

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013681.D
 Acq On : 28 Nov 2019 03:31
 Operator : JC/SP
 Sample : K6079-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0198

Quant Time: Nov 29 00:38:41 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	687753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1074904	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	958723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	440349	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	384186	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
35) Dibromofluoromethane	5.49	113	320210	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
50) Toluene-d8	8.71	98	1271292	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	11.14	95	431201	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	

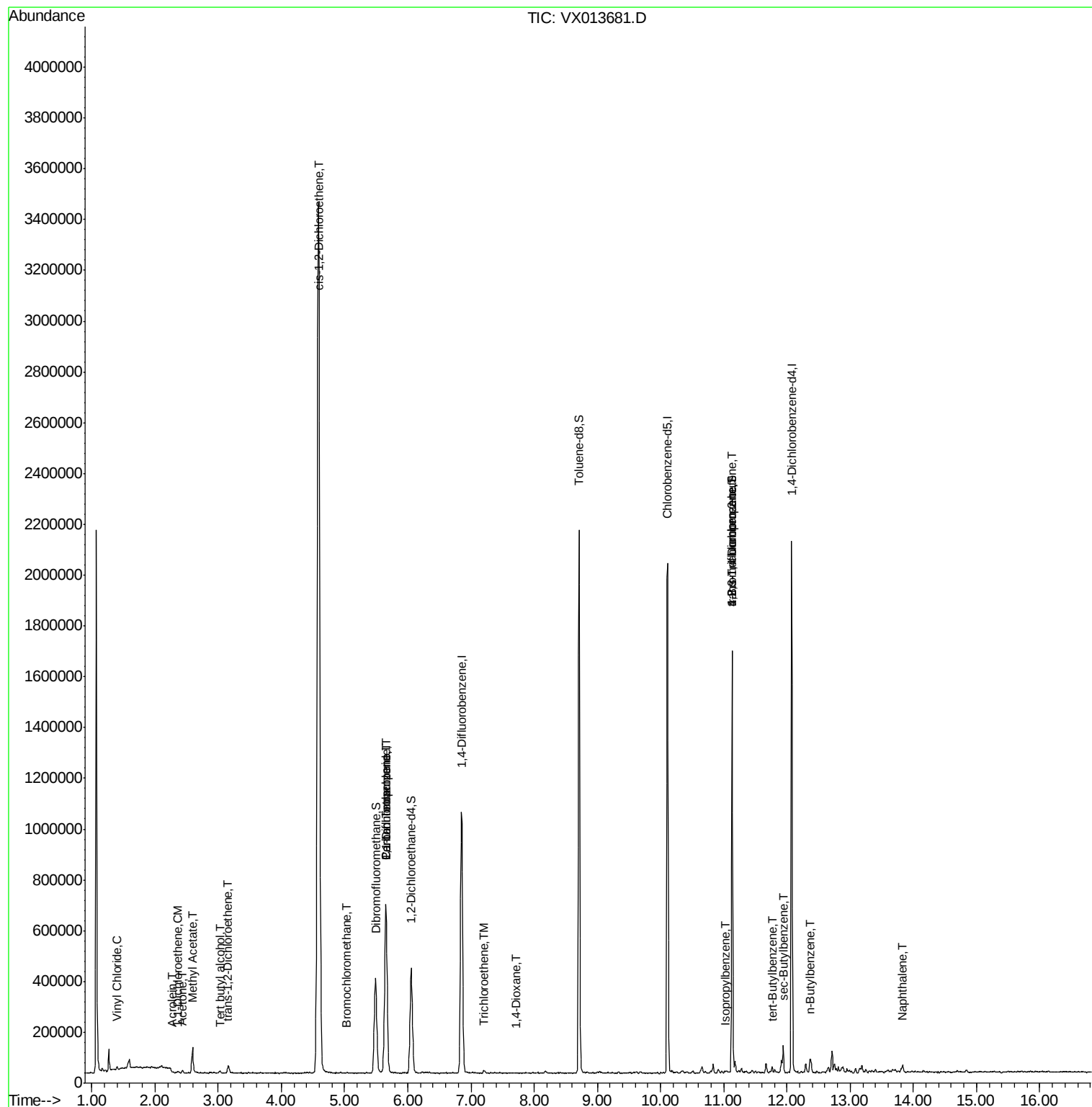
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	7002	0.724	ug/l #	79
11) Tert butyl alcohol	3.03	59	7486	3.799	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	1771	0.271	ug/l #	75
13) Acrolein	2.28	56	906	6.675	ug/l #	15
16) Acetone	2.43	43	10986	2.787	ug/l #	88
18) Methyl Acetate	2.59	43	27304	2.488	ug/l #	54
21) trans-1,2-Dichloroethene	3.16	96	13194	1.850	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	2211440	270.072	ug/l	89
28) Bromochloromethane	5.03	49	1427	0.276	ug/l #	11
36) 1,1-Dichloropropene	5.65	75	45047	4.617	ug/l #	51
38) Carbon Tetrachloride	5.65	117	58825	6.538	ug/l #	16
44) Trichloroethene	7.22	130	5873	0.720	ug/l	85
49) 1,4-Dioxane	7.72	88	409	2.087	ug/l #	9
73) Isopropylbenzene	11.02	105	6696	0.217	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	209768	21.180	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	209768	57.944	ug/l #	11
83) tert-Butylbenzene	11.76	119	9932	0.386	ug/l	95
85) sec-Butylbenzene	11.94	105	62169	2.115	ug/l	82
89) n-Butylbenzene	12.38	91	6970	0.299	ug/l #	38
95) Naphthalene	13.83	128	21112	0.708	ug/l #	82

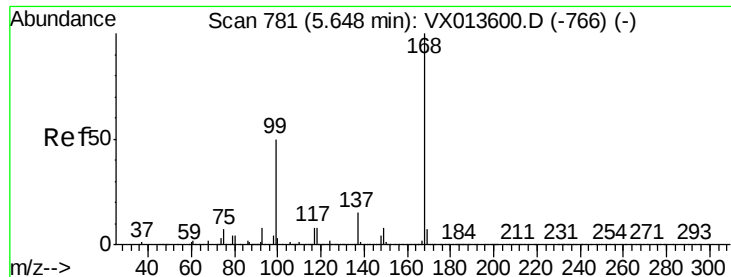
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampled :

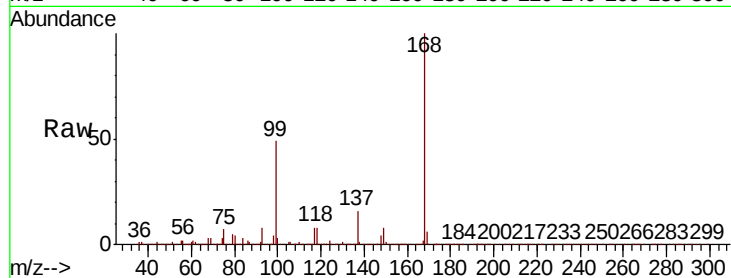
S39-0198

Tot Ion:168 Resp: 687753

Ion Ratio Lower Upper

168 100

99 49.2 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

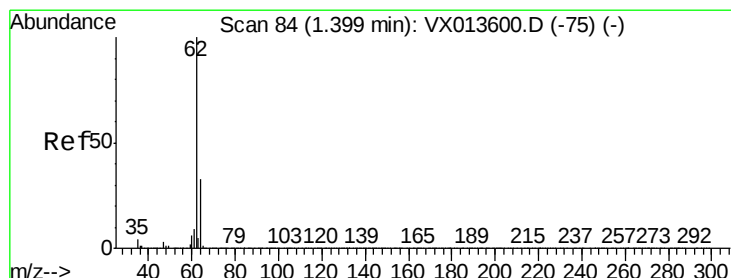
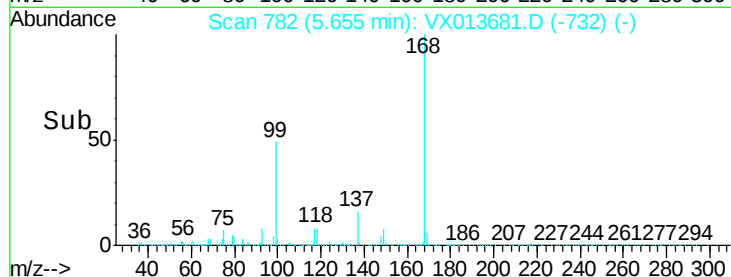
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.724 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013681.D

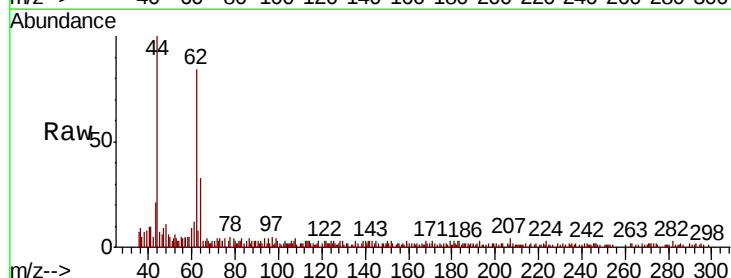
Acq: 28 Nov 2019 03:31

Tgt Ion: 62 Resp: 7002

Ion Ratio Lower Upper

62 100

64 21.0 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

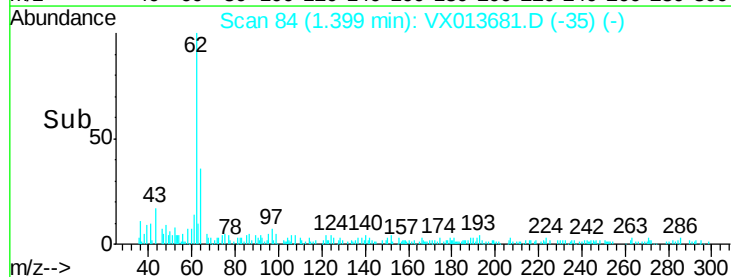
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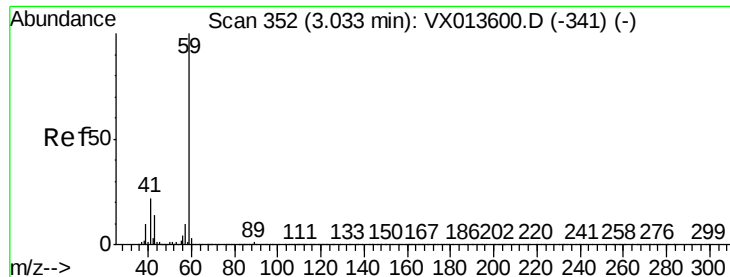
4000

2000

0

Time-->

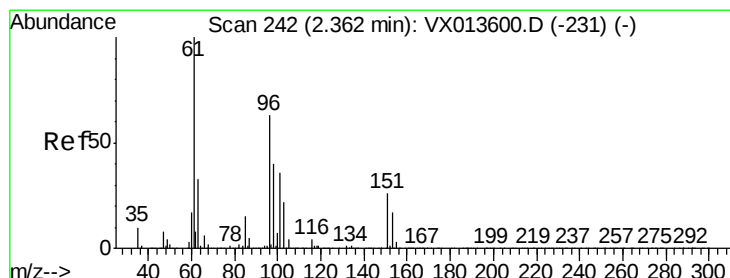
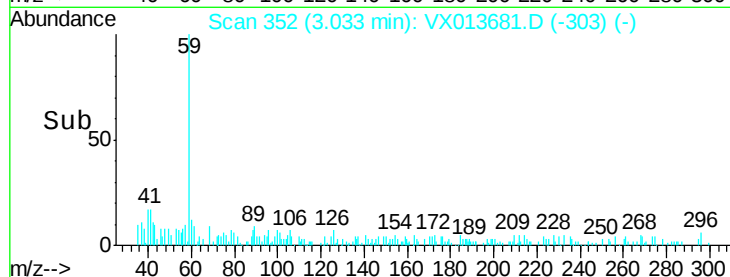
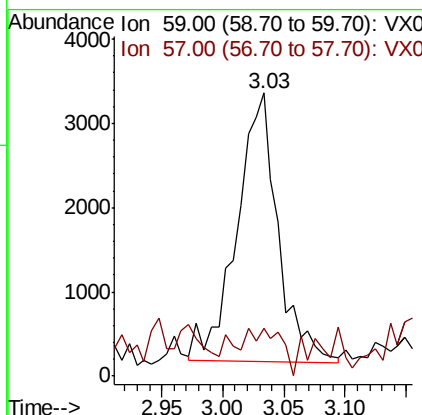
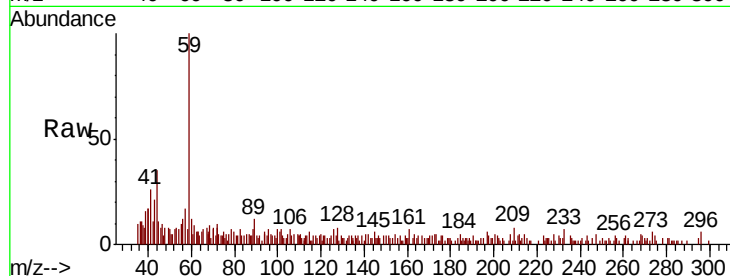




#11
Tert butyl alcohol
Concen: 3.799 ug/l
RT: 3.03 min Scan# 352
Delta R.T. 0.00 min
Lab File: VX013681.D
Acq: 28 Nov 2019 03:31

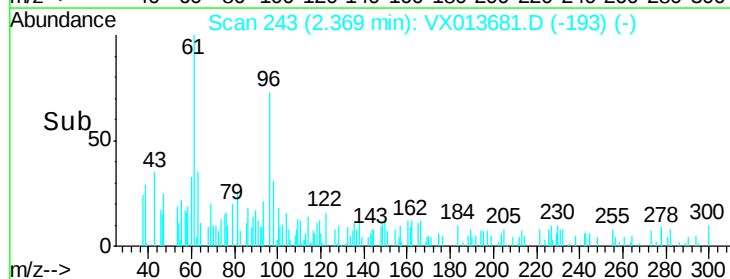
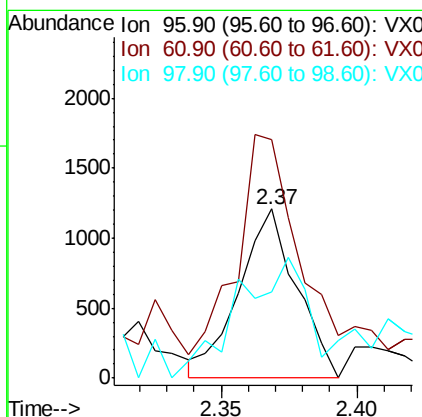
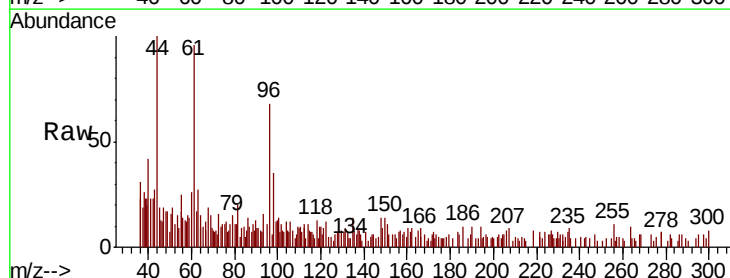
Instrument :
MSVOA_X
ClientSampleId :
S39-0198

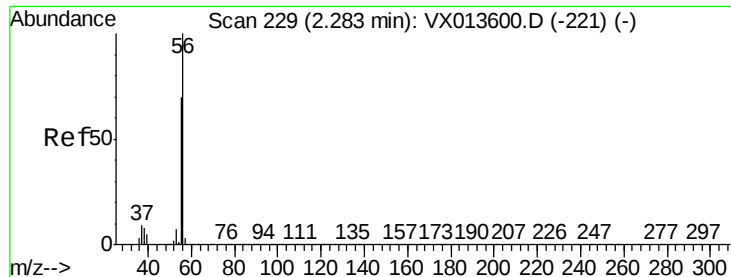
Tot Ion: 59 Resp: 7486
Ion Ratio Lower Upper
59 100
57 19.9 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.271 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013681.D
Acq: 28 Nov 2019 03:31

Tgt Ion: 96 Resp: 1771
Ion Ratio Lower Upper
96 100
61 127.0 126.6 190.0
98 40.8 50.6 76.0#





#13

Acrolein

Concen: 6.675 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampled :

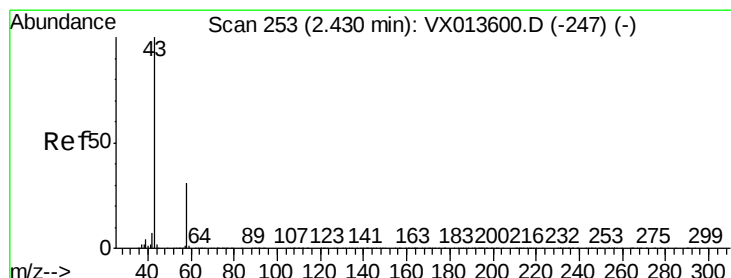
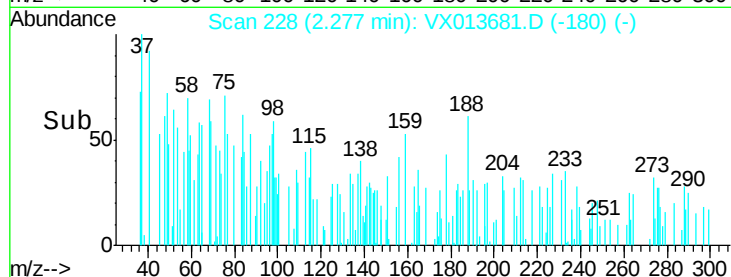
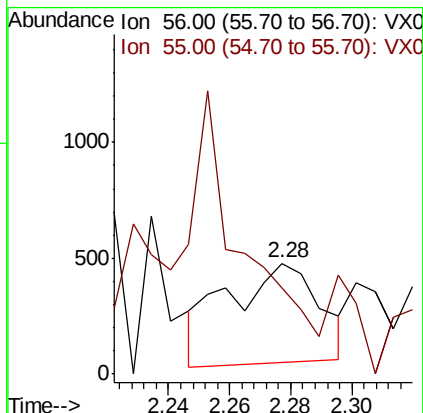
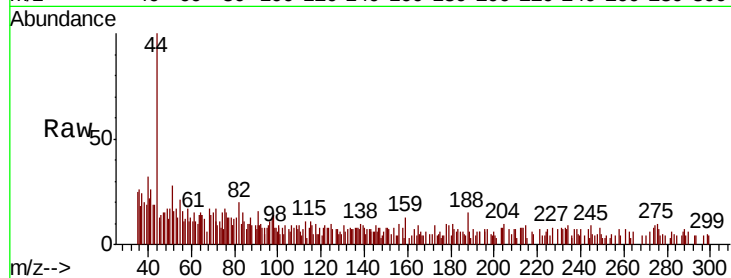
S39-0198

Tot Ion: 56 Resp: 906

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#16

Acetone

Concen: 2.787 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013681.D

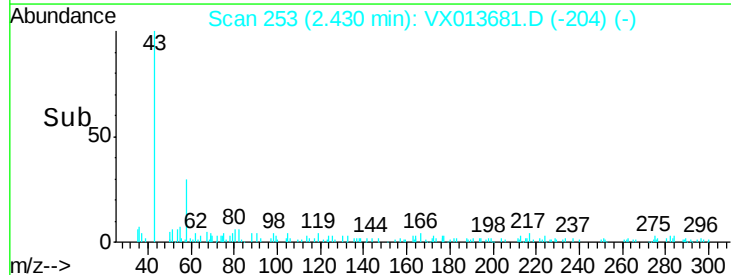
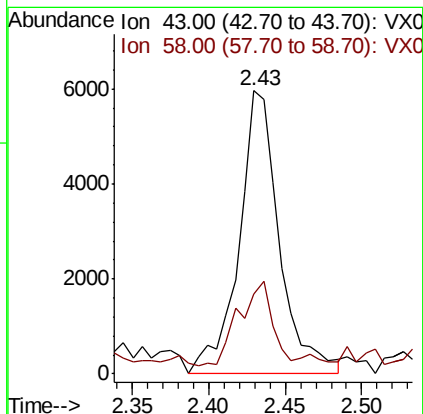
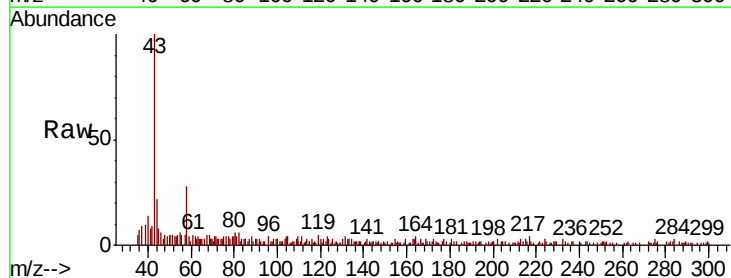
Acq: 28 Nov 2019 03:31

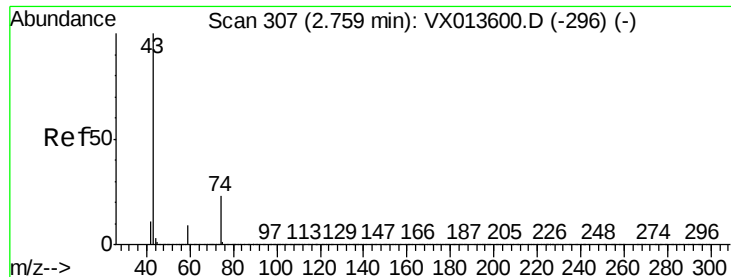
Tgt Ion: 43 Resp: 10986

Ion Ratio Lower Upper

43 100

58 24.2 24.6 36.8#

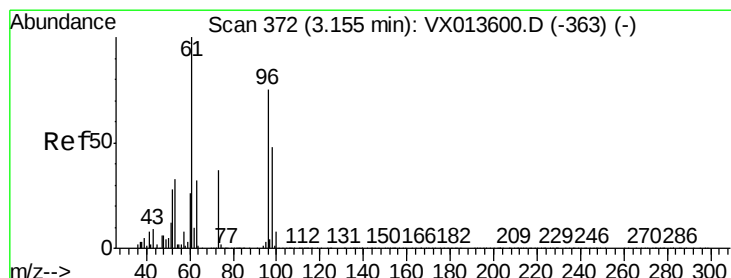
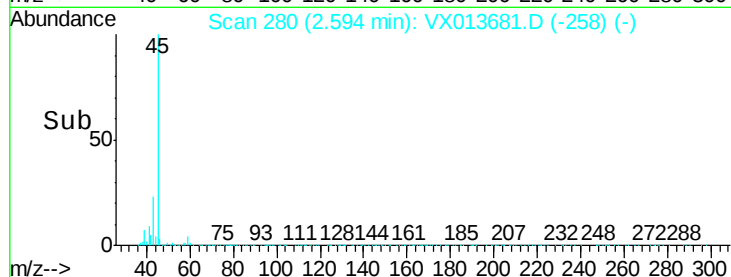
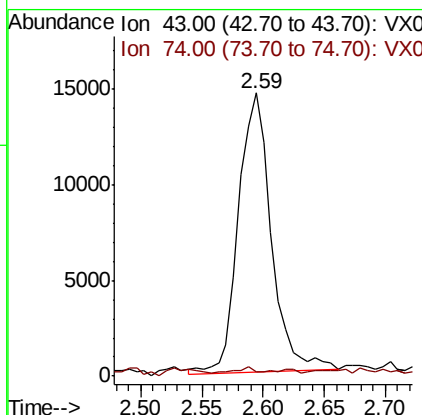
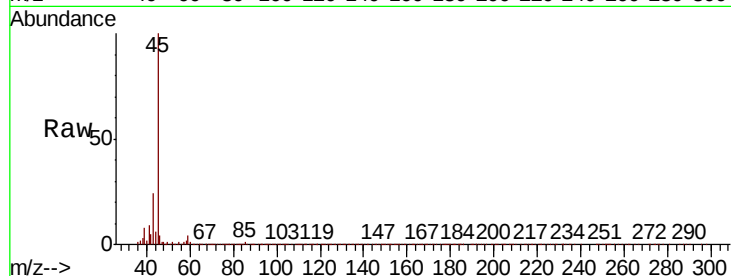




#18
Methvl Acetate
Concen: 2.488 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013681.D
Acq: 28 Nov 2019 03:31

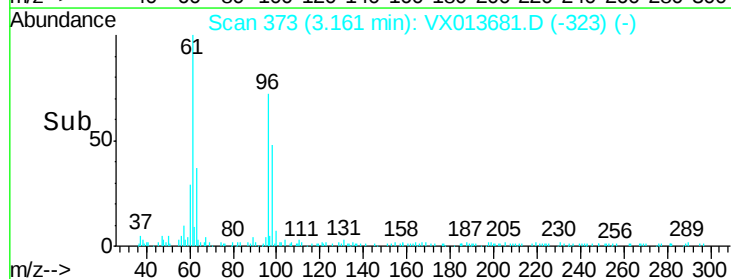
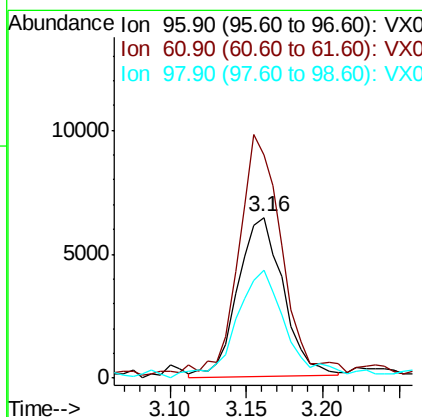
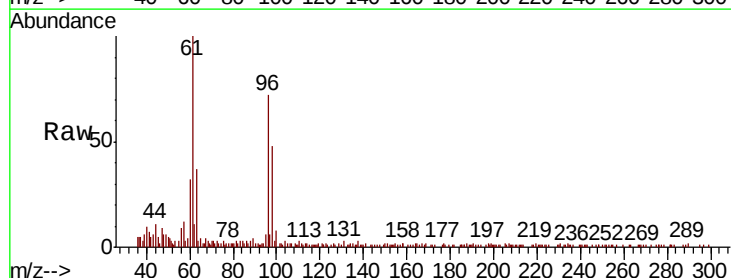
Instrument :
MSVOA_X
ClientSampleId :
S39-0198

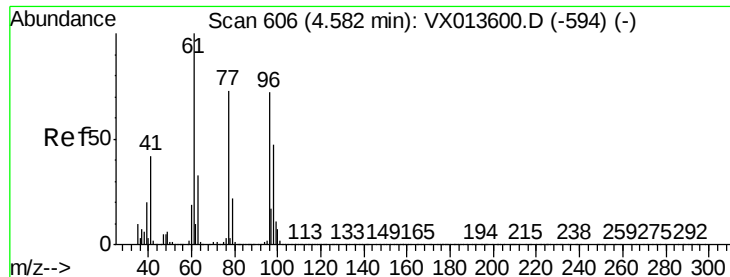
Tot Ion: 43 Resp: 27304
Ion Ratio Lower Upper
43 100
74 1.5 19.5 29.3#



#21
trans-1,2-Dichloroethene
Concen: 1.850 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013681.D
Acq: 28 Nov 2019 03:31

Tgt Ion: 96 Resp: 13194
Ion Ratio Lower Upper
96 100
61 134.8 107.2 160.8
98 64.9 51.4 77.0



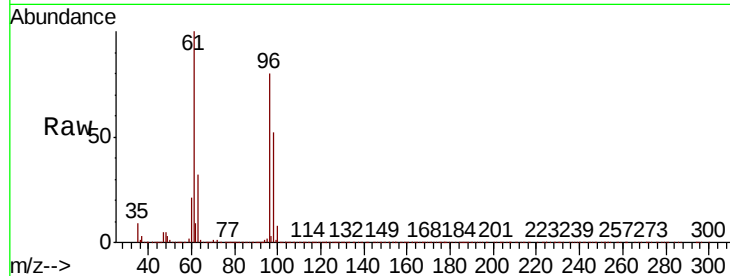


#27

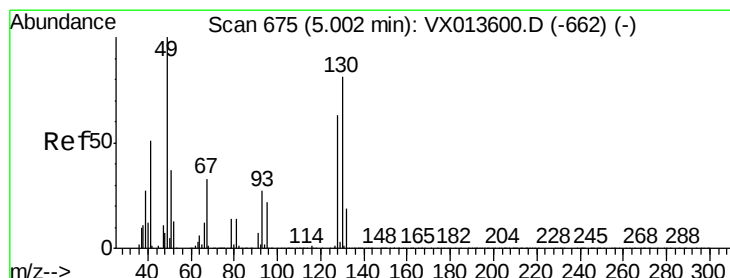
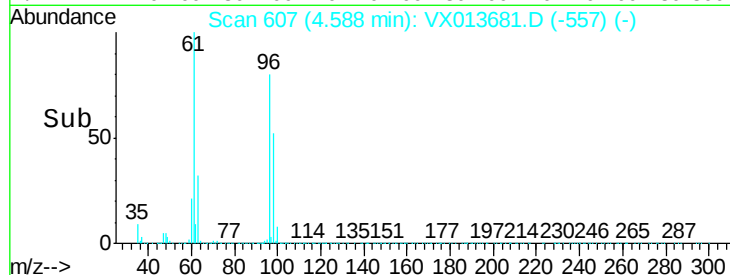
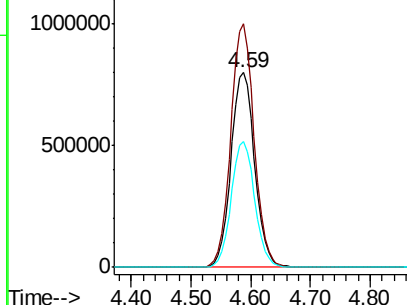
cis-1,2-Dichloroethene
Concen: 270.072 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013681.D
Acq: 28 Nov 2019 03:31

Instrument :
MSVOA_X
ClientSampleId :
S39-0198

Tot Ion: 96 Resp: 2211440
Ion Ratio Lower Upper
96 100
61 123.5 0.0 286.4
98 64.5 0.0 127.4



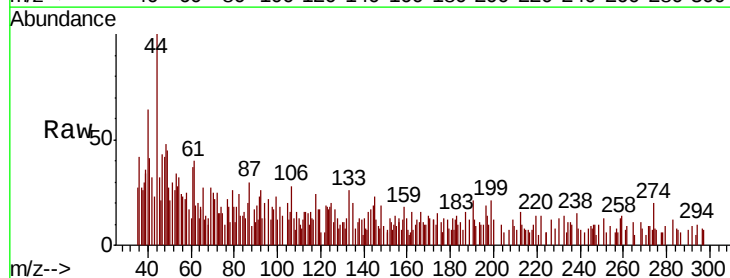
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



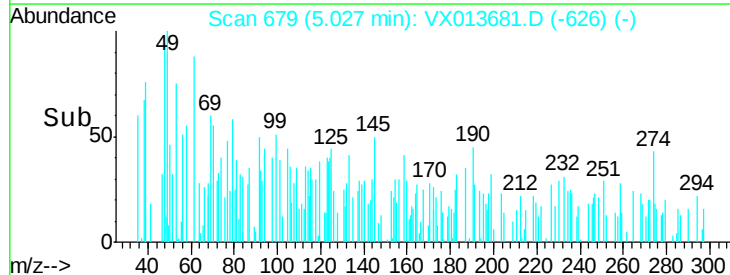
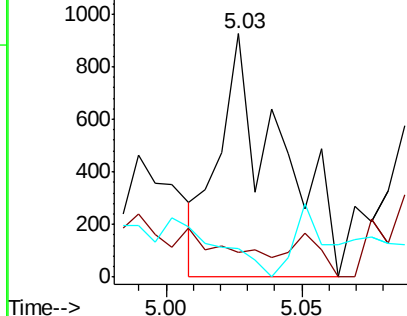
#28

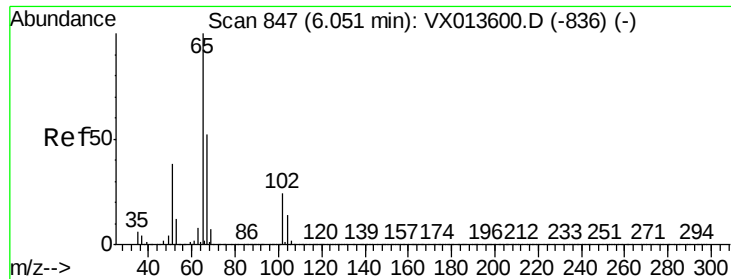
Bromochloromethane
Concen: 0.276 ug/l
RT: 5.03 min Scan# 679
Delta R.T. 0.02 min
Lab File: VX013681.D
Acq: 28 Nov 2019 03:31

Tgt Ion: 49 Resp: 1427
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 0.0 65.4 98.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 48.124 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

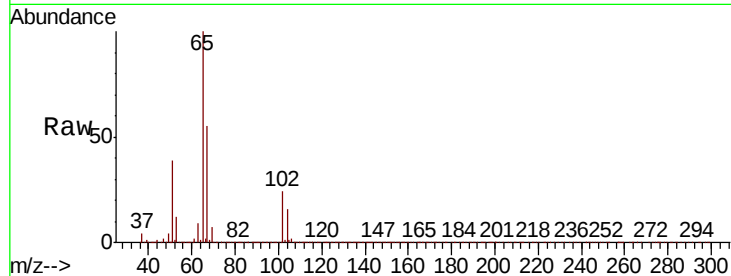
S39-0198

Tot Ion: 65 Resp: 384186

Ion Ratio Lower Upper

65 100

67 53.5 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

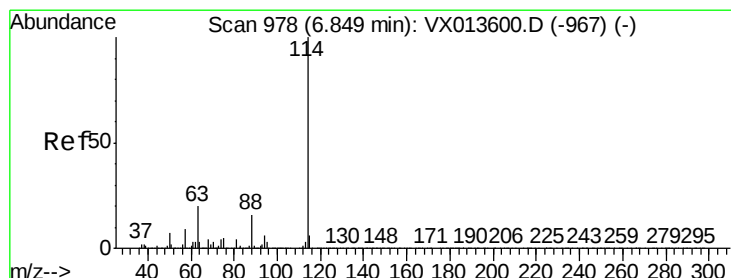
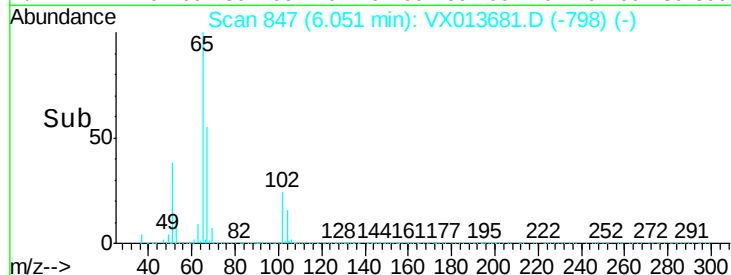
150000

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50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

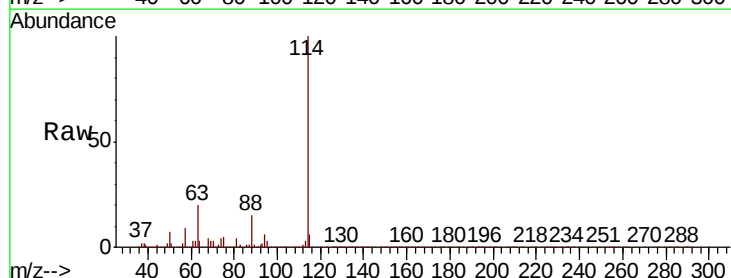
Tgt Ion: 114 Resp: 1074904

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 14.9 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

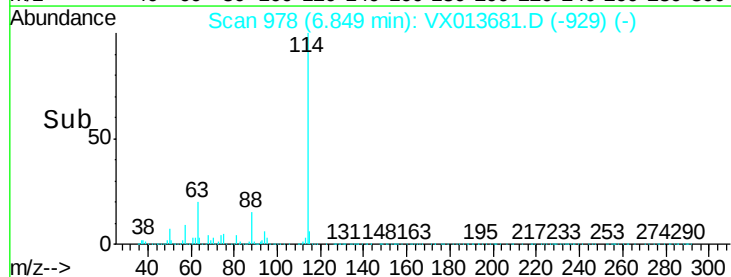
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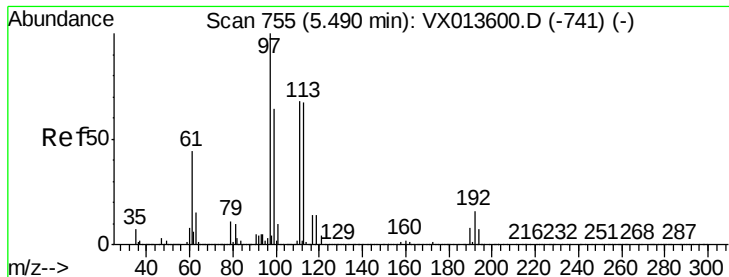
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.187 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

S39-0198

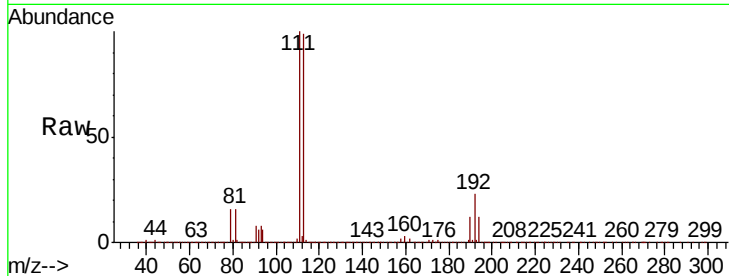
Tot Ion:113 Resp: 320210

Ion Ratio Lower Upper

113 100

111 101.8 83.6 125.4

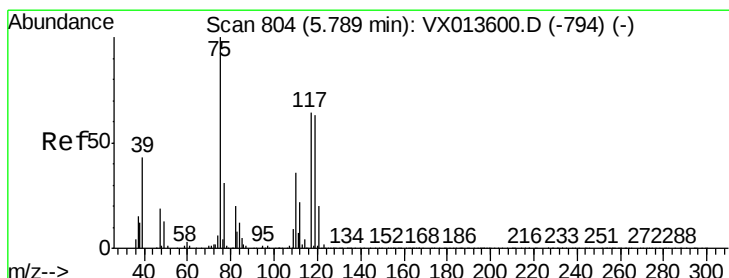
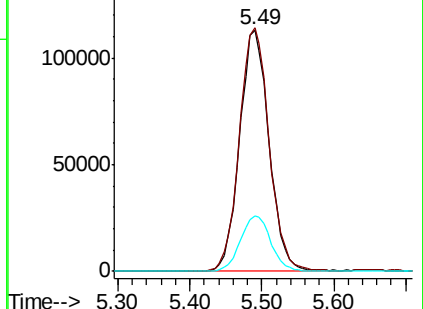
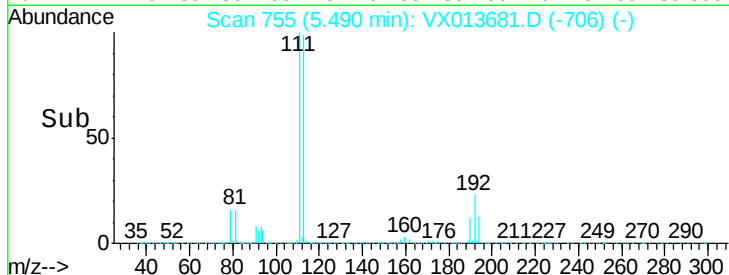
192 23.3 19.2 28.8



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: 4.617 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

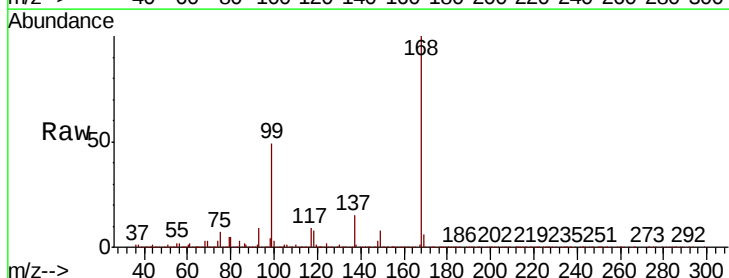
Tgt Ion: 75 Resp: 45047

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.1#

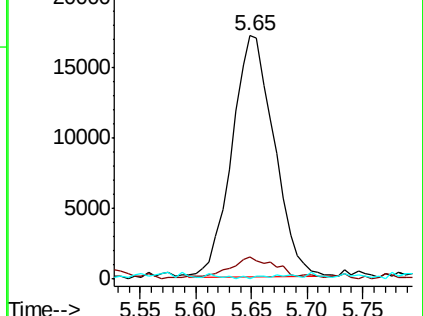
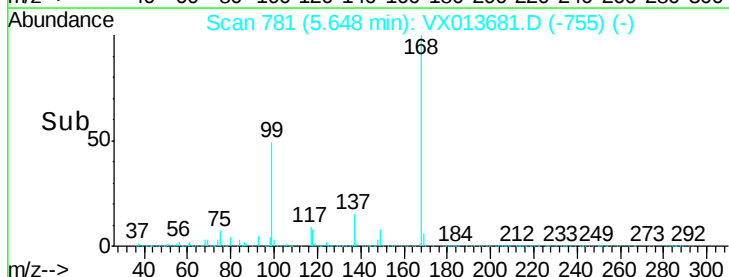
77 0.6 24.5 36.7#

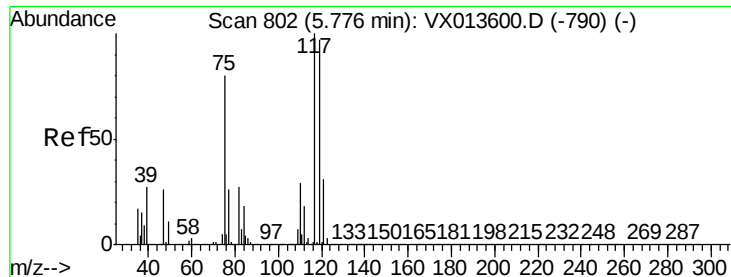


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.538 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampled :

S39-0198

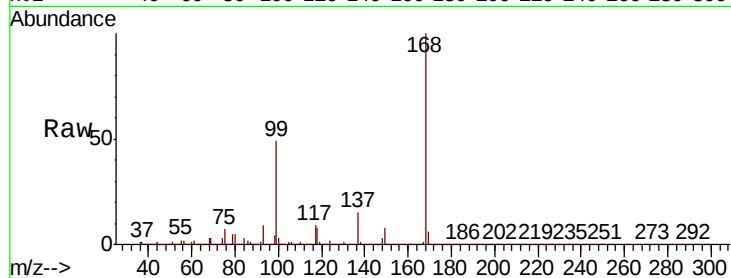
Tot Ion:117 Resp: 58825

Ion Ratio Lower Upper

117 100

119 6.1 77.5 116.3#

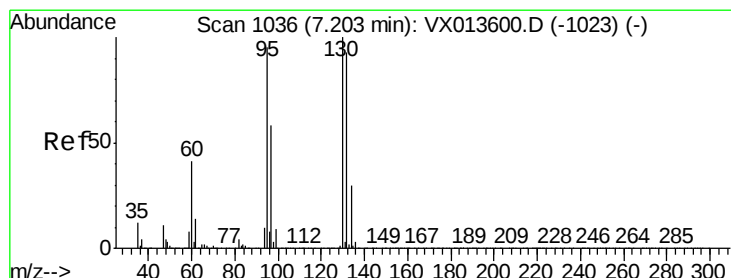
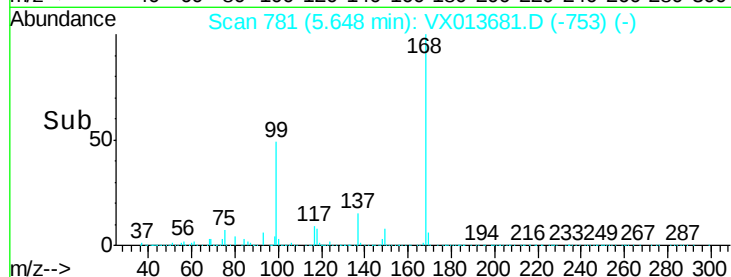
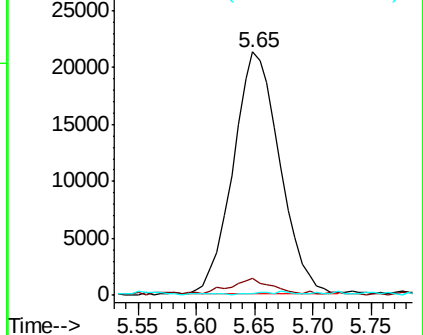
121 0.0 25.0 37.6#



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: 0.720 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013681.D

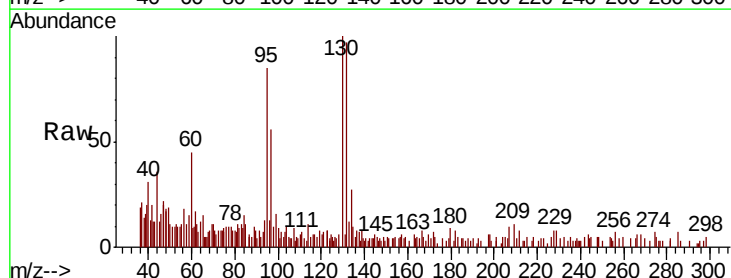
Acq: 28 Nov 2019 03:31

Tgt Ion:130 Resp: 5873

Ion Ratio Lower Upper

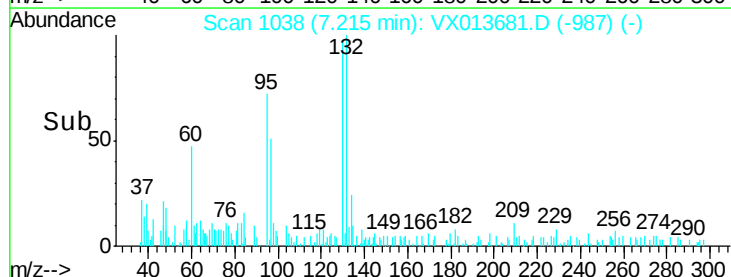
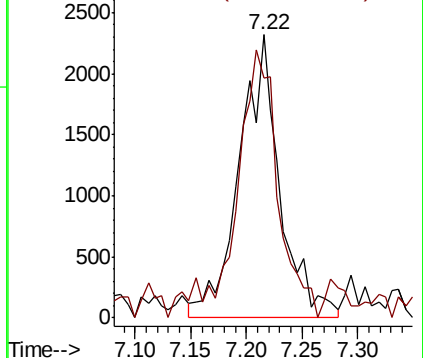
130 100

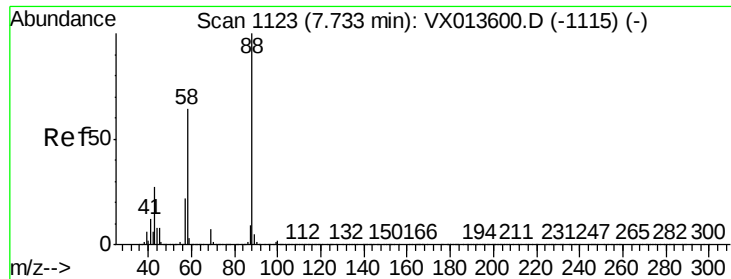
95 80.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 2.087 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

S39-0198

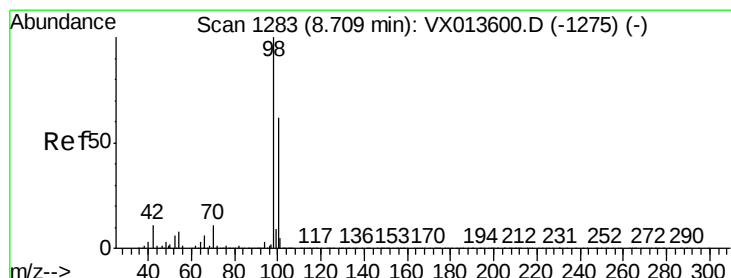
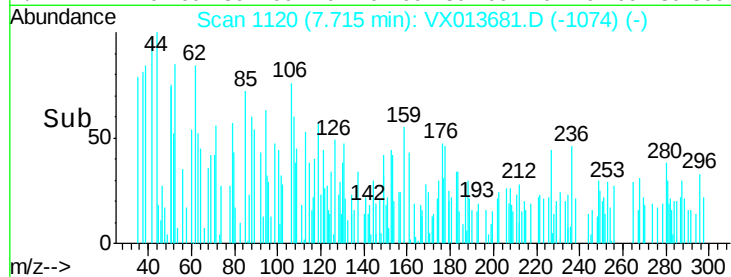
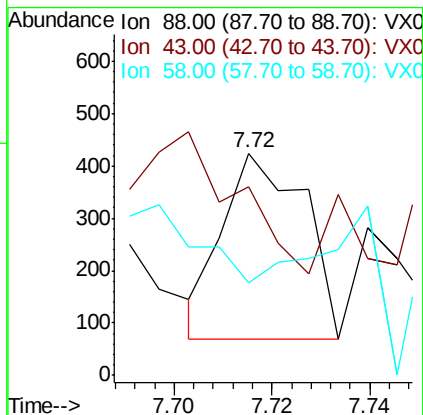
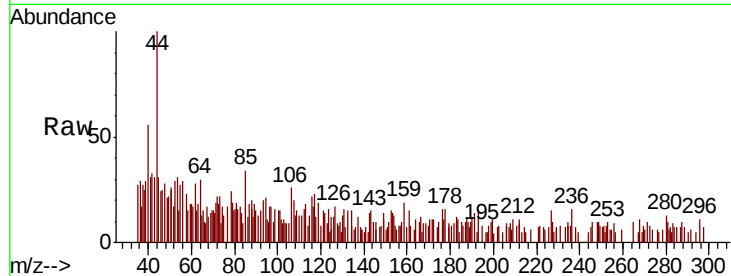
Tot Ion: 88 Resp: 409

Ion Ratio Lower Upper

88 100

43 91.2 25.8 38.6#

58 0.0 54.6 82.0#



#50

Toluene-d8

Concen: 49.103 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013681.D

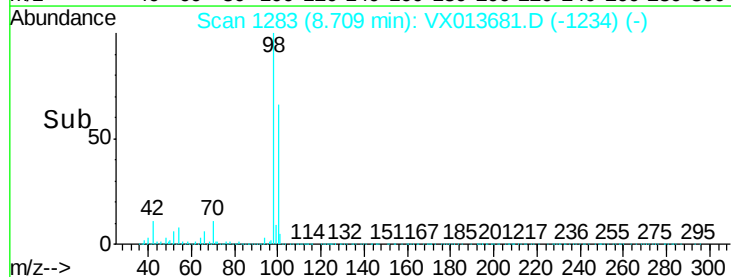
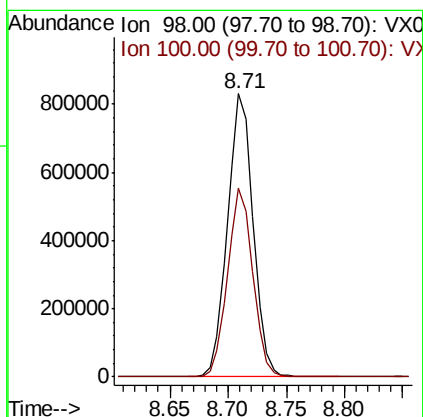
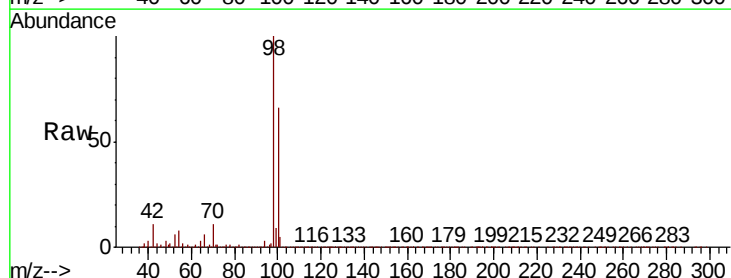
Acq: 28 Nov 2019 03:31

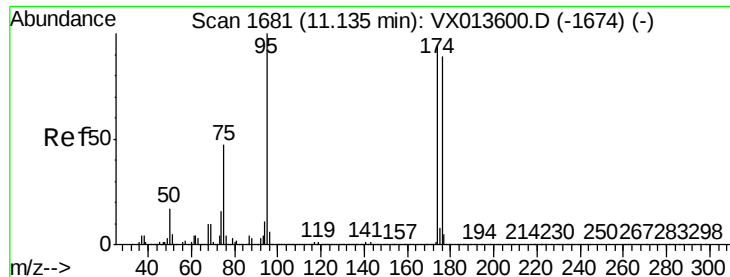
Tgt Ion: 98 Resp: 1271292

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 46.186 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

S39-0198

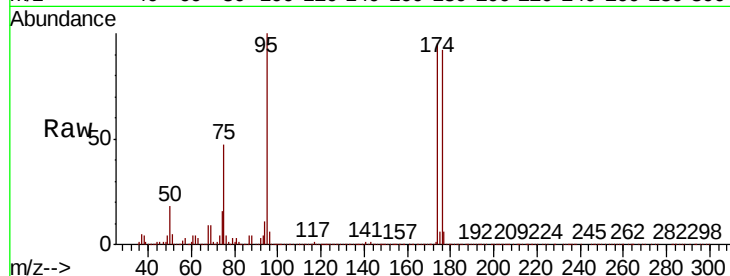
Tot Ion: 95 Resp: 431201

Ion Ratio Lower Upper

95 100

174 91.2 0.0 180.0

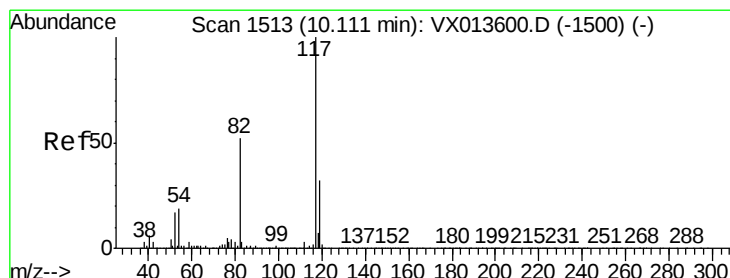
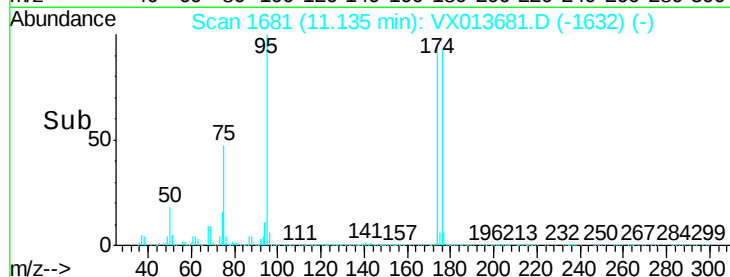
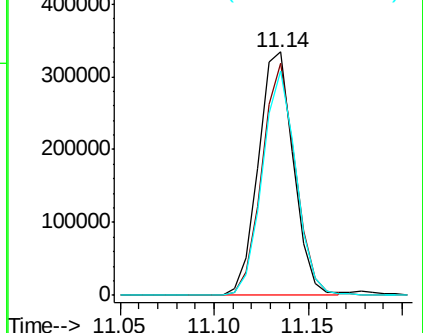
176 88.4 0.0 173.6



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

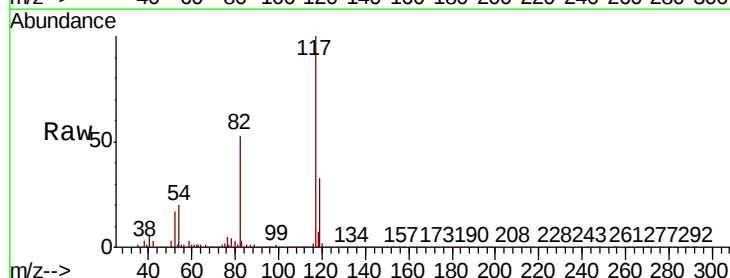
Tgt Ion: 117 Resp: 958723

Ion Ratio Lower Upper

117 100

82 53.2 41.8 62.8

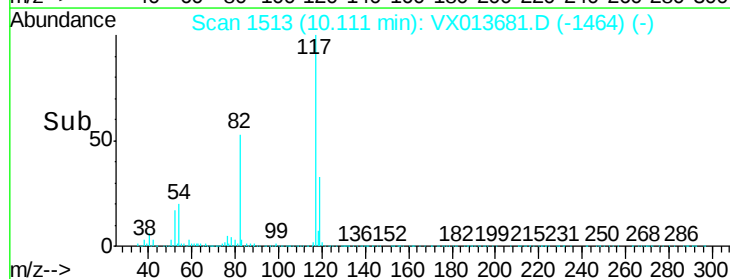
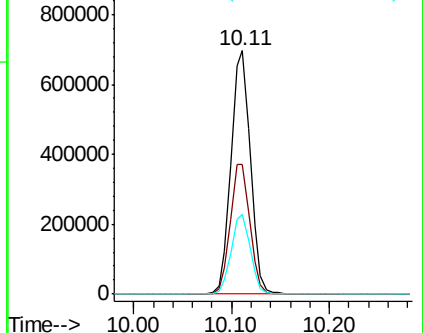
119 32.8 25.8 38.8

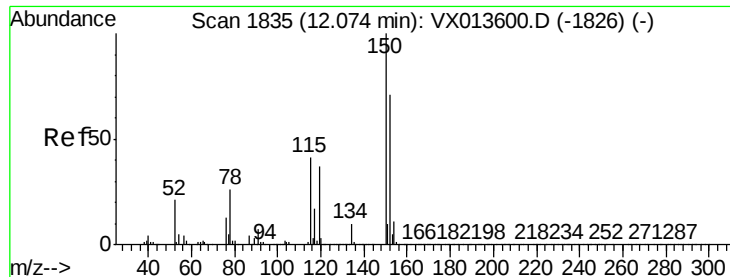


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

S39-0198

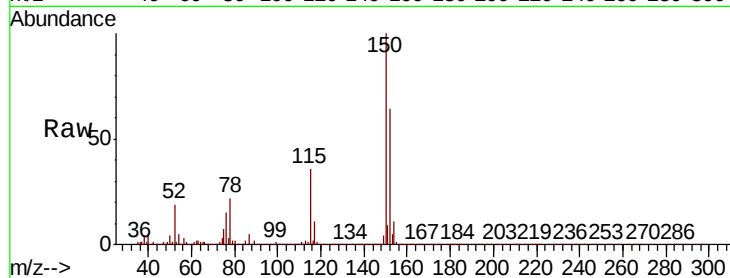
Tot Ion:152 Resp: 440349

Ion Ratio Lower Upper

152 100

115 55.3 38.4 115.1

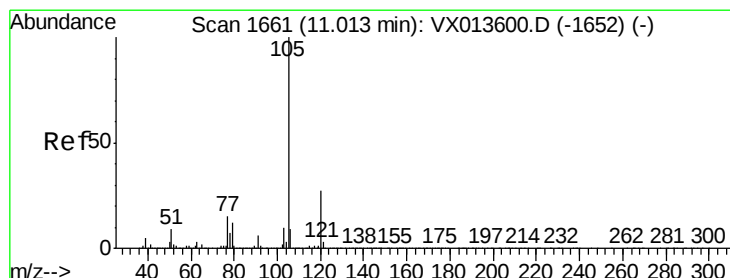
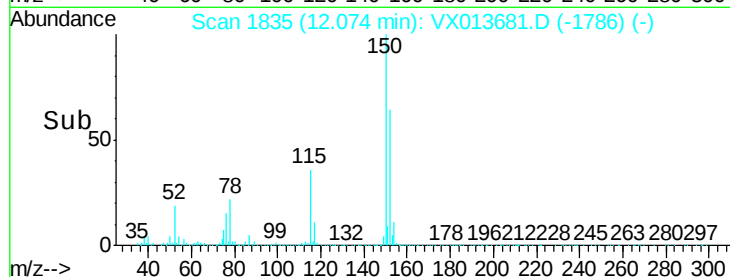
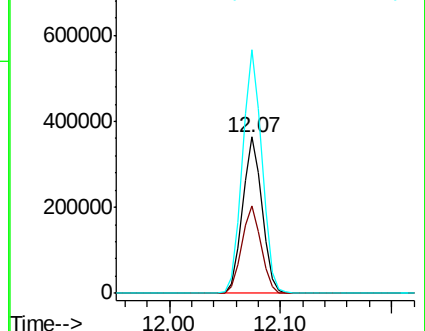
150 155.7 0.0 346.8



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



#73

Isopropylbenzene

Concen: 0.217 ug/l

RT: 11.02 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VX013681.D

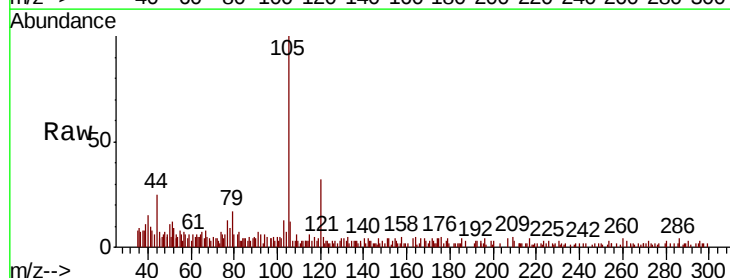
Acq: 28 Nov 2019 03:31

Tgt Ion:105 Resp: 6696

Ion Ratio Lower Upper

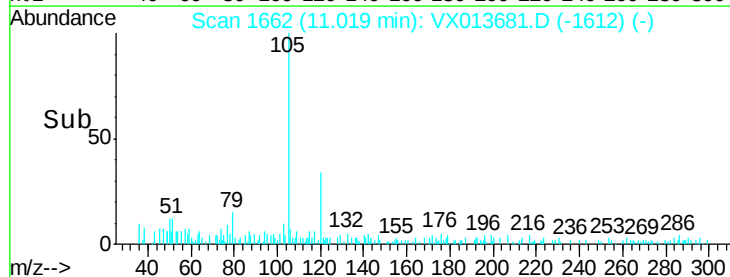
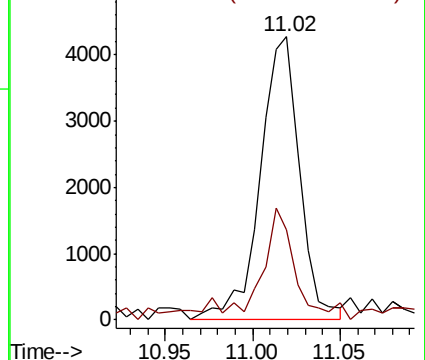
105 100

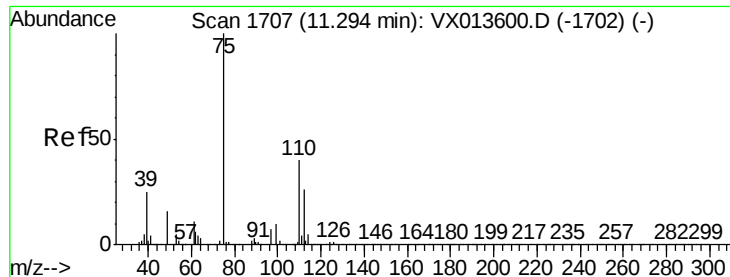
120 33.0 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 21.180 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

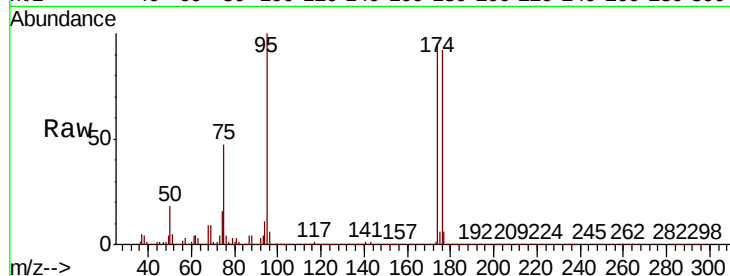
S39-0198

Tot Ion: 75 Resp: 209768

Ion Ratio Lower Upper

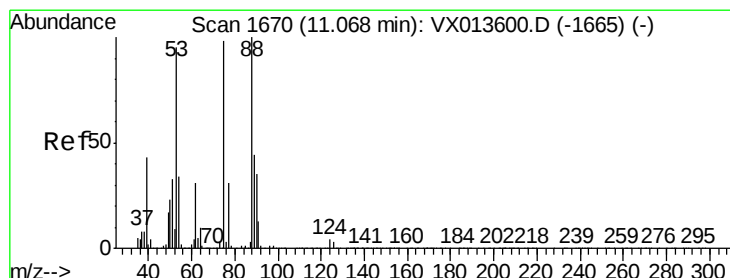
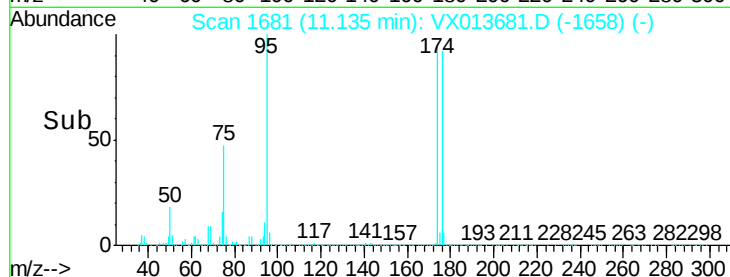
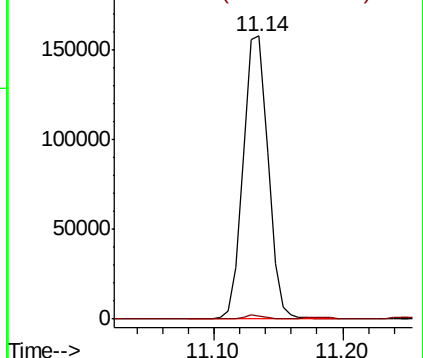
75 100

77 1.1 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: 57.944 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

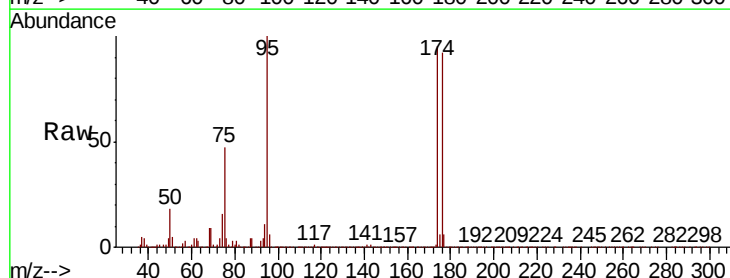
Tgt Ion: 75 Resp: 209768

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

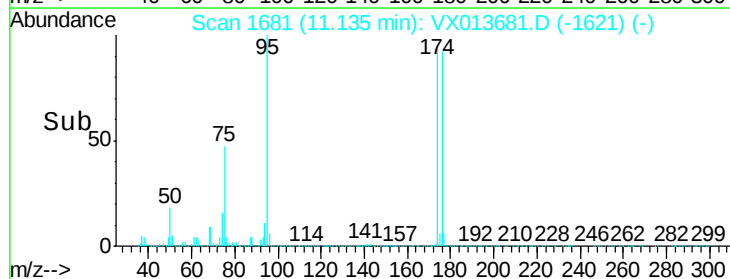
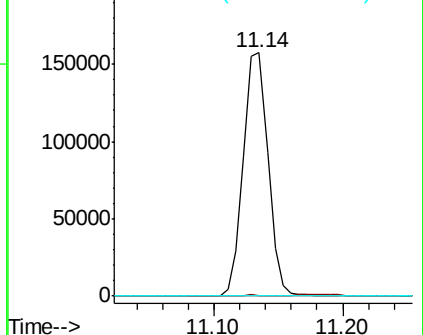
89 0.1 35.4 53.2#

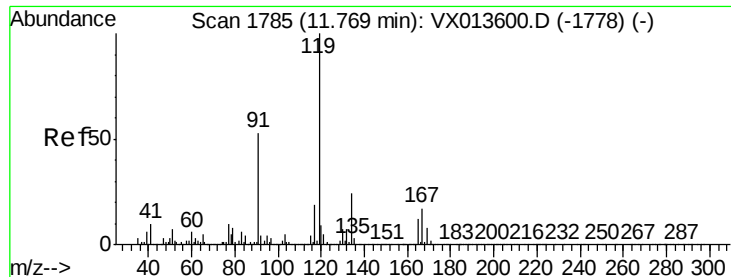


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#83

tert-Butylbenzene

Concen: 0.386 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. -0.01 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

S39-0198

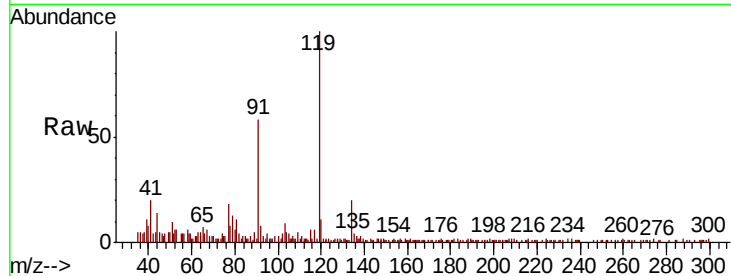
Tot Ion:119 Resp: 9932

Ion Ratio Lower Upper

119 100

91 59.6 27.2 81.6

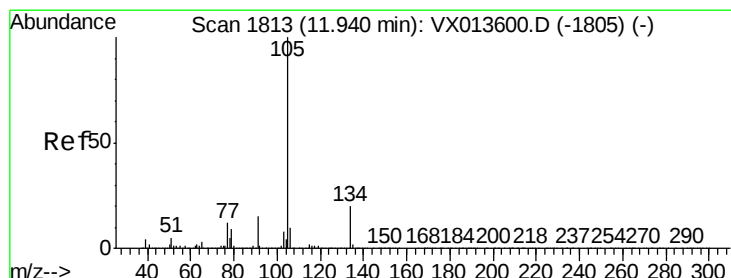
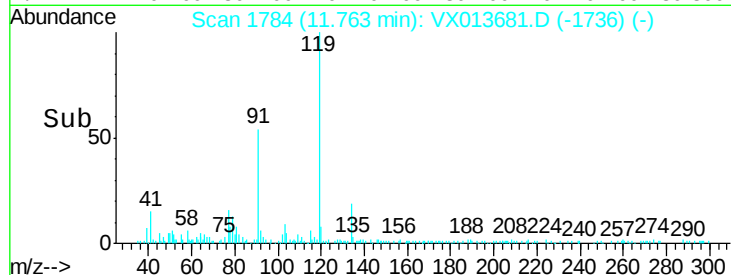
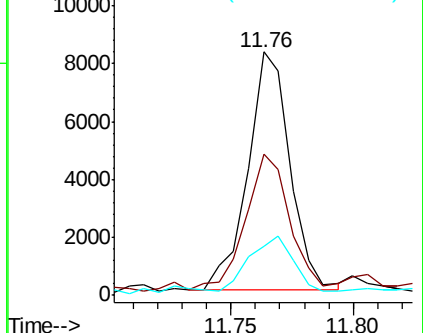
134 23.1 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#85

sec-Butylbenzene

Concen: 2.115 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013681.D

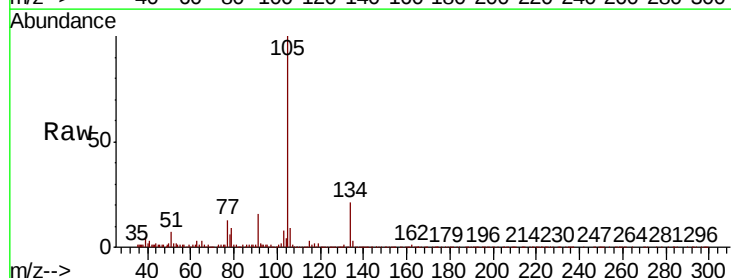
Acq: 28 Nov 2019 03:31

Tgt Ion:105 Resp: 62169

Ion Ratio Lower Upper

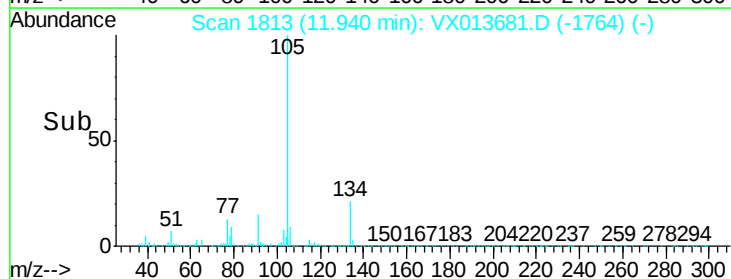
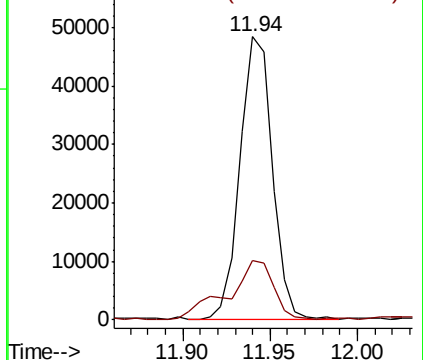
105 100

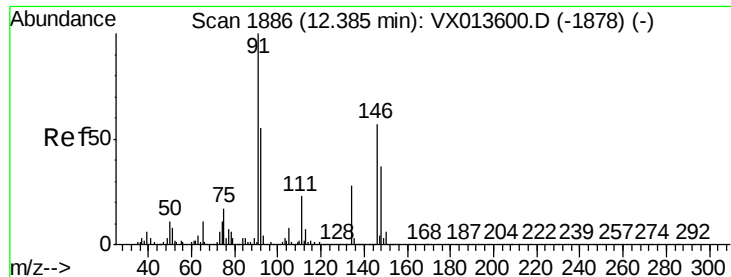
134 29.4 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#89

n-Butylbenzene

Concen: 0.299 ug/l

RT: 12.38 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Instrument :

MSVOA_X

ClientSampleId :

S39-0198

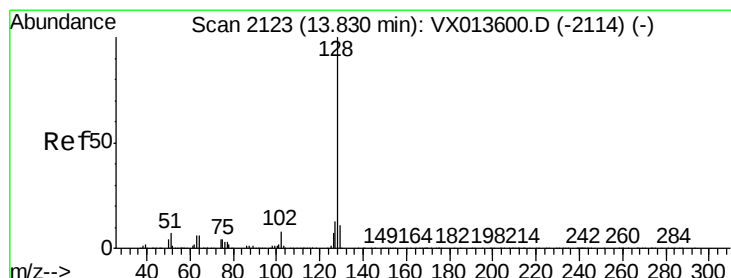
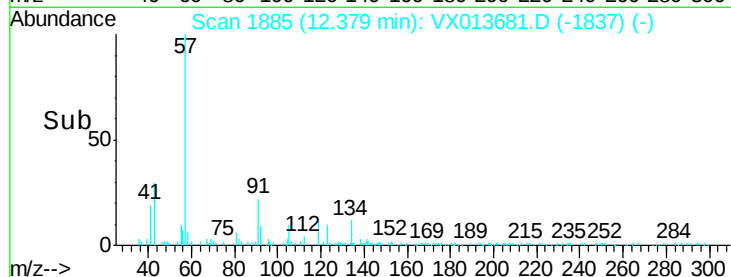
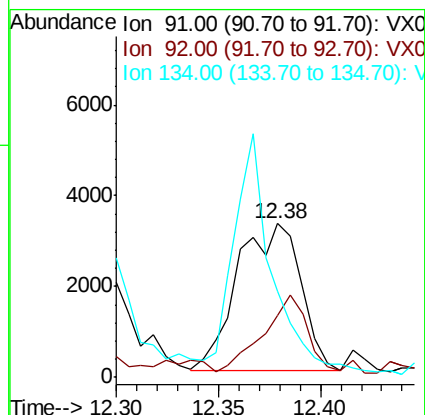
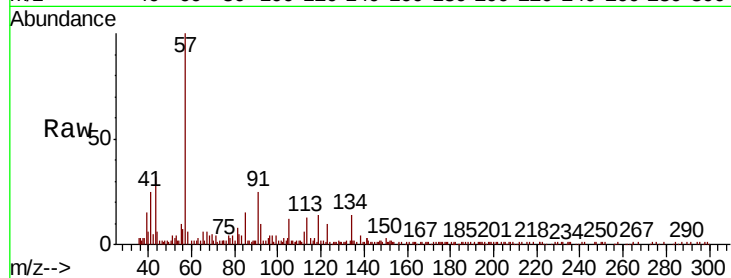
Tot Ion: 91 Resp: 6970

Ion Ratio Lower Upper

91 100

92 36.6 27.4 82.2

134 96.9 13.5 40.4#



#95

Naphthalene

Concen: 0.708 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013681.D

Acq: 28 Nov 2019 03:31

Tgt Ion: 128 Resp: 21112

Ion Ratio Lower Upper

128 100

127 17.1 10.3 15.5#

129 21.4 8.7 13.1#

