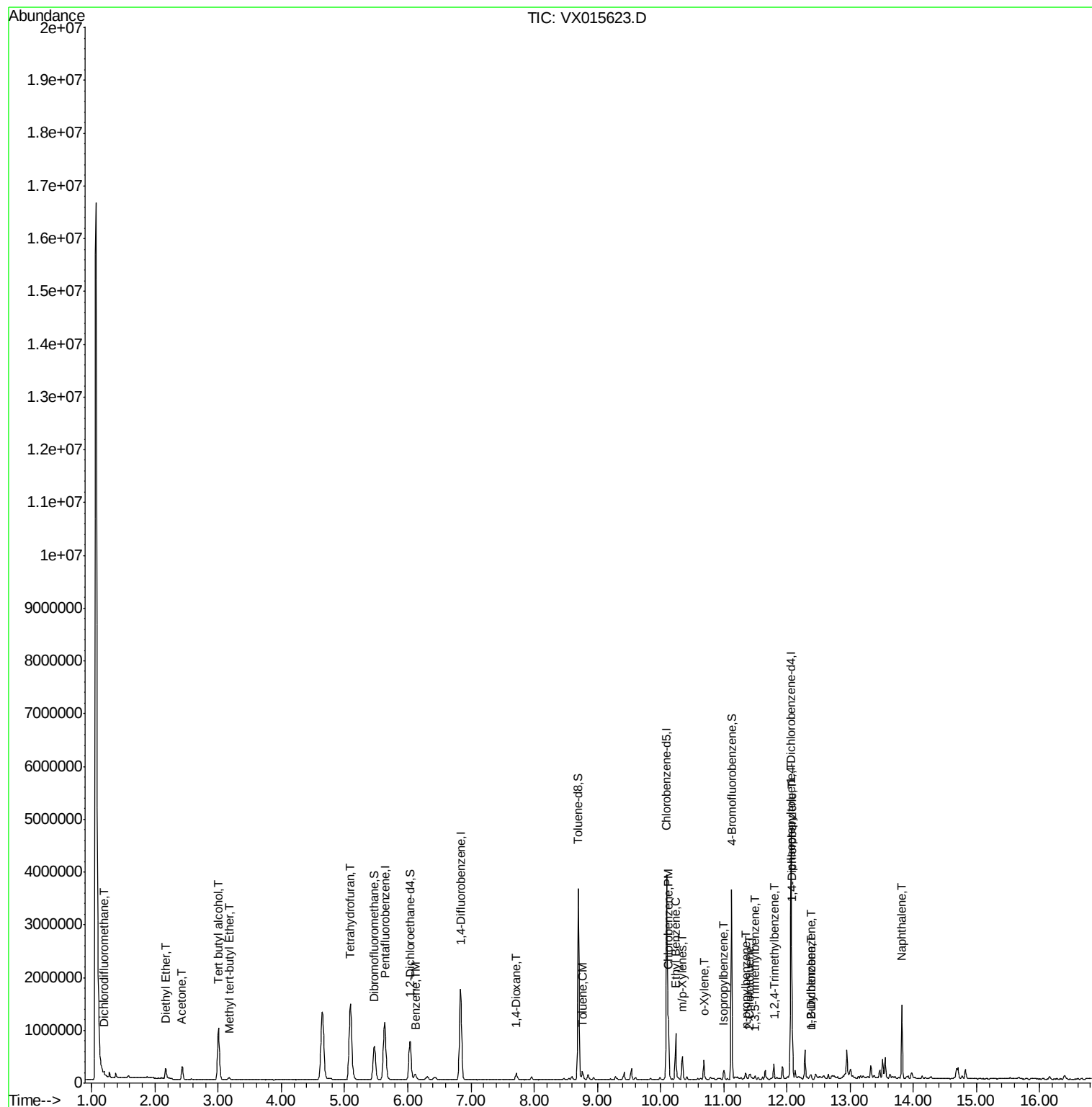
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	4075	0.421	ug/l	90
8) Diethyl Ether	2.17	74	61627	9.616	ug/l	95
11) Tert butyl alcohol	3.00	59	1191204	320.851	ug/l	99
16) Acetone	2.42	43	54534	8.184	ug/l	97
19) Methyl tert-butyl Ether	3.17	73	41220	1.024	ug/l	95
29) Tetrahydrofuran	5.09	42	1400049	203.212	ug/l	99
40) Benzene	6.12	78	129121	2.756	ug/l	92
49) 1,4-Dioxane	7.72	88	91172	278.356	ug/l	98
52) Toluene	8.76	92	47898	1.658	ug/l	89
65) Chlorobenzene	10.12	112	427969	12.710	ug/l	94
67) Ethyl Benzene	10.24	91	524249	8.779	ug/l	100
68) m/p-Xylenes	10.34	106	91821	4.129	ug/l	97
69) o-Xylene	10.68	106	78882	3.590	ug/l	99
73) Isopropylbenzene	11.01	105	85297	1.380	ug/l	99
78) n-propylbenzene	11.34	91	56631	0.801	ug/l	97
79) 2-Chlorotoluene	11.40	91	36778	0.849	ug/l	93
80) 1,3,5-Trimethylbenzene	11.50	105	22705	0.430	ug/l	97
84) 1,2,4-Trimethylbenzene	11.79	105	119813	2.227	ug/l	98
86) p-Isopropyltoluene	12.05	119	20944	0.378	ug/l	85
88) 1,4-Dichlorobenzene	12.08	146	287098	9.548	ug/l	97
89) n-Butylbenzene	12.37	91	12453	0.249	ug/l #	66
91) 1,2-Dichlorobenzene	12.38	146	19011	0.658	ug/l	97
95) Naphthalene	13.82	128	807151	11.580	ug/l	100

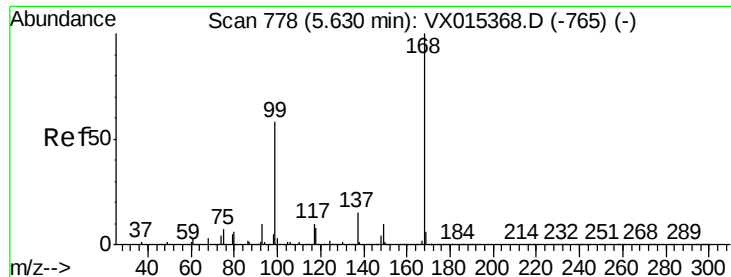
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041020\
Data File : VX015623.D
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Quant Time: Apr 11 02:20:14 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: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

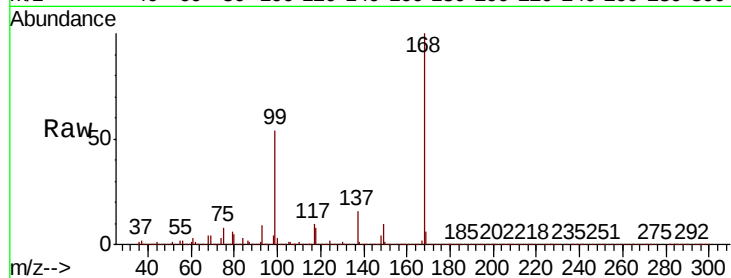
400408744.2-VOA

Tot Ion:168 Resp: 1099763

Ion Ratio Lower Upper

168 100

99 54.2 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

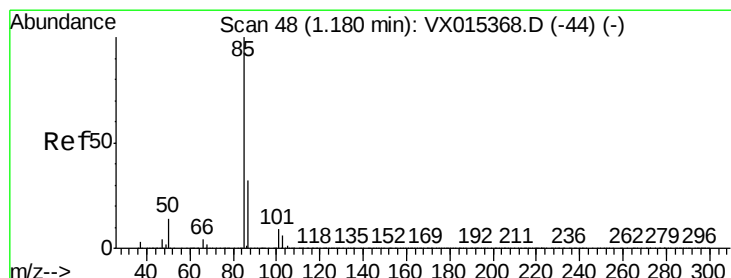
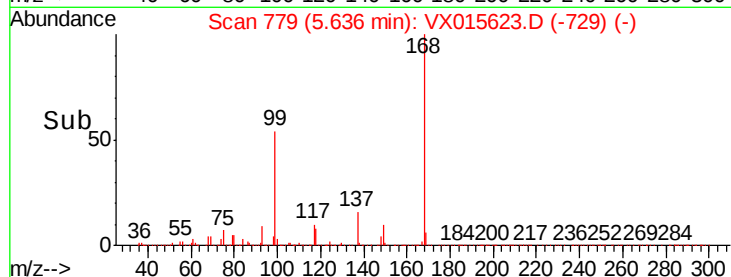
0

5.50

5.60

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.421 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.01 min

Lab File: VX015623.D

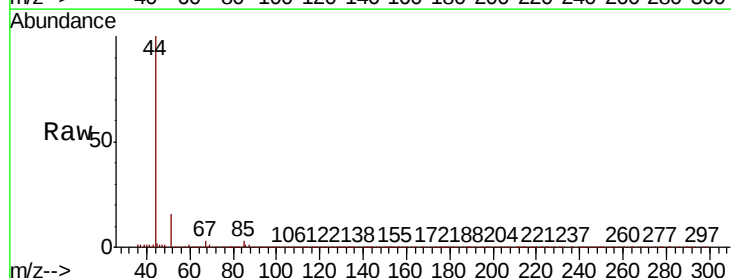
Acq: 10 Apr 2020 15:56

Tgt Ion: 85 Resp: 4075

Ion Ratio Lower Upper

85 100

87 26.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

4000

3000

2000

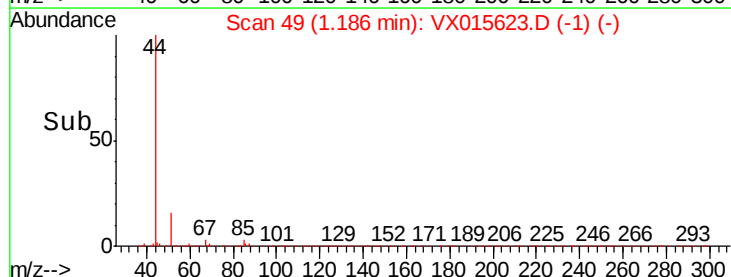
1000

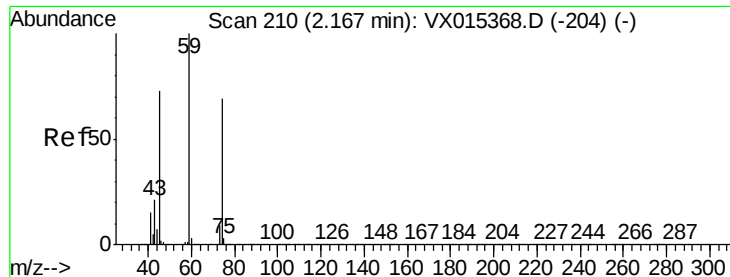
0

1.15

1.20

Time-->





#8

Diethyl Ether

Concen: 9.616 ug/l

RT: 2.17 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

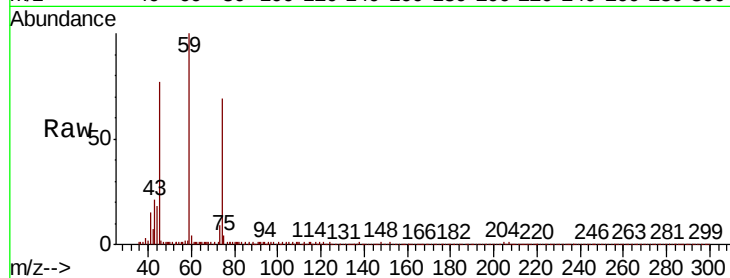
400408744.2-VOA

Tot Ion: 74 Resp: 61627

Ion Ratio Lower Upper

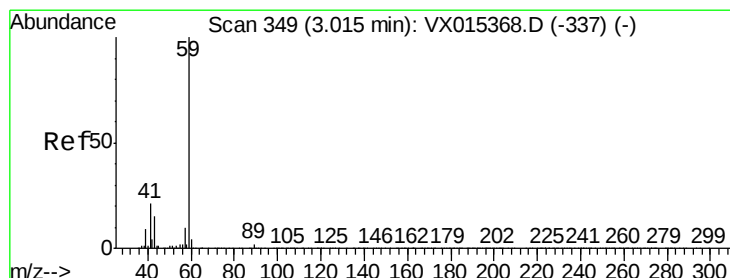
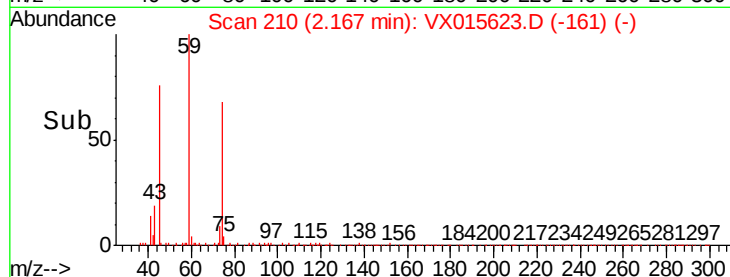
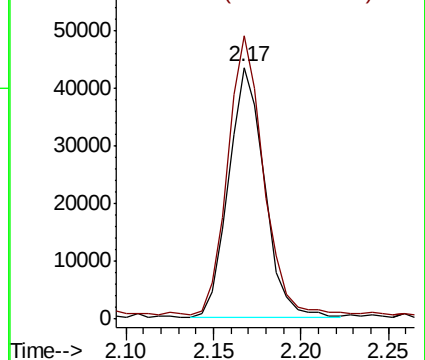
74 100

45 112.5 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 320.851 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015623.D

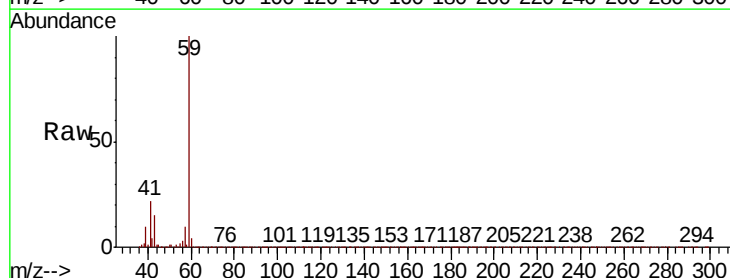
Acq: 10 Apr 2020 15:56

Tgt Ion: 59 Resp: 1191204

Ion Ratio Lower Upper

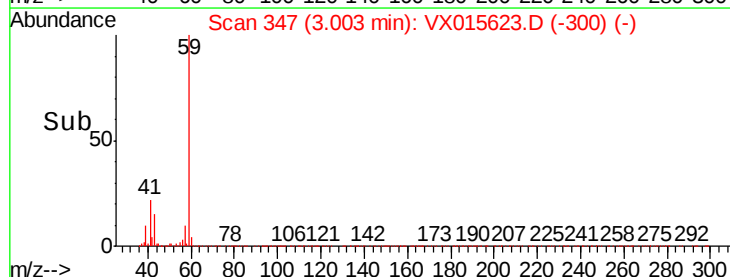
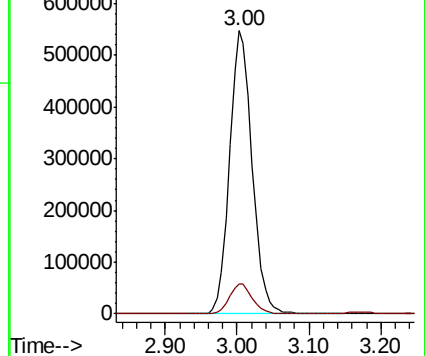
59 100

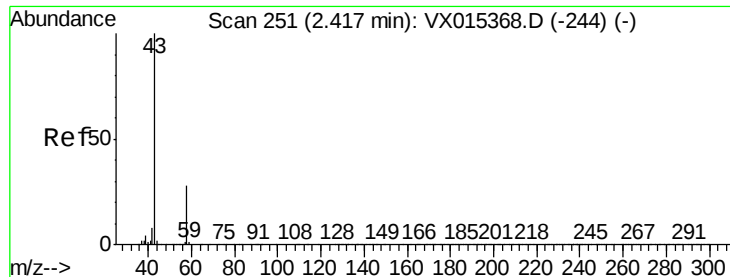
57 10.5 8.1 12.1



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 8.184 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

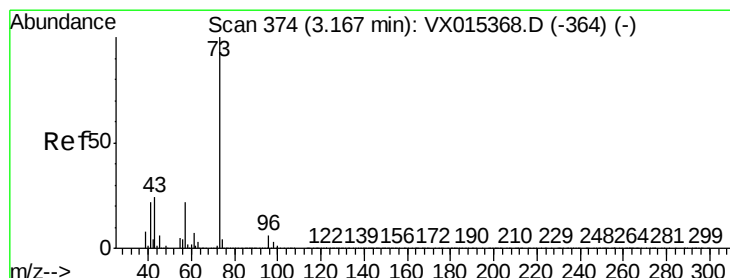
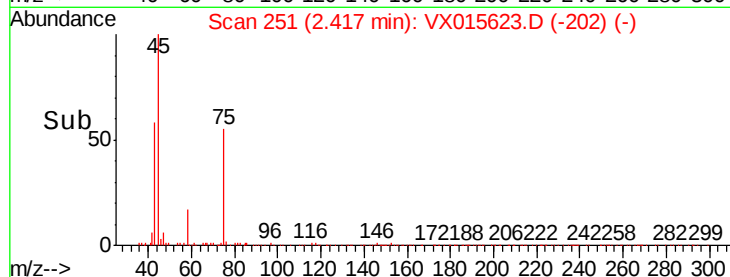
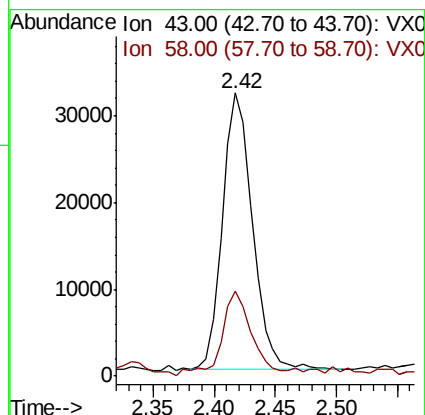
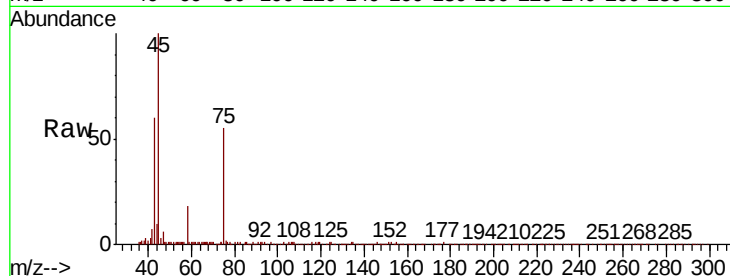
400408744.2-VOA

Tot Ion: 43 Resp: 54534

Ion Ratio Lower Upper

43 100

58 29.1 22.1 33.1



#19

Methyl tert-butyl Ether

Concen: 1.024 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.01 min

Lab File: VX015623.D

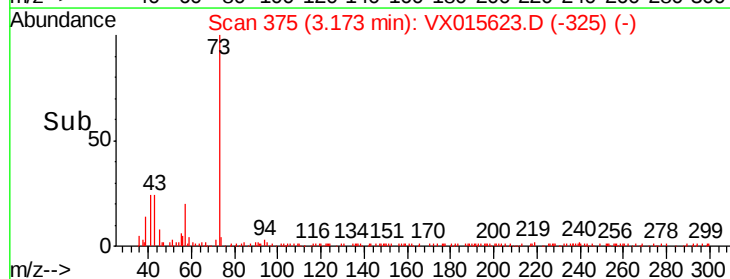
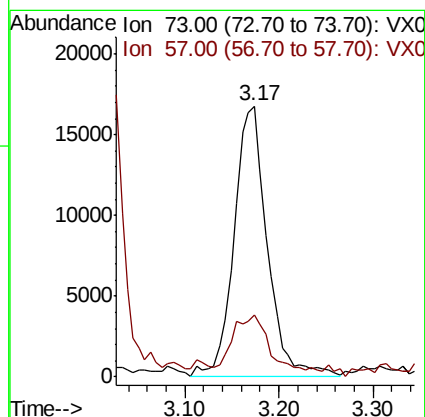
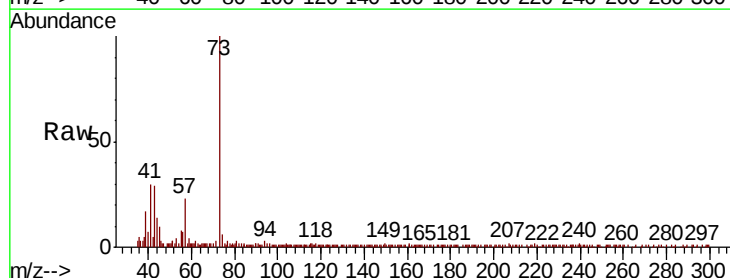
Acq: 10 Apr 2020 15:56

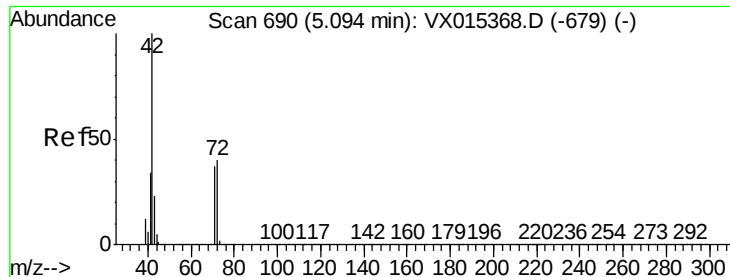
Tgt Ion: 73 Resp: 41220

Ion Ratio Lower Upper

73 100

57 20.1 17.9 26.9





#29

Tetrahydrofuran

Concen: 203.212 ug/l

RT: 5.09 min Scan# 690

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

400408744.2-VOA

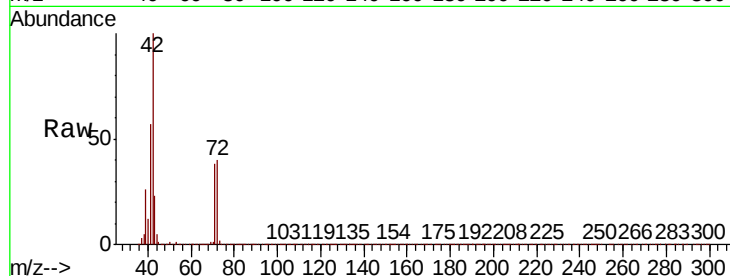
Tot Ion: 42 Resp: 1400049

Ion Ratio Lower Upper

42 100

72 39.8 31.7 47.5

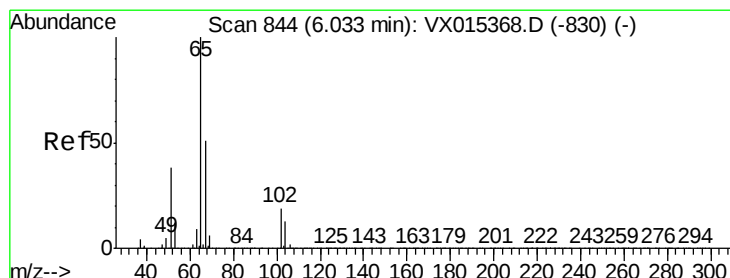
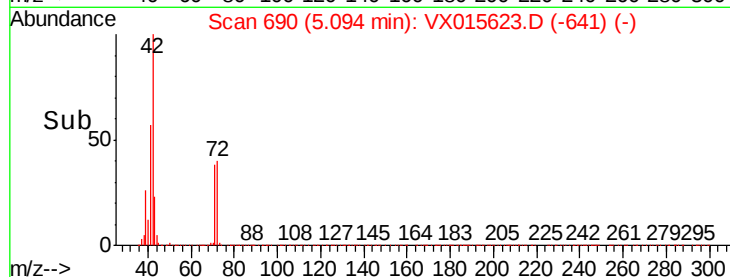
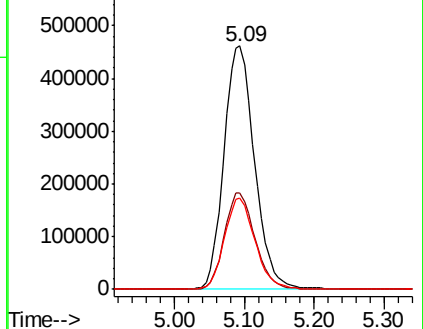
71 37.5 29.6 44.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.037 ug/l

RT: 6.03 min Scan# 844

Delta R.T. 0.00 min

Lab File: VX015623.D

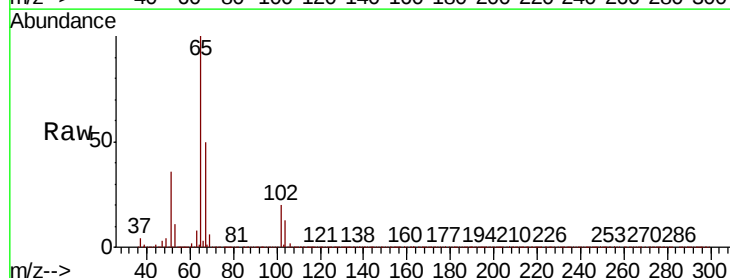
Acq: 10 Apr 2020 15:56

Tgt Ion: 65 Resp: 714076

Ion Ratio Lower Upper

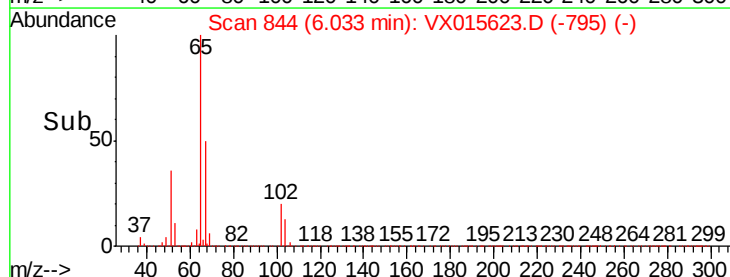
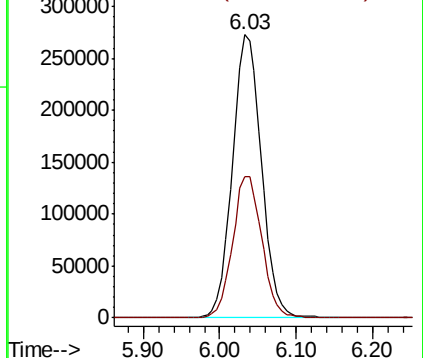
65 100

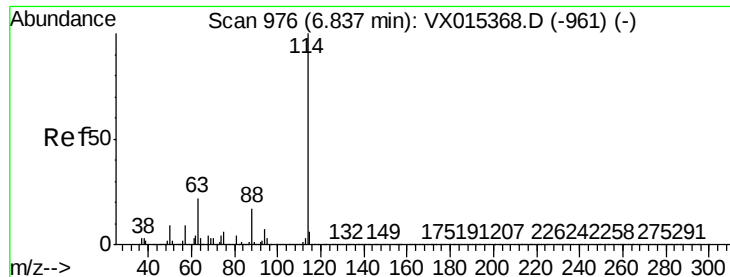
67 50.0 0.0 102.6



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: VX015623.D

Acq: 10 Apr 2020 15:56

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ClientSampleId :

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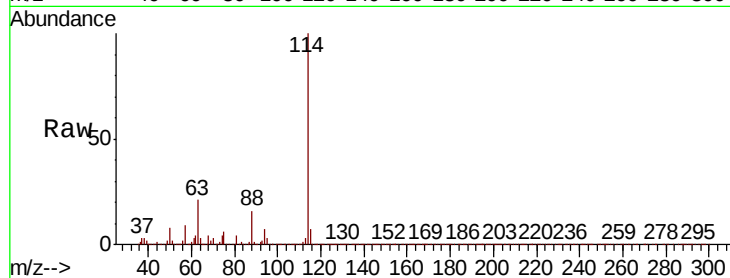
Tot Ion:114 Resp: 1735654

Ion Ratio Lower Upper

114 100

63 21.0 0.0 44.2

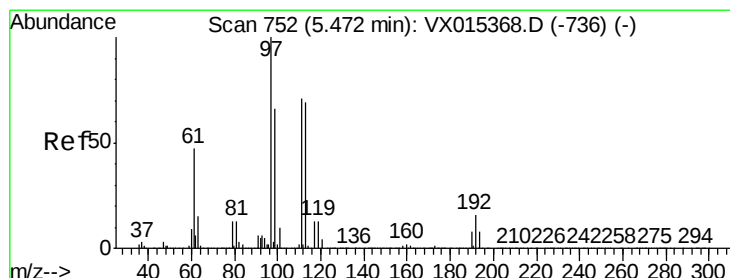
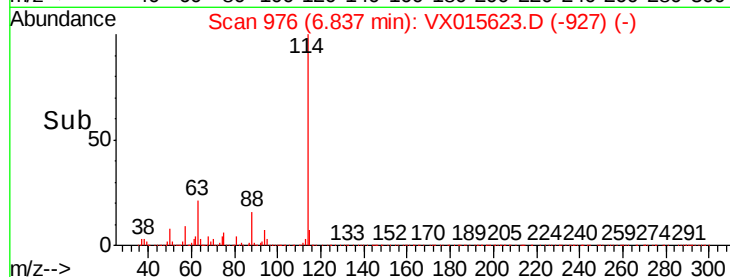
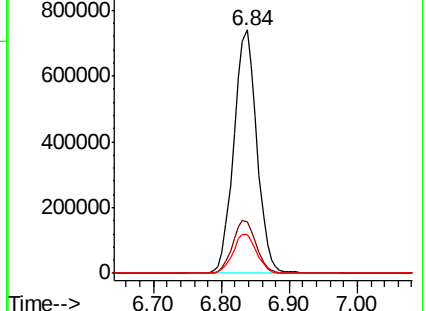
88 16.0 0.0 33.8



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: 47.678 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

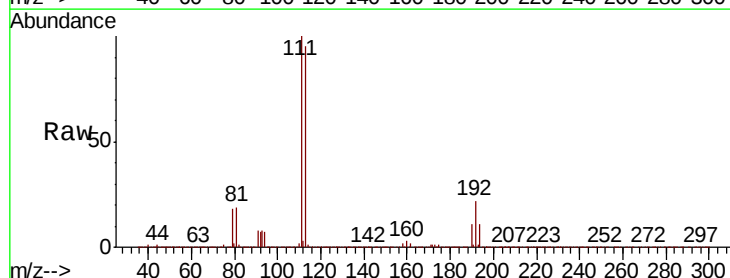
Tgt Ion:113 Resp: 528974

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

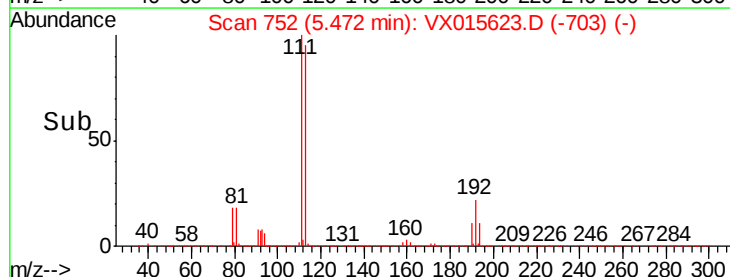
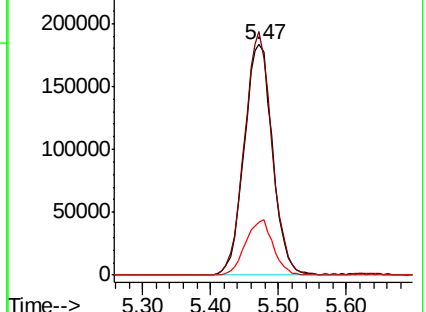
192 23.4 17.8 26.6

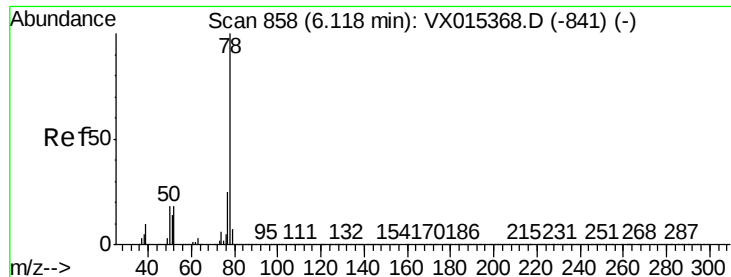


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 2.756 ug/l

RT: 6.12 min Scan# 858

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

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ClientSampleId :

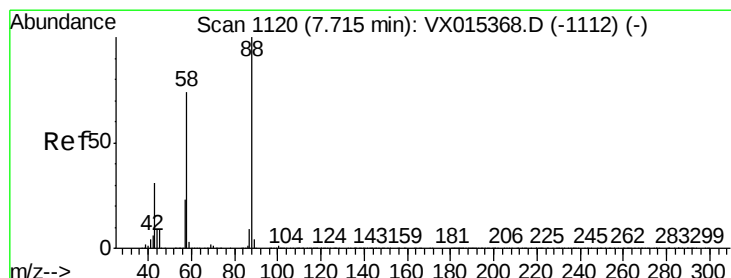
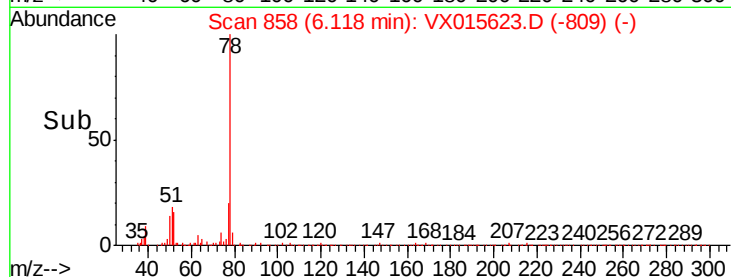
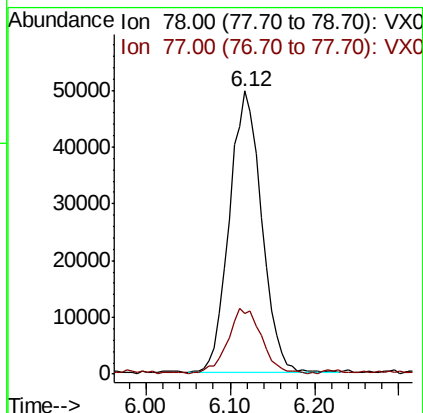
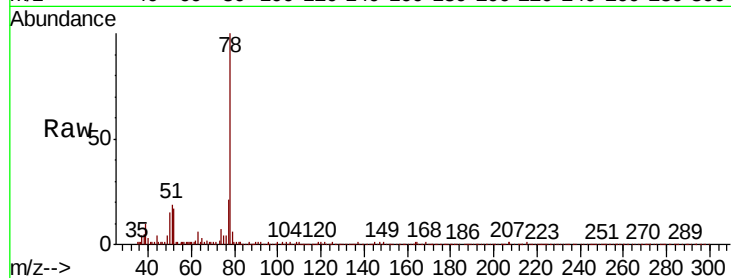
400408744.2-VOA

Tot Ion: 78 Resp: 129121

Ion Ratio Lower Upper

78 100

77 20.8 19.8 29.8



#49

1,4-Dioxane

Concen: 278.356 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

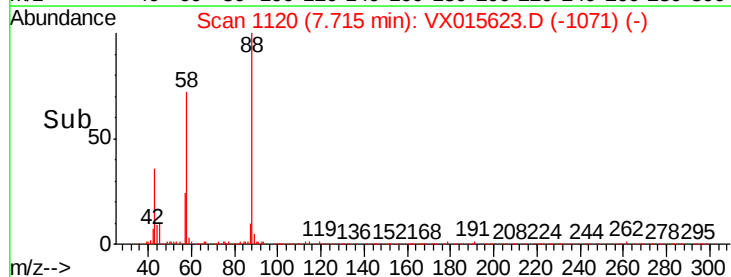
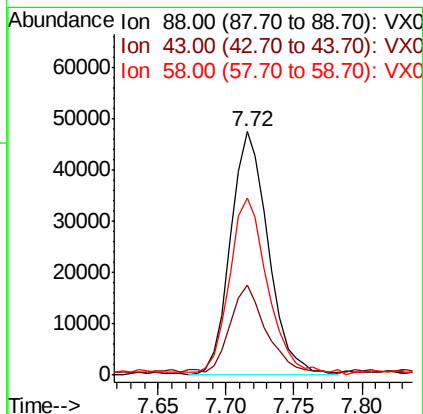
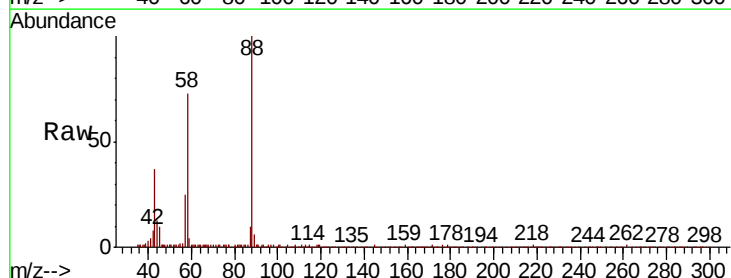
Tgt Ion: 88 Resp: 91172

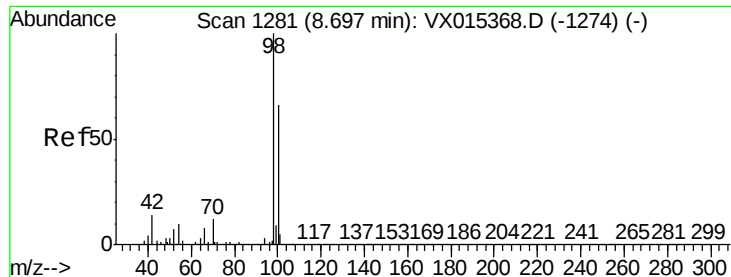
Ion Ratio Lower Upper

88 100

43 34.7 30.1 45.1

58 75.4 60.6 90.8

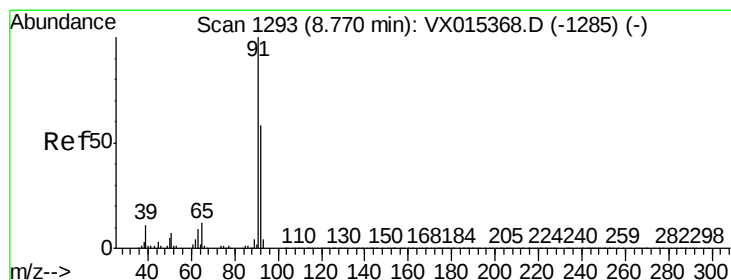
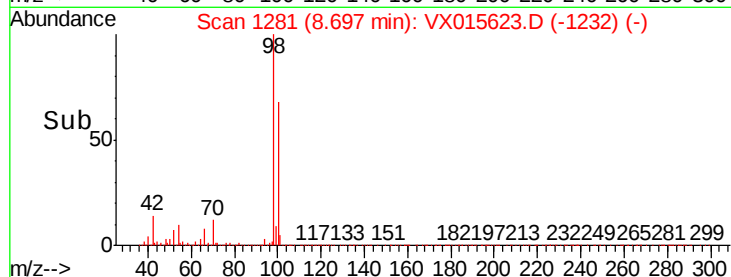
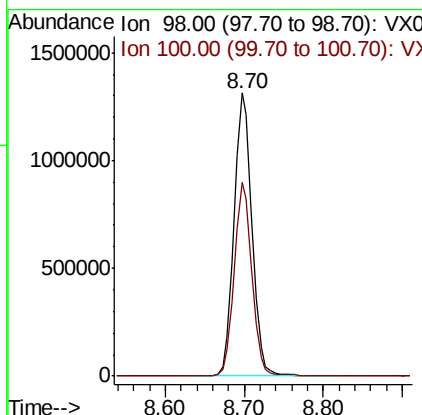
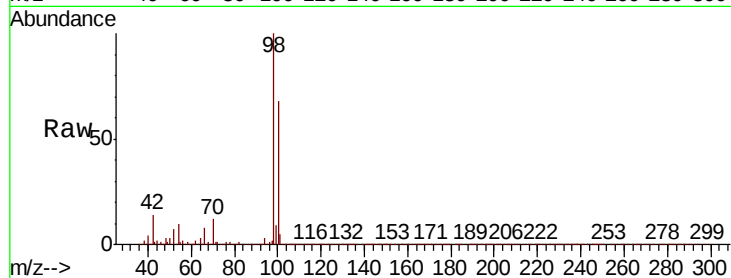




#50
Toluene-d8
Concen: 51.003 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

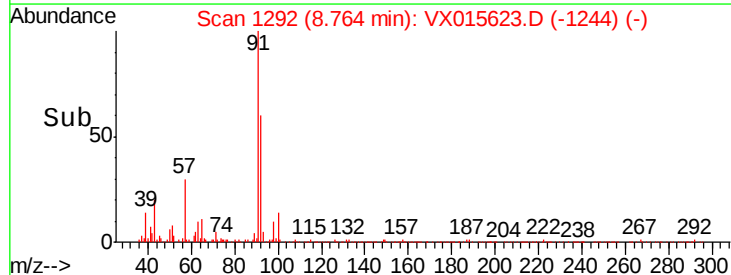
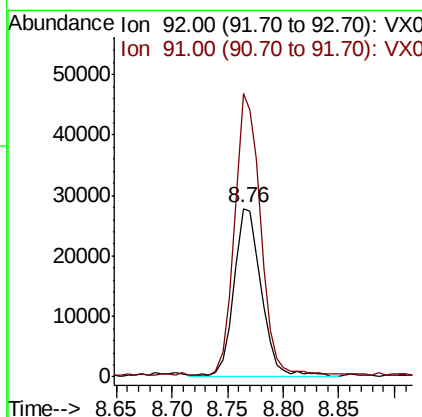
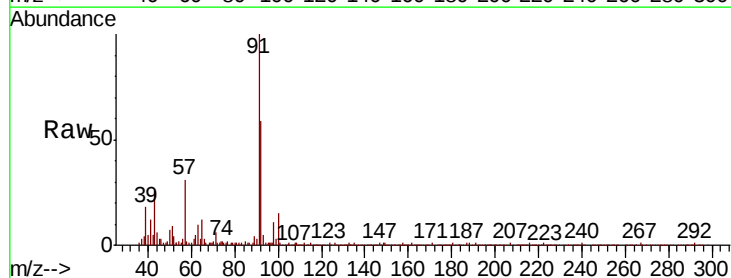
Instrument :
MSVOA_X
ClientSampleId :
400408744.2-VOA

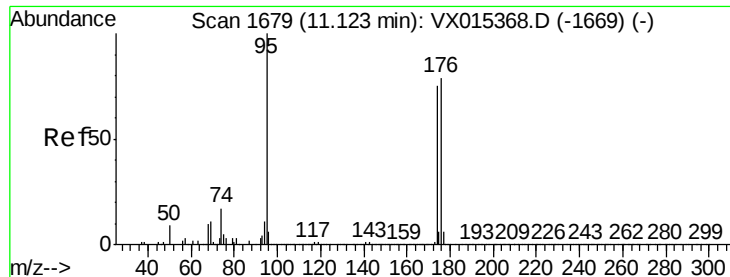
Tot Ion: 98 Resp: 2083353
Ion Ratio Lower Upper
98 100
100 67.5 53.5 80.3



#52
Toluene
Concen: 1.658 ug/l
RT: 8.76 min Scan# 1292
Delta R.T. -0.01 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

Tgt Ion: 92 Resp: 47898
Ion Ratio Lower Upper
92 100
91 155.6 136.6 205.0





#62

4-Bromofluorobenzene

Concen: 53.982 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

400408744.2-VOA

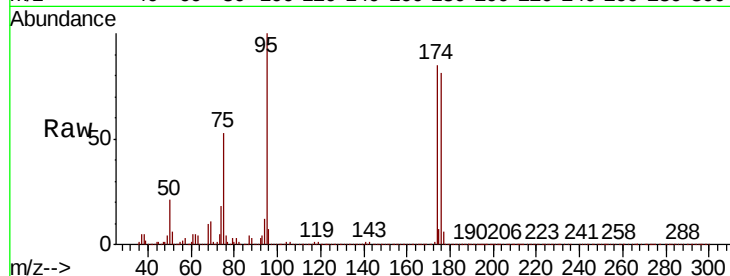
Tot Ion: 95 Resp: 896145

Ion Ratio Lower Upper

95 100

174 84.8 0.0 158.6

176 82.1 0.0 159.0

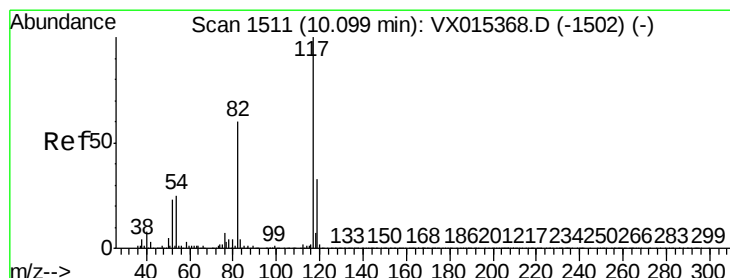
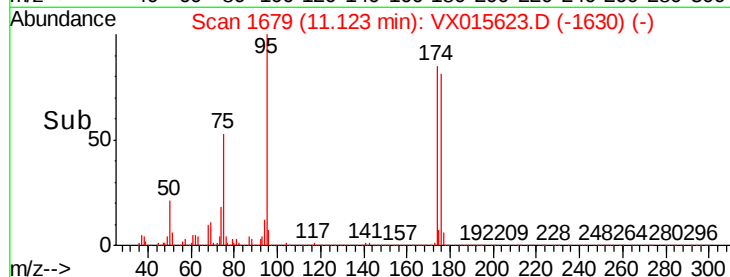


Abundance Ion 94.90 (94.60 to 95.60): VX015623.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015623.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015623.D (-1669) (-)

Time--> 11.00 11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

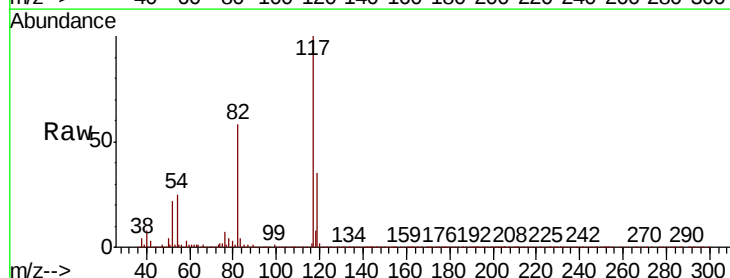
Tgt Ion: 117 Resp: 1688356

Ion Ratio Lower Upper

117 100

82 57.6 47.8 71.8

119 35.3 26.8 40.2

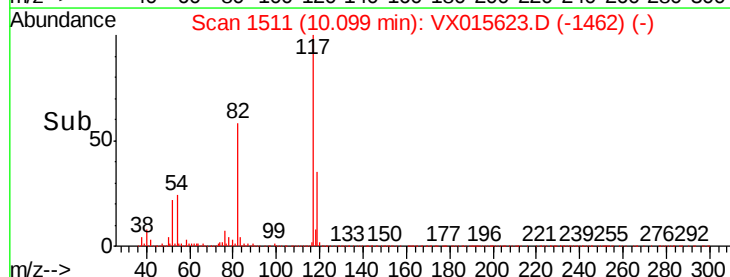


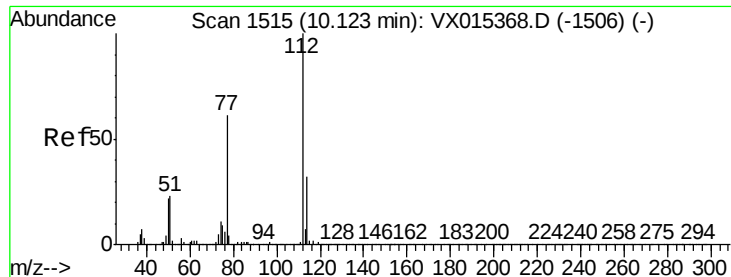
Abundance Ion 116.90 (116.60 to 117.60): VX015623.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015623.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015623.D (-1462) (-)

Time--> 10.00 10.10 10.20





#65

Chlorobenzene

Concen: 12.710 ug/l

RT: 10.12 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

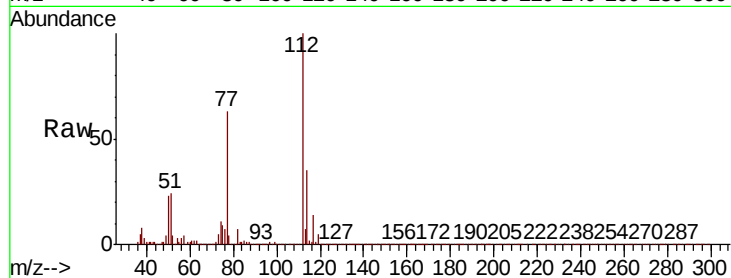
400408744.2-VOA

Tot Ion:112 Resp: 427969

Ion Ratio Lower Upper

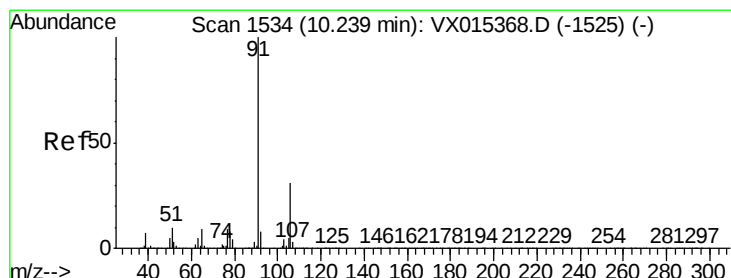
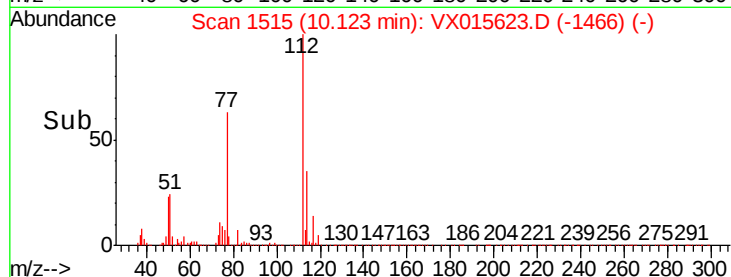
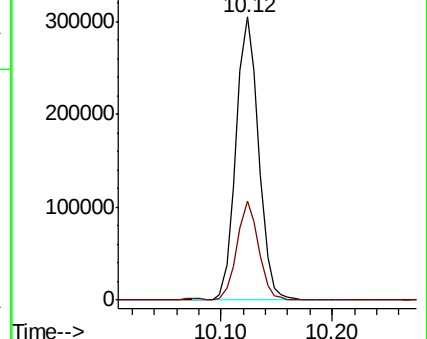
112 100

114 35.1 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 8.779 ug/l

RT: 10.24 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VX015623.D

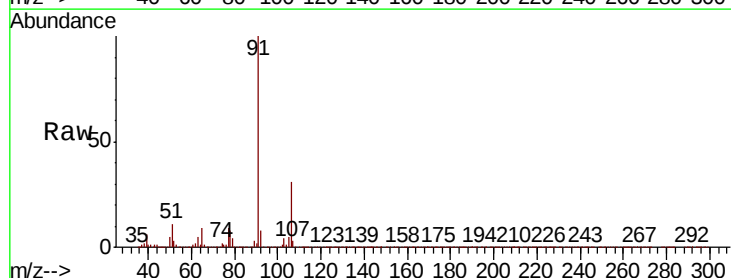
Acq: 10 Apr 2020 15:56

Tgt Ion: 91 Resp: 524249

Ion Ratio Lower Upper

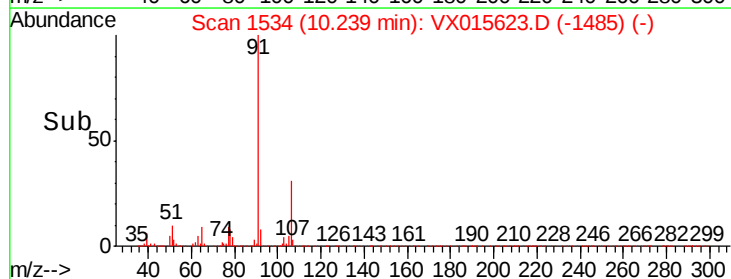
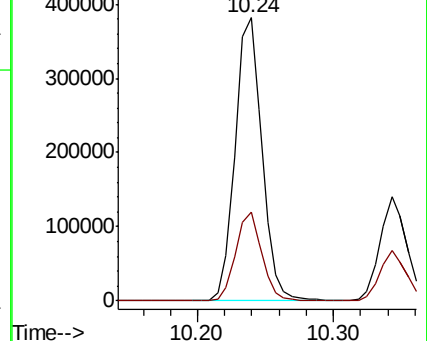
91 100

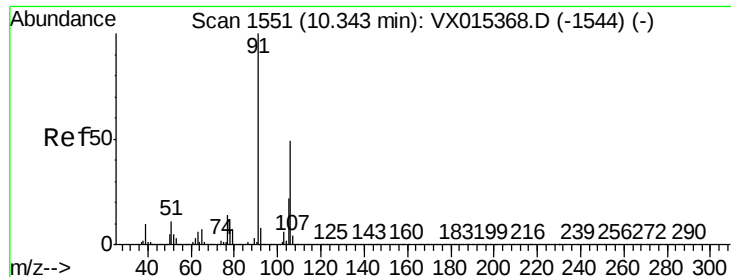
106 31.1 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 4.129 ug/l

RT: 10.34 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

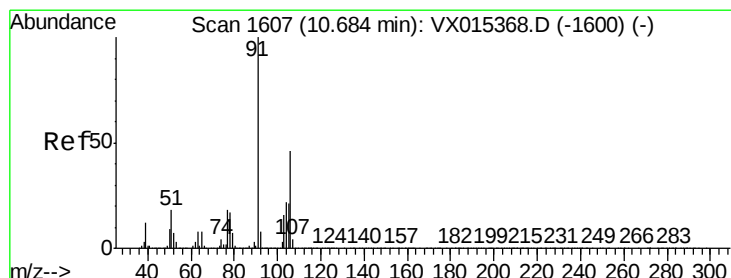
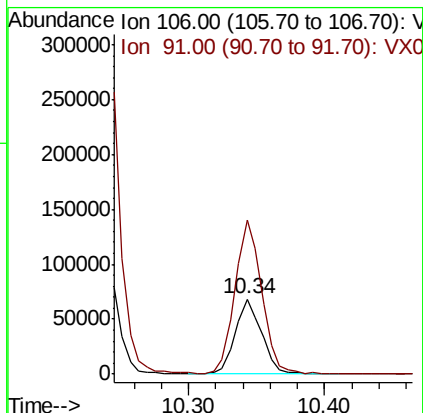
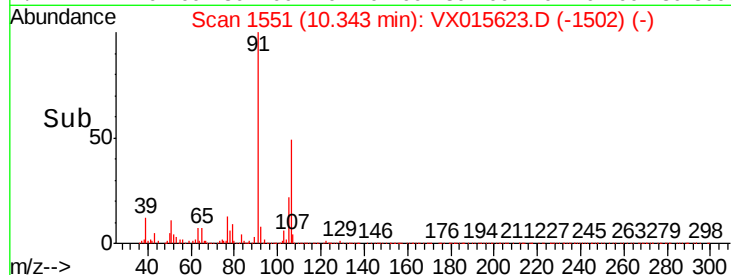
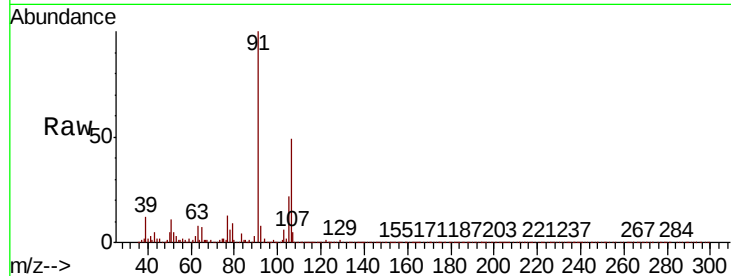
400408744.2-VOA

Tot Ion:106 Resp: 91821

Ion Ratio Lower Upper

106 100

91 208.5 163.4 245.0



#69

o-Xylene

Concen: 3.590 ug/l

RT: 10.68 min Scan# 1607

Delta R.T. 0.00 min

Lab File: VX015623.D

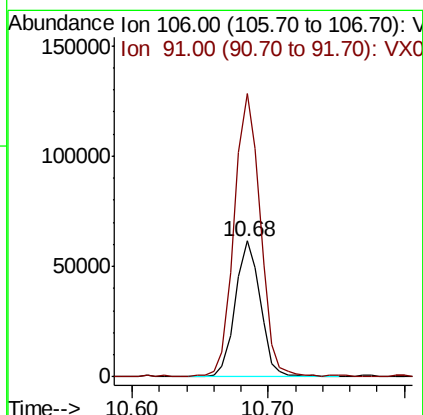
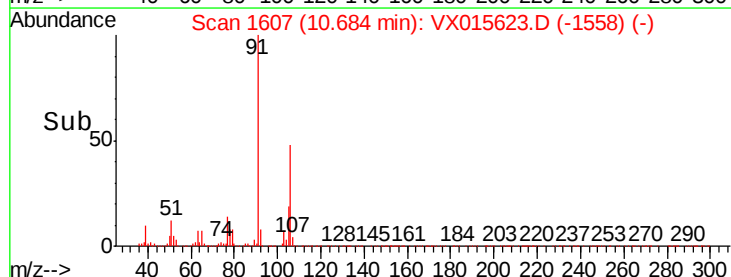
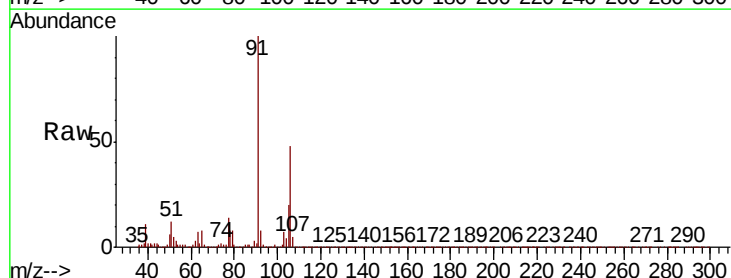
Acq: 10 Apr 2020 15:56

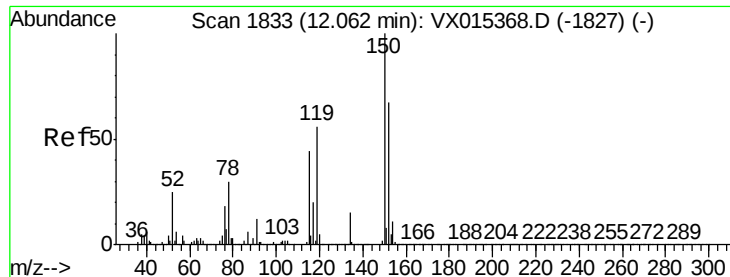
Tgt Ion:106 Resp: 78882

Ion Ratio Lower Upper

106 100

91 216.1 107.1 321.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

400408744.2-VOA

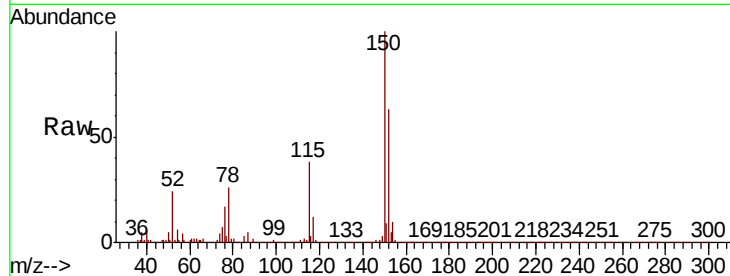
Tot Ion:152 Resp: 943478

Ion Ratio Lower Upper

152 100

115 57.8 39.0 116.9

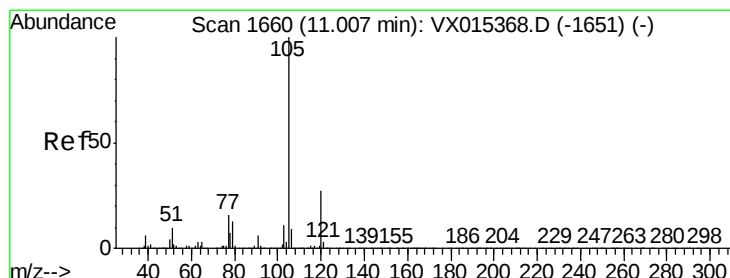
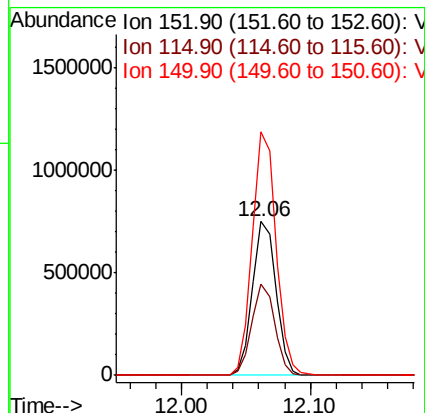
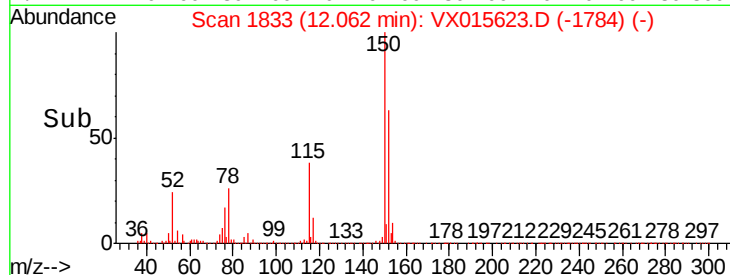
150 158.9 0.0 340.8



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



#73

Isopropylbenzene

Concen: 1.380 ug/l

RT: 11.01 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VX015623.D

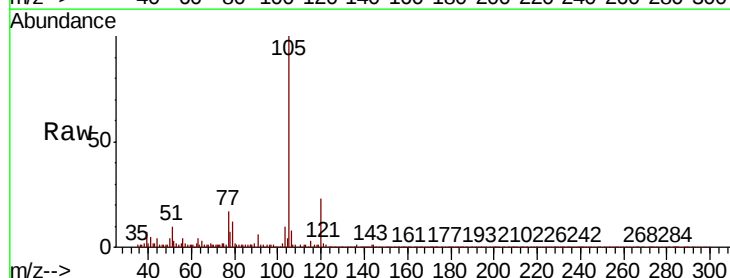
Acq: 10 Apr 2020 15:56

Tgt Ion:105 Resp: 85297

Ion Ratio Lower Upper

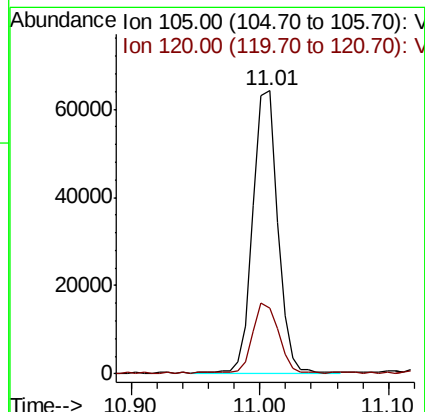
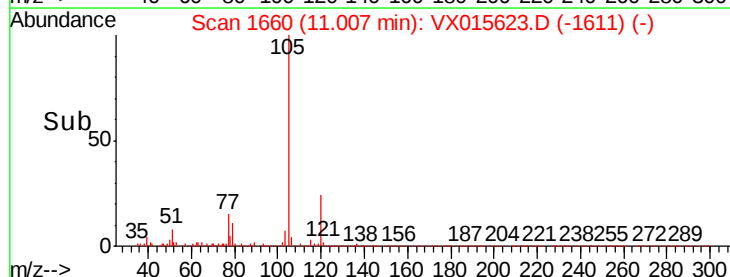
105 100

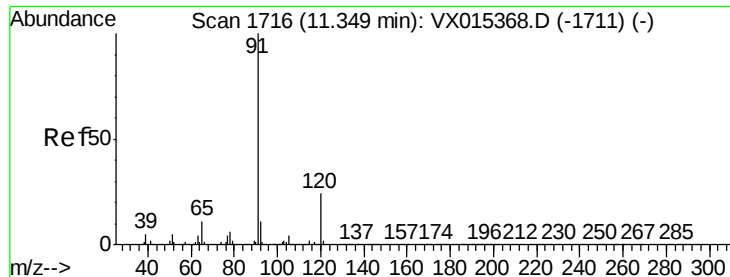
120 25.9 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 0.801 ug/l

RT: 11.34 min Scan# 1715

Delta R.T. -0.01 min

Lab File: VX015623.D

Acq: 10 Apr 2020 15:56

Instrument :

MSVOA_X

ClientSampleId :

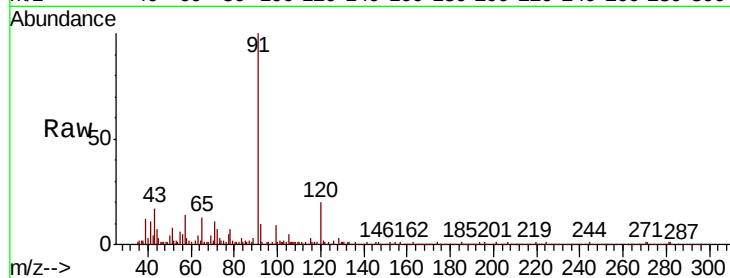
400408744.2-VOA

Tot Ion: 91 Resp: 56631

Ion Ratio Lower Upper

91 100

120 24.7 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VX015368.D (-1711) (-)

Ion 120.00 (119.70 to 120.70): VX015368.D (-1711) (-)

50000

40000

30000

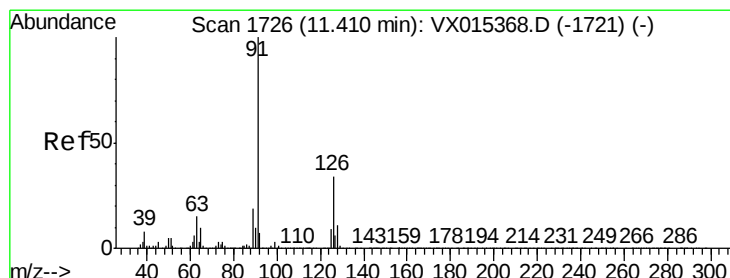
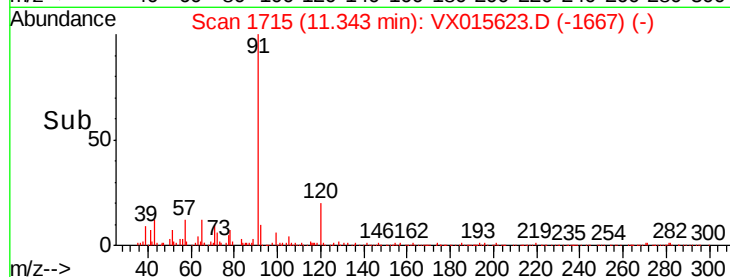
20000

10000

0

Time-->

11.30 11.35 11.40



#79

2-Chlorotoluene

Concen: 0.849 ug/l

RT: 11.40 min Scan# 1725

Delta R.T. -0.01 min

Lab File: VX015623.D

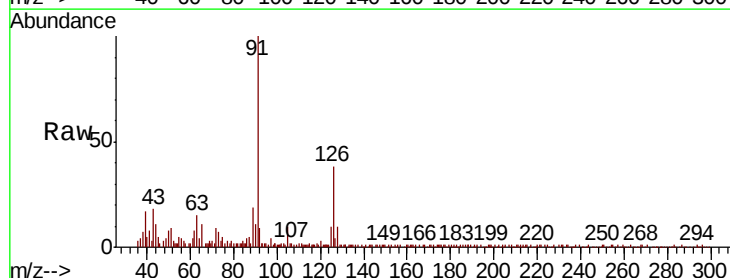
Acq: 10 Apr 2020 15:56

Tgt Ion: 91 Resp: 36778

Ion Ratio Lower Upper

91 100

126 28.8 16.5 49.5



Abundance Ion 91.00 (90.70 to 91.70): VX015368.D (-1721) (-)

Ion 125.90 (125.60 to 126.60): VX015368.D (-1721) (-)

50000

40000

30000

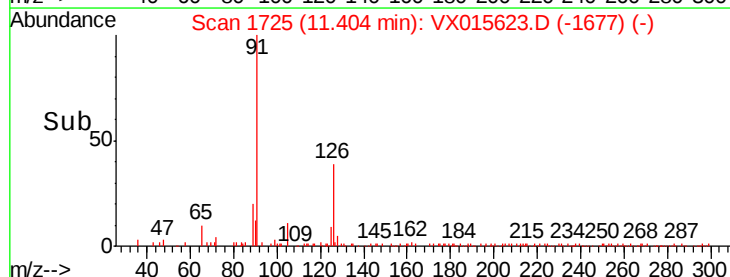
20000

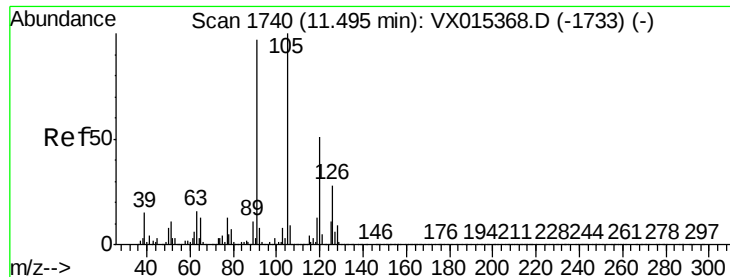
10000

0

Time-->

11.35 11.40 11.45 11.50

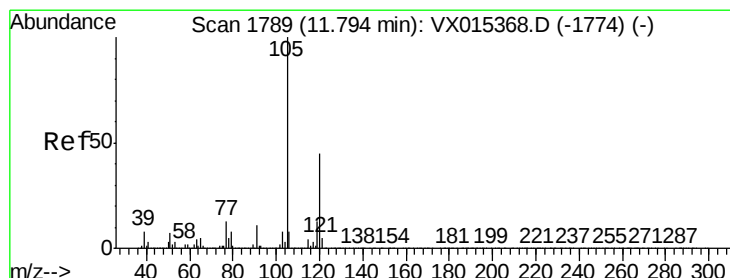
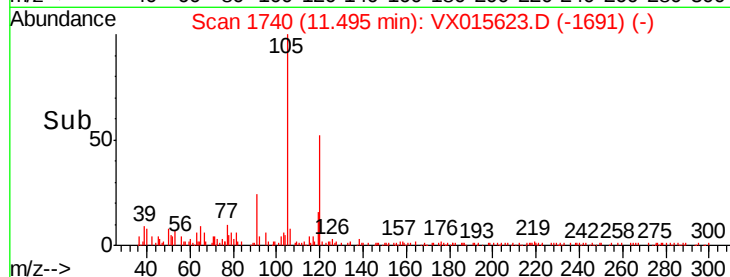
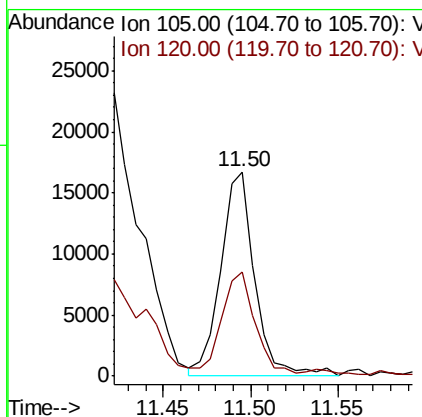
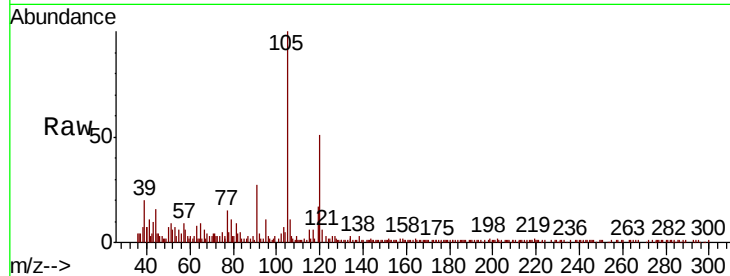




#80
 1,3,5-Trimethylbenzene
 Concen: 0.430 ug/l
 RT: 11.50 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VX015623.D
 Acq: 10 Apr 2020 15:56

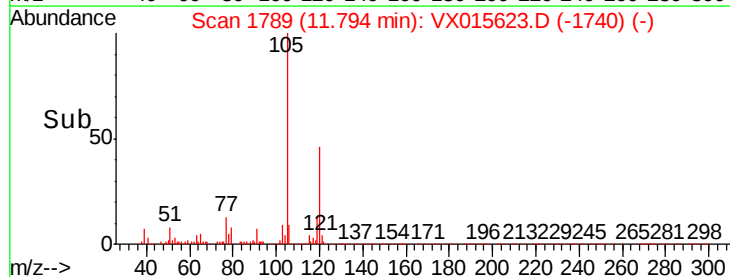
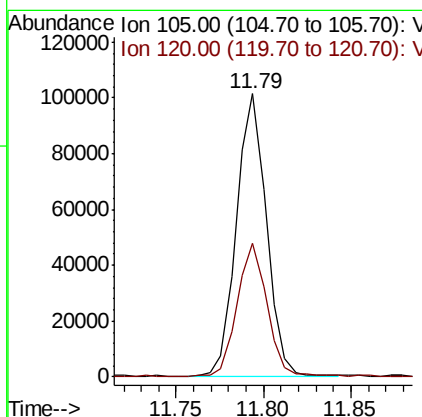
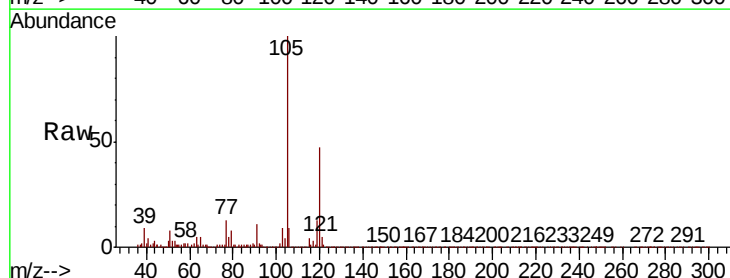
Instrument :
 MSVOA_X
 ClientSampleId :
 400408744.2-VOA

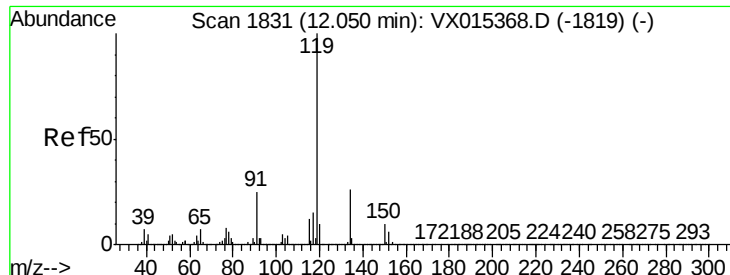
Tot Ion:105 Resp: 22705
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.8 74.4



#84
 1,2,4-Trimethylbenzene
 Concen: 2.227 ug/l
 RT: 11.79 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX015623.D
 Acq: 10 Apr 2020 15:56

Tgt Ion:105 Resp: 119813
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.7 68.1

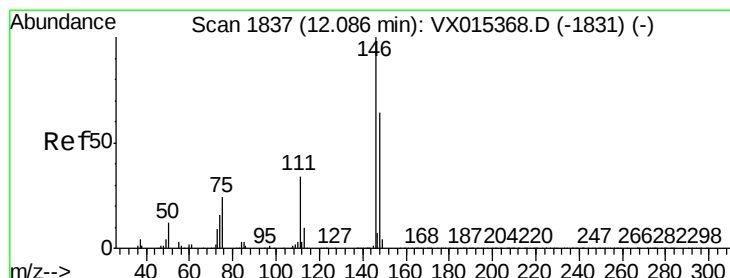
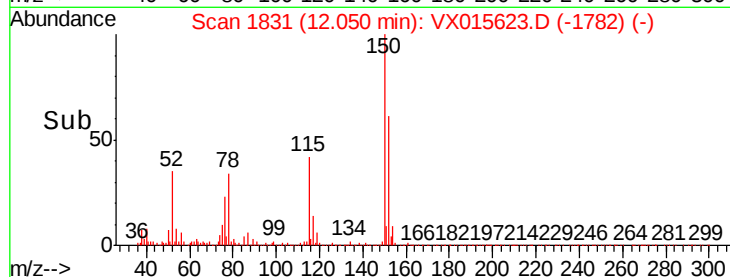
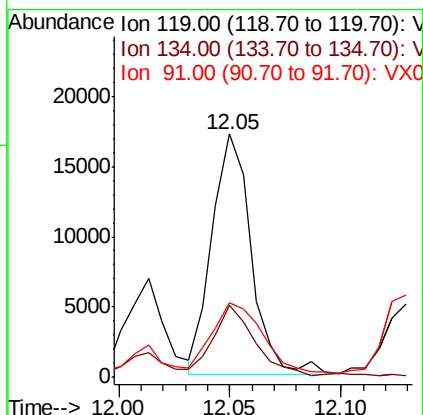
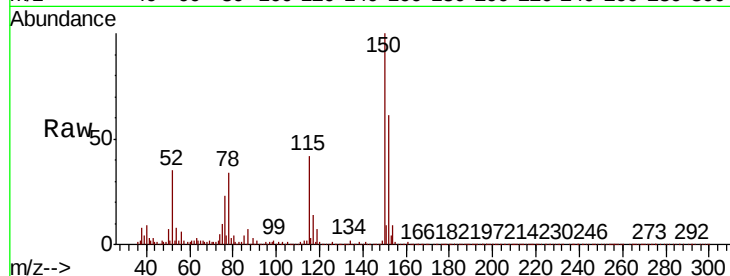




#86
p-Isopropyltoluene
Concen: 0.378 ug/l
RT: 12.05 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

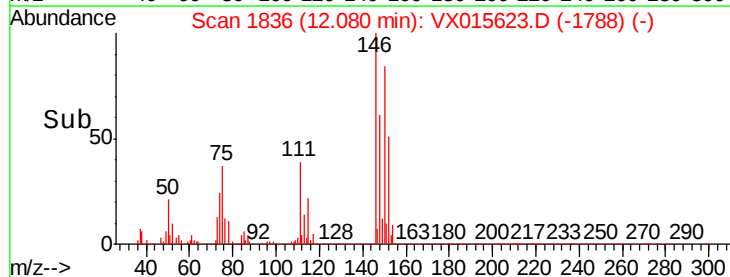
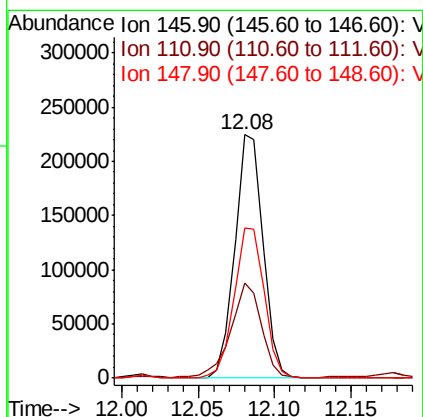
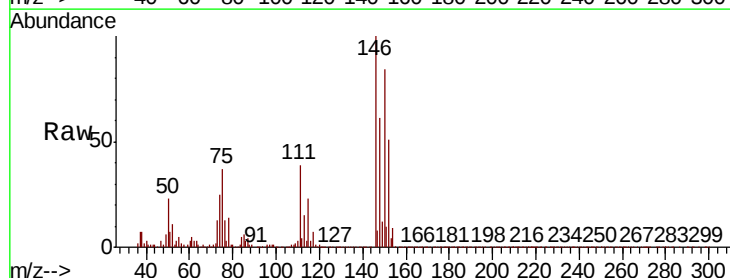
Instrument :
MSVOA_X
ClientSampleId :
400408744.2-VOA

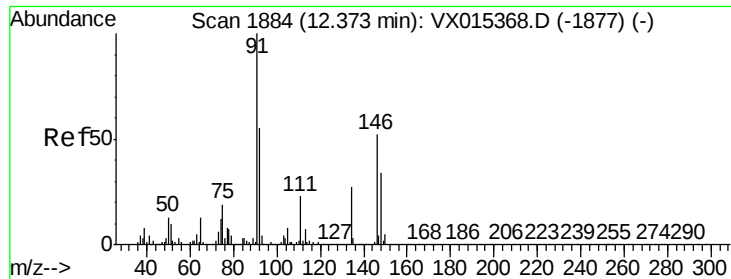
Tot Ion	Ratio	Lower	Upper
119	100		
134	28.9	13.1	39.3
91	37.2	12.4	37.4



#88
1,4-Dichlorobenzene
Concen: 9.548 ug/l
RT: 12.08 min Scan# 1836
Delta R.T. -0.01 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	19.1	57.5
148	65.3	32.4	97.2

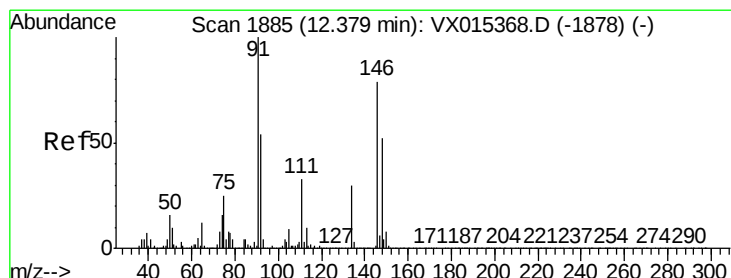
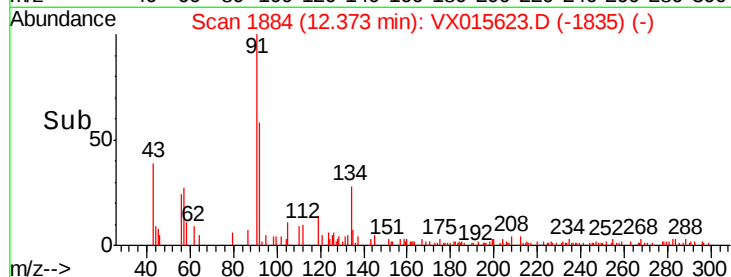
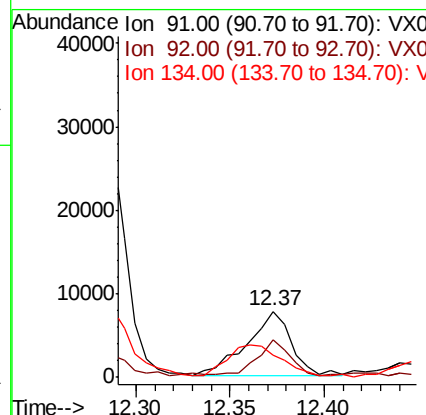
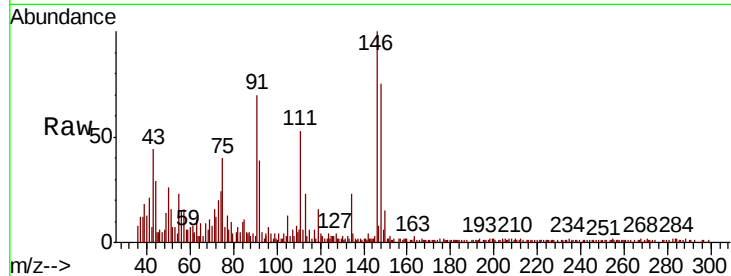




#89
n-Butylbenzene
Concen: 0.249 ug/l
RT: 12.37 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

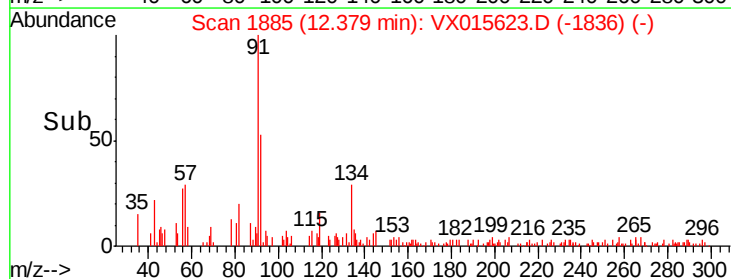
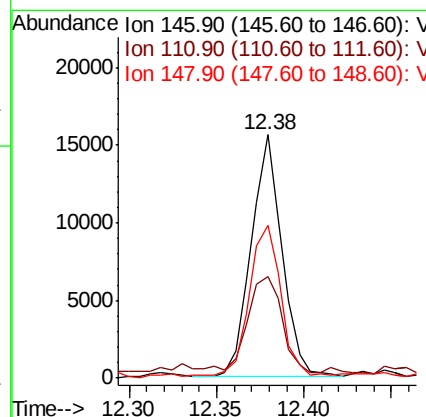
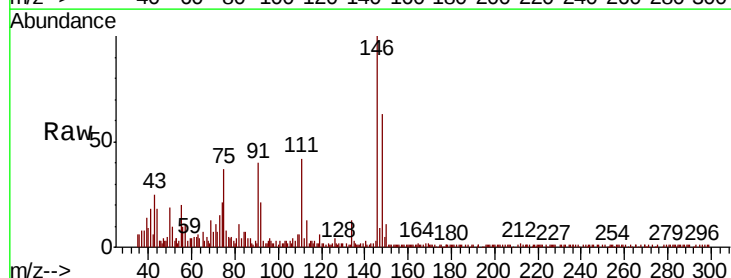
Instrument :
MSVOA_X
ClientSampleId :
400408744.2-VOA

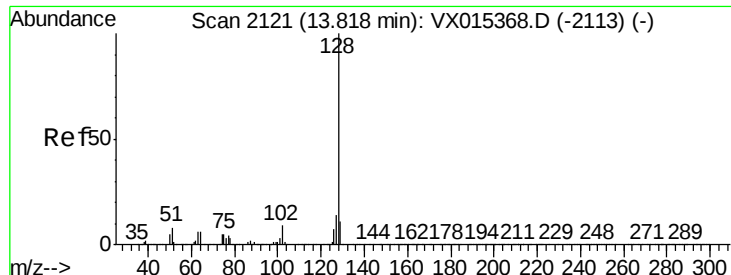
Tot Ion: 91 Resp: 12453
Ion Ratio Lower Upper
91 100
92 40.0 27.2 81.5
134 58.8 13.4 40.2#



#91
1,2-Dichlorobenzene
Concen: 0.658 ug/l
RT: 12.38 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

Tgt Ion: 146 Resp: 19011
Ion Ratio Lower Upper
146 100
111 44.9 21.0 63.0
148 62.6 32.4 97.0





#95
Naphthalene
Concen: 11.580 ug/l
RT: 13.82 min Scan# 2121
Delta R.T. 0.00 min
Lab File: VX015623.D
Acq: 10 Apr 2020 15:56

Instrument :
MSVOA_X
ClientSampleId :
400408744.2-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.9	8.8	13.2

