

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112919\
 Data File : VX013702.D
 Acq On : 29 Nov 2019 15:36
 Operator : JC/SP
 Sample : K5965-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0188

Quant Time: Nov 29 22:29:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	677582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1048724	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	930972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	416116	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	379691	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
35) Dibromofluoromethane	5.49	113	313284	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.71	98	1239303	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	11.13	95	417248	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

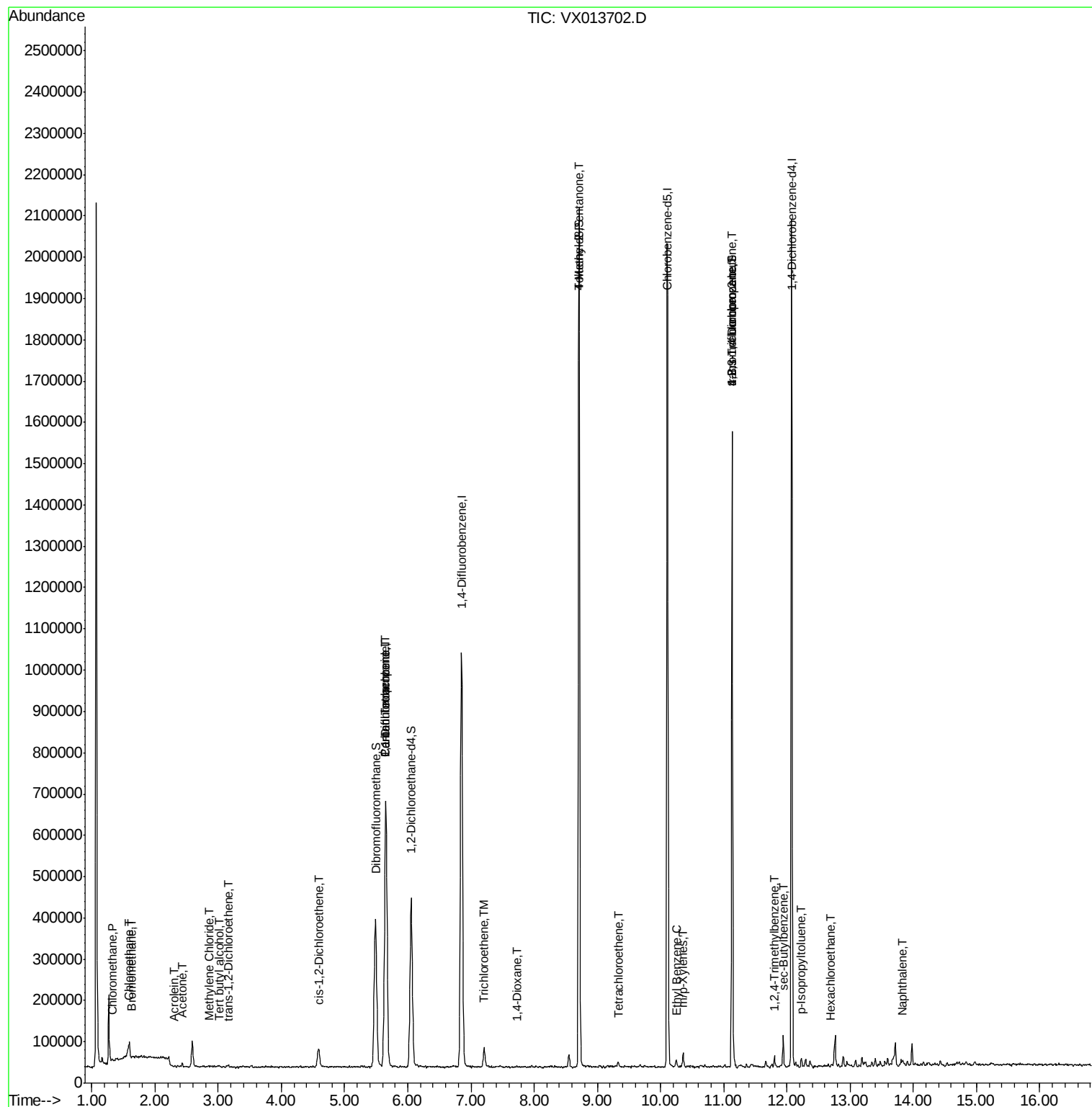
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2119	0.250	ug/l	99
5) Bromomethane	1.64	94	1492	0.233	ug/l	93
6) Chloroethane	1.58	64	28109	5.186	ug/l #	51
11) Tert butyl alcohol	3.02	59	4212	2.170	ug/l	97
13) Acrolein	2.30	56	464	6.353	ug/l #	53
16) Acetone	2.43	43	9404	2.422	ug/l	99
20) Methylene Chloride	2.85	84	2158	0.289	ug/l #	77
21) trans-1,2-Dichloroethene	3.16	96	2107	0.300	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	28347	3.514	ug/l	94
36) 1,1-Dichloropropene	5.65	75	46769	4.913	ug/l #	51
38) Carbon Tetrachloride	5.65	117	59401	6.767	ug/l #	14
44) Trichloroethene	7.21	130	20746	2.607	ug/l	86
49) 1,4-Dioxane	7.73	88	173	0.905	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	5328	0.482	ug/l #	1
64) Tetrachloroethene	9.34	164	1887	0.272	ug/l #	76
67) Ethyl Benzene	10.25	91	11177	0.337	ug/l	90
68) m/p-Xylenes	10.36	106	8519	0.670	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	204104	21.808	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	204104	59.662	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	12844	0.529	ug/l	86
85) sec-Butylbenzene	11.94	105	42817	1.542	ug/l	97
86) p-Isopropyltoluene	12.23	119	10398	0.402	ug/l	92
90) Hexachloroethane	12.70	117	1690	0.362	ug/l #	5
95) Naphthalene	13.83	128	9035	0.321	ug/l #	82

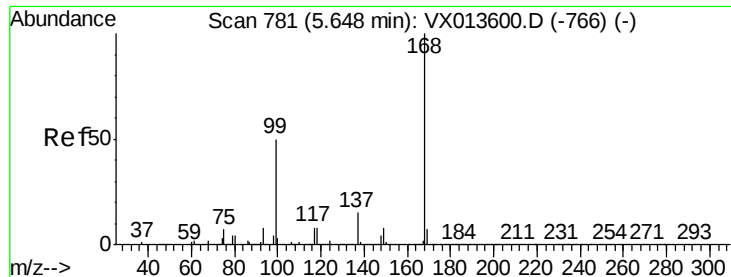
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 29 22:29:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

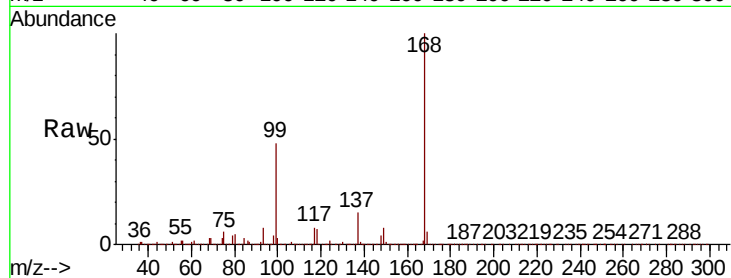
S39-0188

Tot Ion:168 Resp: 677582

Ion Ratio Lower Upper

168 100

99 48.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

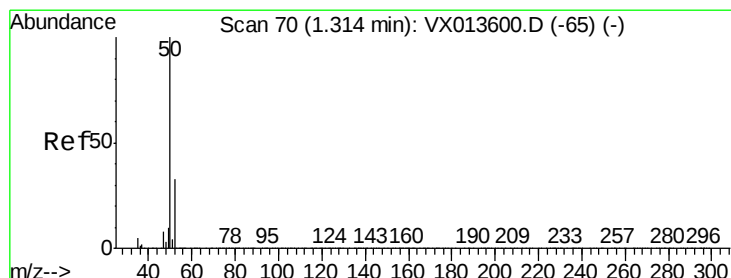
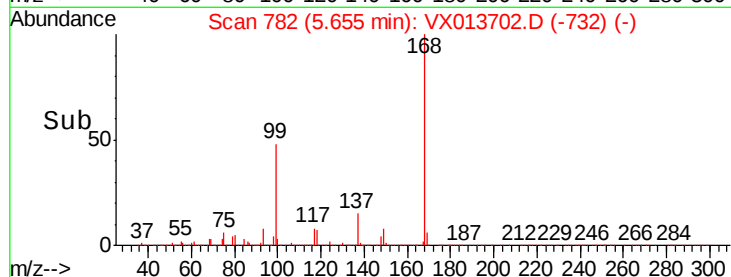
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.250 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013702.D

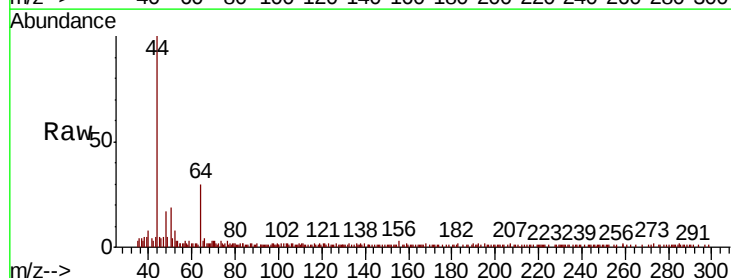
Acq: 29 Nov 2019 15:36

Tgt Ion: 50 Resp: 2119

Ion Ratio Lower Upper

50 100

52 32.2 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

3000

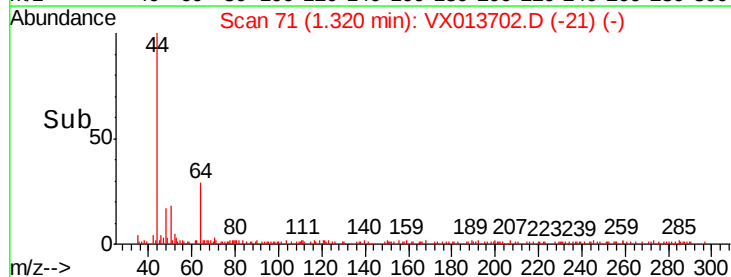
2000

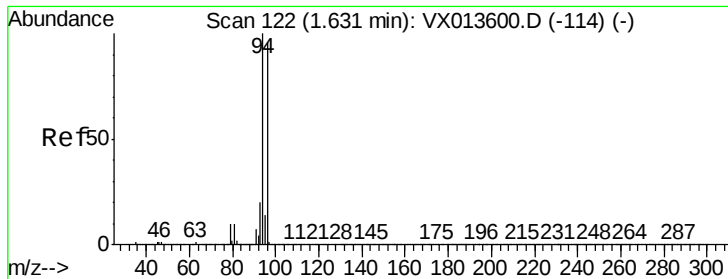
1000

0

Time-->

1.30 1.32 1.35





#5

Bromomethane

Concen: 0.233 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

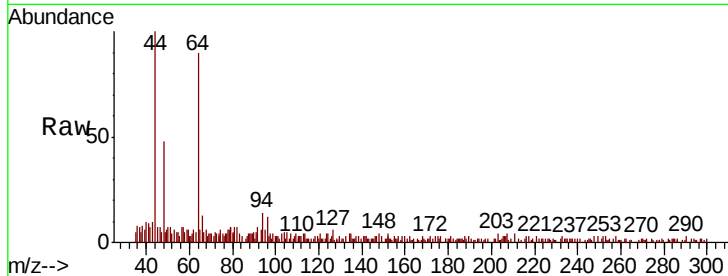
S39-0188

Tot Ion: 94 Resp: 1492

Ion Ratio Lower Upper

94 100

96 89.7 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

400

200

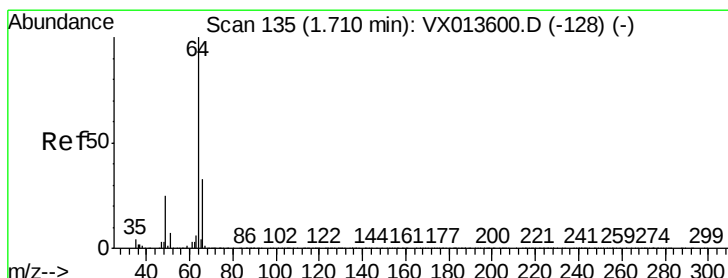
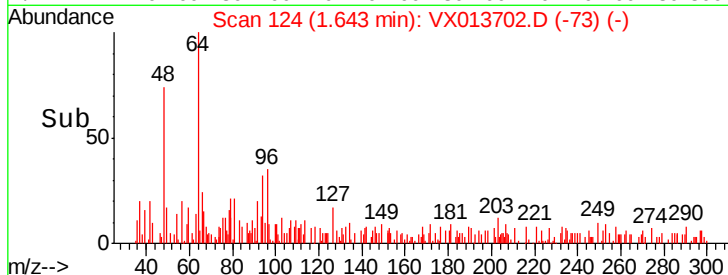
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 5.186 ug/l

RT: 1.58 min Scan# 114

Delta R.T. -0.13 min

Lab File: VX013702.D

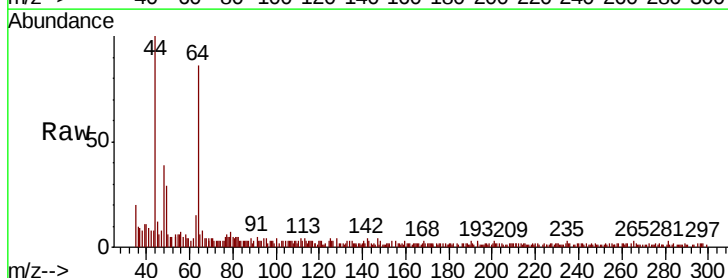
Acq: 29 Nov 2019 15:36

Tgt Ion: 64 Resp: 28109

Ion Ratio Lower Upper

64 100

66 5.6 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

8000

6000

4000

2000

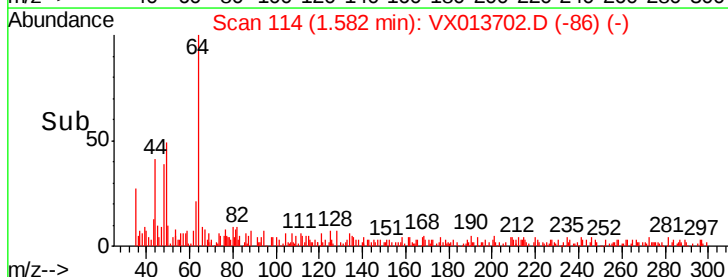
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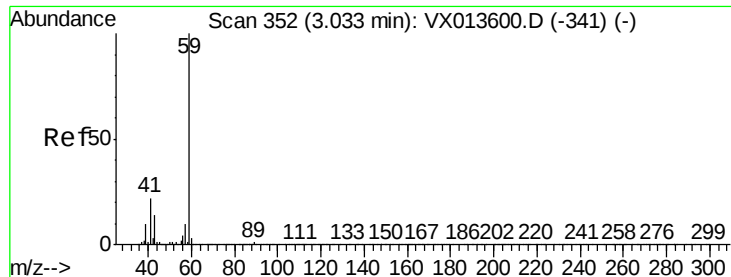
1.40

1.50

1.60

Time-->

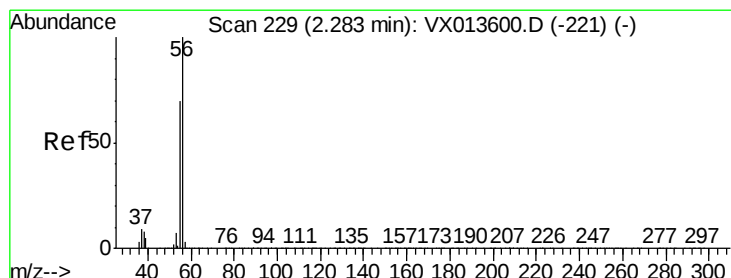
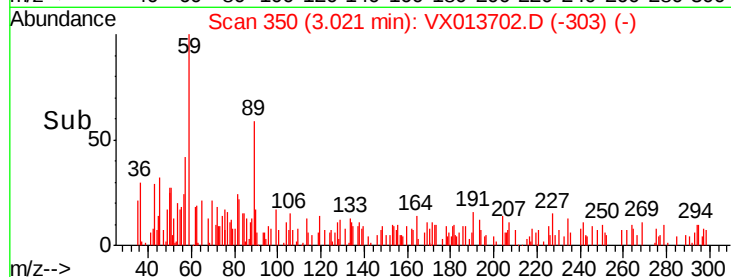
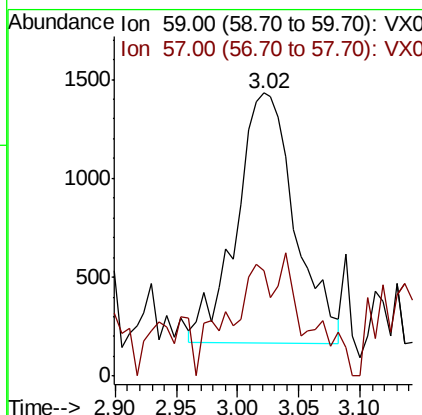
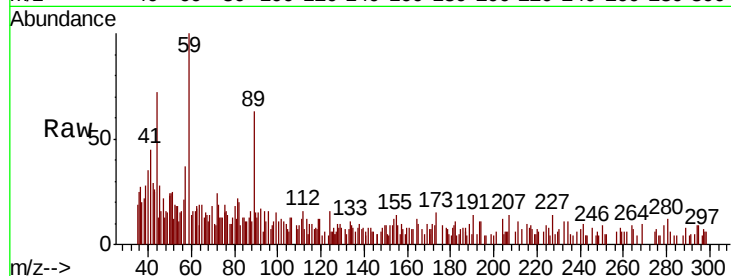




#11
Tert butyl alcohol
Concen: 2.170 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

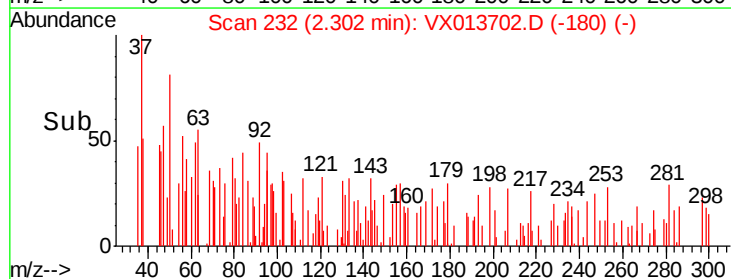
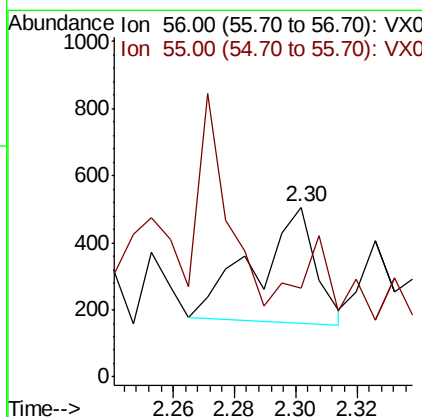
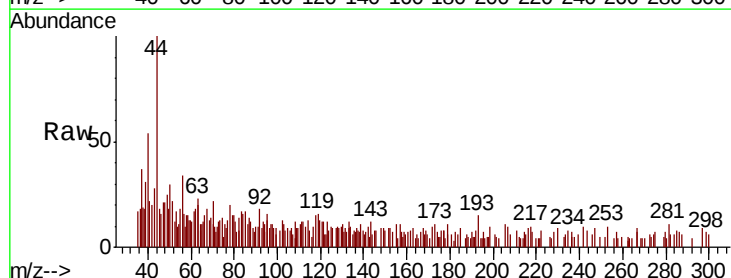
Instrument :
MSVOA_X
ClientSampleId :
S39-0188

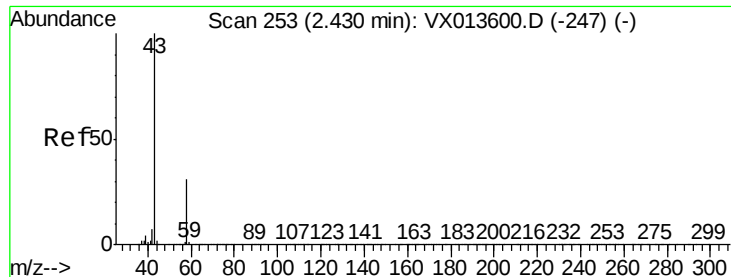
Tot Ion: 59 Resp: 4212
Ion Ratio Lower Upper
59 100
57 8.7 7.8 11.6



#13
Acrolein
Concen: 6.353 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

Tgt Ion: 56 Resp: 464
Ion Ratio Lower Upper
56 100
55 31.5 56.2 84.4#

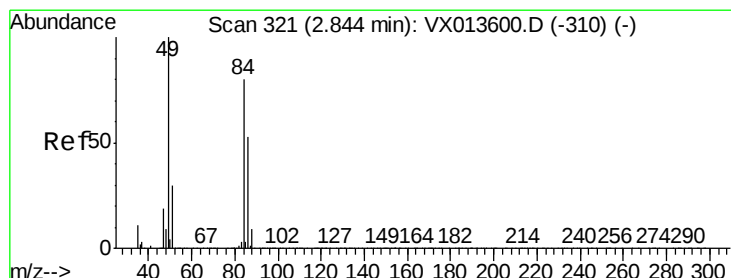
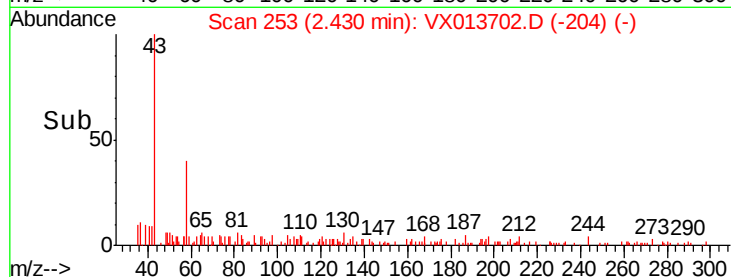
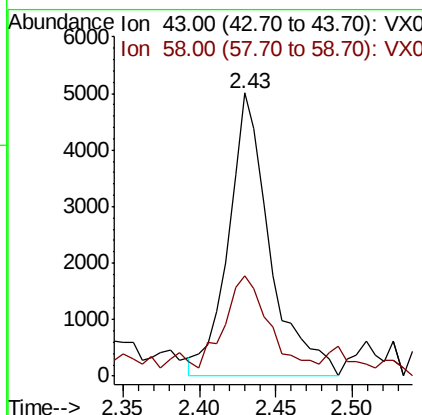
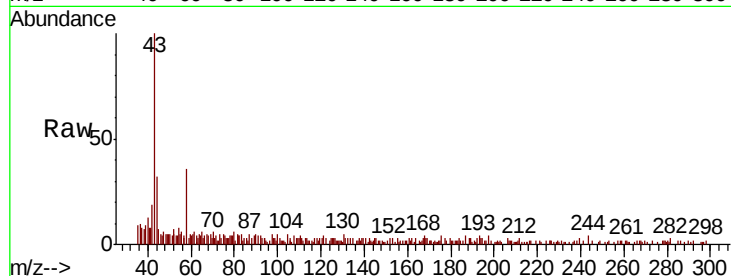




#16
Acetone
Concen: 2.422 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

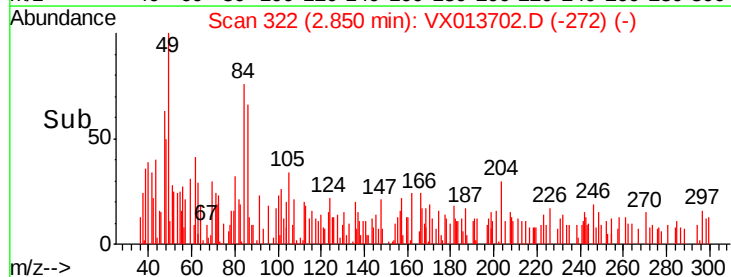
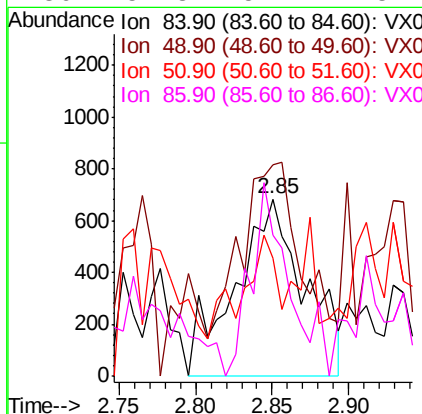
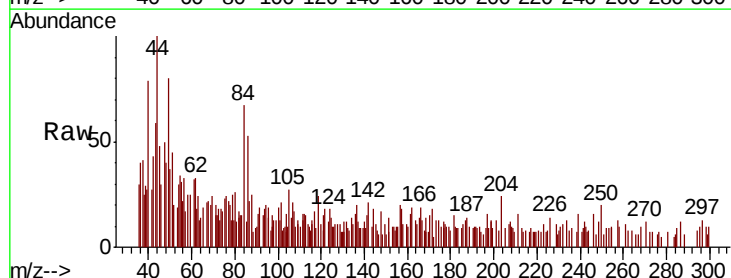
Instrument :
MSVOA_X
ClientSampled :
S39-0188

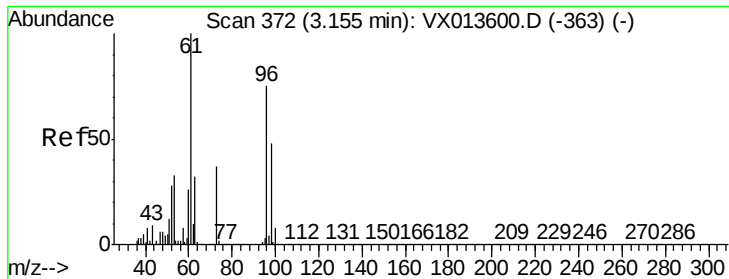
Tot Ion: 43 Resp: 9404
Ion Ratio Lower Upper
43 100
58 30.4 24.6 36.8



#20
Methylene Chloride
Concen: 0.289 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

Tgt Ion: 84 Resp: 2158
Ion Ratio Lower Upper
84 100
49 89.0 99.7 149.5#
51 28.2 29.9 44.9#
86 57.3 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 0.300 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

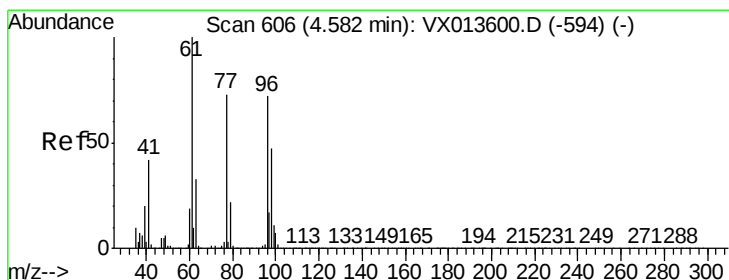
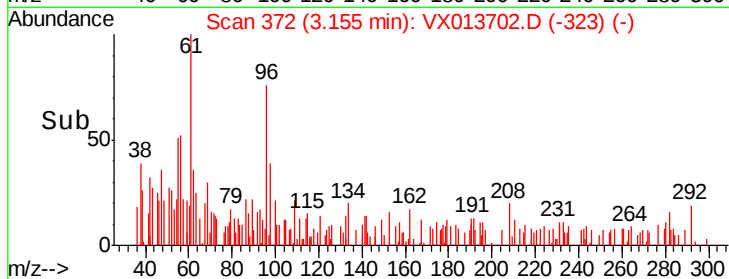
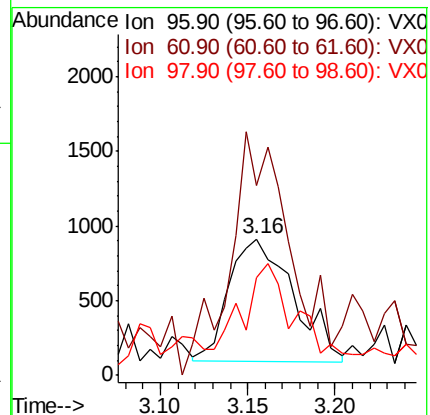
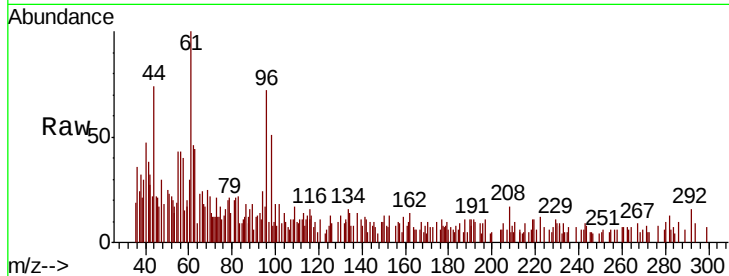
Tot Ion: 96 Resp: 2107

Ion Ratio Lower Upper

96 100

61 134.9 107.2 160.8

98 64.4 51.4 77.0



#27

cis-1,2-Dichloroethene

Concen: 3.514 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

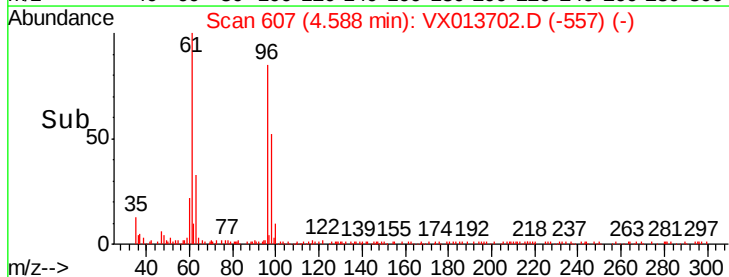
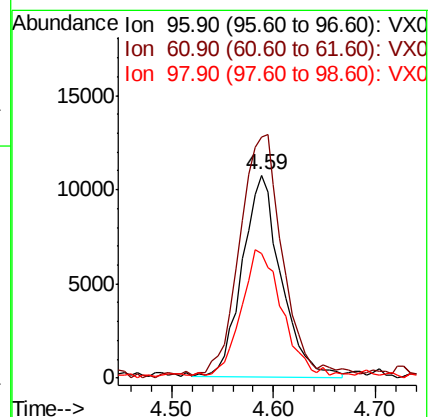
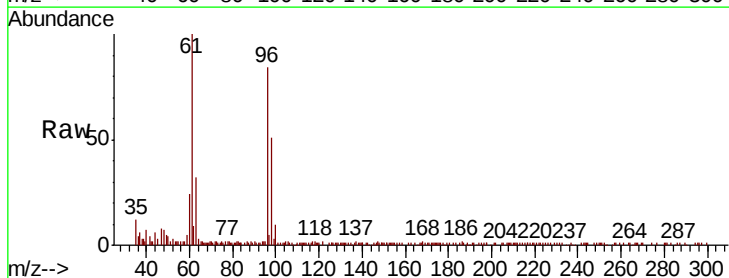
Tgt Ion: 96 Resp: 28347

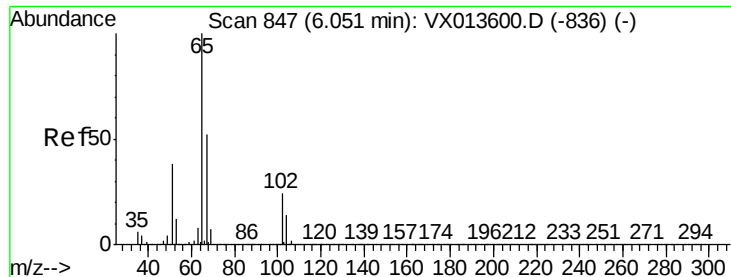
Ion Ratio Lower Upper

96 100

61 132.3 0.0 286.4

98 63.9 0.0 127.4





#33

1,2-Dichloroethane-d4

Concen: 48.275 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

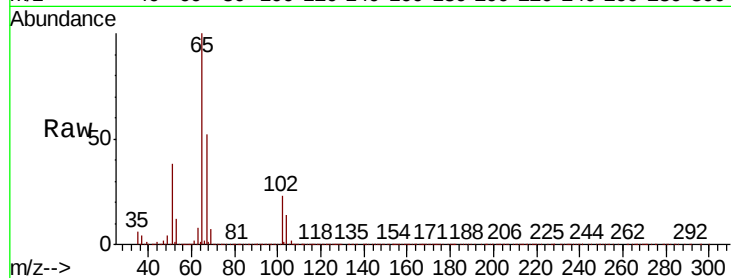
S39-0188

Tot Ion: 65 Resp: 379691

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

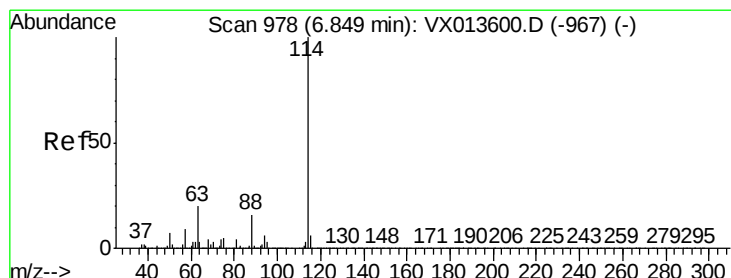
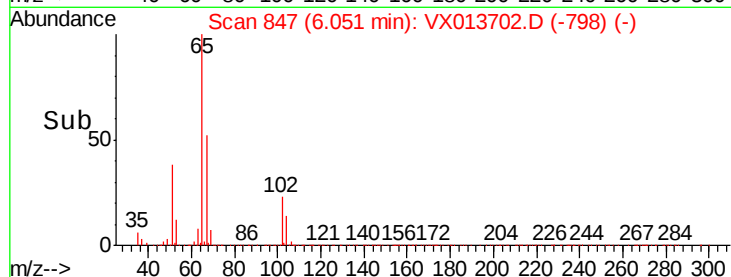
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

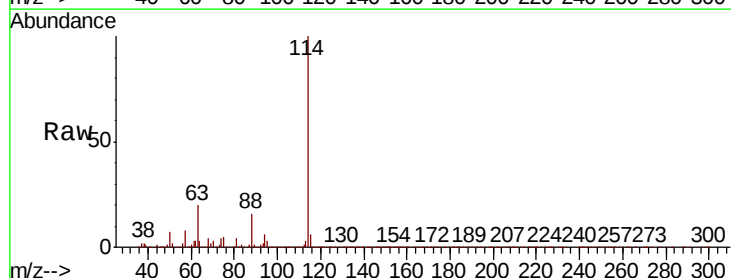
Tgt Ion: 114 Resp: 1048724

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 15.6 0.0 31.4



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

6.85

600000

500000

400000

300000

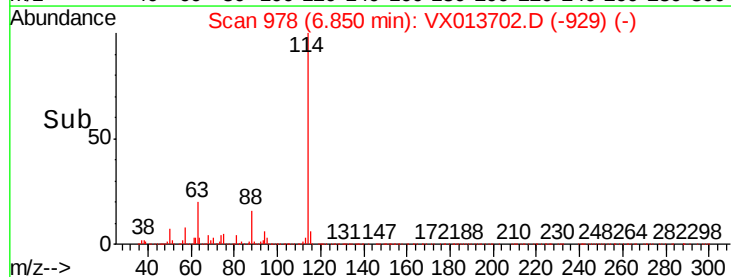
200000

100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.321 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

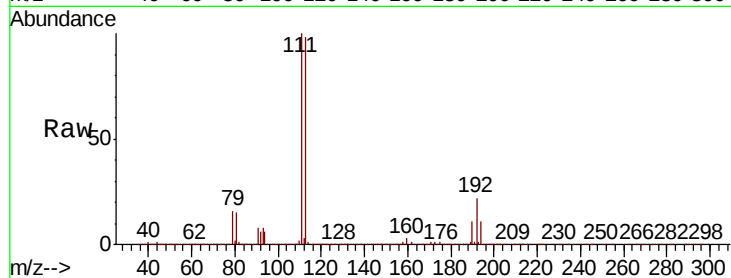
Tot Ion:113 Resp: 313284

Ion Ratio Lower Upper

113 100

111 100.7 83.6 125.4

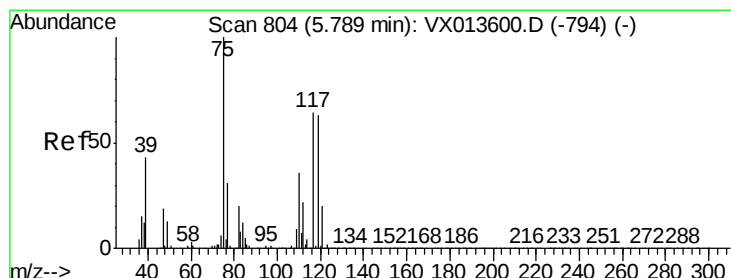
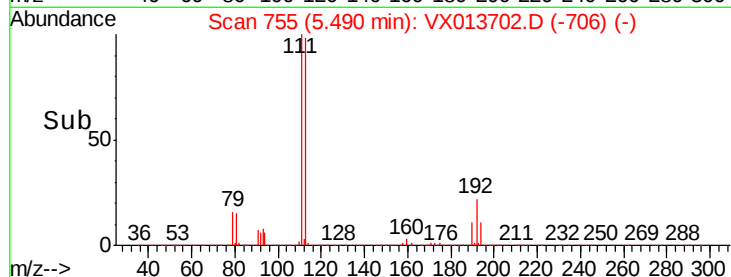
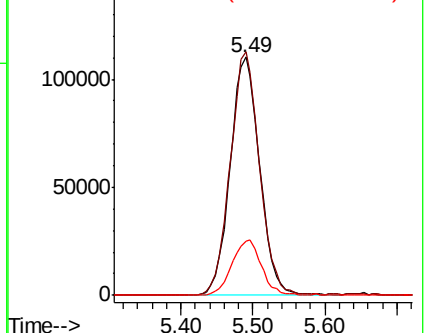
192 23.0 19.2 28.8



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: 4.913 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

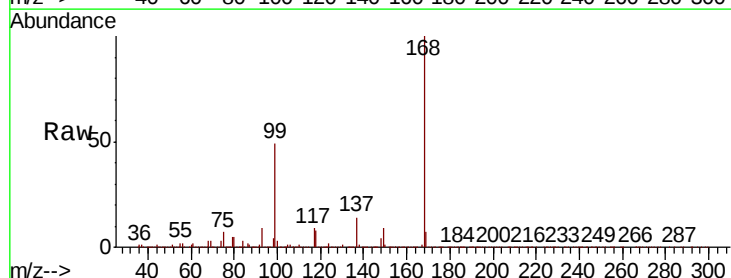
Tgt Ion: 75 Resp: 46769

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

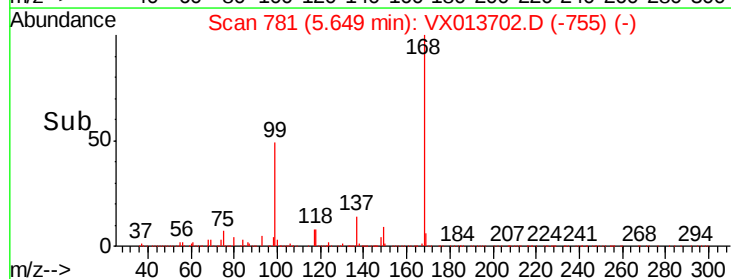
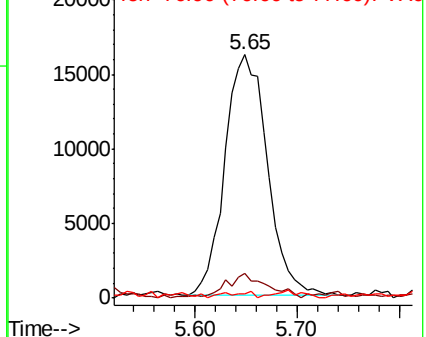
77 0.8 24.5 36.7#

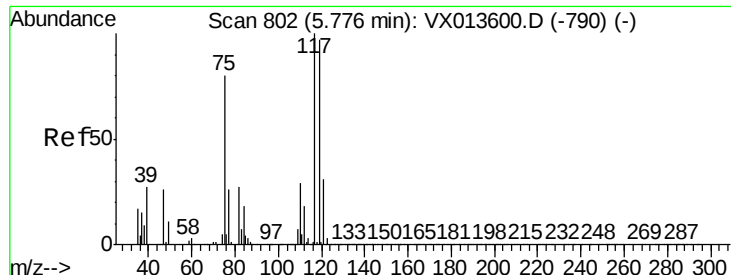


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.767 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

S39-0188

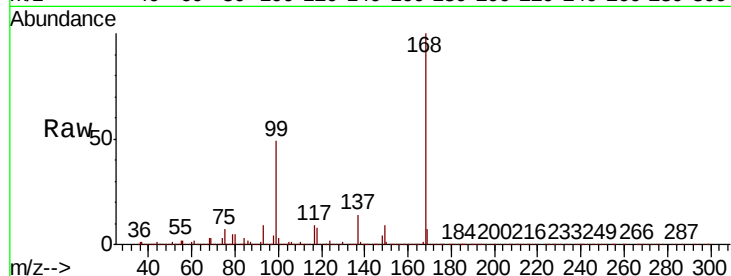
Tot Ion:117 Resp: 59401

Ion Ratio Lower Upper

117 100

119 3.5 77.5 116.3#

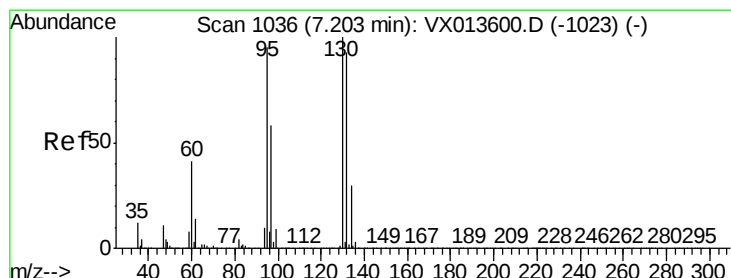
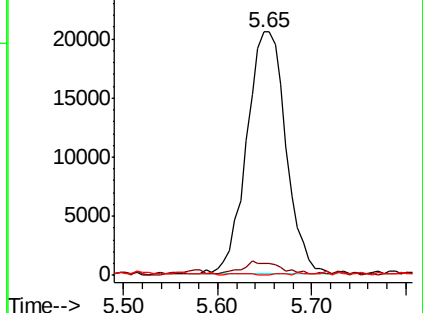
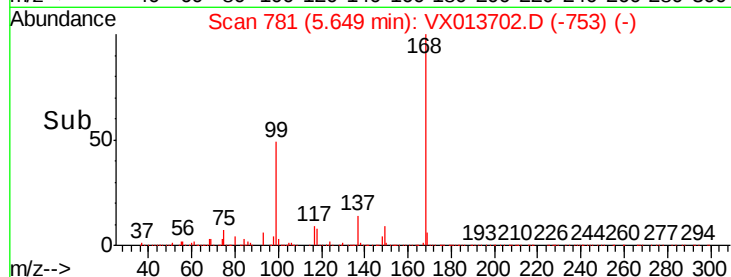
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 2.607 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013702.D

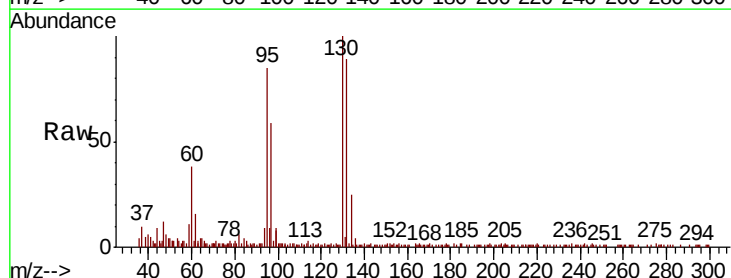
Acq: 29 Nov 2019 15:36

Tgt Ion:130 Resp: 20746

Ion Ratio Lower Upper

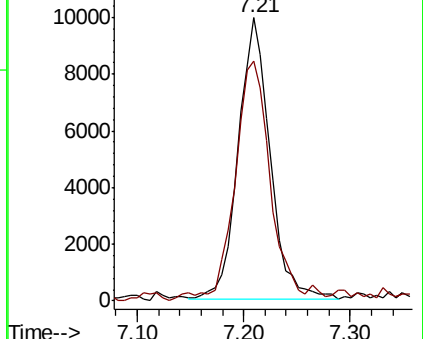
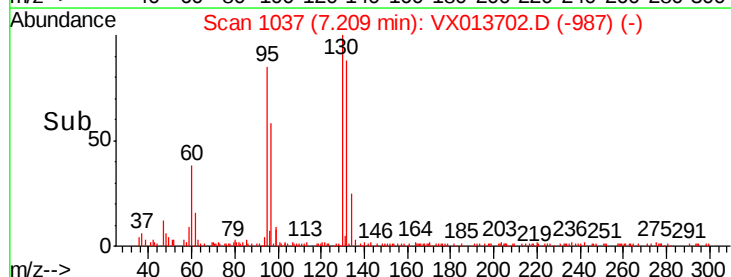
130 100

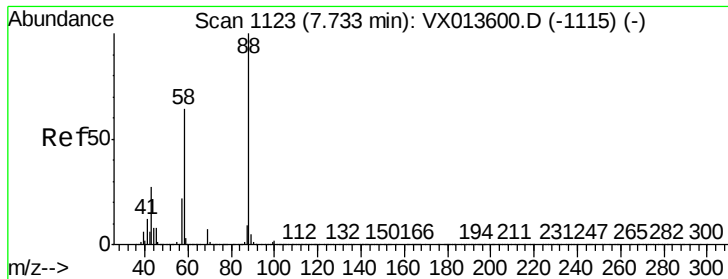
95 82.0 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.905 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

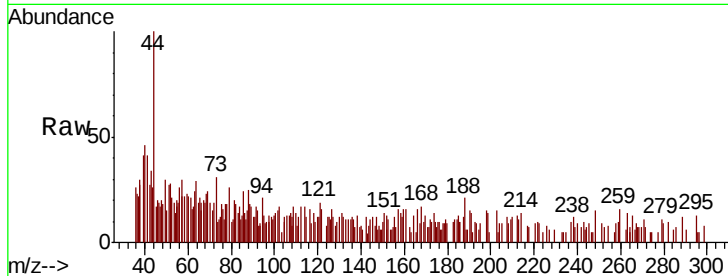
Tot Ion: 88 Resp: 173

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

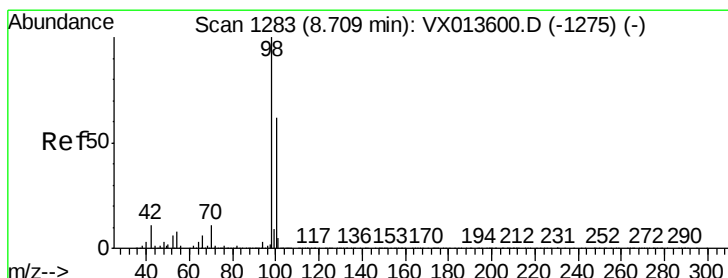
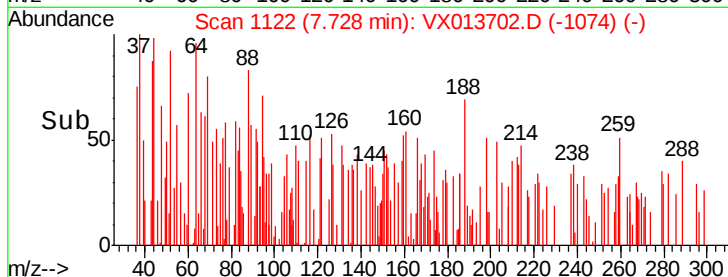
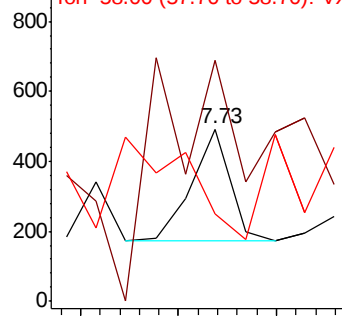
58 247.4 54.6 82.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.062 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013702.D

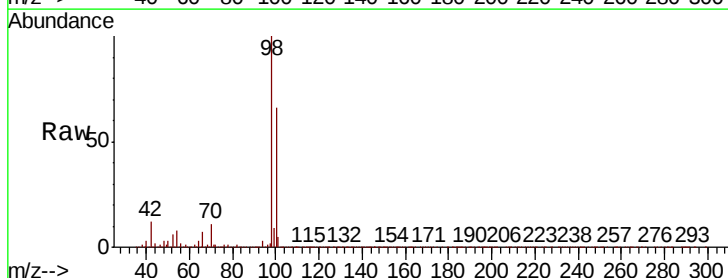
Acq: 29 Nov 2019 15:36

Tgt Ion: 98 Resp: 1239303

Ion Ratio Lower Upper

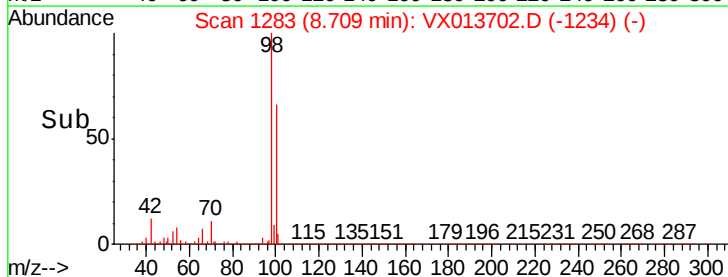
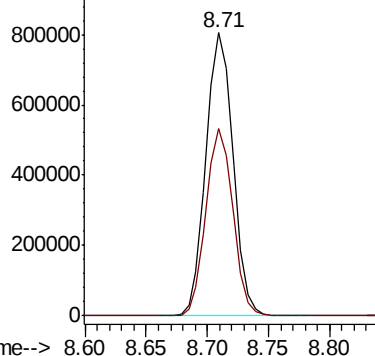
98 100

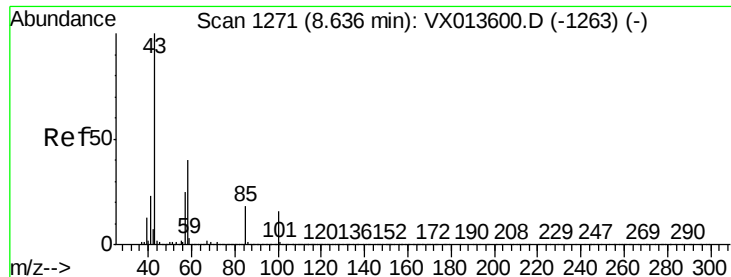
100 65.7 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.482 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

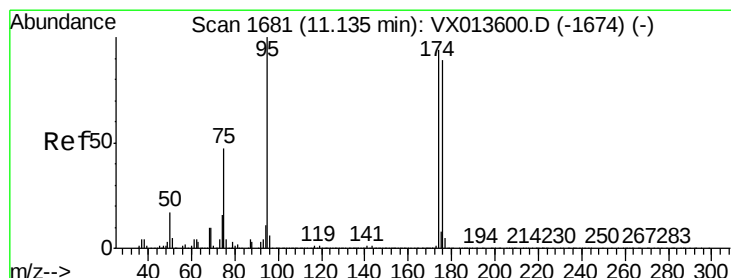
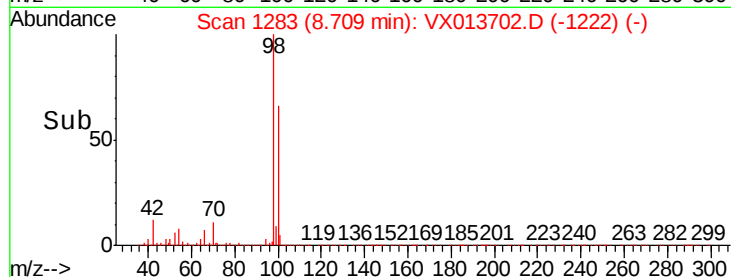
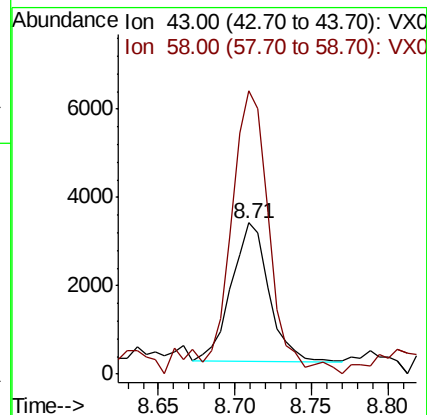
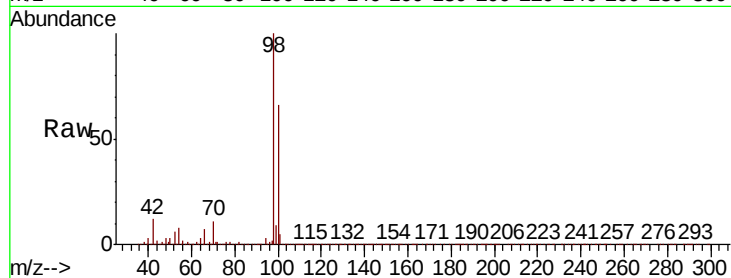
S39-0188

Tot Ion: 43 Resp: 5328

Ion Ratio Lower Upper

43 100

58 204.9 32.1 48.1#



#62

4-Bromofluorobenzene

Concen: 45.807 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

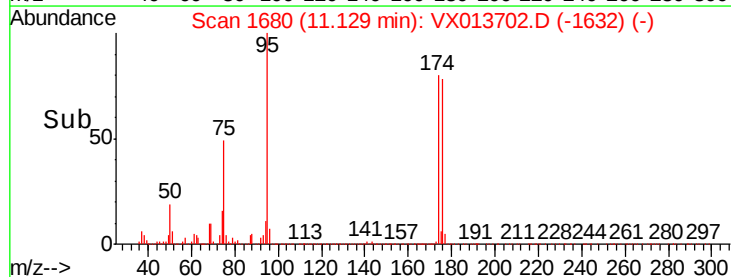
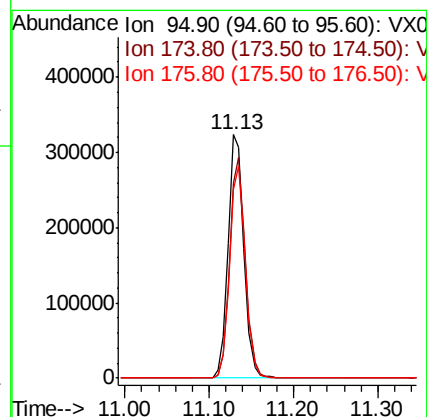
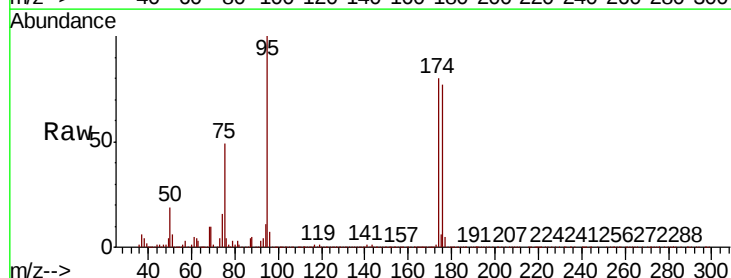
Tgt Ion: 95 Resp: 417248

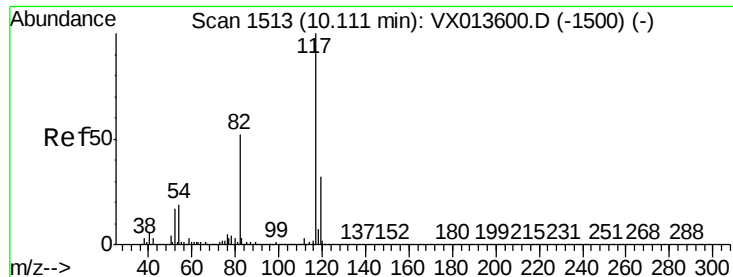
Ion Ratio Lower Upper

95 100

174 89.7 0.0 180.0

176 86.2 0.0 173.6

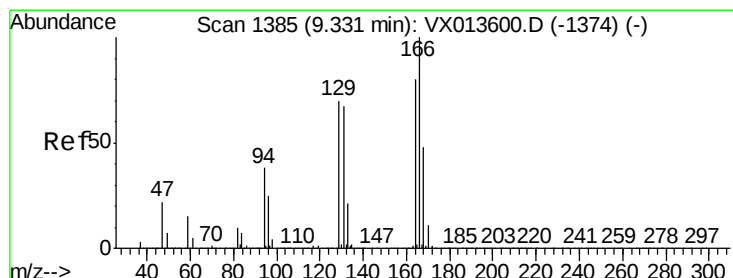
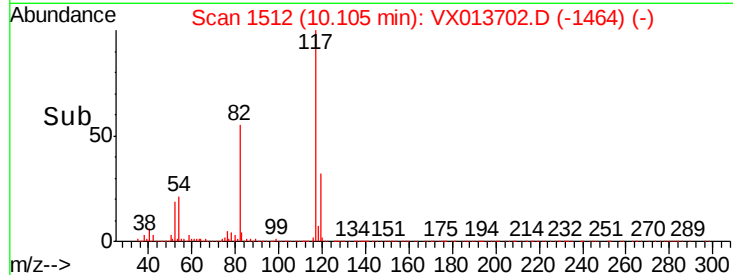
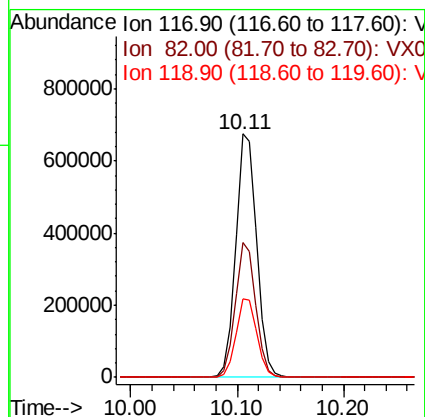
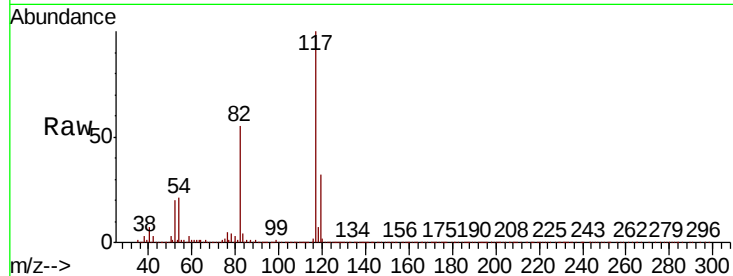




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

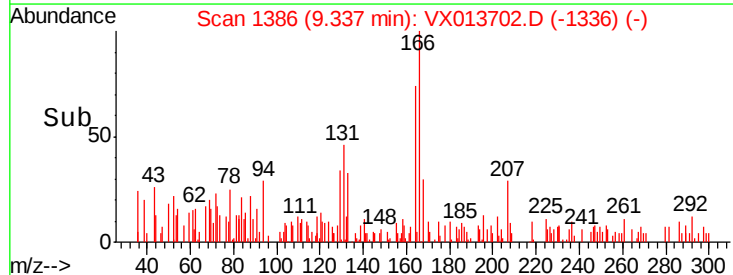
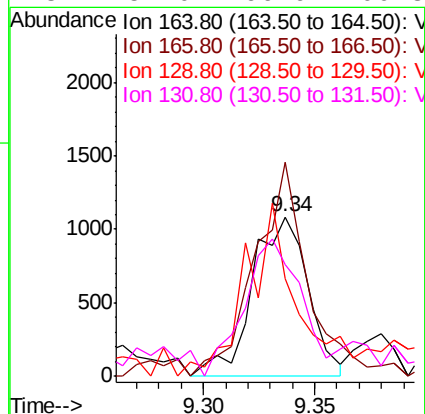
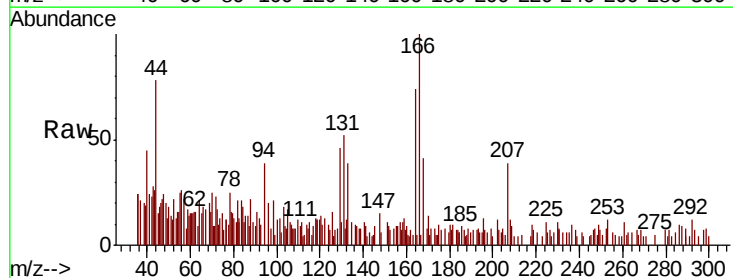
Instrument :
MSVOA_X
ClientSampleId :
S39-0188

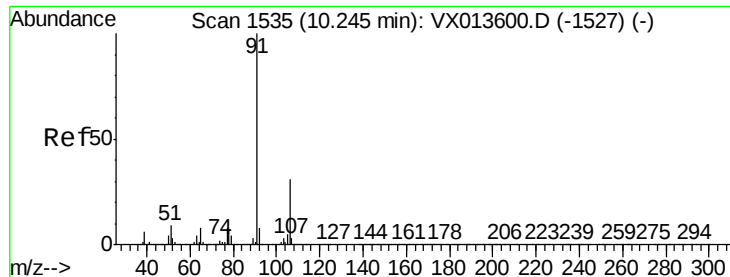
Tot Ion:117 Resp: 930972
Ion Ratio Lower Upper
117 100
82 55.1 41.8 62.8
119 32.2 25.8 38.8



#64
Tetrachloroethene
Concen: 0.272 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

Tgt Ion:164 Resp: 1887
Ion Ratio Lower Upper
164 100
166 134.3 99.7 149.5
129 52.4 70.1 105.1#
131 54.0 66.9 100.3#





#67

Ethyl Benzene

Concen: 0.337 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

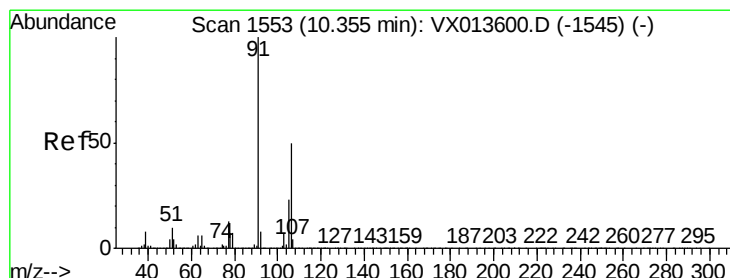
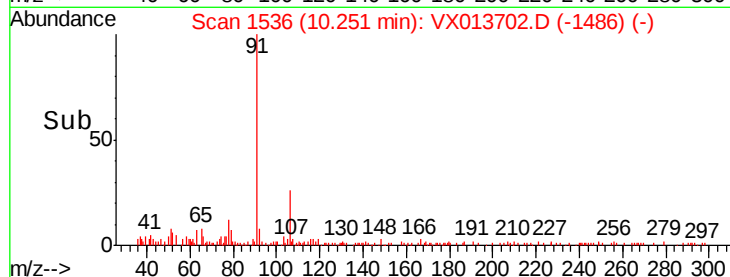
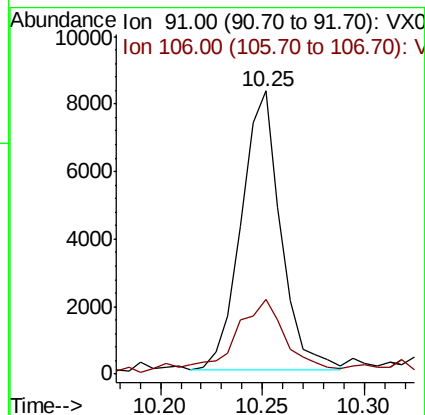
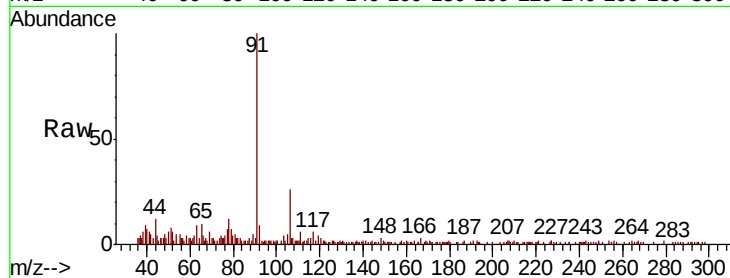
S39-0188

Tot Ion: 91 Resp: 11177

Ion Ratio Lower Upper

91 100

106 24.9 24.5 36.7



#68

m/p-Xylenes

Concen: 0.670 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013702.D

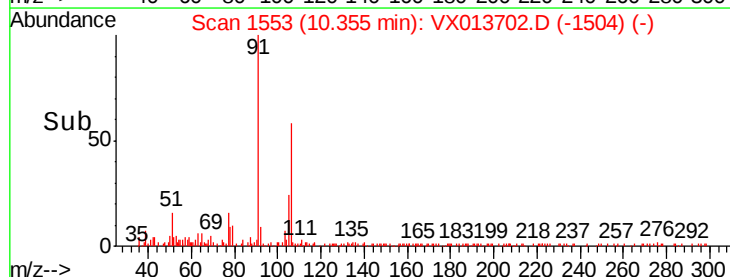
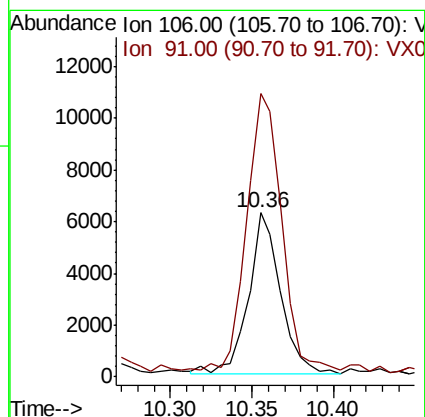
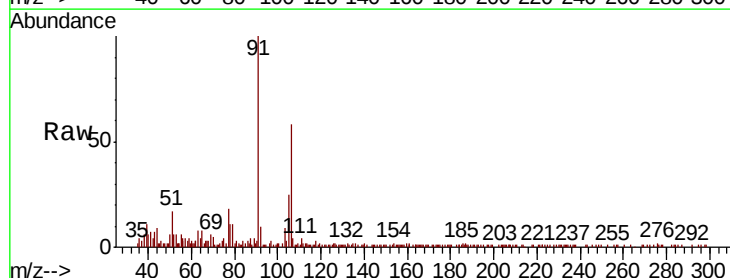
Acq: 29 Nov 2019 15:36

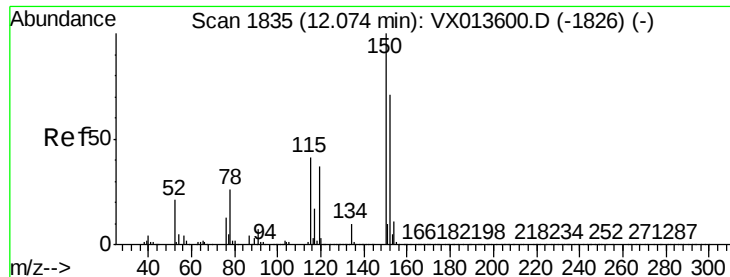
Tgt Ion: 106 Resp: 8519

Ion Ratio Lower Upper

106 100

91 186.0 159.0 238.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

S39-0188

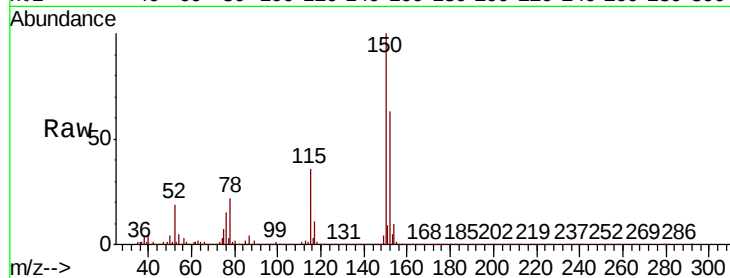
Tot Ion:152 Resp: 416116

Ion Ratio Lower Upper

152 100

115 55.8 38.4 115.1

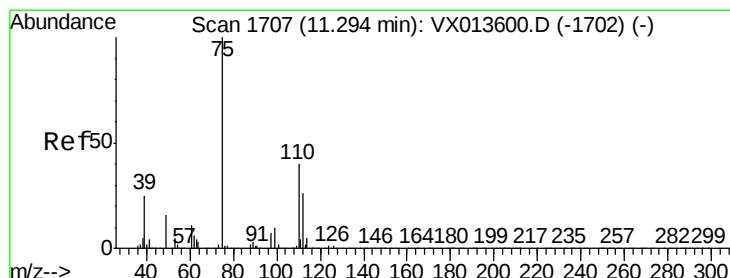
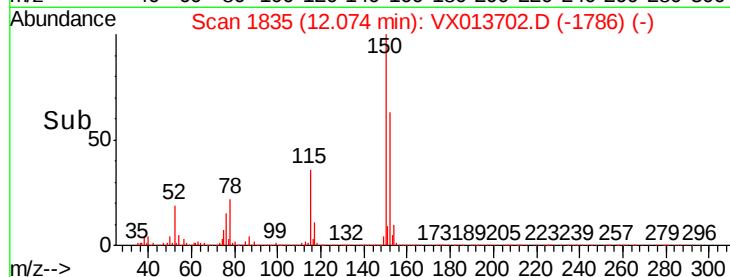
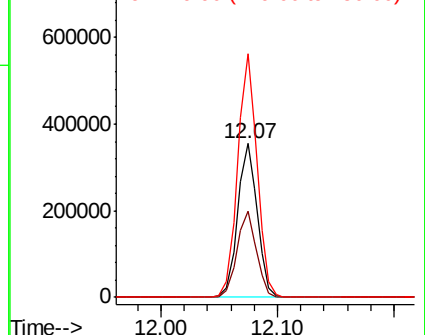
150 157.3 0.0 346.8



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: 21.808 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013702.D

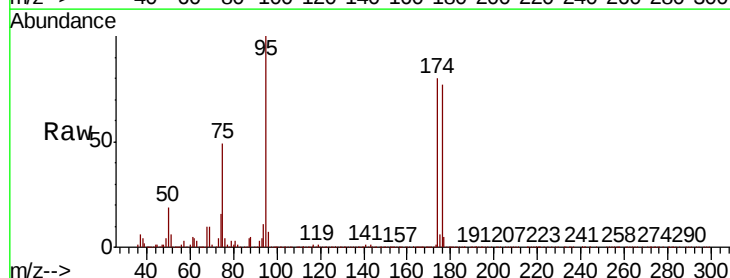
Acq: 29 Nov 2019 15:36

Tgt Ion: 75 Resp: 204104

Ion Ratio Lower Upper

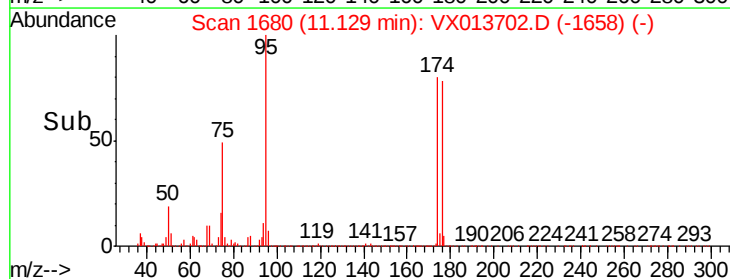
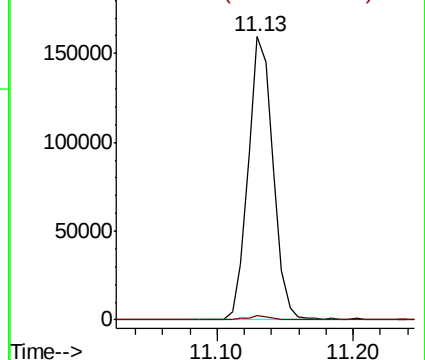
75 100

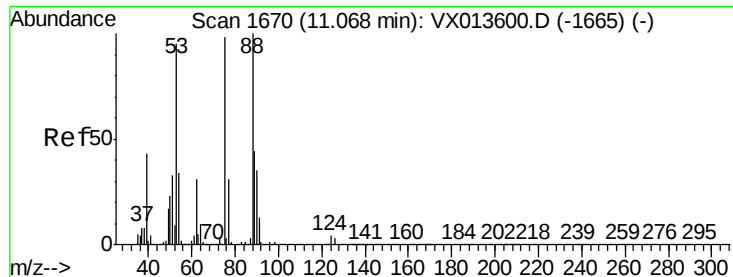
77 1.4 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

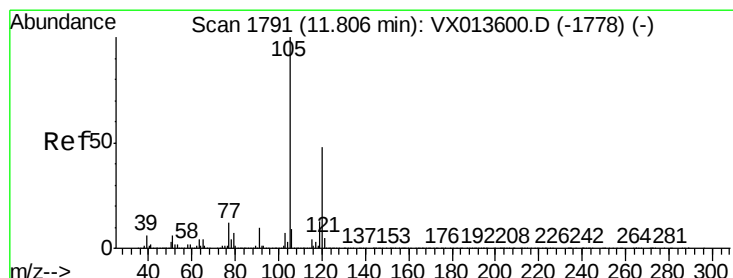
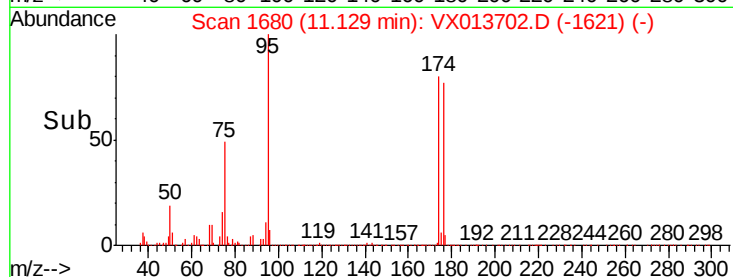
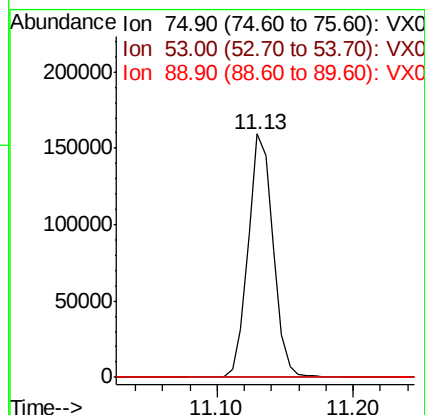
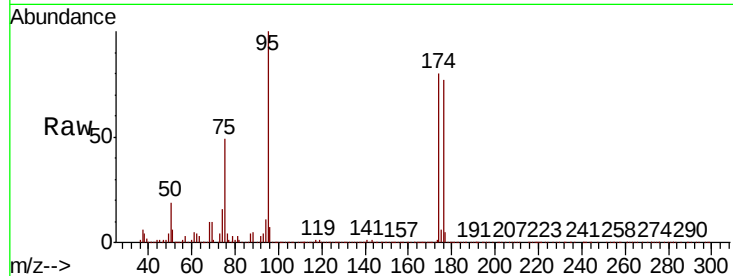




#81
trans-1,4-Dichloro-2-butene
Concen: 59.662 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

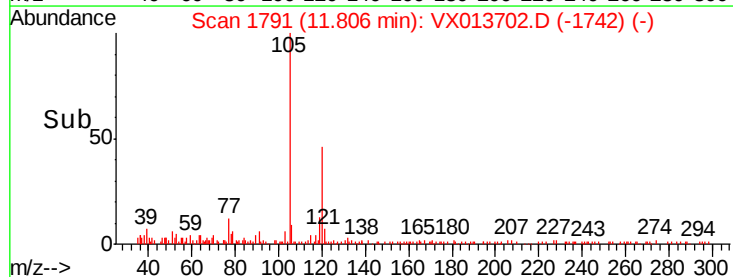
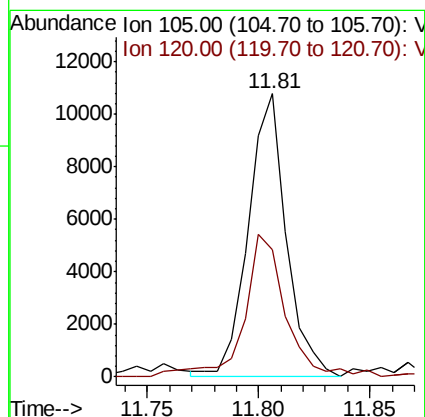
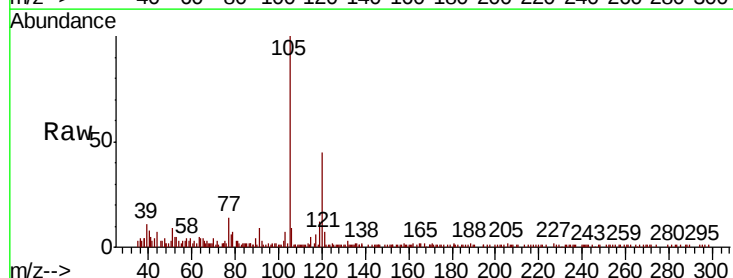
Instrument :
MSVOA_X
ClientSampleId :
S39-0188

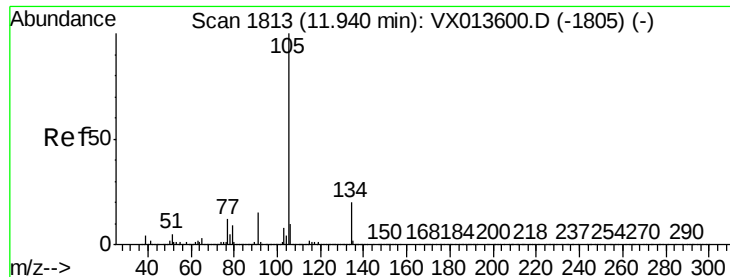
Tot Ion: 75 Resp: 204104
Ion Ratio Lower Upper
75 100
53 0.2 78.2 117.2#
89 0.2 35.4 53.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.529 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. 0.00 min
Lab File: VX013702.D
Acq: 29 Nov 2019 15:36

Tgt Ion: 105 Resp: 12844
Ion Ratio Lower Upper
105 100
120 55.8 23.1 69.3





#85

sec-Butylbenzene

Concen: 1.542 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

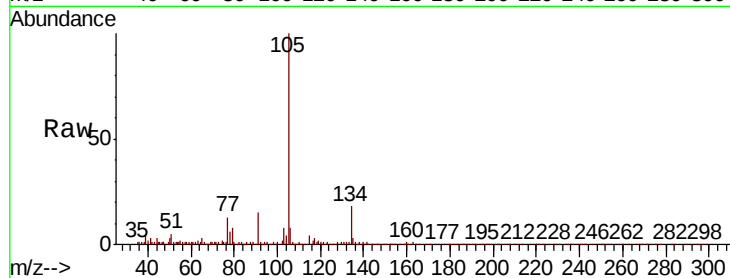
S39-0188

Tot Ion:105 Resp: 42817

Ion Ratio Lower Upper

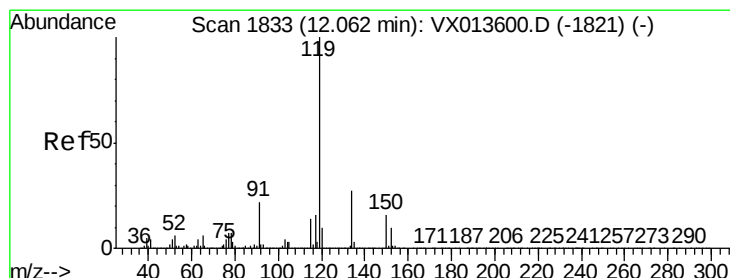
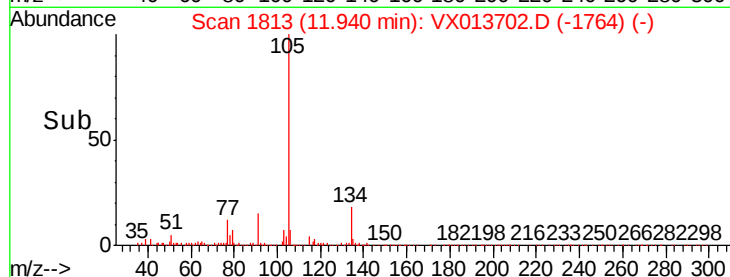
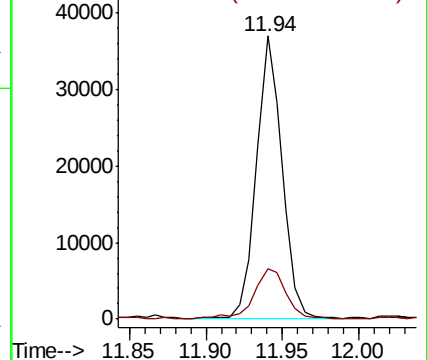
105 100

134 22.2 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.402 ug/l

RT: 12.23 min Scan# 1860

Delta R.T. 0.16 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

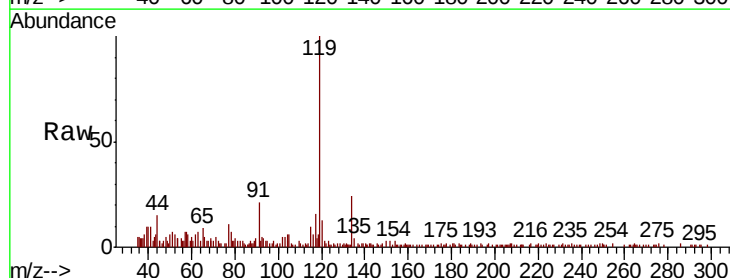
Tgt Ion:119 Resp: 10398

Ion Ratio Lower Upper

119 100

134 27.4 13.3 39.9

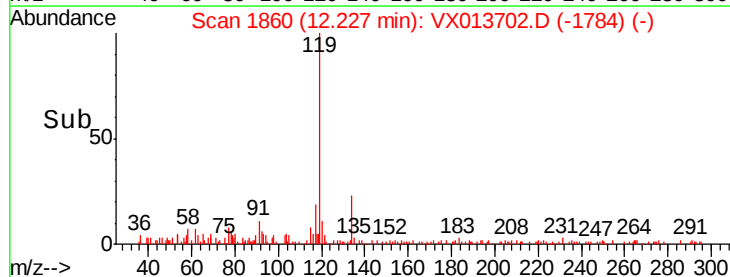
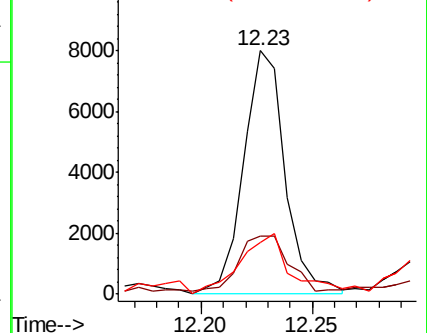
91 30.1 11.3 33.8

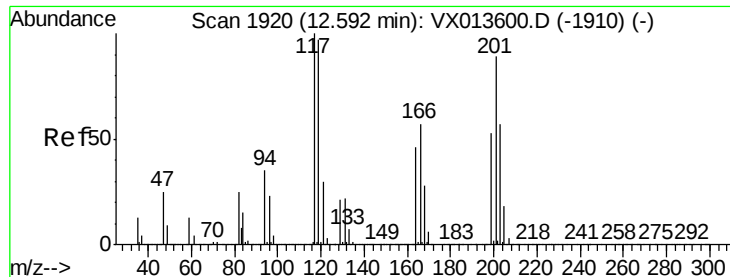


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#90

Hexachloroethane

Concen: 0.362 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

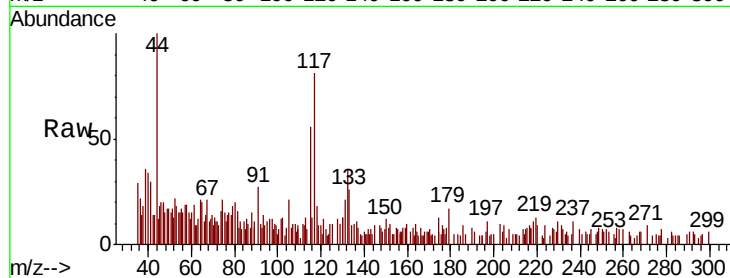
S39-0188

Tot Ion:117 Resp: 1690

Ion Ratio Lower Upper

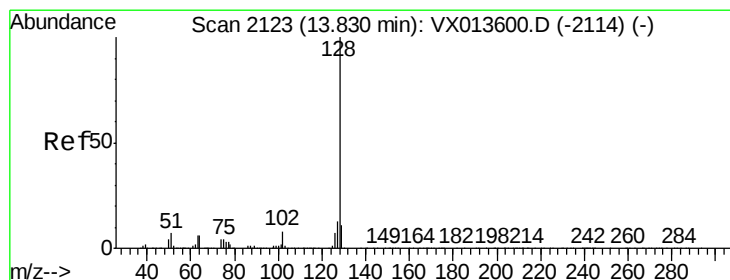
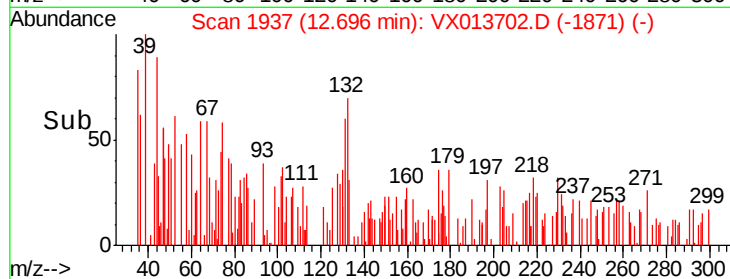
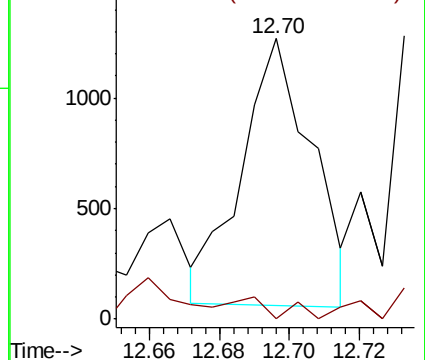
117 100

201 0.0 44.1 132.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.321 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013702.D

Acq: 29 Nov 2019 15:36

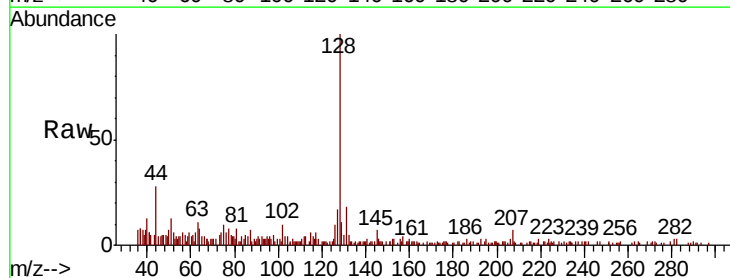
Tgt Ion:128 Resp: 9035

Ion Ratio Lower Upper

128 100

127 24.4 10.3 15.5#

129 9.1 8.7 13.1



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

