

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013682.D
 Acq On : 28 Nov 2019 03:54
 Operator : JC/SP
 Sample : K6079-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0199

Quant Time: Nov 29 00:39:36 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	703069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1097599	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	967673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	434324	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	394636	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
35) Dibromofluoromethane	5.49	113	328010	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	8.71	98	1297353	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
62) 4-Bromofluorobenzene	11.14	95	434343	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	

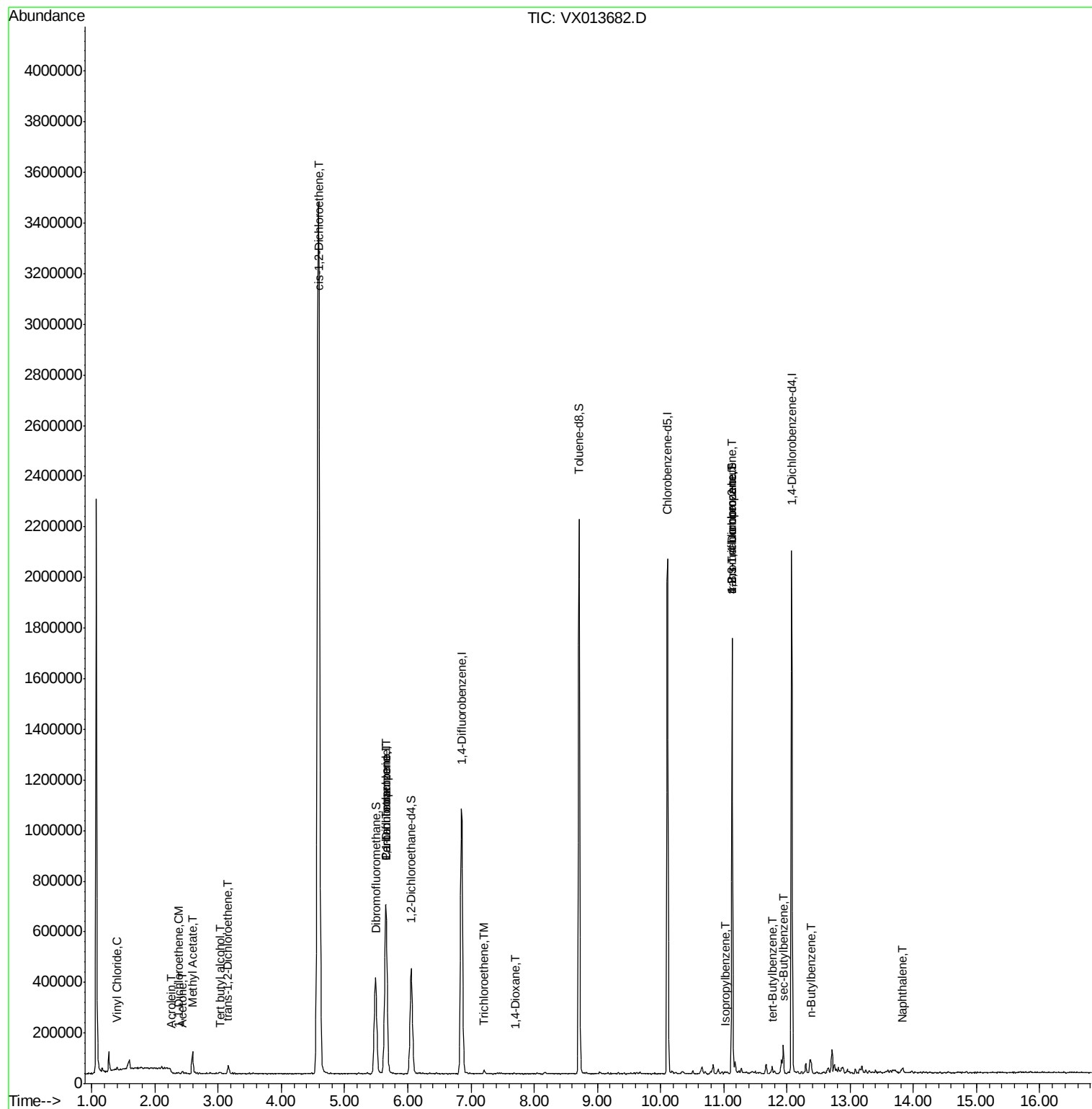
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	6150	0.622	ug/l #	82
11) Tert butyl alcohol	3.02	59	7730	3.837	ug/l #	89
12) 1,1-Dichloroethene	2.37	96	1878	0.281	ug/l #	42
13) Acrolein	2.27	56	239	6.177	ug/l #	1
16) Acetone	2.43	43	7381	1.832	ug/l	100
18) Methyl Acetate	2.59	43	24740	2.205	ug/l #	52
21) trans-1,2-Dichloroethene	3.16	96	13616	1.868	ug/l	89
27) cis-1,2-Dichloroethene	4.59	96	2205105	263.432	ug/l	89
36) 1,1-Dichloropropene	5.65	75	45721	4.589	ug/l #	50
38) Carbon Tetrachloride	5.65	117	61088	6.649	ug/l #	14
44) Trichloroethene	7.20	130	5288	0.635	ug/l	59
49) 1,4-Dioxane	7.71	88	611	3.053	ug/l #	14
73) Isopropylbenzene	11.01	105	6212	0.204	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	210723	21.571	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	210723	59.015	ug/l #	11
83) tert-Butylbenzene	11.77	119	9886	0.390	ug/l #	80
85) sec-Butylbenzene	11.94	105	61721	2.129	ug/l #	77
89) n-Butylbenzene	12.38	91	7102	0.309	ug/l #	35
95) Naphthalene	13.83	128	15650	0.532	ug/l #	95

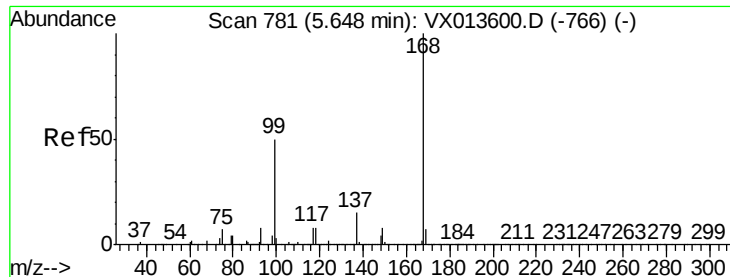
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampled :

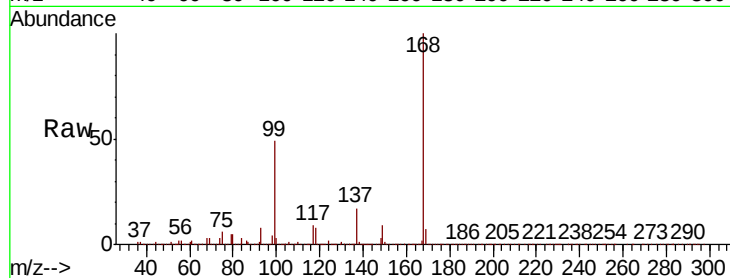
S39-0199

Tot Ion:168 Resp: 703069

Ion Ratio Lower Upper

168 100

99 49.0 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

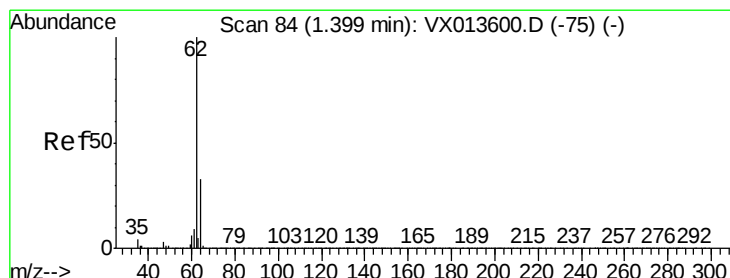
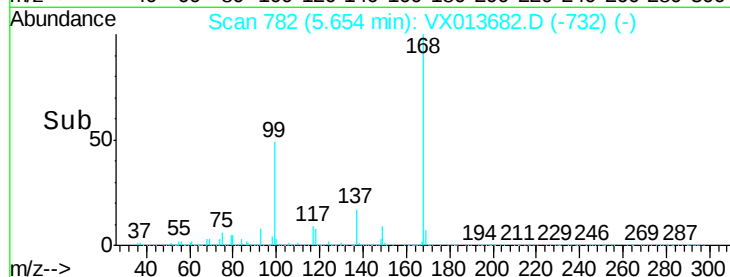
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.622 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013682.D

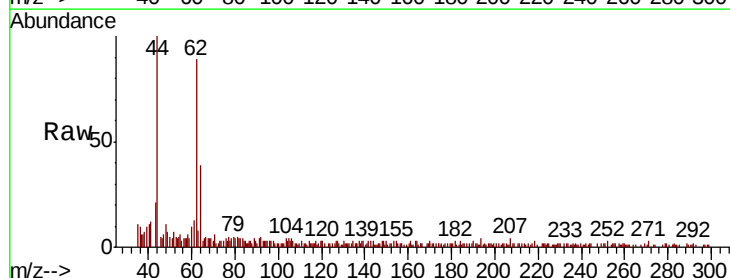
Acq: 28 Nov 2019 03:54

Tgt Ion: 62 Resp: 6150

Ion Ratio Lower Upper

62 100

64 22.6 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

6000

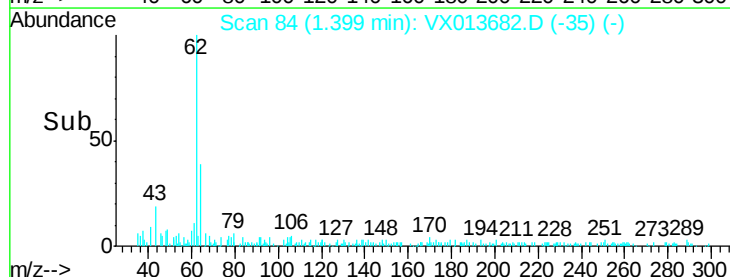
4000

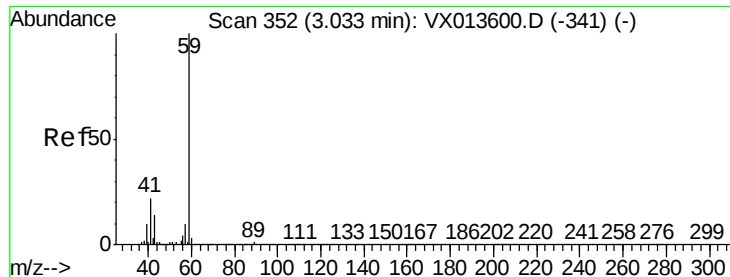
2000

0

Time-->

1.35 1.40 1.45

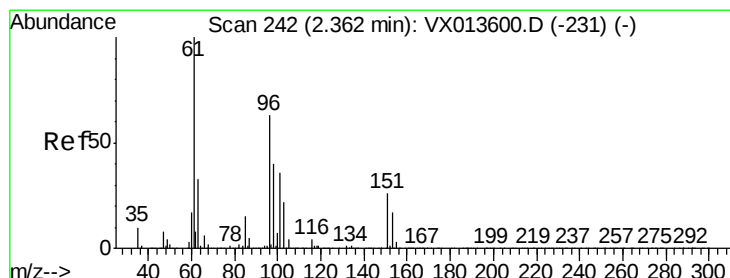
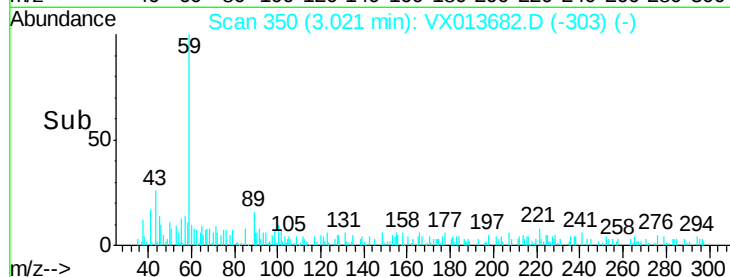
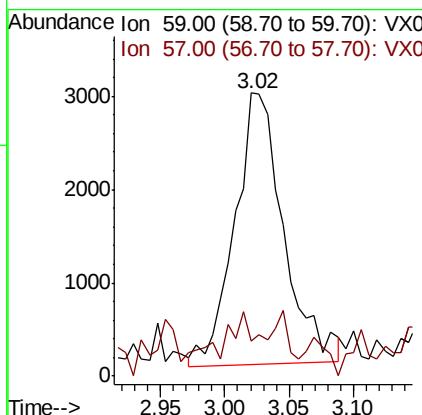
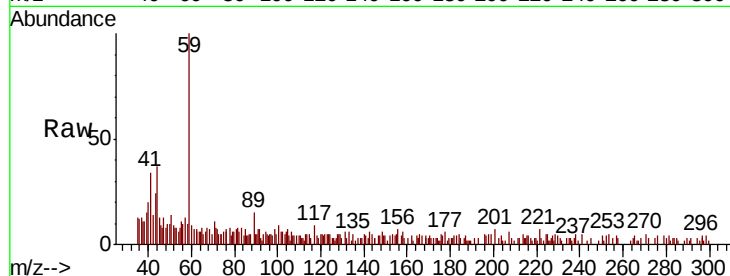




#11
Tert butyl alcohol
Concen: 3.837 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

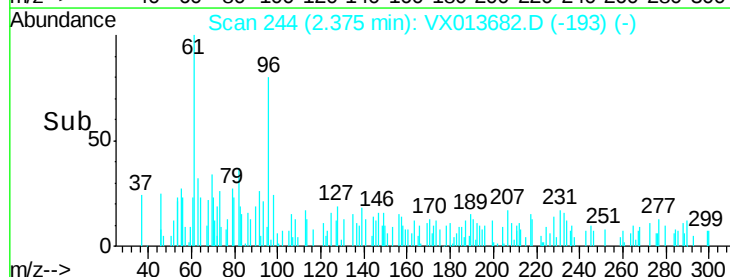
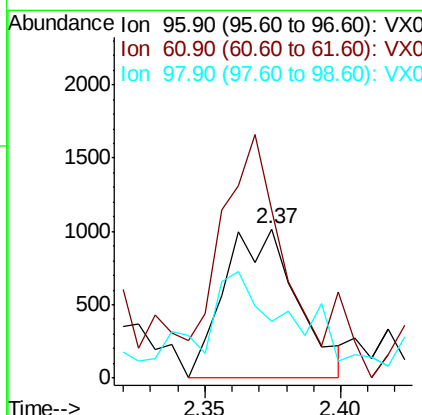
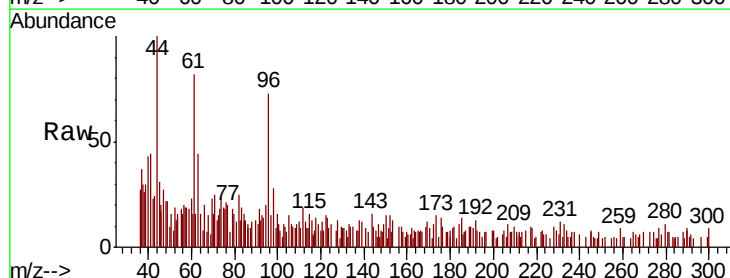
Instrument :
MSVOA_X
ClientSampleId :
S39-0199

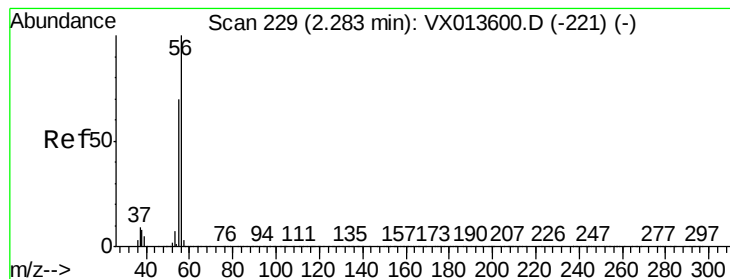
Tot Ion: 59 Resp: 7730
Ion Ratio Lower Upper
59 100
57 13.8 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.281 ug/l
RT: 2.37 min Scan# 244
Delta R.T. 0.01 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

Tgt Ion: 96 Resp: 1878
Ion Ratio Lower Upper
96 100
61 87.4 126.6 190.0#
98 9.4 50.6 76.0#





#13

Acrolein

Concen: 6.177 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

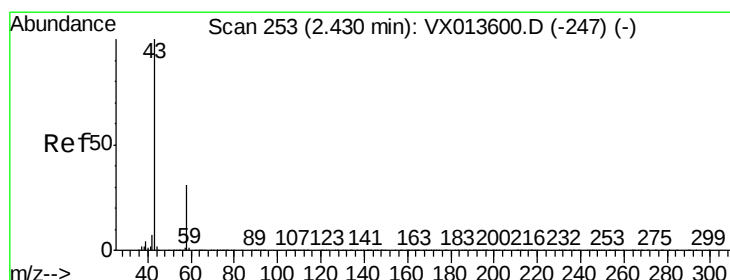
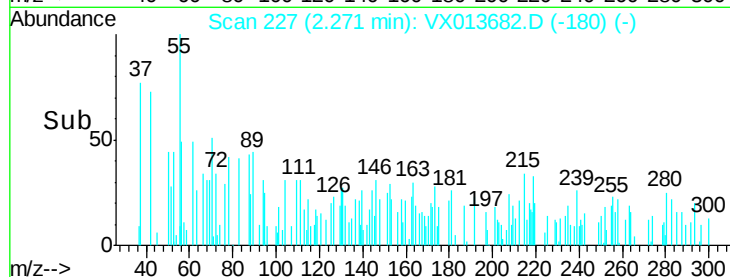
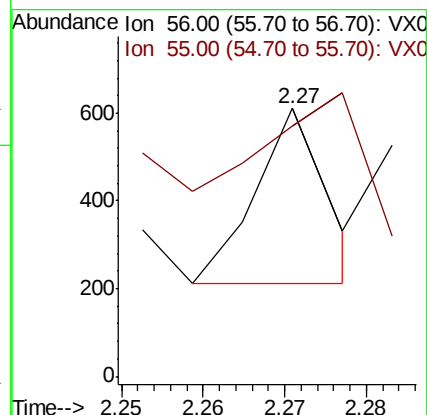
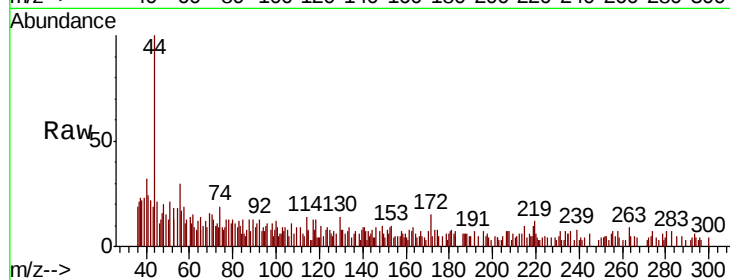
S39-0199

Tot Ion: 56 Resp: 239

Ion Ratio Lower Upper

56 100

55 164.9 56.2 84.4#



#16

Acetone

Concen: 1.832 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013682.D

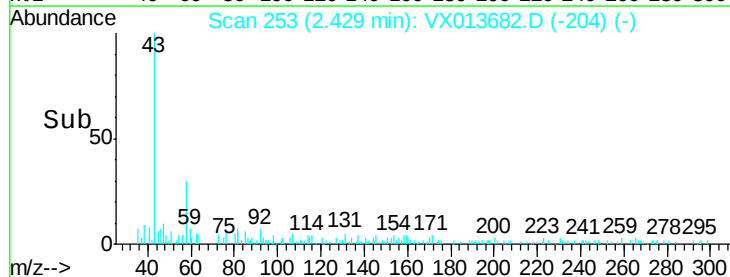
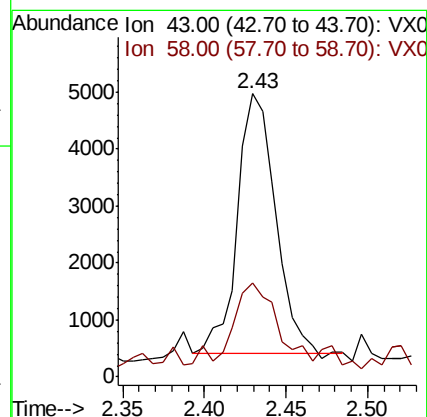
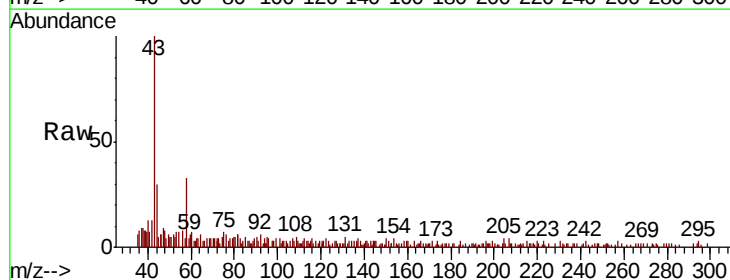
Acq: 28 Nov 2019 03:54

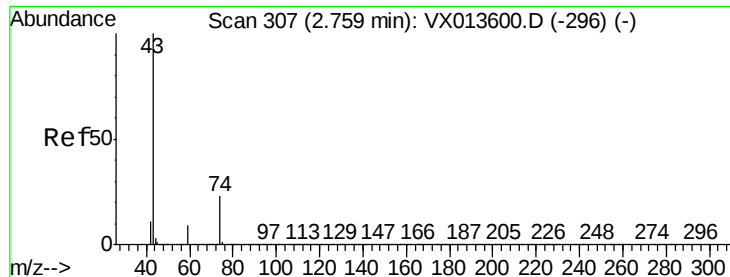
Tgt Ion: 43 Resp: 7381

Ion Ratio Lower Upper

43 100

58 30.9 24.6 36.8

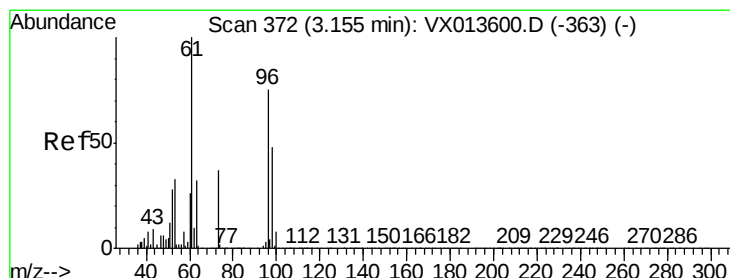
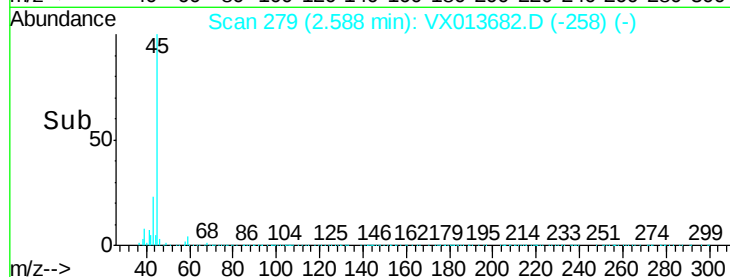
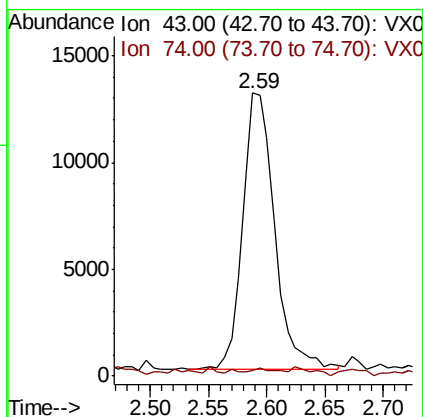
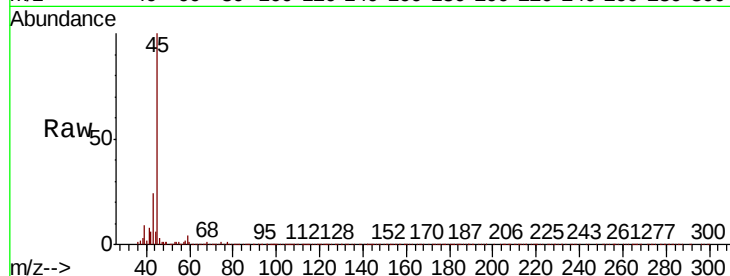




#18
Methvl Acetate
Concen: 2.205 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.17 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

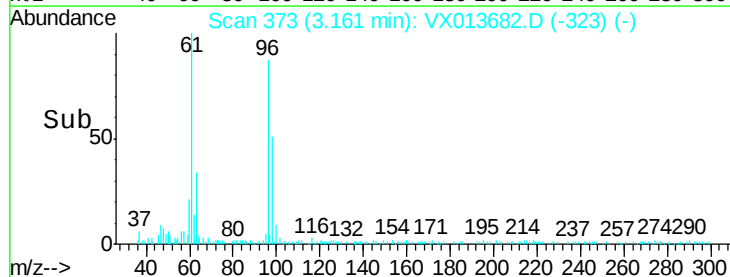
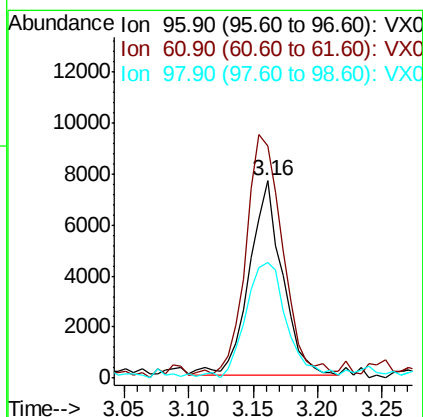
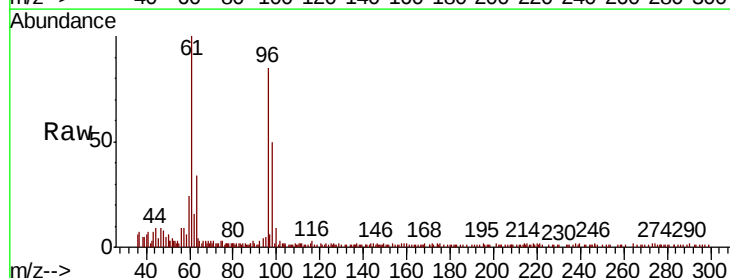
Instrument :
MSVOA_X
ClientSampled :
S39-0199

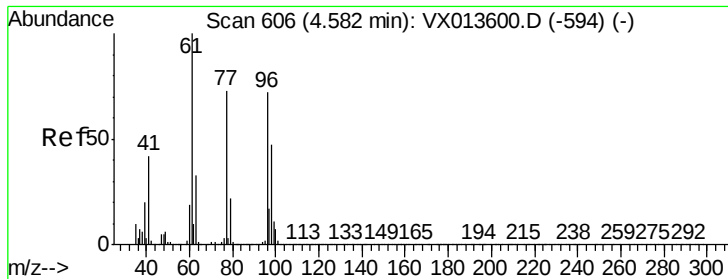
Tot Ion: 43 Resp: 24740
Ion Ratio Lower Upper
43 100
74 0.7 19.5 29.3#



#21
trans-1,2-Dichloroethene
Concen: 1.868 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

Tgt Ion: 96 Resp: 13616
Ion Ratio Lower Upper
96 100
61 118.4 107.2 160.8
98 58.2 51.4 77.0



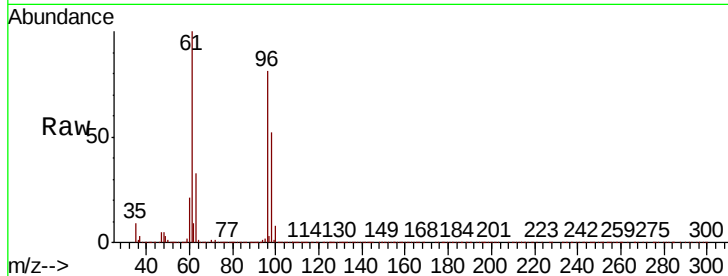


#27

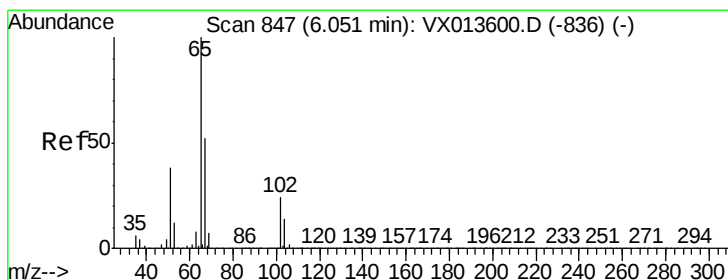
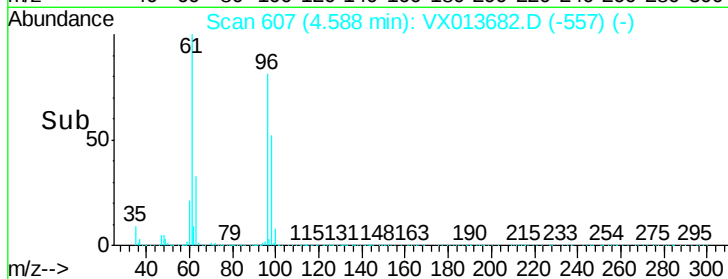
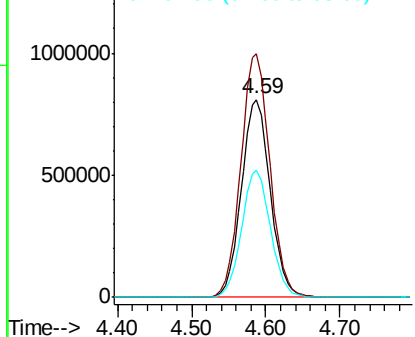
cis-1,2-Dichloroethene
Concen: 263.432 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

Instrument :
MSVOA_X
ClientSampleId :
S39-0199

Tot Ion: 96 Resp: 2205105
Ion Ratio Lower Upper
96 100
61 123.9 0.0 286.4
98 64.2 0.0 127.4



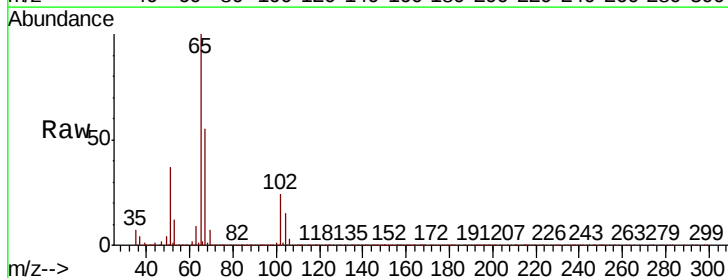
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



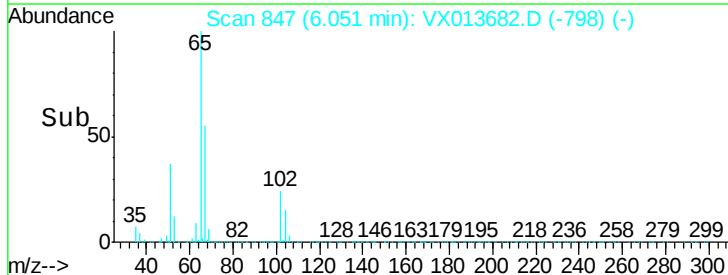
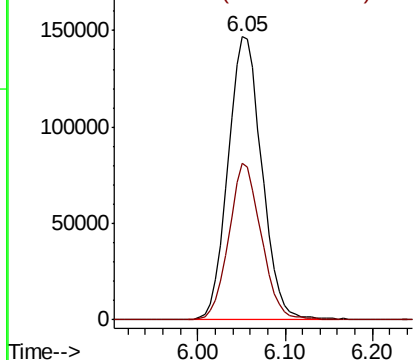
#33

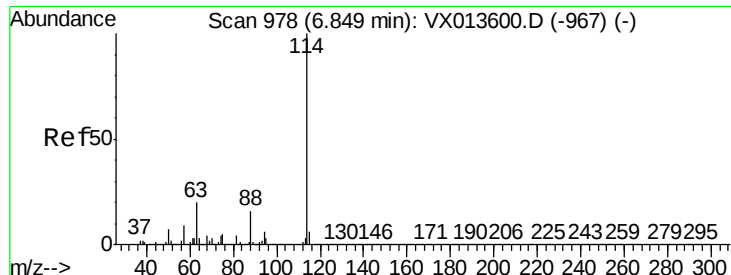
1,2-Dichloroethane-d4
Concen: 48.356 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

Tgt Ion: 65 Resp: 394636
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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

S39-0199

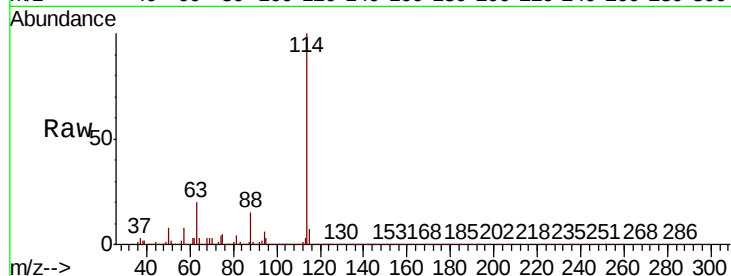
Tot Ion:114 Resp: 1097599

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

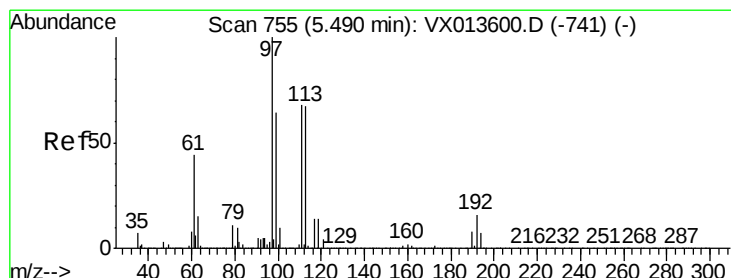
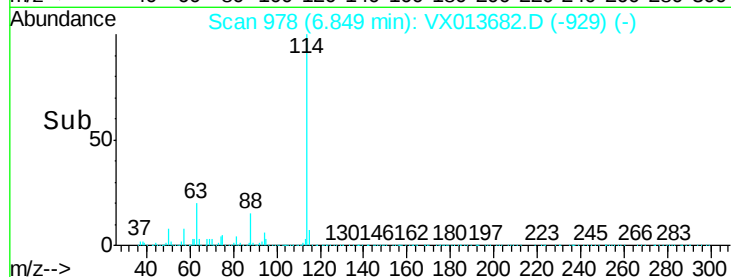
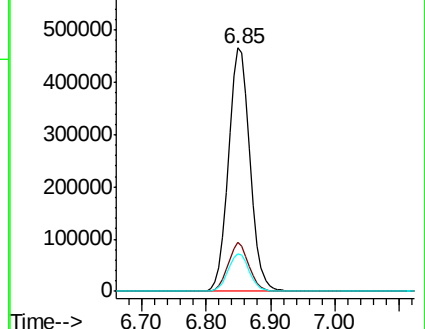
88 15.4 0.0 31.4



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: 48.340 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

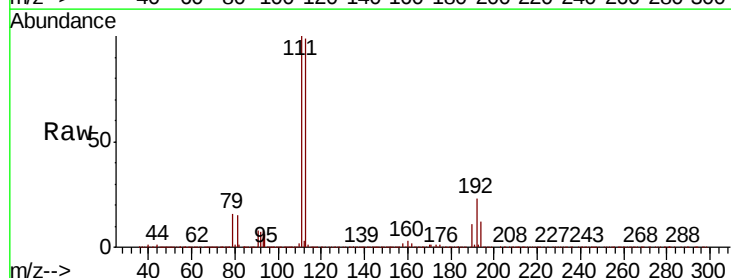
Tgt Ion:113 Resp: 328010

Ion Ratio Lower Upper

113 100

111 101.6 83.6 125.4

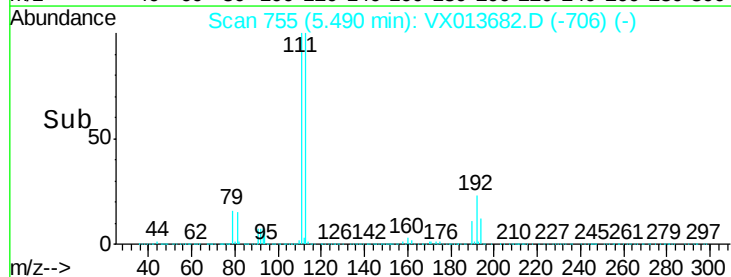
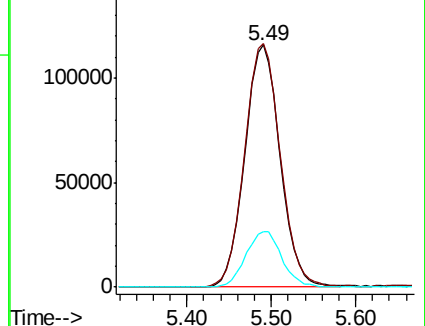
192 23.6 19.2 28.8

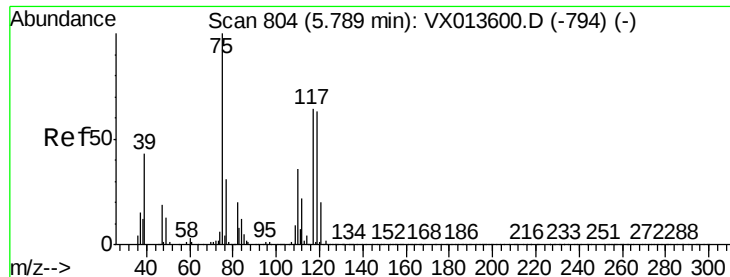


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.589 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

S39-0199

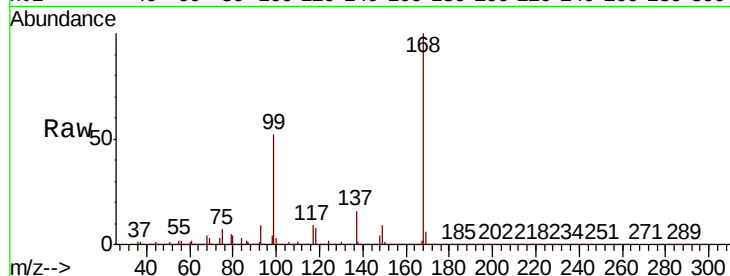
Tot Ion: 75 Resp: 45721

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

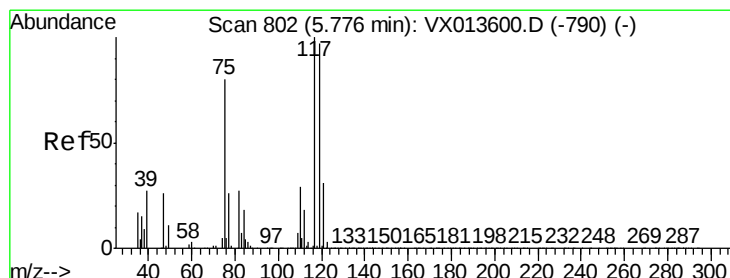
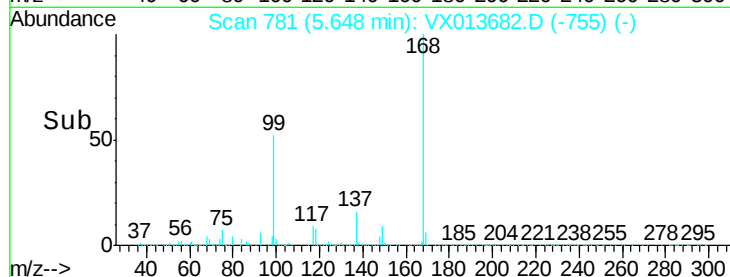
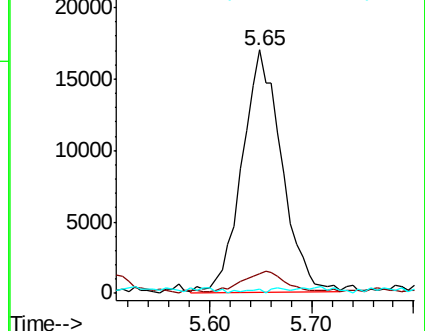
77 0.6 24.5 36.7#



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: 6.649 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

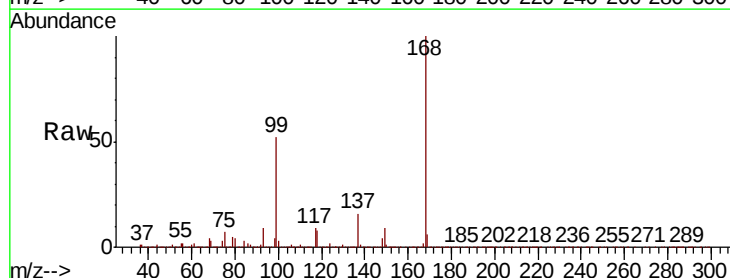
Tgt Ion: 117 Resp: 61088

Ion Ratio Lower Upper

117 100

119 3.1 77.5 116.3#

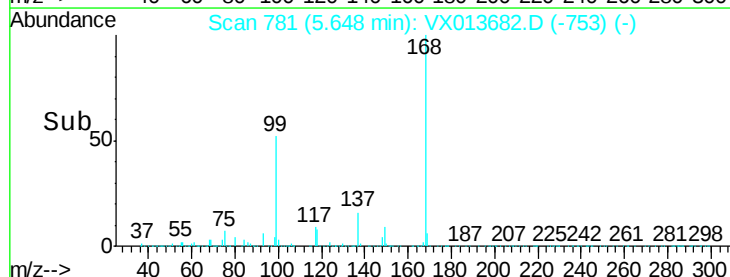
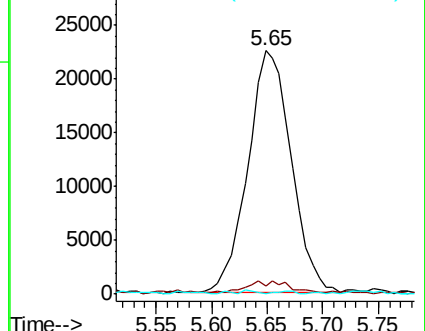
121 0.0 25.0 37.6#

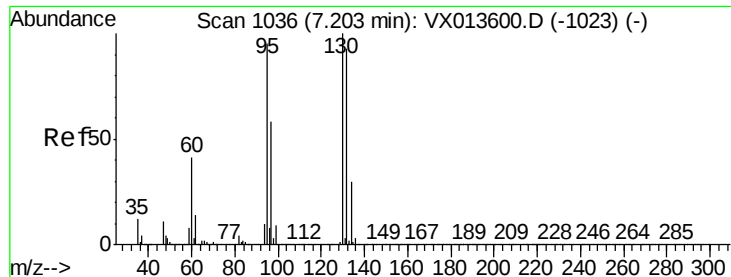


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.635 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampled :

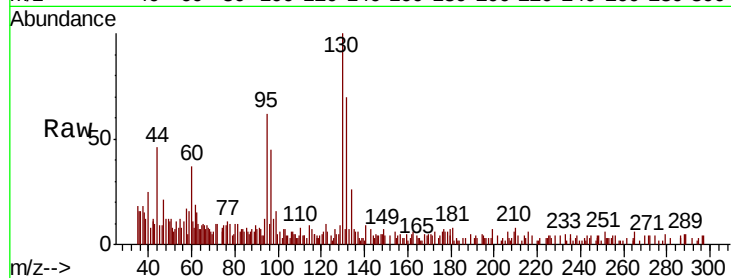
S39-0199

Tot Ion:130 Resp: 5288

Ion Ratio Lower Upper

130 100

95 55.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

3000

2500

2000

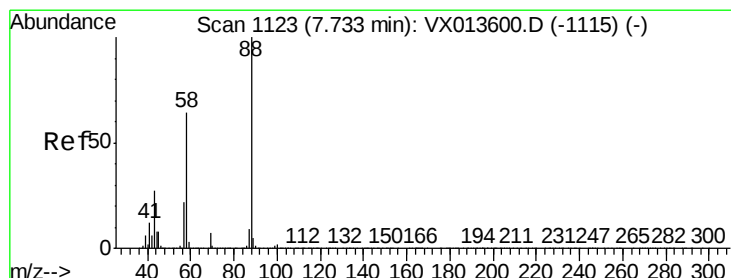
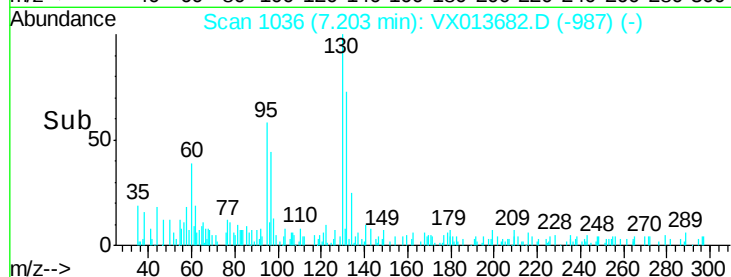
1500

1000

500

0

Time-->



#49

1,4-Dioxane

Concen: 3.053 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

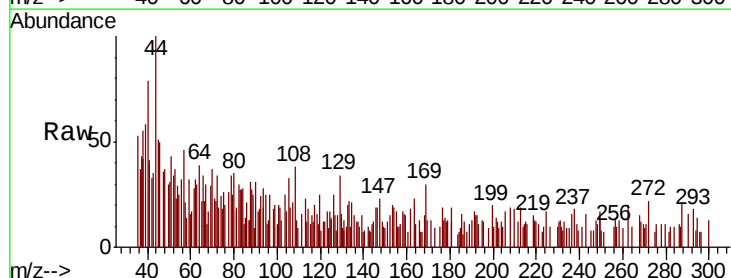
Tgt Ion: 88 Resp: 611

Ion Ratio Lower Upper

88 100

43 157.0 25.8 38.6#

58 85.6 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

1000

800

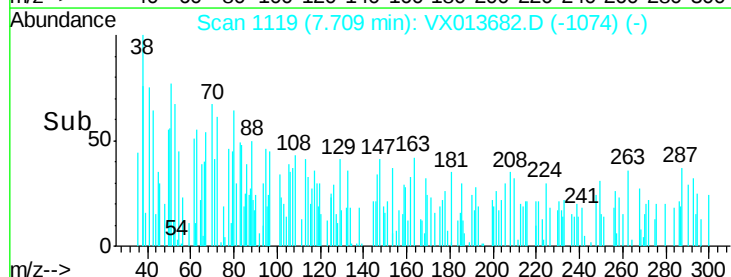
600

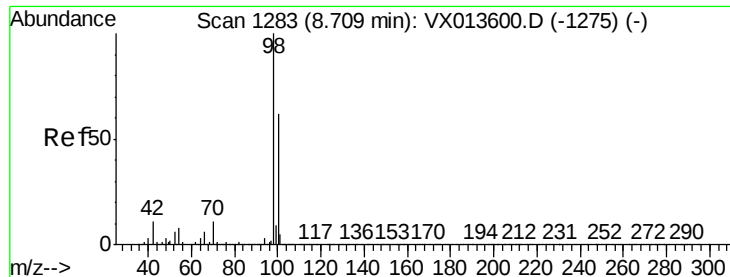
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.073 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

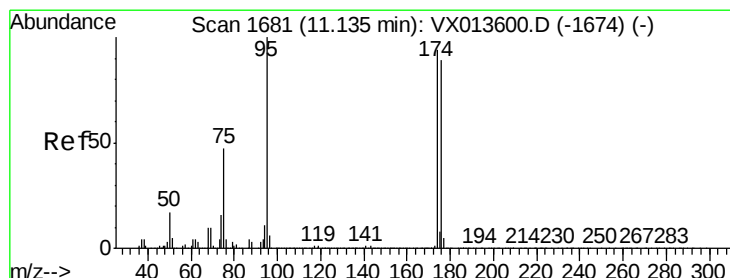
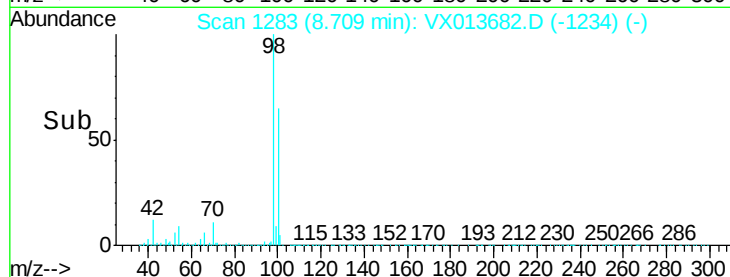
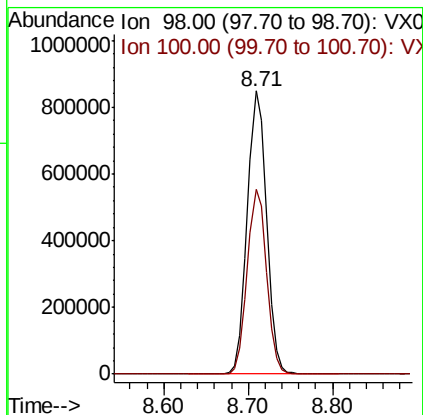
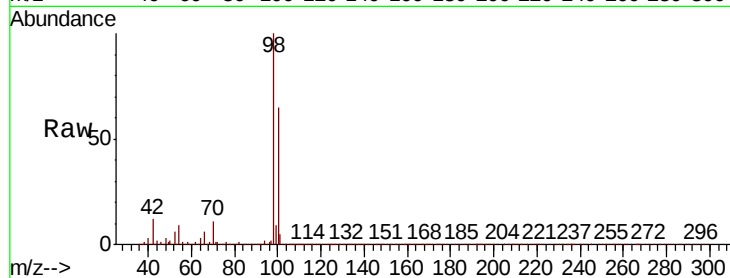
S39-0199

Tot Ion: 98 Resp: 1297353

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 45.561 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

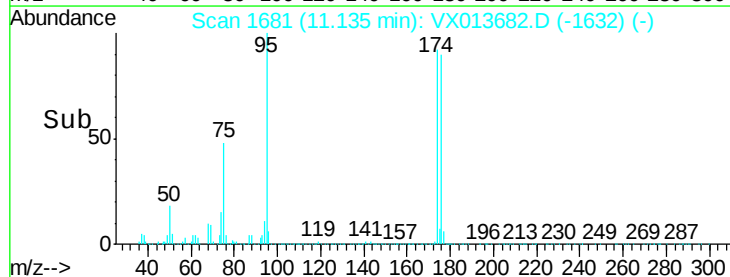
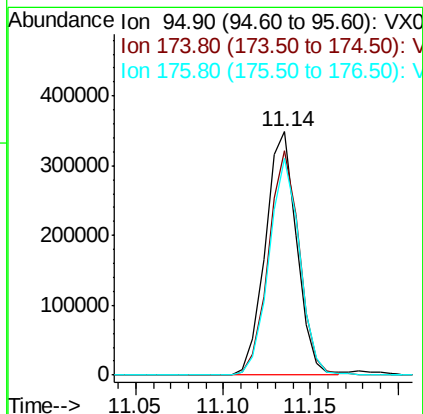
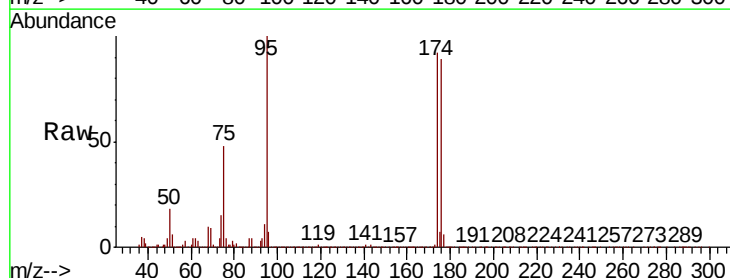
Tgt Ion: 95 Resp: 434343

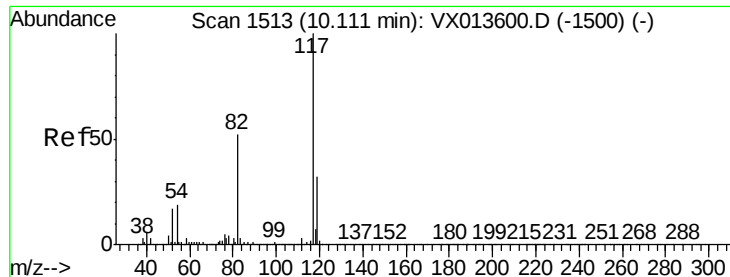
Ion Ratio Lower Upper

95 100

174 90.5 0.0 180.0

176 87.5 0.0 173.6

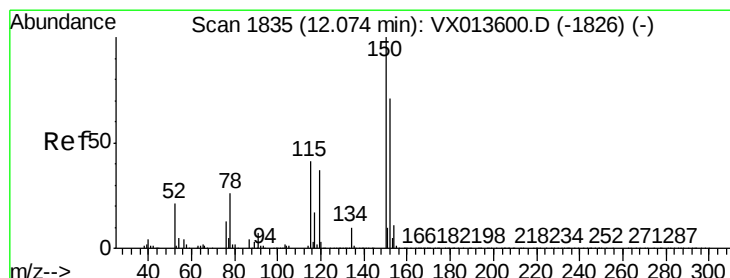
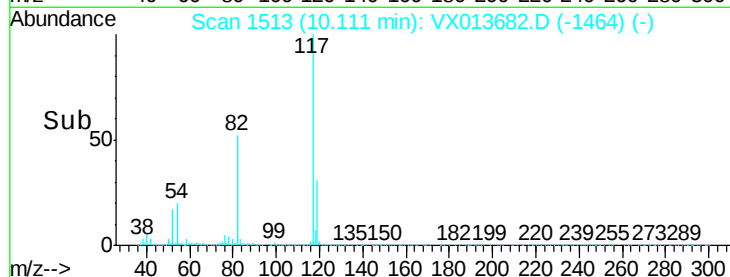
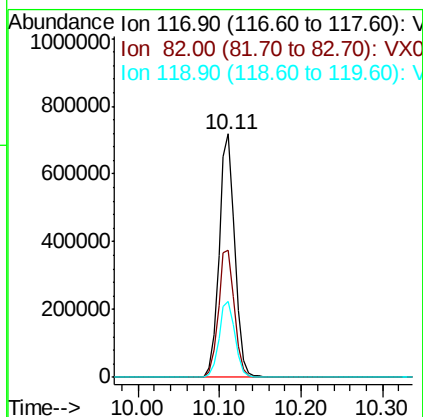
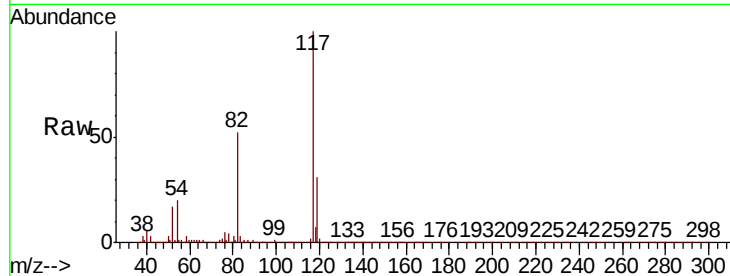




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

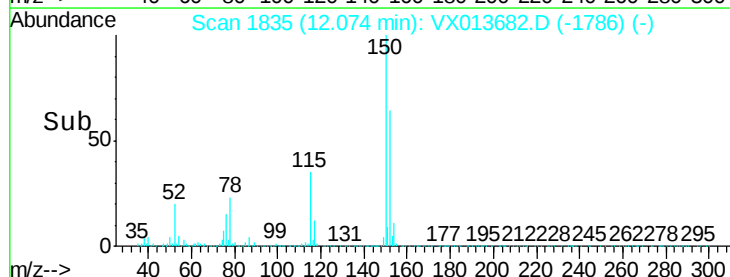
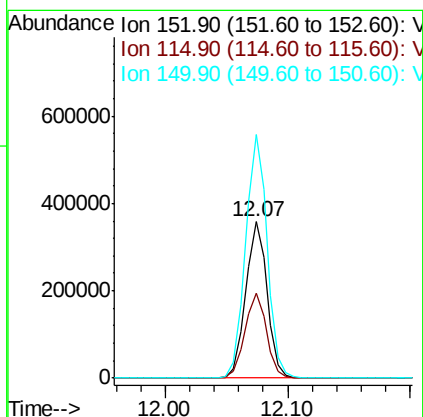
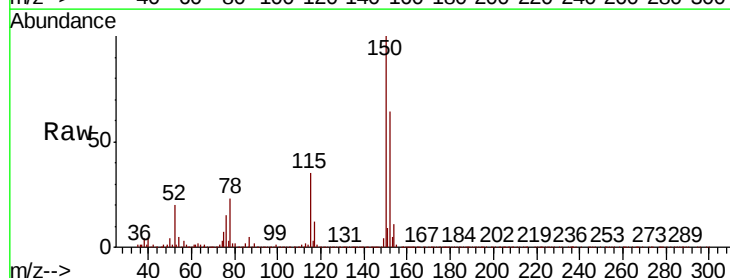
Instrument :
MSVOA_X
ClientSampleId :
S39-0199

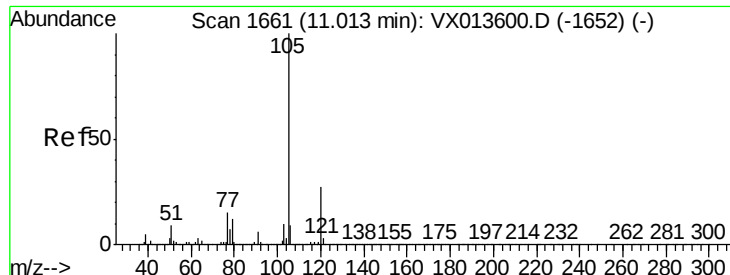
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	41.8	62.8
119	31.4	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013682.D
Acq: 28 Nov 2019 03:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	38.4	115.1
150	156.8	0.0	346.8





#73

Isopropylbenzene

Concen: 0.204 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

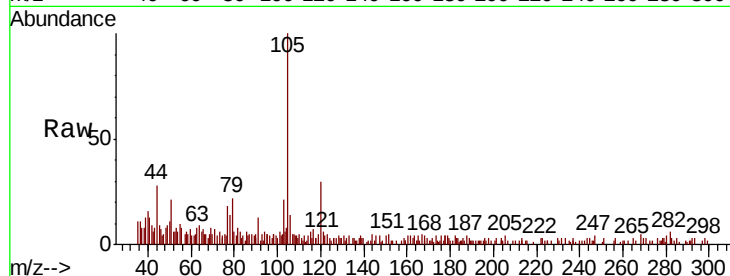
S39-0199

Tot Ion:105 Resp: 6212

Ion Ratio Lower Upper

105 100

120 24.0 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

4000

3000

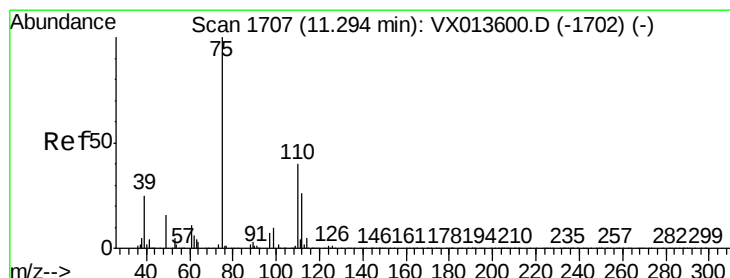
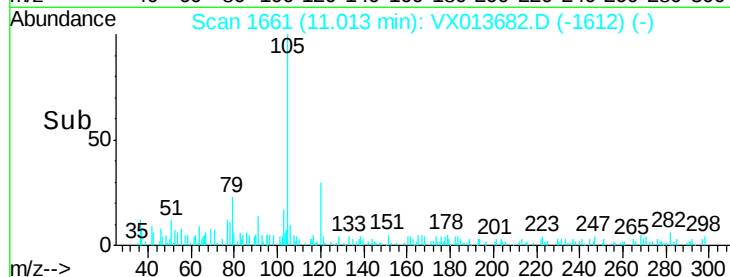
2000

1000

0

10.95 11.00 11.05

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.571 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013682.D

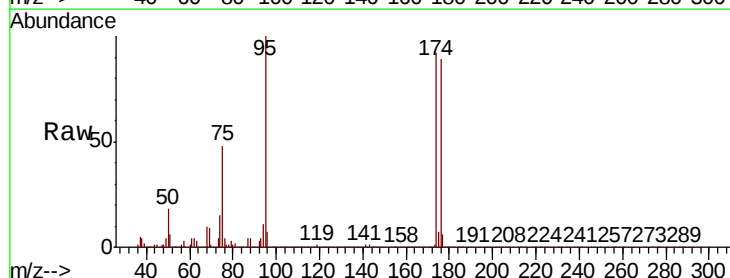
Acq: 28 Nov 2019 03:54

Tgt Ion: 75 Resp: 210723

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

200000

150000

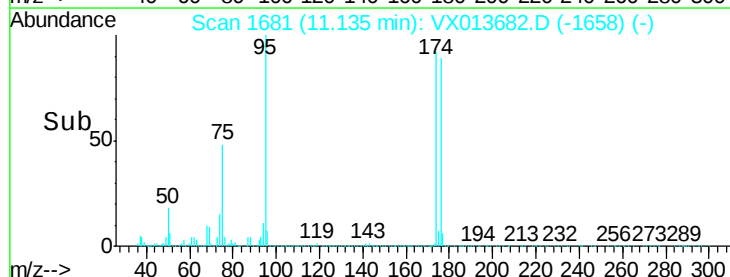
100000

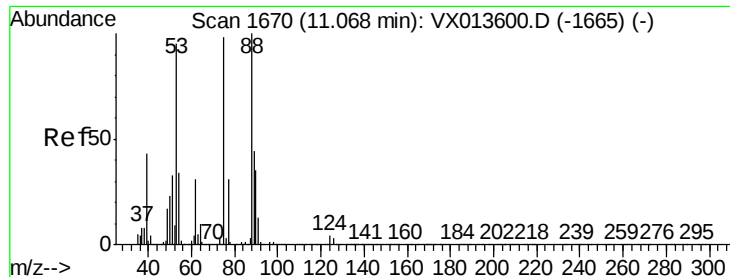
50000

0

11.10 11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 59.015 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

S39-0199

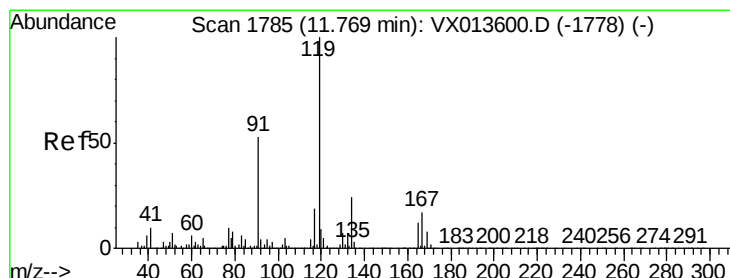
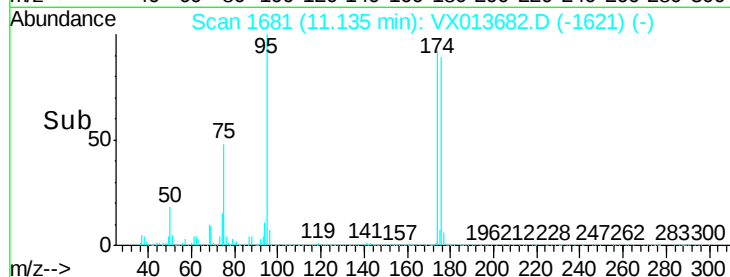
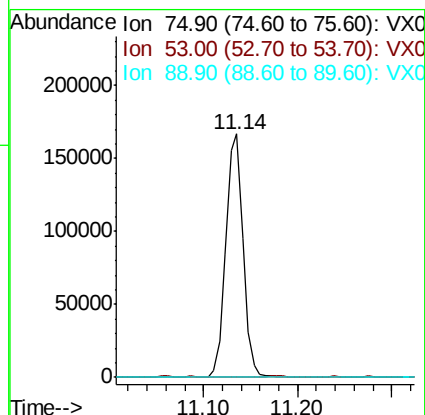
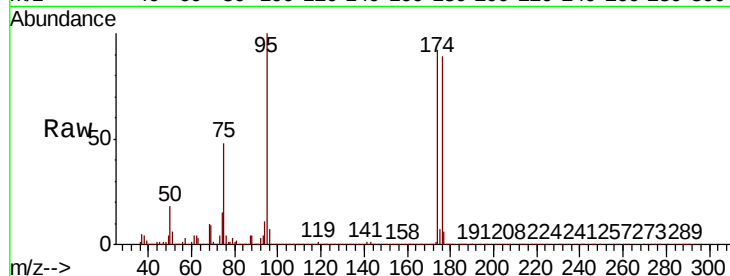
Tot Ion: 75 Resp: 210723

Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

89 0.1 35.4 53.2#



#83

tert-Butylbenzene

Concen: 0.390 ug/l

RT: 11.77 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

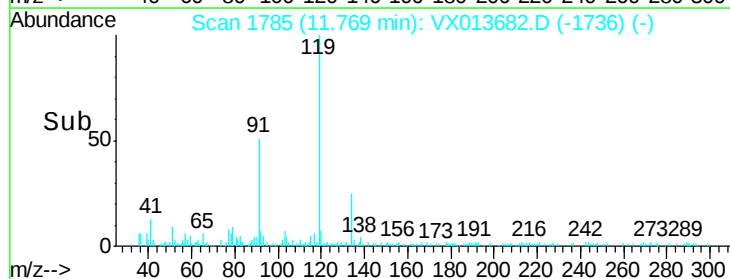
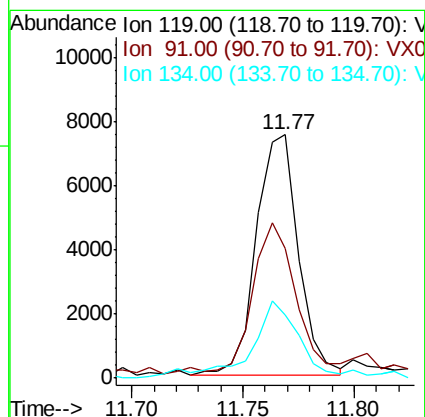
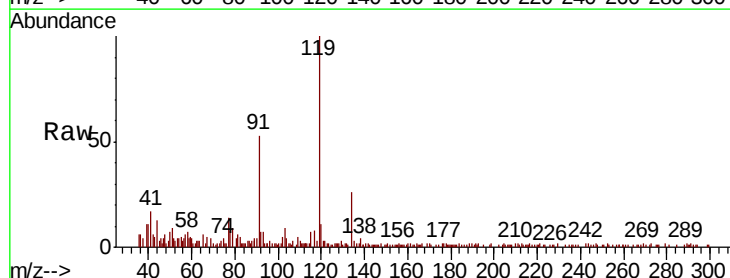
Tgt Ion: 119 Resp: 9886

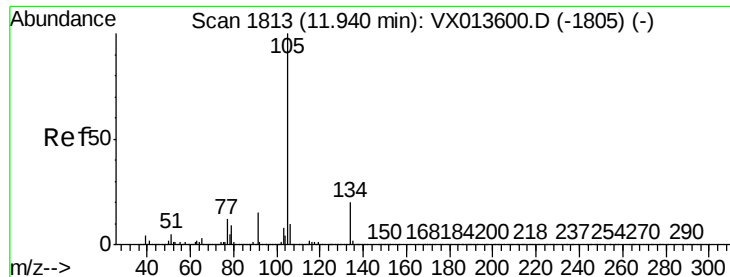
Ion Ratio Lower Upper

119 100

91 64.9 27.2 81.6

134 39.2 11.7 35.1#





#85

sec-Butylbenzene

Concen: 2.129 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampled :

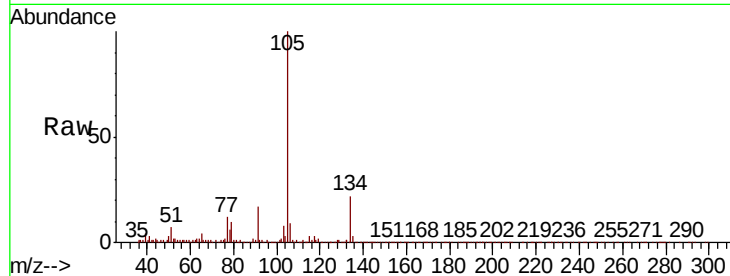
S39-0199

Tot Ion:105 Resp: 61721

Ion Ratio Lower Upper

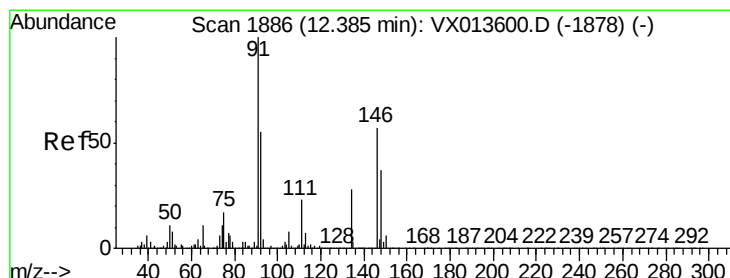
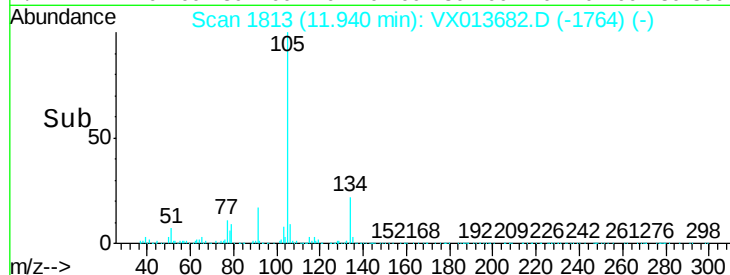
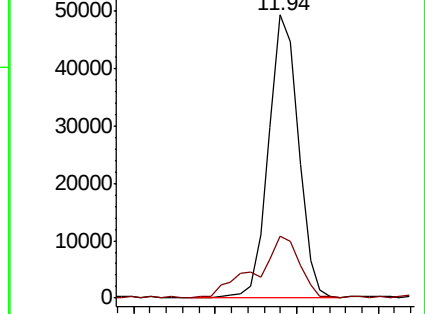
105 100

134 31.6 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 0.309 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

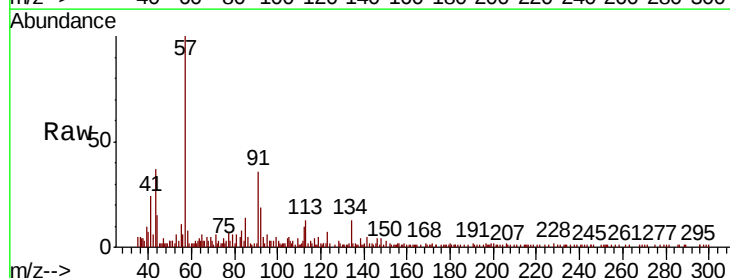
Tgt Ion: 91 Resp: 7102

Ion Ratio Lower Upper

91 100

92 36.7 27.4 82.2

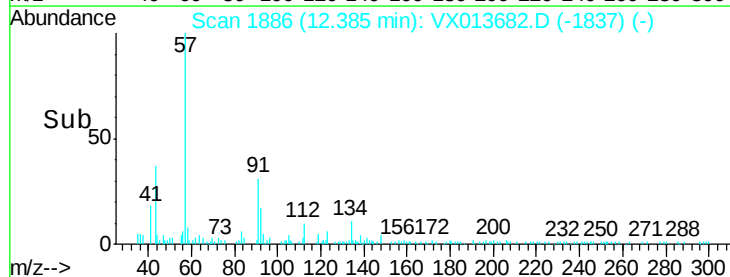
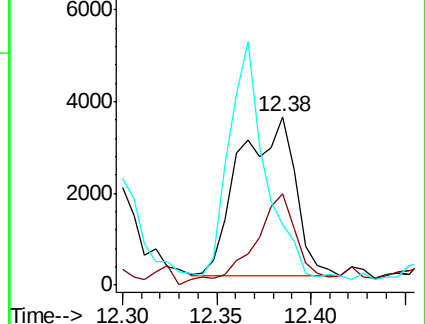
134 102.7 13.5 40.4#

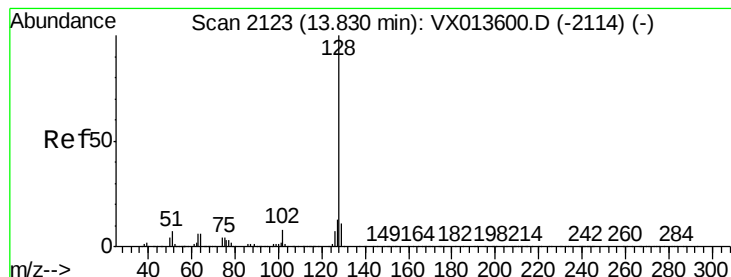


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 0.532 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013682.D

Acq: 28 Nov 2019 03:54

Instrument :

MSVOA_X

ClientSampleId :

S39-0199

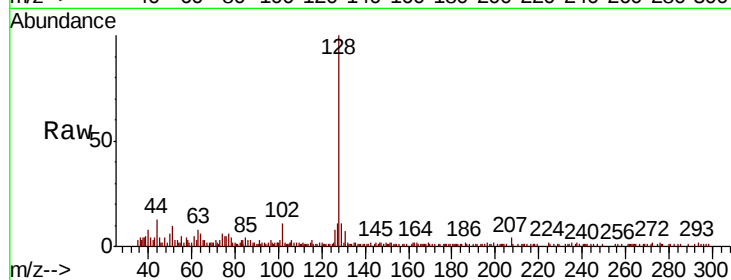
Tot Ion:128 Resp: 15650

Ion Ratio Lower Upper

128 100

127 12.5 10.3 15.5

129 14.7 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

