

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112919\
 Data File : VX013705.D
 Acq On : 29 Nov 2019 16:46
 Operator : JC/SP
 Sample : K5965-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0193

Quant Time: Nov 29 22:30:05 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	679061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1039481	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	924406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	415705	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	375534	47.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.28%	
35) Dibromofluoromethane	5.49	113	309999	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
50) Toluene-d8	8.71	98	1233363	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.14	95	412729	45.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.42%	

Target Compounds

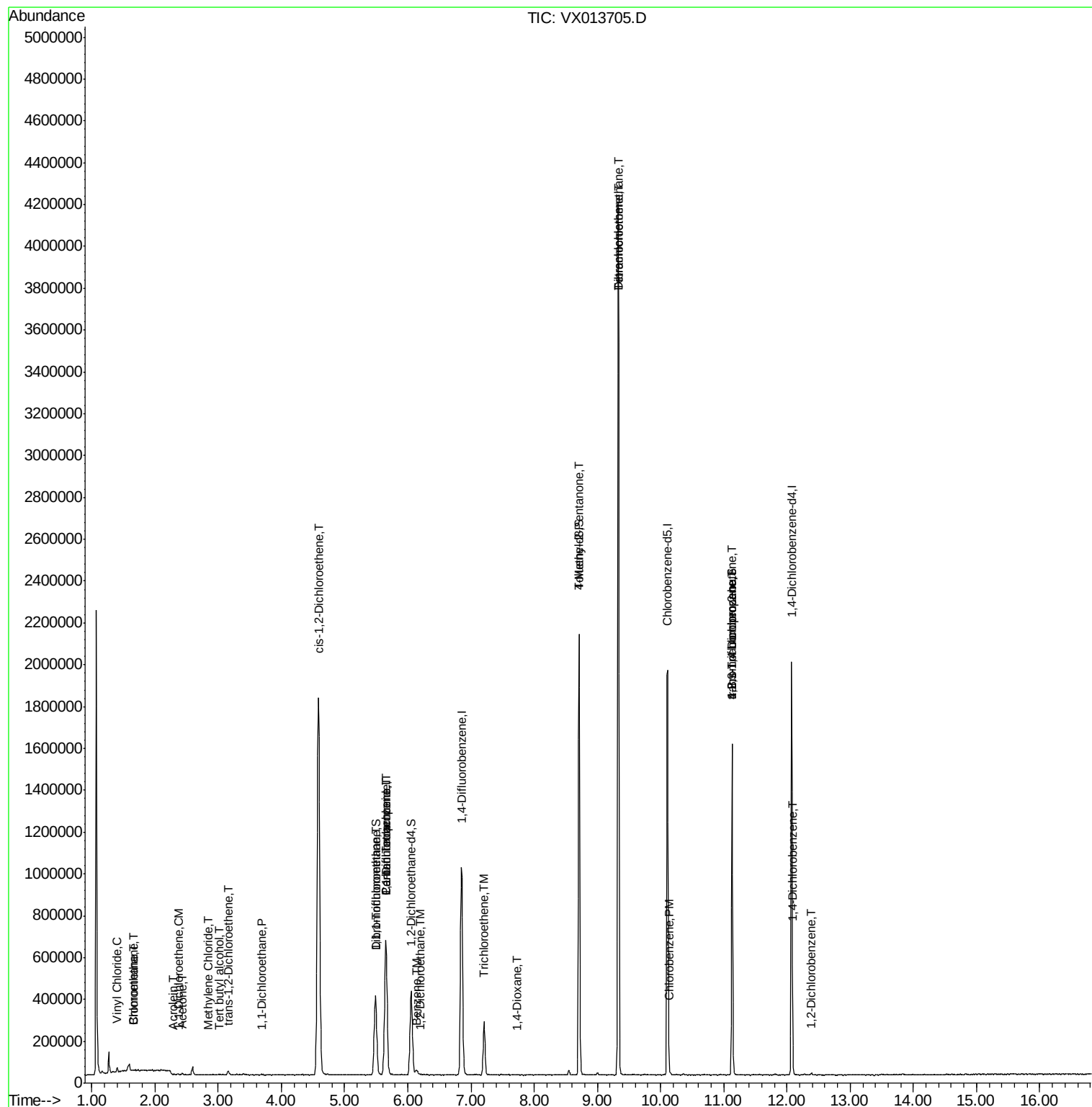
						Qvalue
4) Vinyl Chloride	1.40	62	13455	1.410	ug/l #	87
5) Bromomethane	1.66	94	1628	0.254	ug/l	83
6) Chloroethane	1.66	64	1209	0.223	ug/l #	42
11) Tert butyl alcohol	3.02	59	5823	2.993	ug/l #	74
12) 1,1-Dichloroethene	2.36	96	2081	0.322	ug/l #	79
13) Acrolein	2.30	56	438	6.332	ug/l #	42
16) Acetone	2.43	43	9051	2.326	ug/l	98
20) Methylene Chloride	2.85	84	1588	0.212	ug/l #	62
21) trans-1,2-Dichloroethene	3.16	96	9047	1.285	ug/l	97
24) 1,1-Dichloroethane	3.69	63	4878	0.395	ug/l #	88
27) cis-1,2-Dichloroethene	4.59	96	1154309	142.775	ug/l	89
32) 1,1,1-Trichloroethane	5.49	97	17959	1.717	ug/l	97
36) 1,1-Dichloropropene	5.65	75	45187	4.789	ug/l #	52
38) Carbon Tetrachloride	5.65	117	56931	6.543	ug/l #	14
40) Benzene	6.13	78	27244	0.948	ug/l	97
42) 1,2-Dichloroethane	6.20	62	2108	0.215	ug/l	93
44) Trichloroethene	7.21	130	104494	13.249	ug/l	97
49) 1,4-Dioxane	7.74	88	1535	8.099	ug/l #	66
51) 4-Methyl-2-Pentanone	8.71	43	5488	0.501	ug/l #	1
60) Dibromochloromethane	9.33	129	741024	99.246	ug/l #	11
64) Tetrachloroethene	9.33	164	836182	121.297	ug/l	98
65) Chlorobenzene	10.14	112	8650	0.451	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	204347	21.855	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	204347	59.793	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	5015	0.359	ug/l #	7
91) 1,2-Dichlorobenzene	12.39	146	2998	0.221	ug/l	77

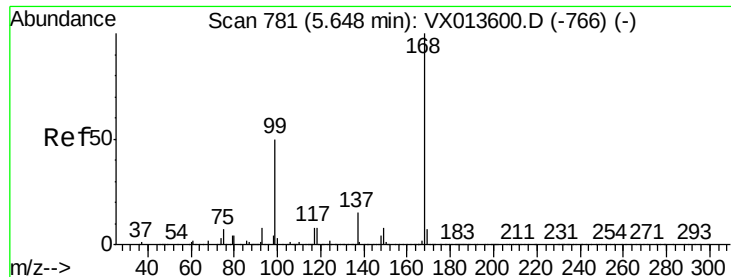
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

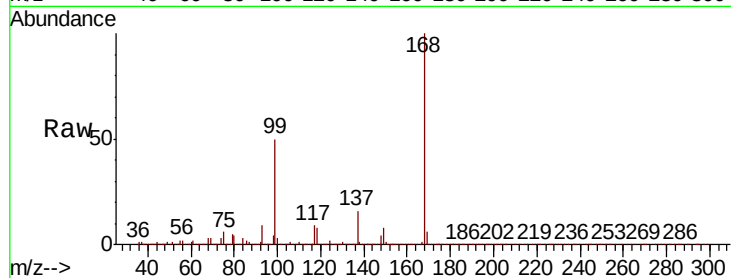
S39-0193

Tot Ion:168 Resp: 679061

Ion Ratio Lower Upper

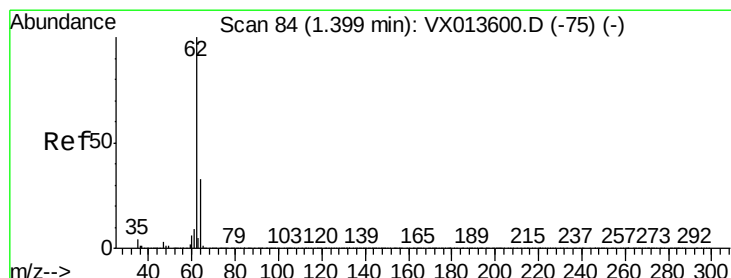
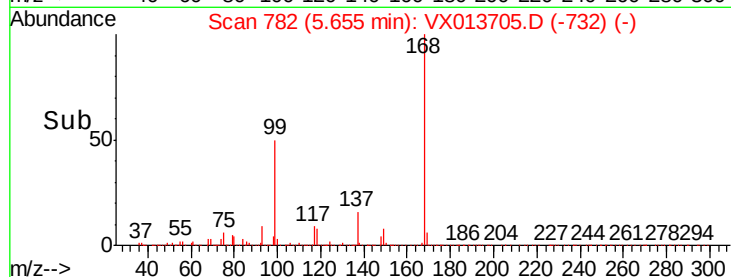
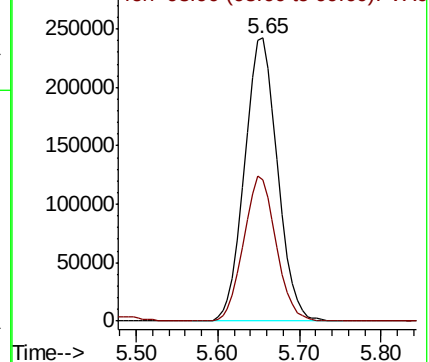
168 100

99 50.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1.410 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013705.D

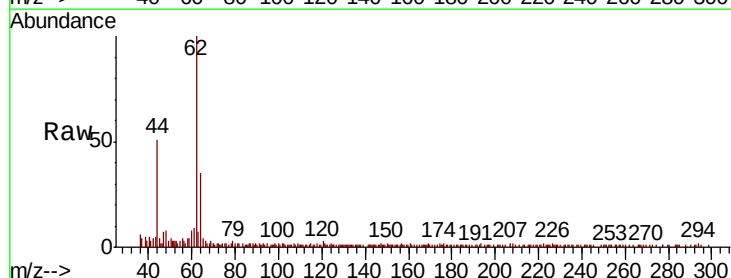
Acq: 29 Nov 2019 16:46

Tgt Ion: 62 Resp: 13455

Ion Ratio Lower Upper

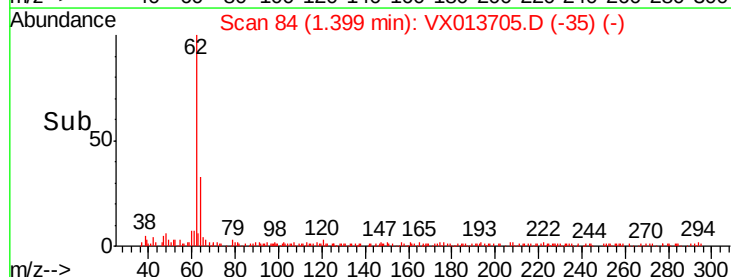
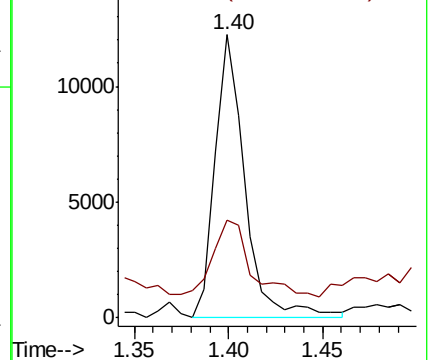
62 100

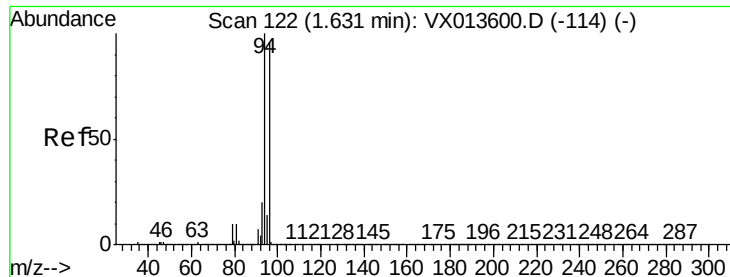
64 25.1 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.254 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampled :

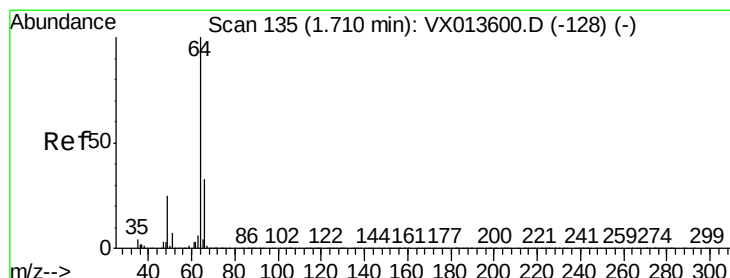
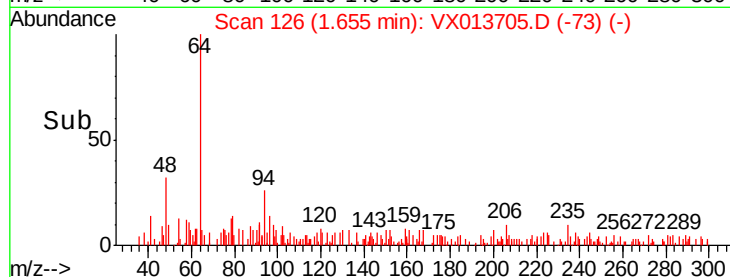
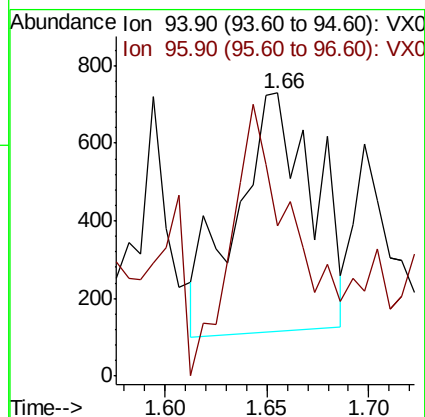
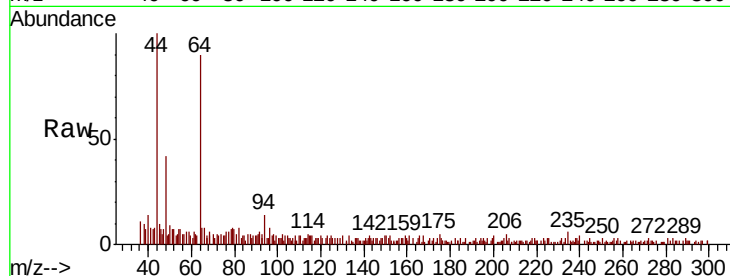
S39-0193

Tot Ion: 94 Resp: 1628

Ion Ratio Lower Upper

94 100

96 79.3 77.0 115.4



#6

Chloroethane

Concen: 0.223 ug/l

RT: 1.66 min Scan# 126

Delta R.T. -0.05 min

Lab File: VX013705.D

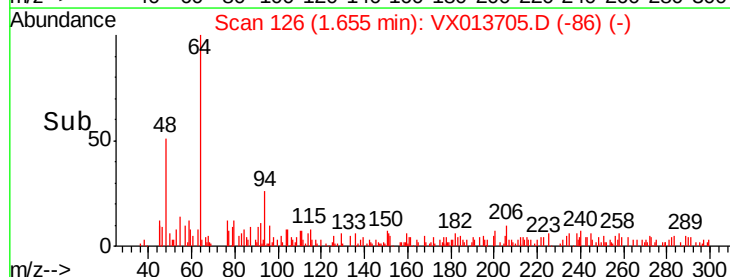
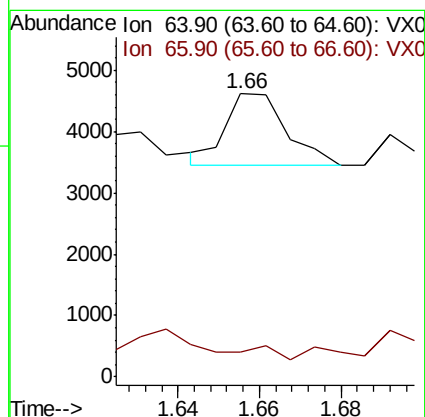
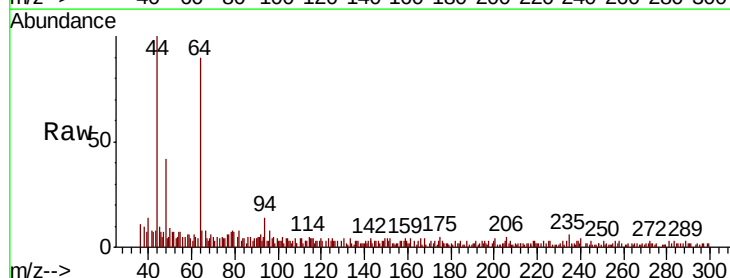
Acq: 29 Nov 2019 16:46

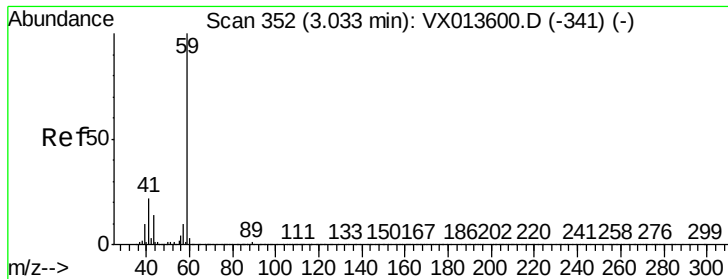
Tgt Ion: 64 Resp: 1209

Ion Ratio Lower Upper

64 100

66 0.2 26.7 40.1#

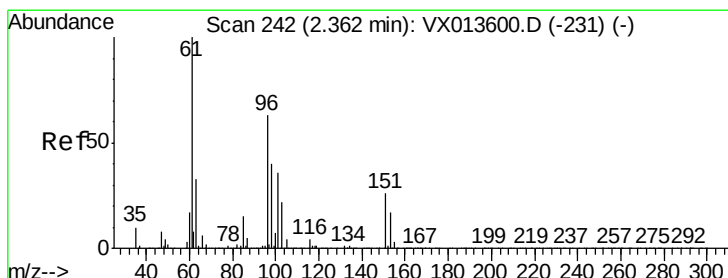
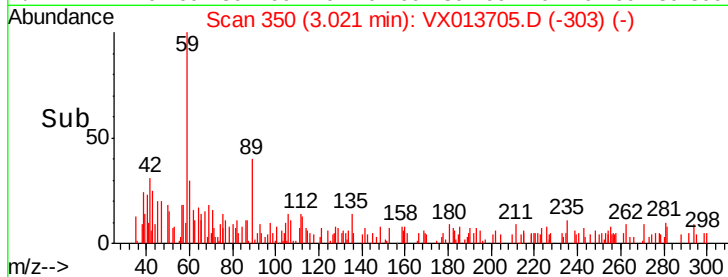
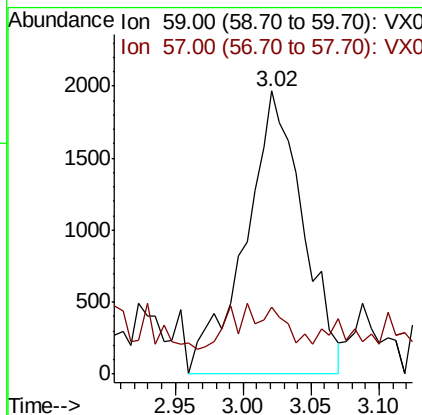
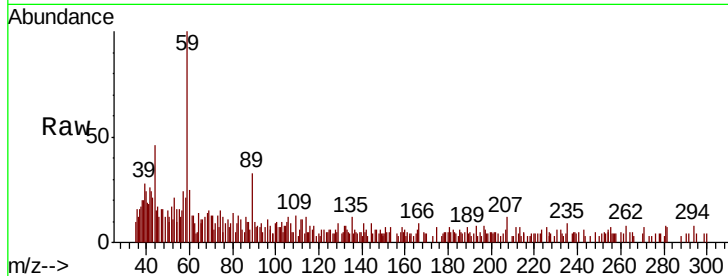




#11
Tert butyl alcohol
Concen: 2.993 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013705.D
Acq: 29 Nov 2019 16:46

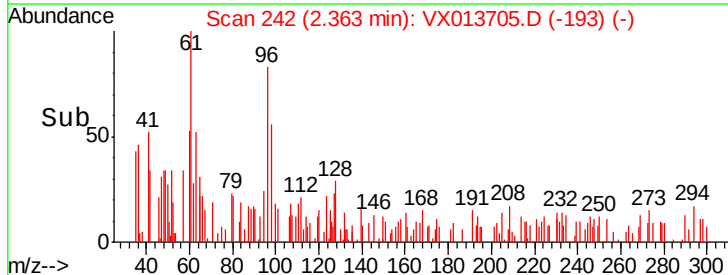
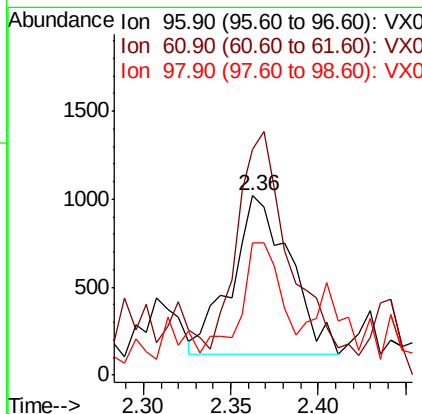
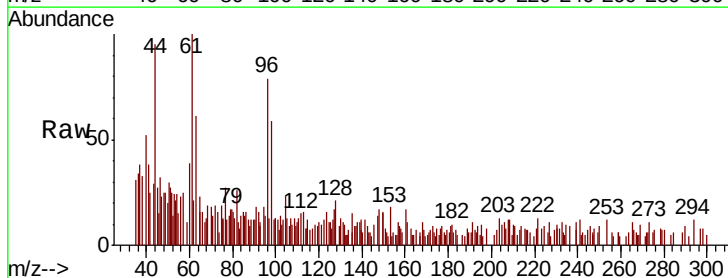
Instrument :
MSVOA_X
ClientSampled :
S39-0193

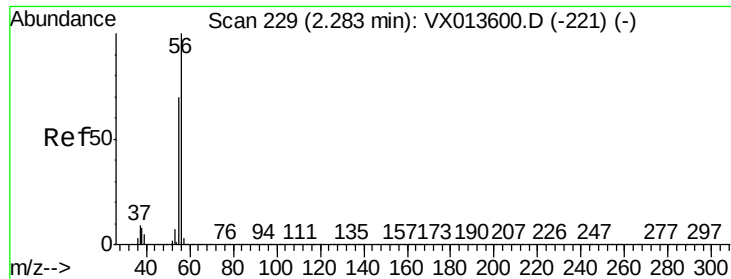
Tot Ion: 59 Resp: 5823
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.322 ug/l
RT: 2.36 min Scan# 242
Delta R.T. 0.00 min
Lab File: VX013705.D
Acq: 29 Nov 2019 16:46

Tgt Ion: 96 Resp: 2081
Ion Ratio Lower Upper
96 100
61 124.9 126.6 190.0#
98 55.7 50.6 76.0

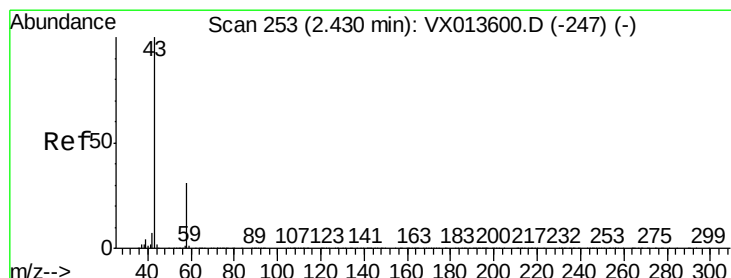
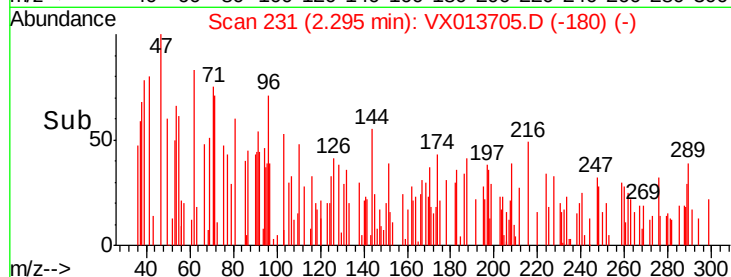
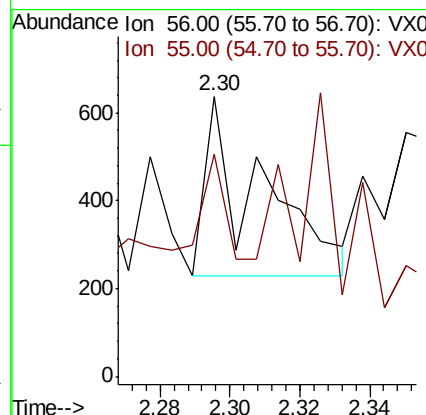
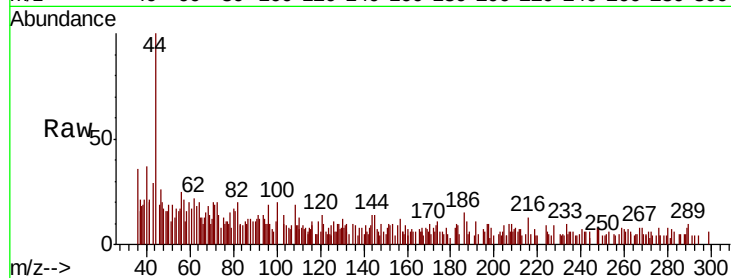




#13
Acrolein
Concen: 6.332 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX013705.D
Acq: 29 Nov 2019 16:46

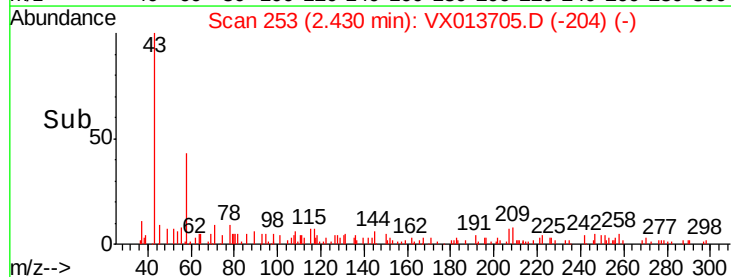
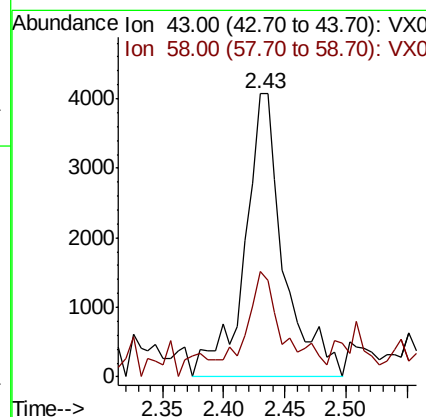
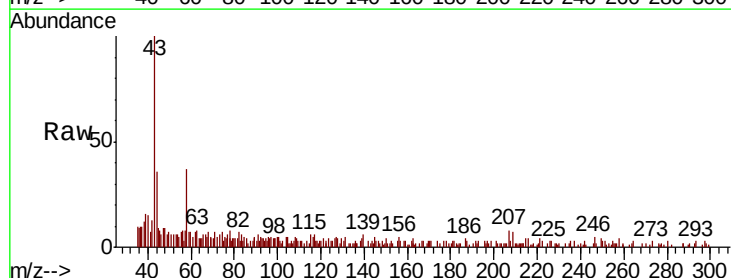
Instrument :
MSVOA_X
ClientSampled :
S39-0193

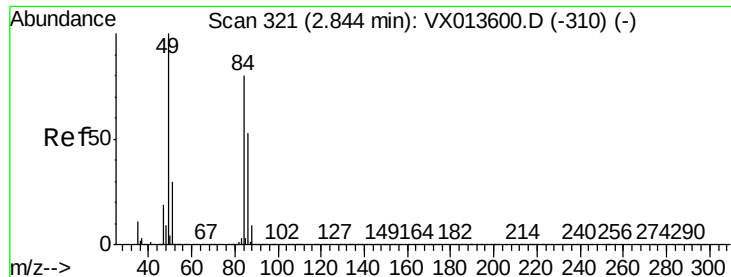
Tot Ion: 56 Resp: 438
Ion Ratio Lower Upper
56 100
55 22.6 56.2 84.4#



#16
Acetone
Concen: 2.326 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013705.D
Acq: 29 Nov 2019 16:46

Tgt Ion: 43 Resp: 9051
Ion Ratio Lower Upper
43 100
58 29.4 24.6 36.8

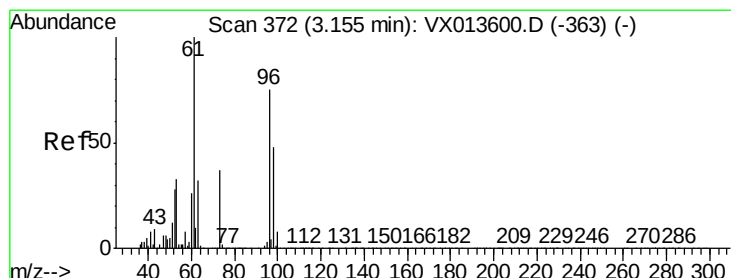
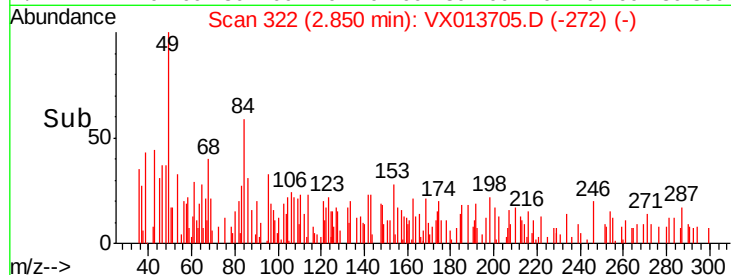
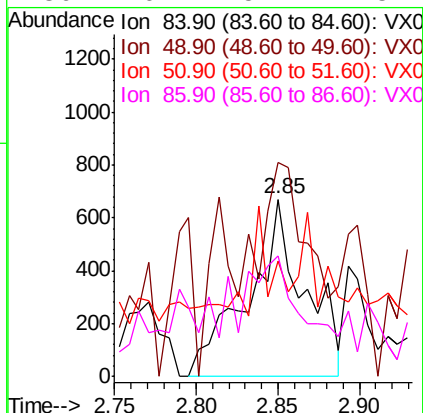
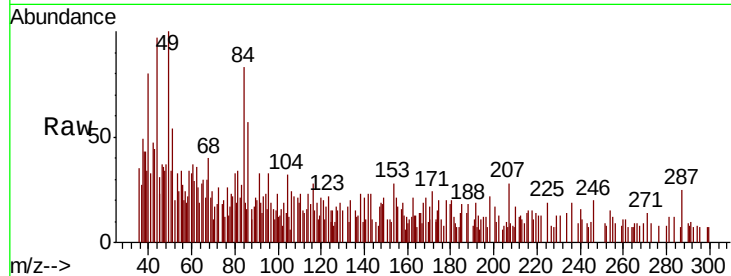




#20
Methylene Chloride
Concen: 0.212 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013705.D
Acq: 29 Nov 2019 16:46

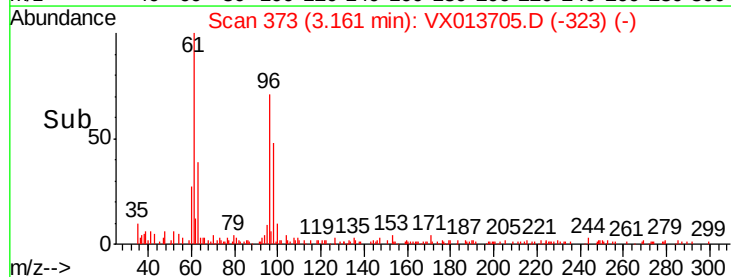
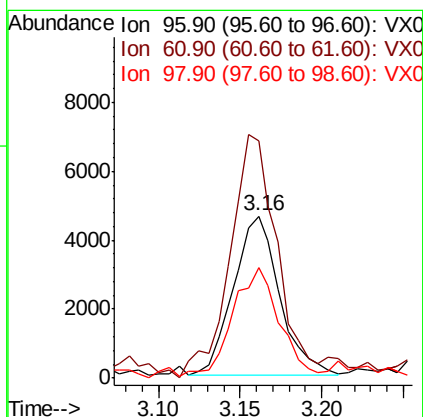
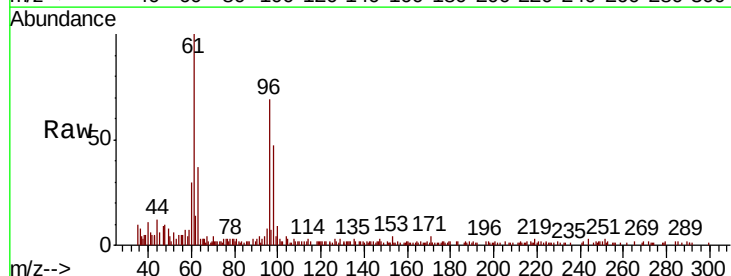
Instrument :
MSVOA_X
ClientSampled :
S39-0193

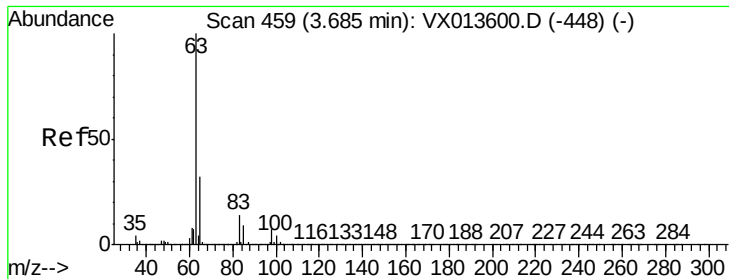
Tot Ion: 84 Resp: 1588
Ion Ratio Lower Upper
84 100
49 70.3 99.7 149.5#
51 20.3 29.9 44.9#
86 46.2 52.2 78.4#



#21
trans-1,2-Dichloroethene
Concen: 1.285 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013705.D
Acq: 29 Nov 2019 16:46

Tgt Ion: 96 Resp: 9047
Ion Ratio Lower Upper
96 100
61 138.1 107.2 160.8
98 65.2 51.4 77.0

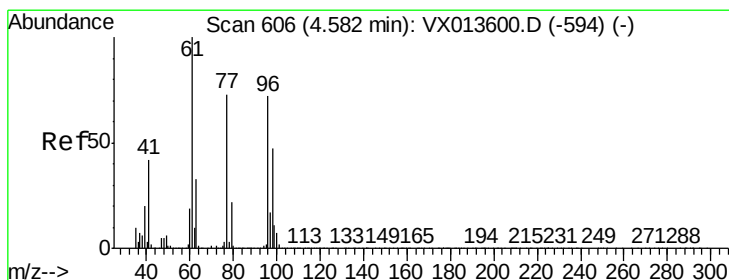
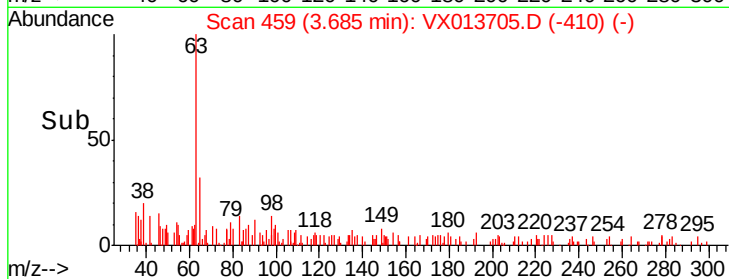
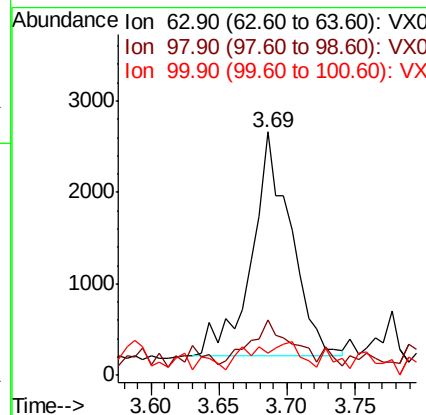
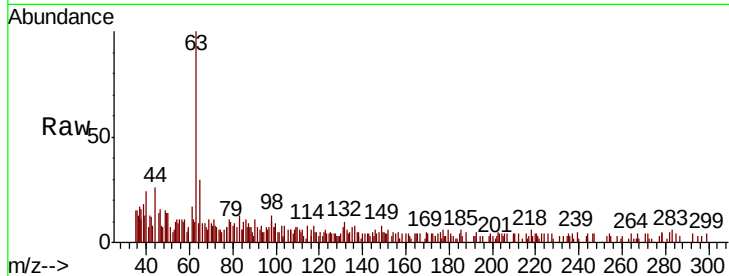




#24
 1,1-Dichloroethane
 Concen: 0.395 ug/l
 RT: 3.69 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VX013705.D
 Acq: 29 Nov 2019 16:46

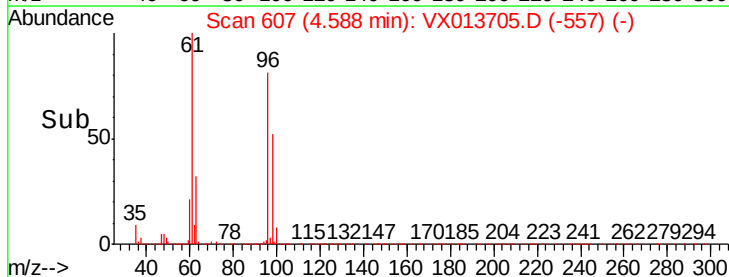
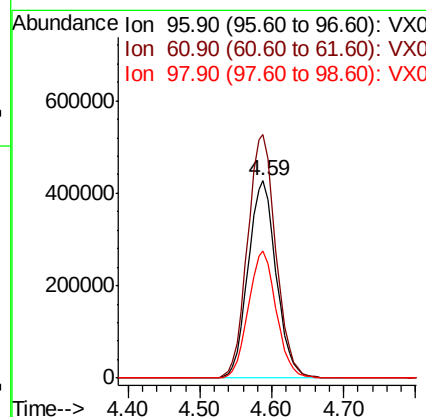
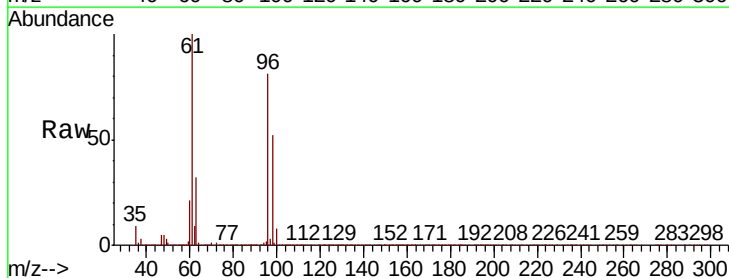
Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0193

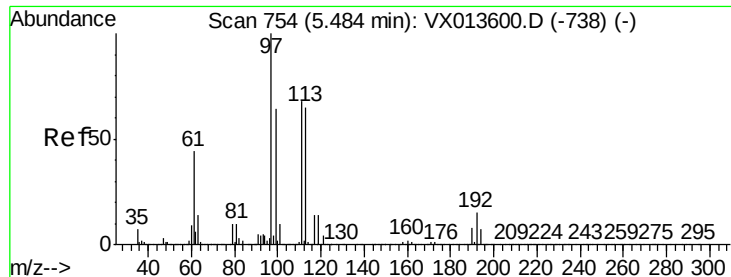
Tot Ion	Ratio	Lower	Upper
63	100		
98	10.8	3.5	10.4#
100	8.8	2.1	6.3#



#27
 cis-1,2-Dichloroethene
 Concen: 142.775 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013705.D
 Acq: 29 Nov 2019 16:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.4	0.0	286.4
98	64.1	0.0	127.4





#32

1,1,1-Trichloroethane

Concen: 1.717 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

S39-0193

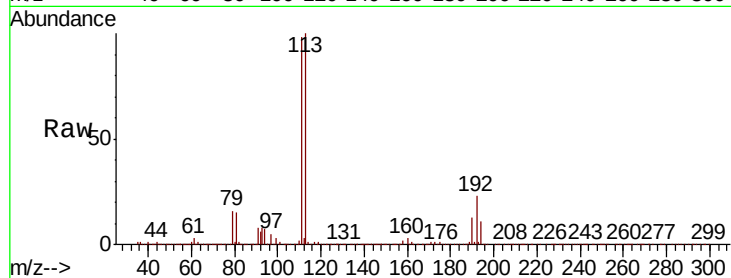
Tot Ion: 97 Resp: 17959

Ion Ratio Lower Upper

97 100

99 62.3 51.6 77.4

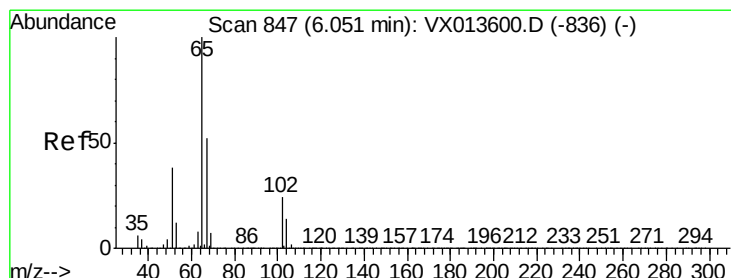
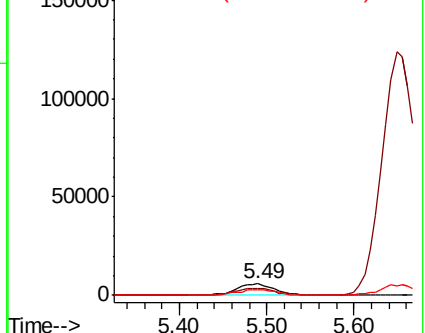
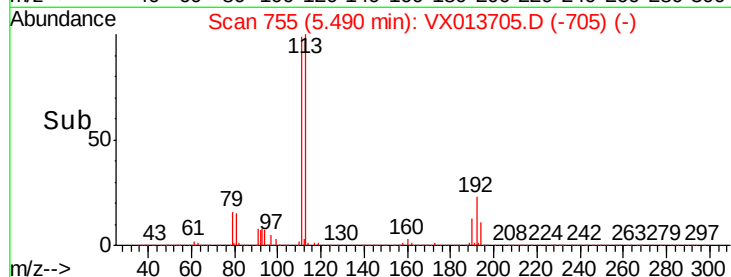
61 47.1 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.642 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013705.D

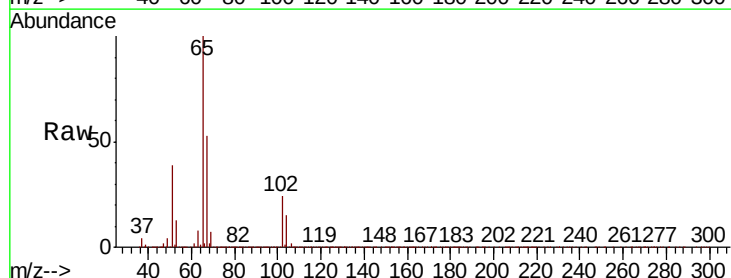
Acq: 29 Nov 2019 16:46

Tgt Ion: 65 Resp: 375534

Ion Ratio Lower Upper

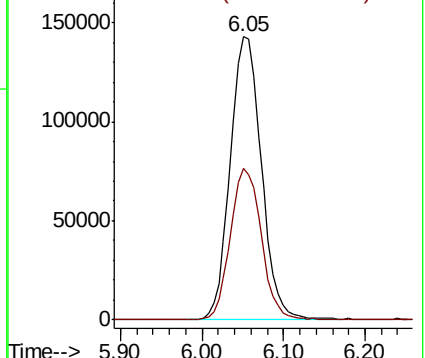
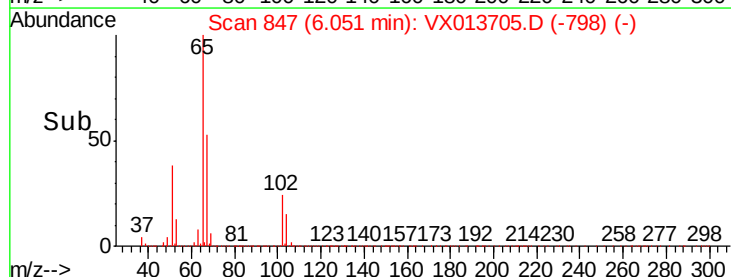
65 100

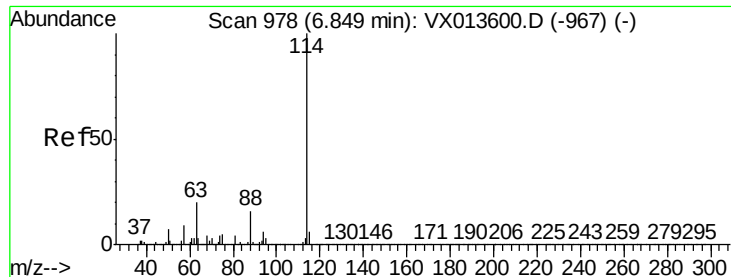
67 52.9 0.0 104.4



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

S39-0193

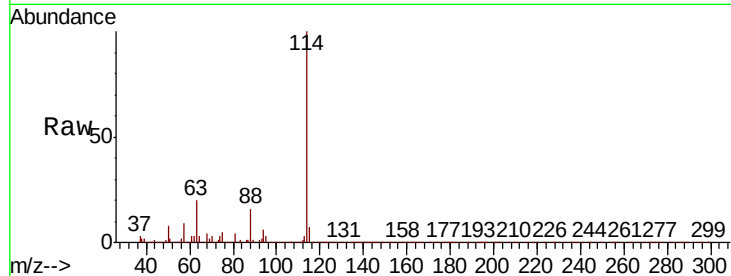
Tot Ion:114 Resp: 1039481

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

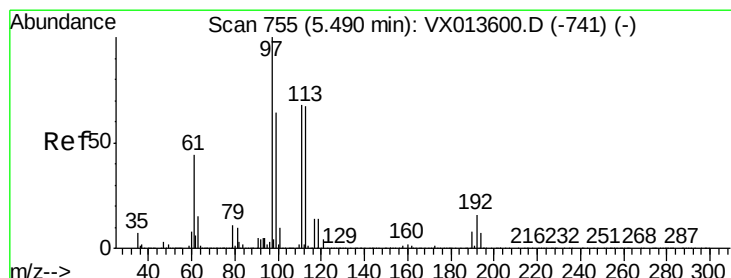
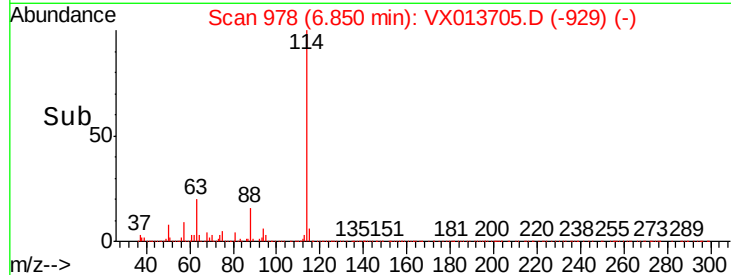
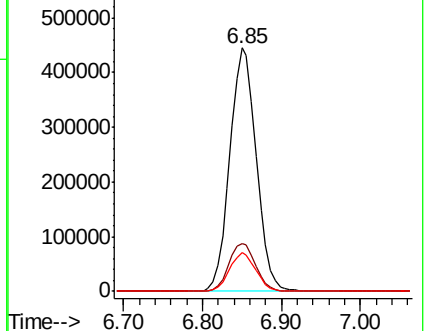
88 15.8 0.0 31.4



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



#35

Dibromofluoromethane

Concen: 48.240 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

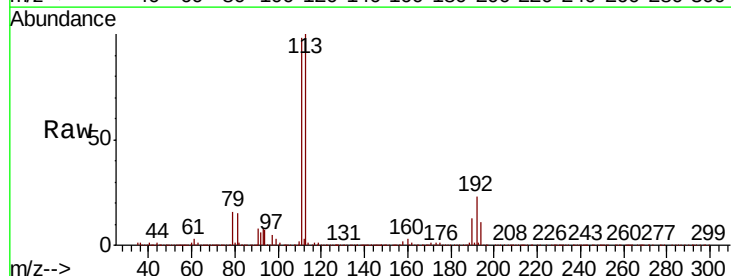
Tgt Ion:113 Resp: 309999

Ion Ratio Lower Upper

113 100

111 103.2 83.6 125.4

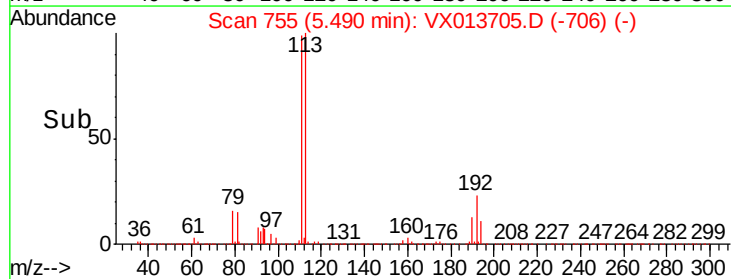
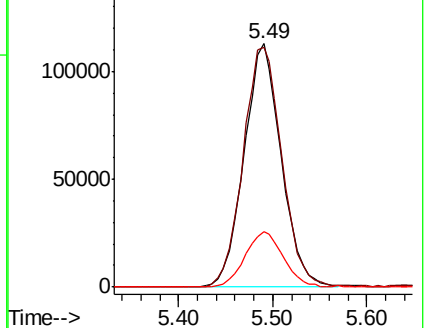
192 23.6 19.2 28.8

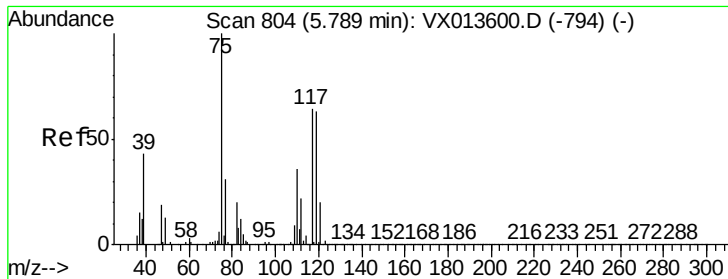


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.789 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

S39-0193

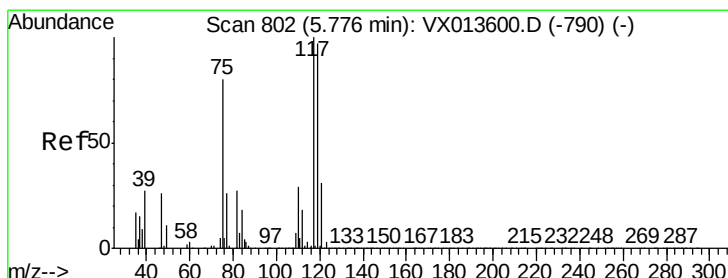
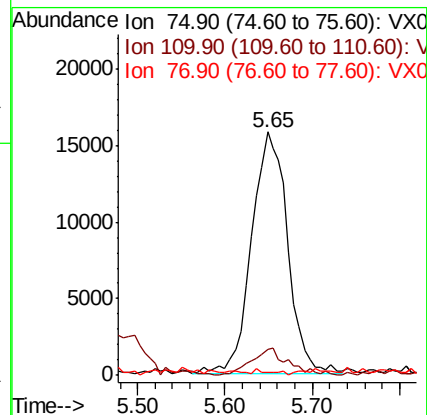
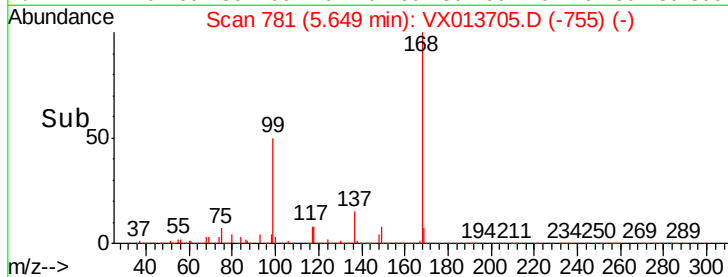
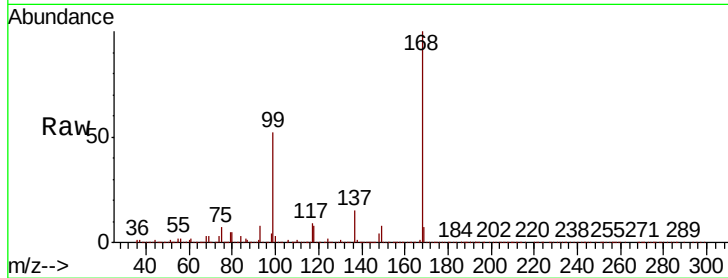
Tot Ion: 75 Resp: 45187

Ion Ratio Lower Upper

75 100

110 11.4 18.1 54.1#

77 0.4 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.543 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

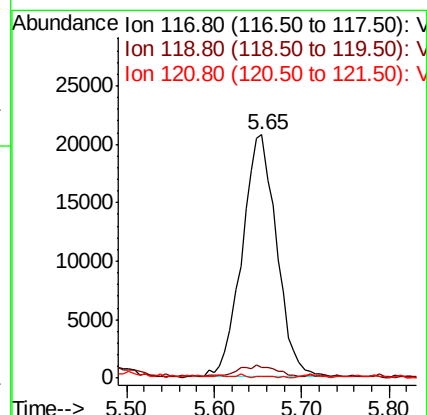
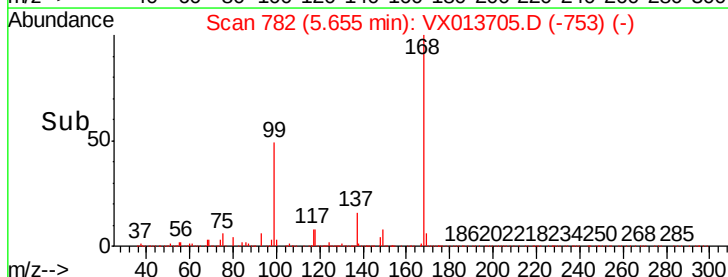
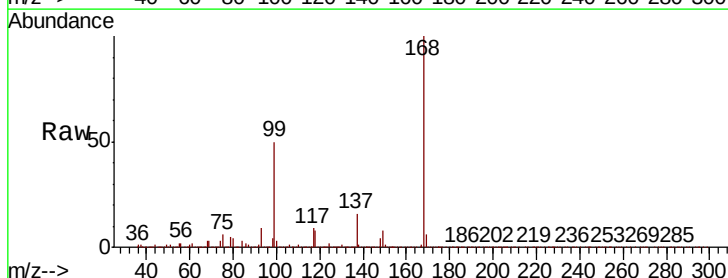
Tgt Ion: 117 Resp: 56931

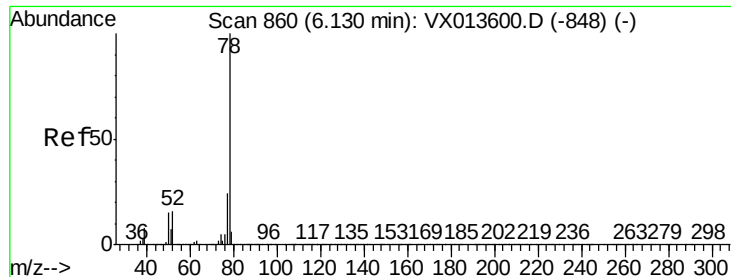
Ion Ratio Lower Upper

117 100

119 3.3 77.5 116.3#

121 0.0 25.0 37.6#





#40

Benzene

Concen: 0.948 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

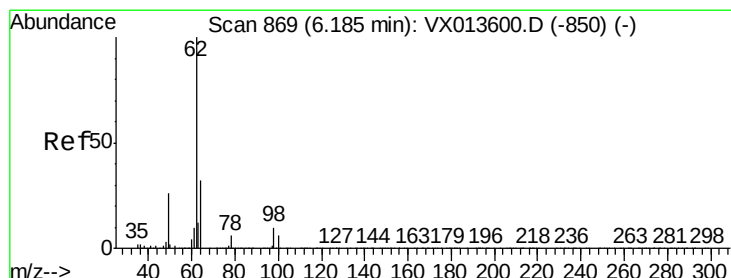
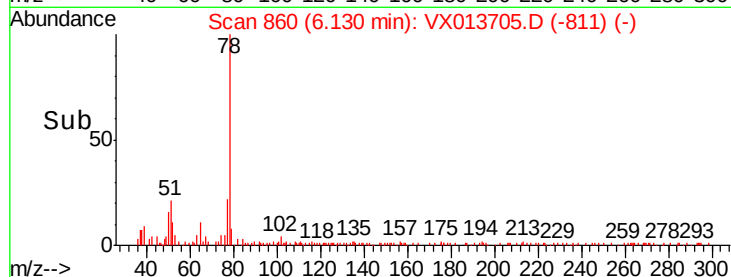
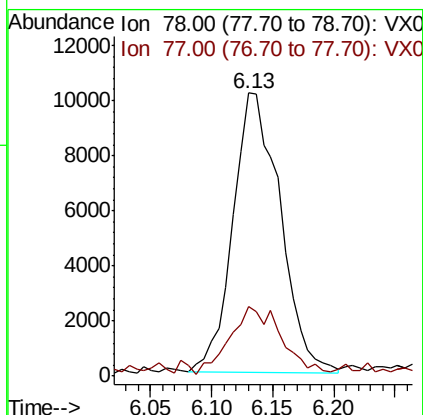
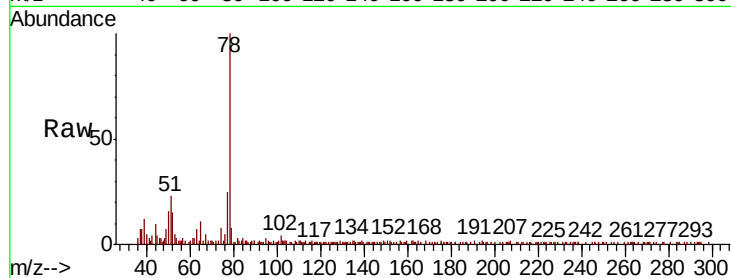
S39-0193

Tot Ion: 78 Resp: 27244

Ion Ratio Lower Upper

78 100

77 22.3 19.0 28.4



#42

1,2-Dichloroethane

Concen: 0.215 ug/l

RT: 6.20 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX013705.D

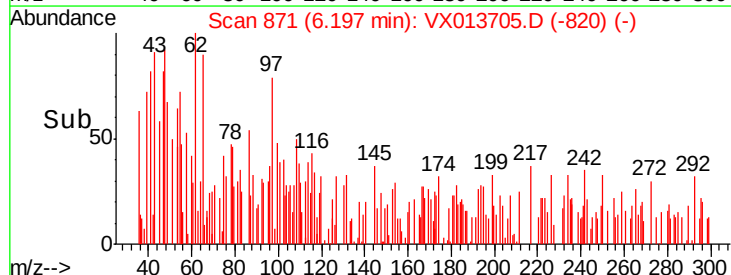
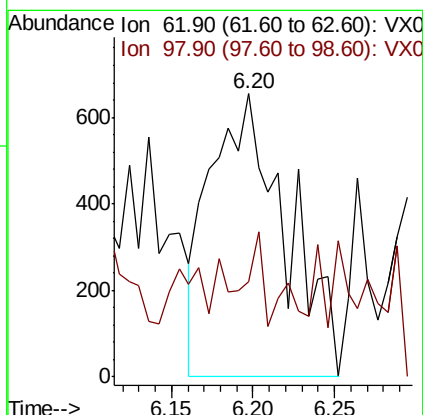
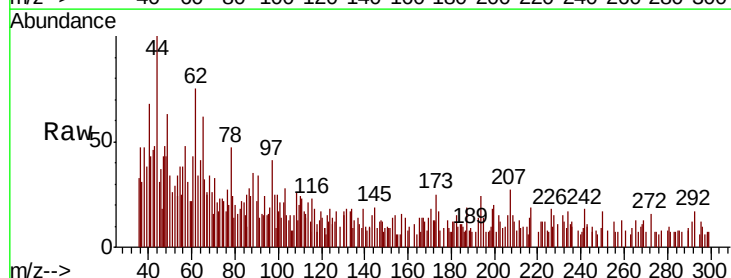
Acq: 29 Nov 2019 16:46

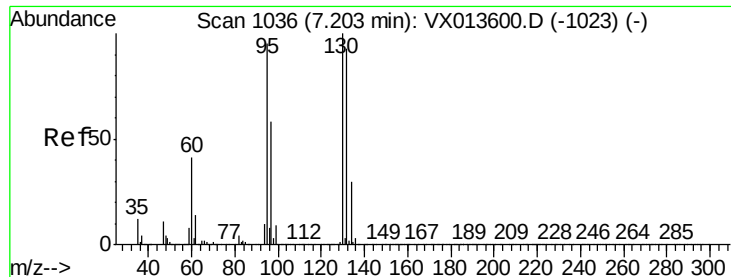
Tgt Ion: 62 Resp: 2108

Ion Ratio Lower Upper

62 100

98 7.9 0.0 20.8





#44

Trichloroethene

Concen: 13.249 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampled :

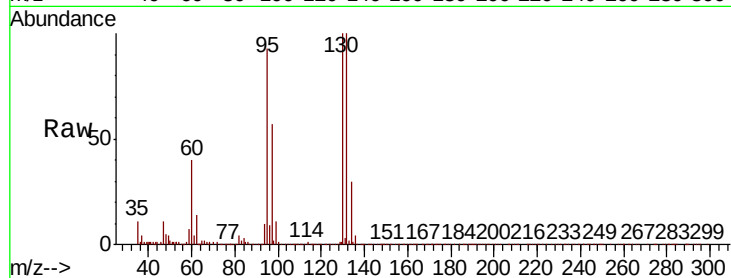
S39-0193

Tot Ion:130 Resp: 104494

Ion Ratio Lower Upper

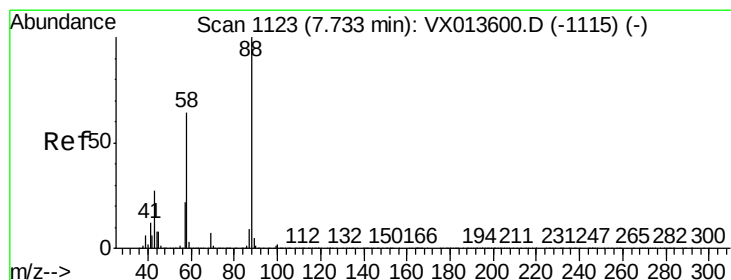
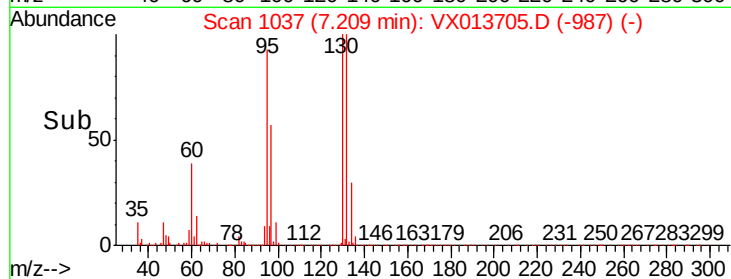
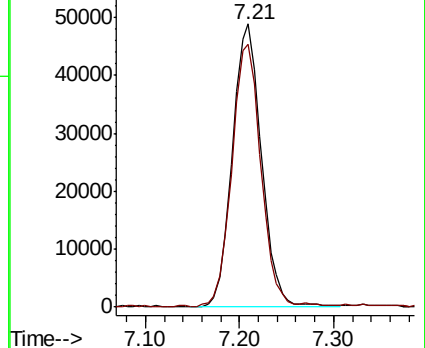
130 100

95 92.7 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: 8.099 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

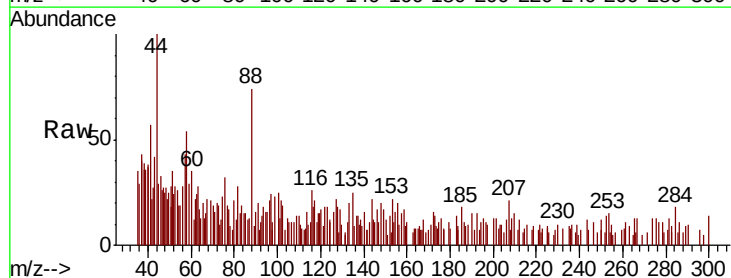
Tgt Ion: 88 Resp: 1535

Ion Ratio Lower Upper

88 100

43 84.5 25.8 38.6#

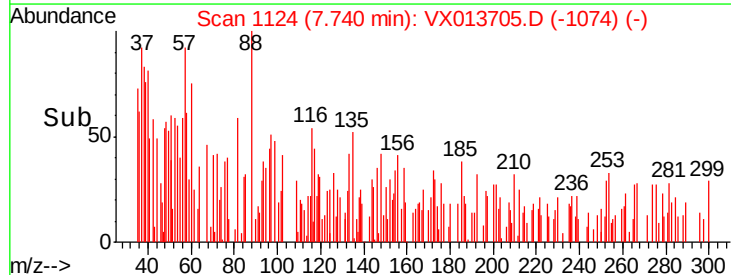
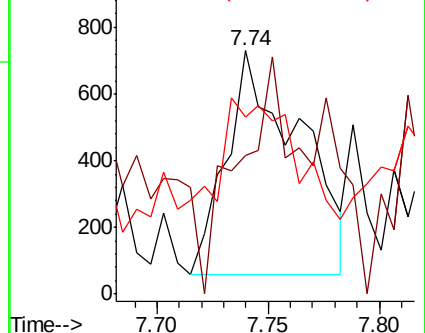
58 63.8 54.6 82.0

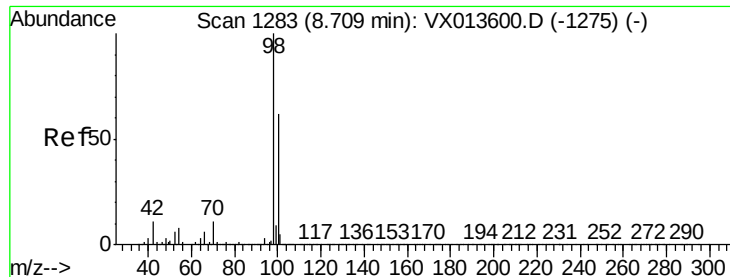


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.261 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

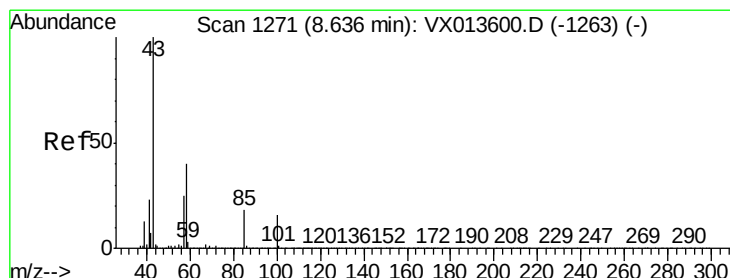
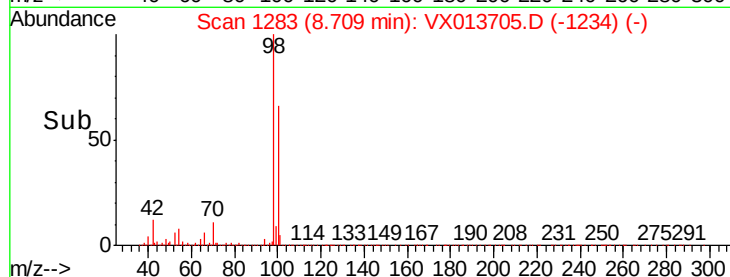
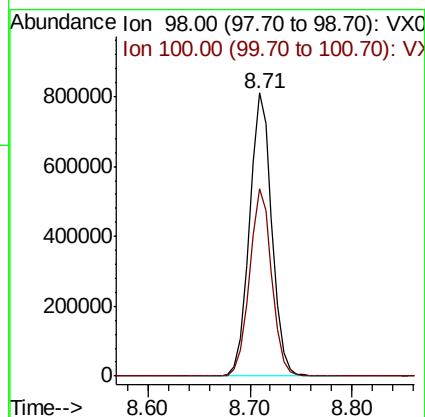
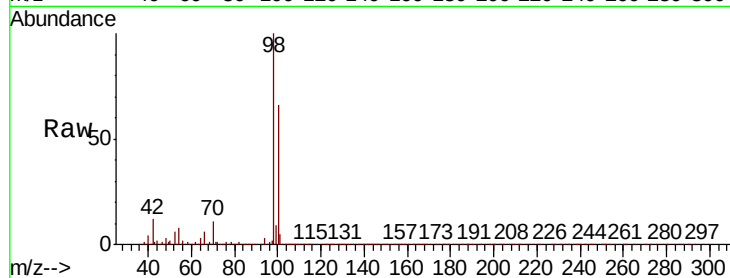
S39-0193

Tot Ion: 98 Resp: 1233363

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.501 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013705.D

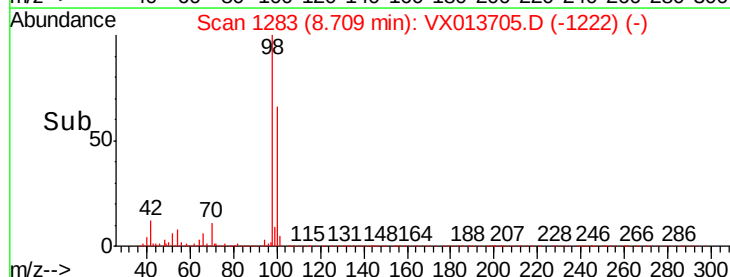
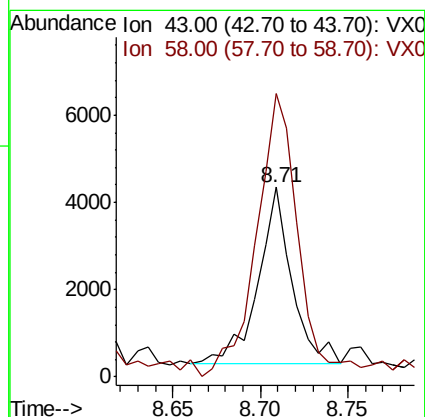
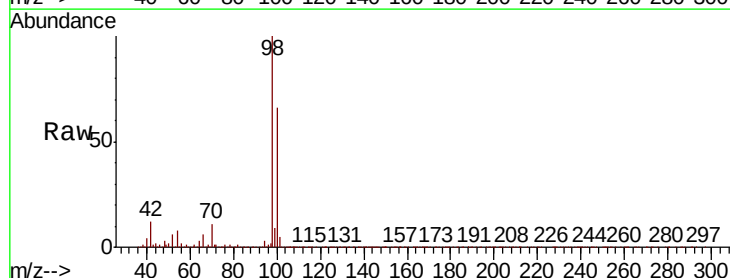
Acq: 29 Nov 2019 16:46

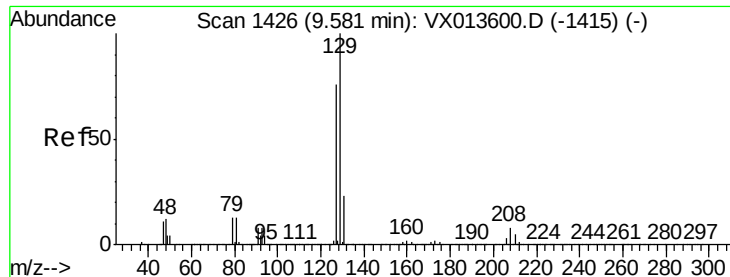
Tgt Ion: 43 Resp: 5488

Ion Ratio Lower Upper

43 100

58 198.4 32.1 48.1#





#60

Dibromochloromethane

Concen: 99.246 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

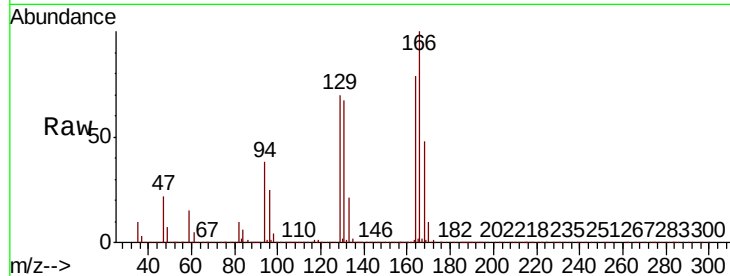
S39-0193

Tot Ion:129 Resp: 741024

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

600000

500000

400000

300000

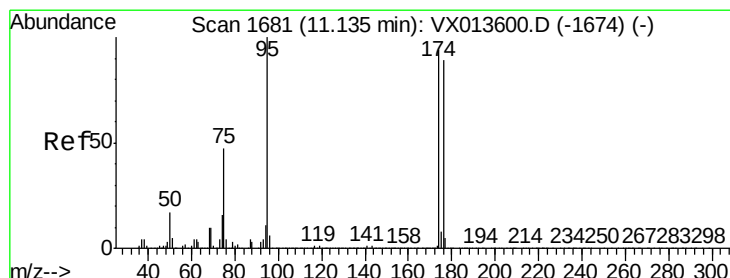
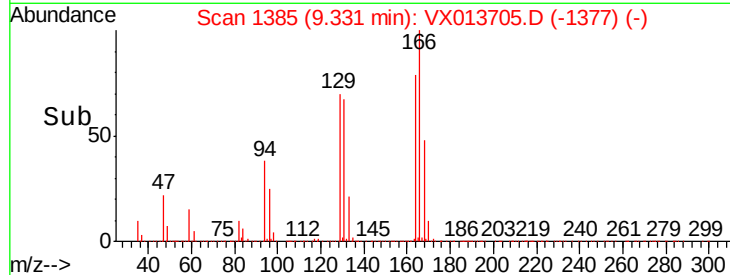
200000

100000

0

9.25 9.30 9.35 9.40 9.45

Time-->



#62

4-Bromofluorobenzene

Concen: 45.714 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

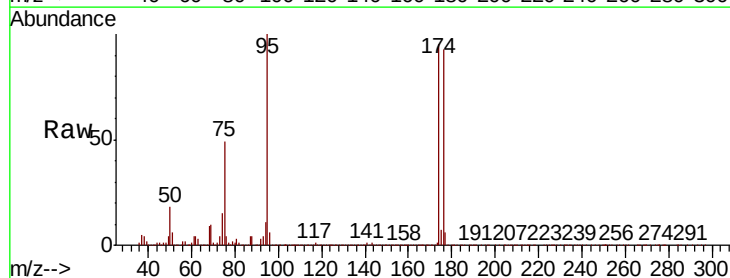
Tgt Ion: 95 Resp: 412729

Ion Ratio Lower Upper

95 100

174 91.1 0.0 180.0

176 86.8 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

300000

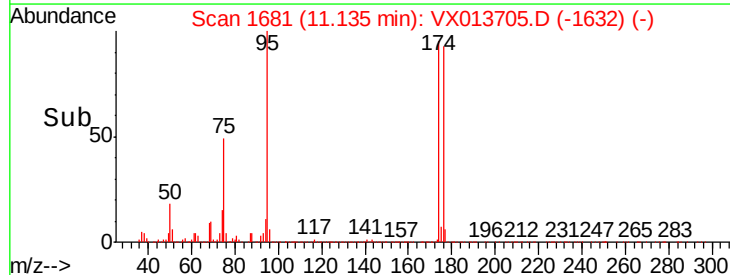
200000

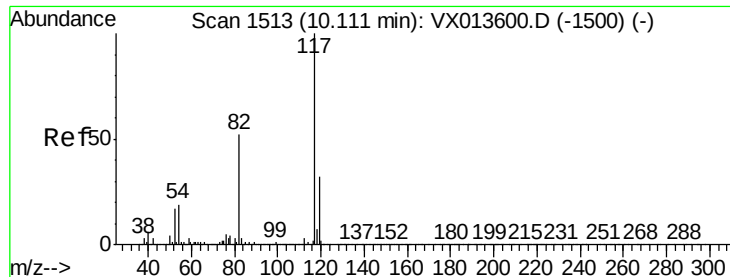
100000

0

11.10 11.14 11.20

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

S39-0193

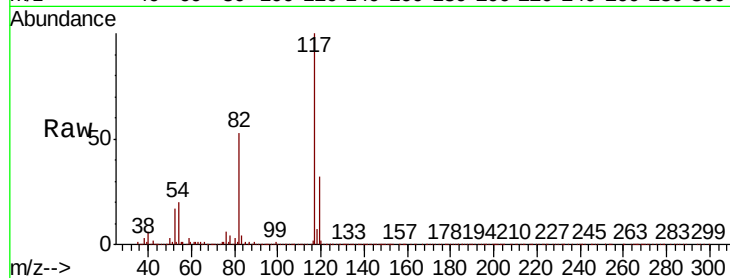
Tot Ion:117 Resp: 924406

Ion Ratio Lower Upper

117 100

82 52.6 41.8 62.8

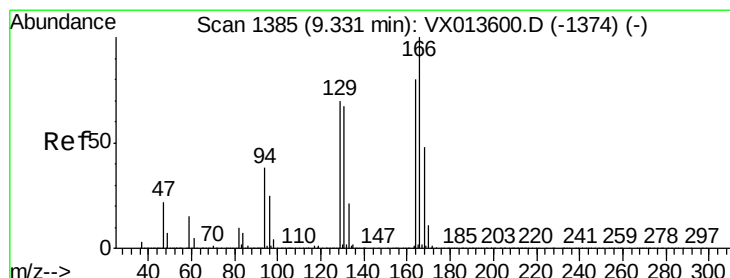
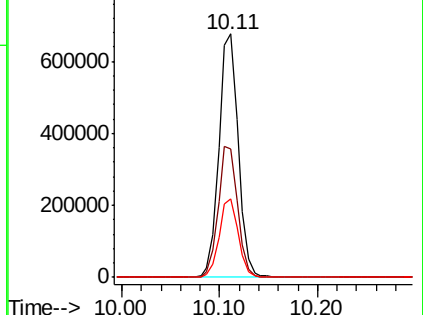
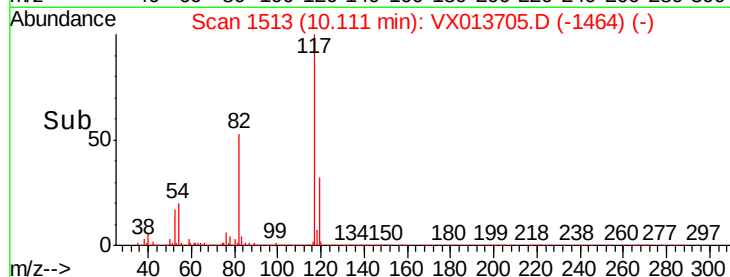
119 32.1 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 121.297 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Tgt Ion:164 Resp: 836182

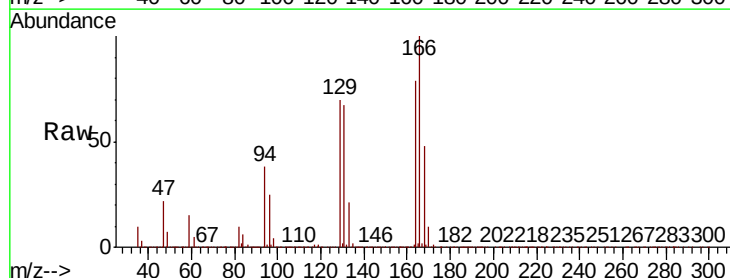
Ion Ratio Lower Upper

164 100

166 127.0 99.7 149.5

129 88.4 70.1 105.1

131 85.0 66.9 100.3

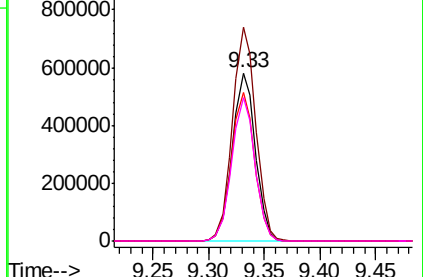
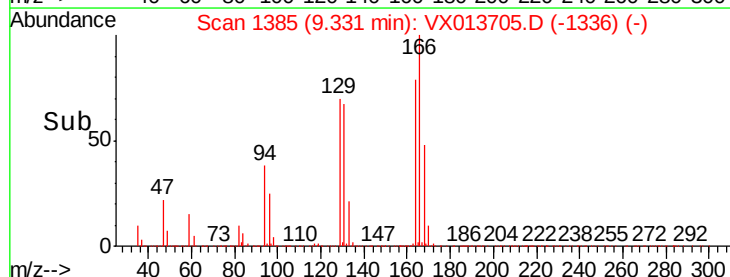


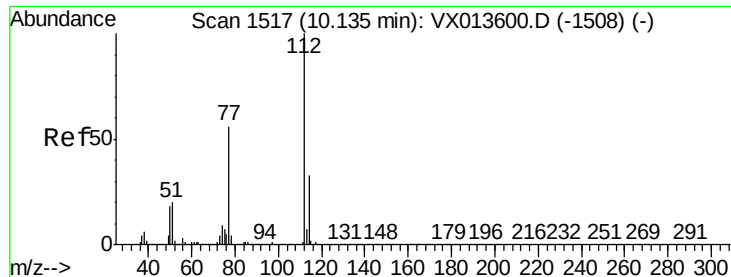
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.451 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

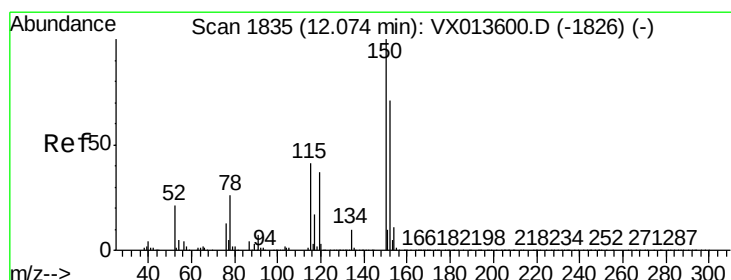
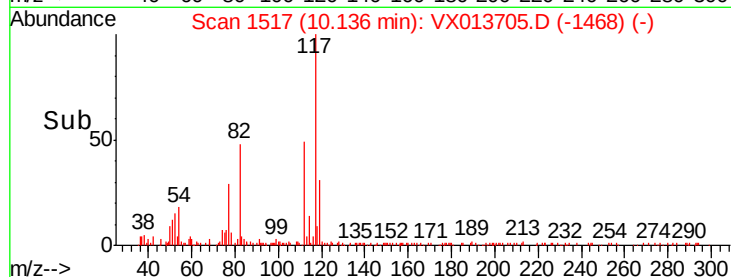
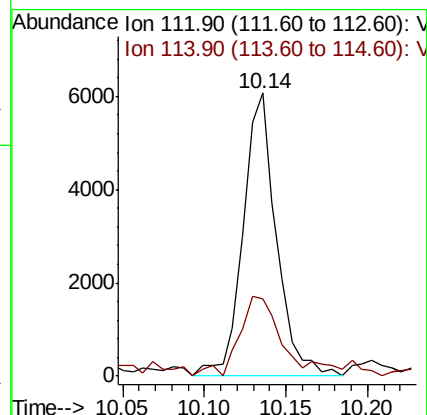
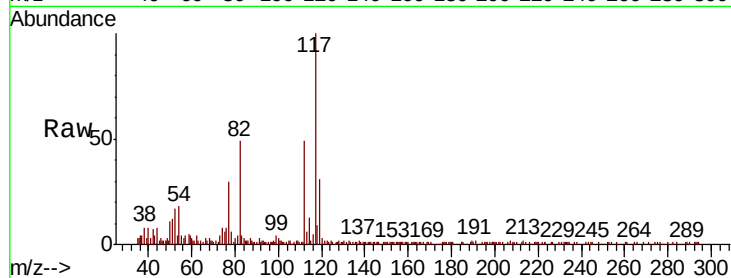
S39-0193

Tot Ion:112 Resp: 8650

Ion Ratio Lower Upper

112 100

114 27.2 26.1 39.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

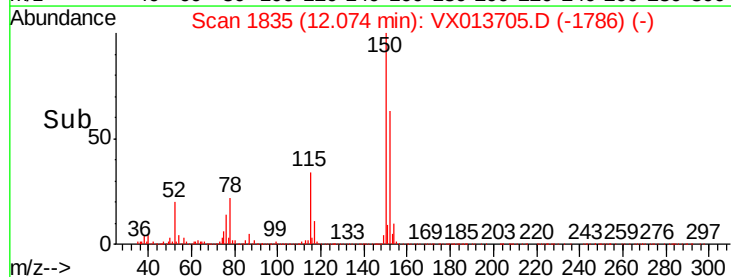
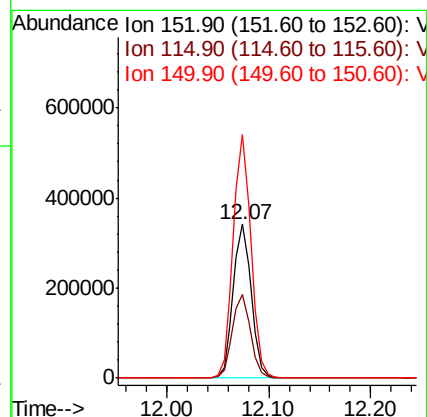
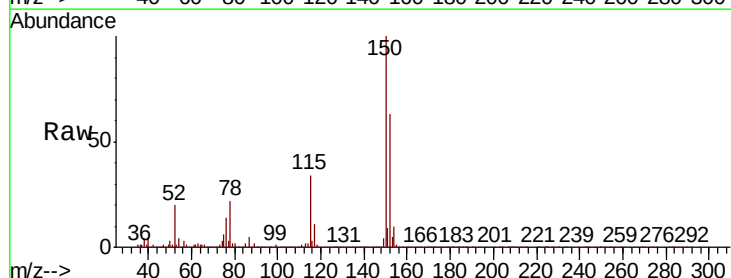
Tgt Ion:152 Resp: 415705

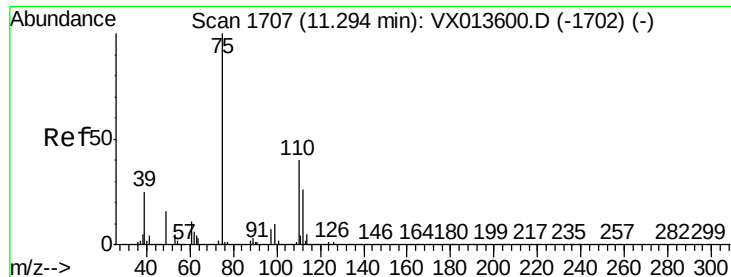
Ion Ratio Lower Upper

152 100

115 54.6 38.4 115.1

150 156.8 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 21.855 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

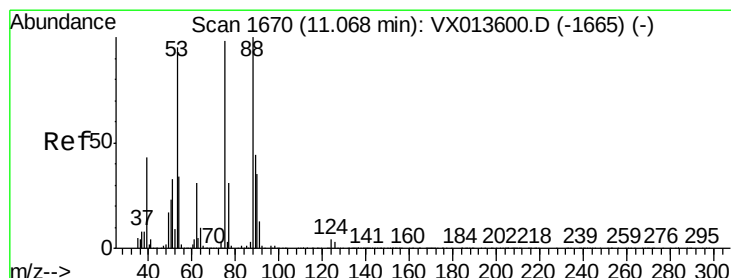
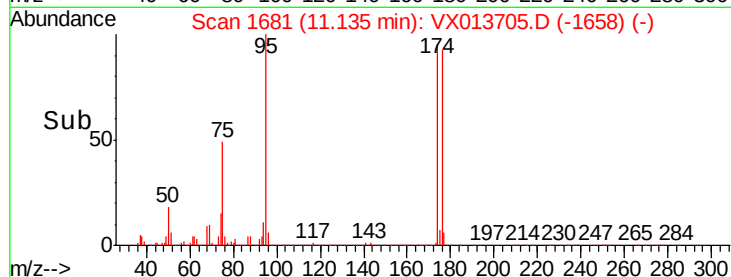
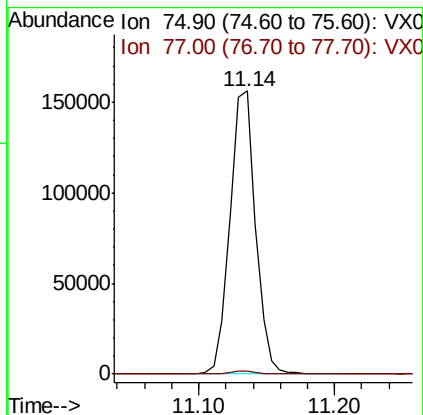
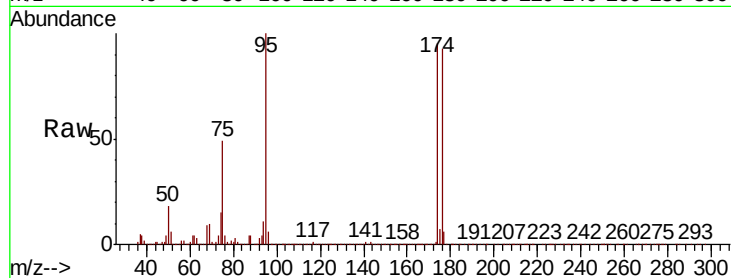
S39-0193

Tot Ion: 75 Resp: 204347

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.793 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

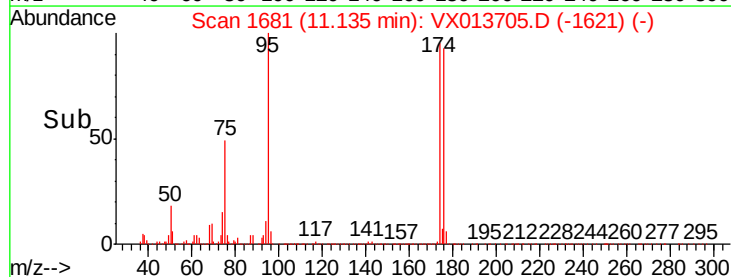
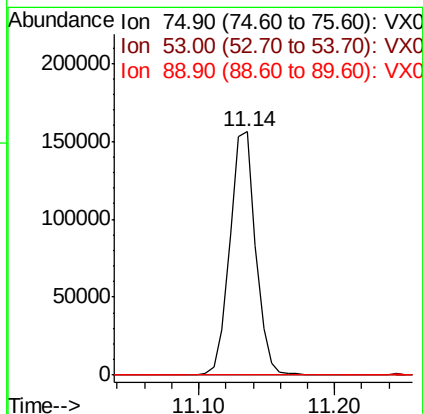
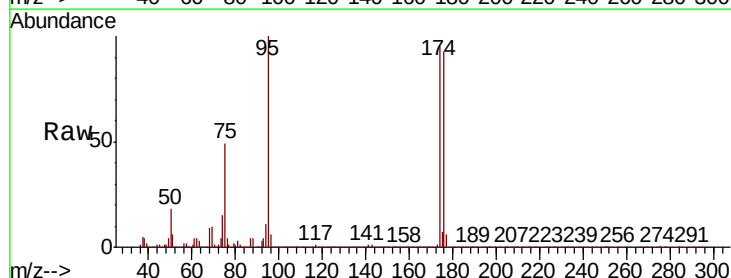
Tgt Ion: 75 Resp: 204347

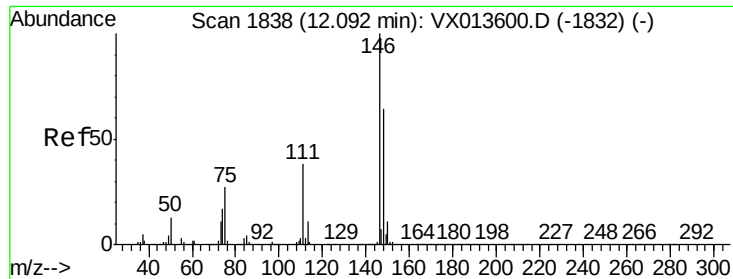
Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#





#88

1,4-Dichlorobenzene

Concen: 0.359 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

S39-0193

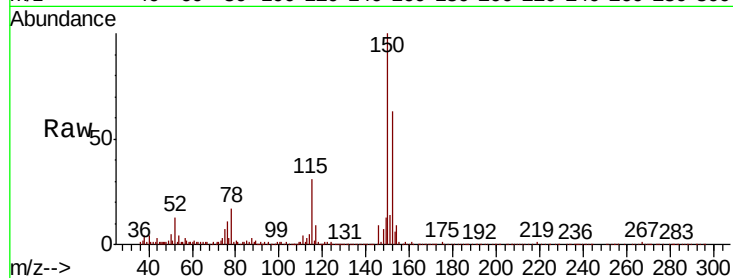
Tot Ion:146 Resp: 5015

Ion Ratio Lower Upper

146 100

111 138.5 18.9 56.9#

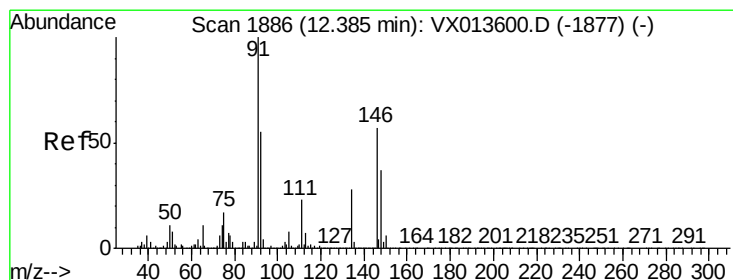
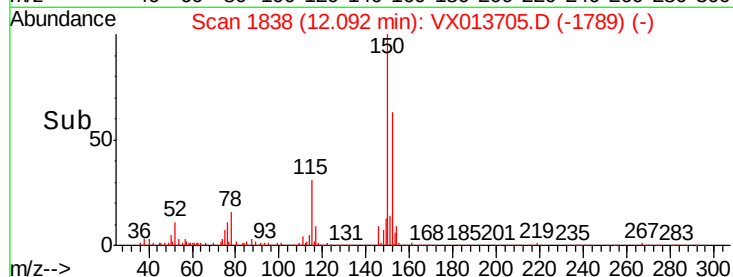
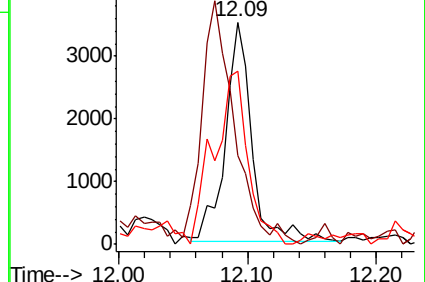
148 102.2 31.9 95.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.221 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013705.D

Acq: 29 Nov 2019 16:46

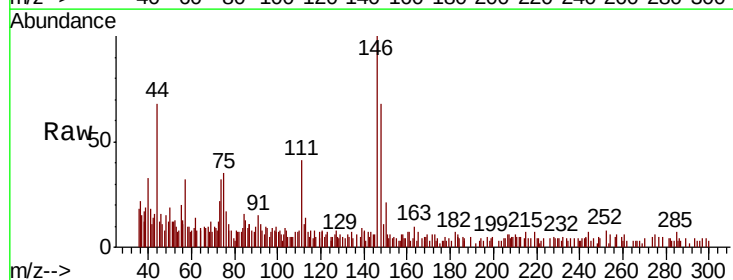
Tgt Ion:146 Resp: 2998

Ion Ratio Lower Upper

146 100

111 51.1 19.6 58.7

148 83.3 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

