

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013792.D
 Acq On : 06 Dec 2019 12:23
 Operator : JC/SP
 Sample : K6184-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D2-20191202

Quant Time: Dec 07 02:35:43 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	650430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	993308	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	876243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	388593	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	356443	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	5.49	113	296789	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	8.71	98	1170935	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	11.14	95	391987	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	

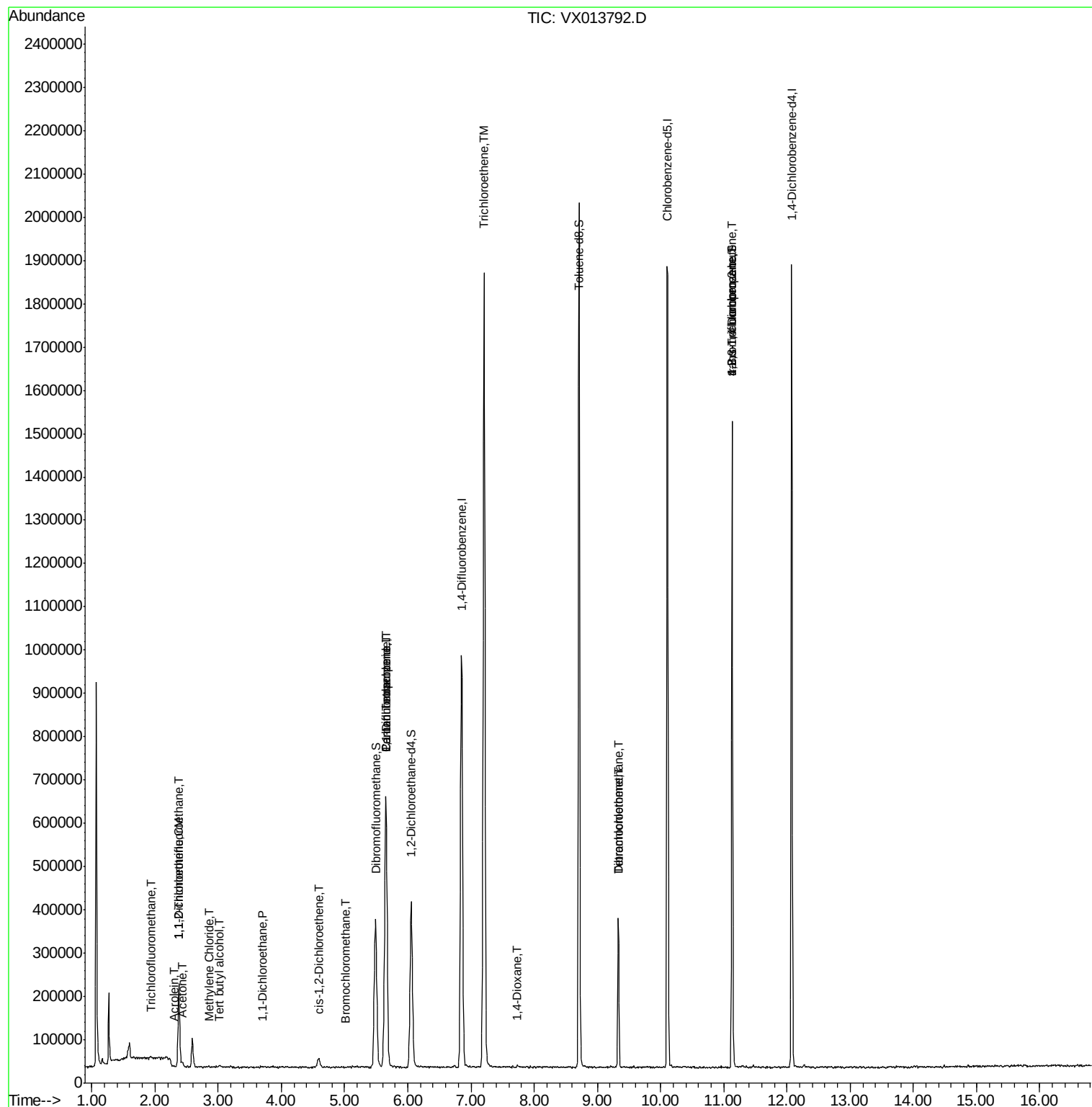
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	1.92	101	2137	0.210	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	78439	12.649	ug/l	99
11) Tert butyl alcohol	3.01	59	4690	2.517	ug/l #	76
12) 1,1-Dichloroethene	2.37	96	3174	0.513	ug/l #	56
13) Acrolein	2.30	56	266	6.212	ug/l #	15
16) Acetone	2.44	43	10703	2.871	ug/l	92
20) Methylene Chloride	2.85	84	2103	0.294	ug/l #	75
24) 1,1-Dichloroethane	3.69	63	2635	0.223	ug/l #	20
27) cis-1,2-Dichloroethene	4.59	96	13103	1.692	ug/l	93
28) Bromochloromethane	5.00	49	1517	0.312	ug/l #	43
36) 1,1-Dichloropropene	5.65	75	43139	4.784	ug/l #	51
38) Carbon Tetrachloride	5.65	117	56643	6.813	ug/l #	15
44) Trichloroethene	7.21	130	736890	97.771	ug/l	96
49) 1,4-Dioxane	7.74	88	3863	21.329	ug/l #	78
60) Dibromochloromethane	9.33	129	58676	8.224	ug/l #	11
64) Tetrachloroethene	9.33	164	69993	10.711	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	192281	22.000	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	192281	60.187	ug/l #	11

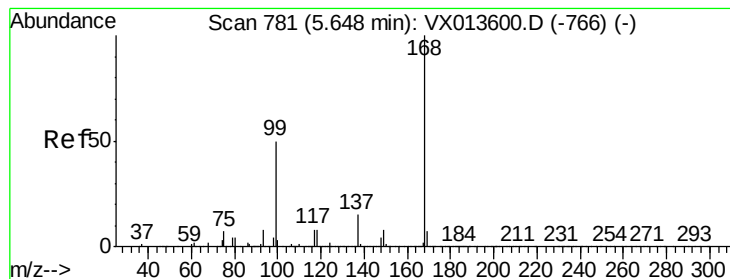
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

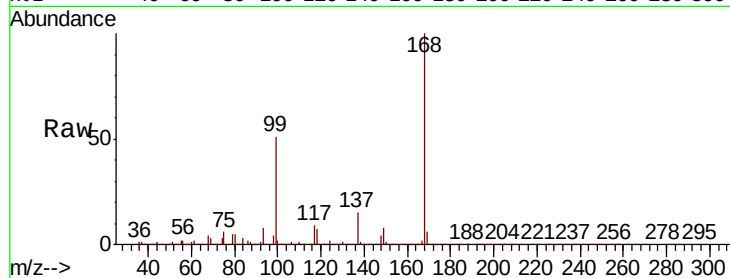
RE134D2-20191202

Tot Ion:168 Resp: 650430

Ion Ratio Lower Upper

168 100

99 50.6 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

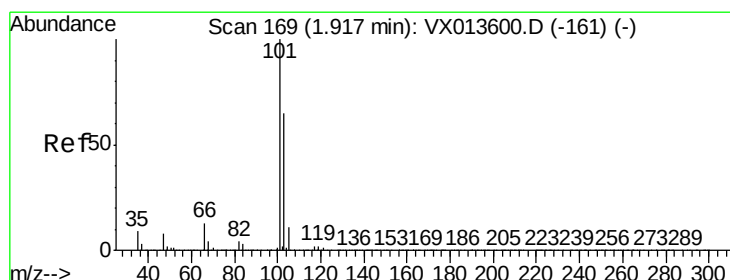
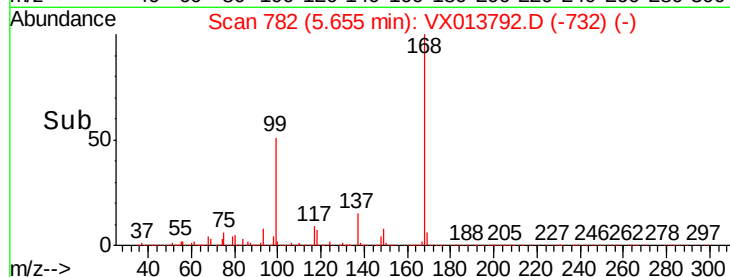
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#7

Trichlorofluoromethane

Concen: 0.210 ug/l

RT: 1.92 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX013792.D

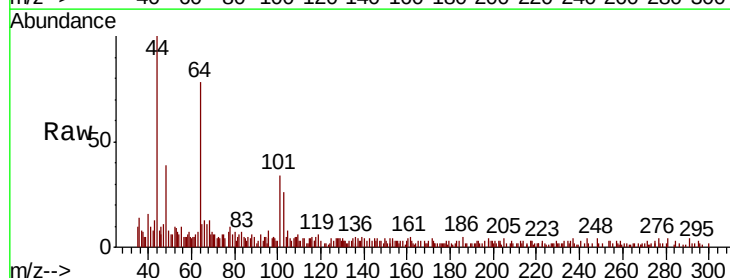
Acq: 06 Dec 2019 12:23

Tgt Ion:101 Resp: 2137

Ion Ratio Lower Upper

101 100

103 70.1 51.8 77.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1500

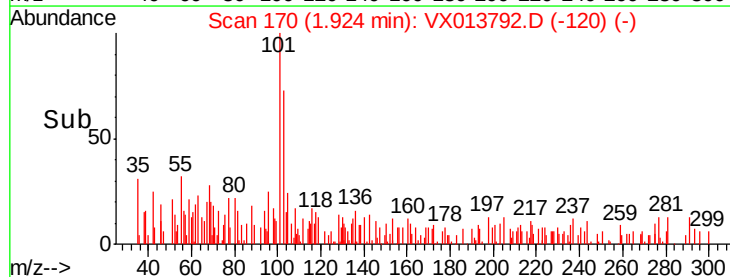
1000

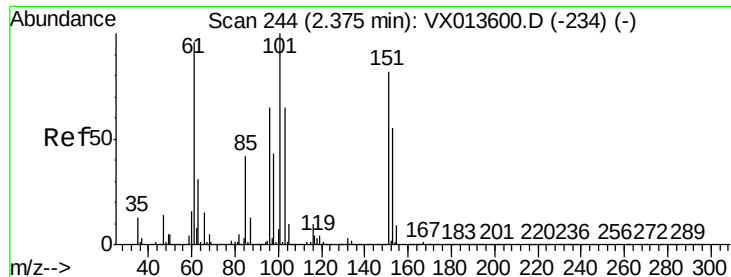
500

0

1.90 1.95

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.649 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

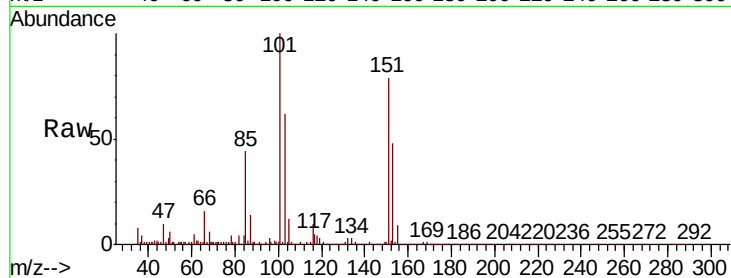
Tot Ion:101 Resp: 78439

Ion Ratio Lower Upper

101 100

85 42.2 33.9 50.9

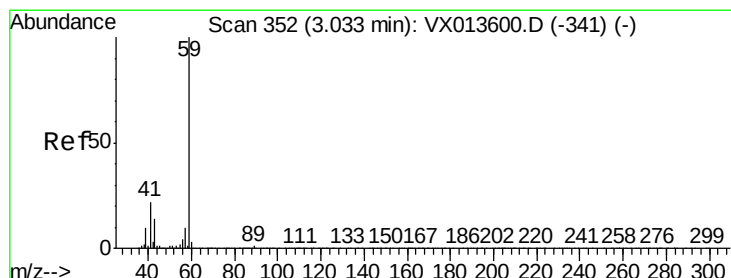
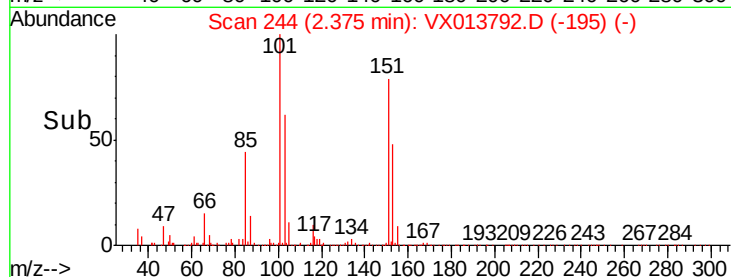
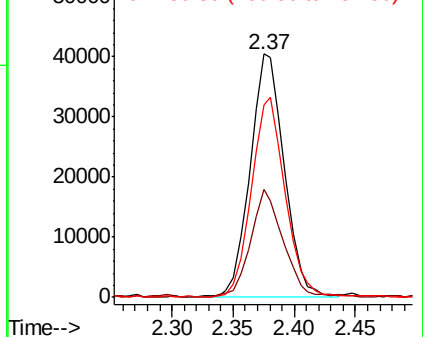
151 81.5 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 2.517 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013792.D

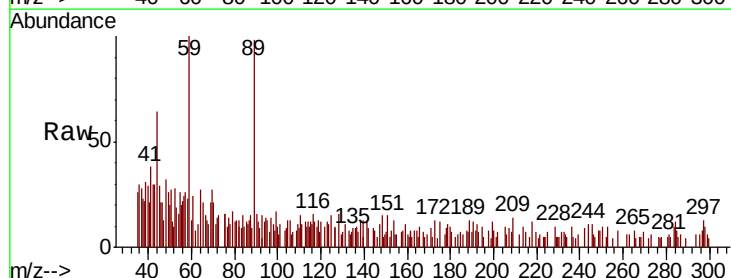
Acq: 06 Dec 2019 12:23

Tgt Ion: 59 Resp: 4690

Ion Ratio Lower Upper

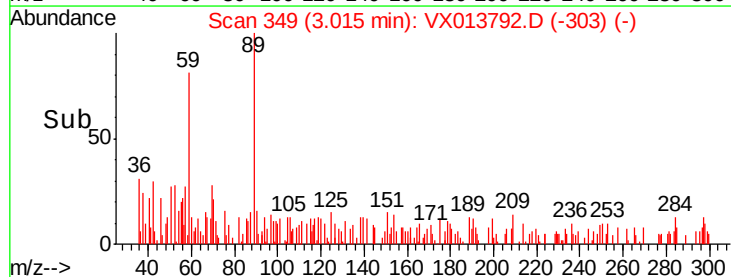
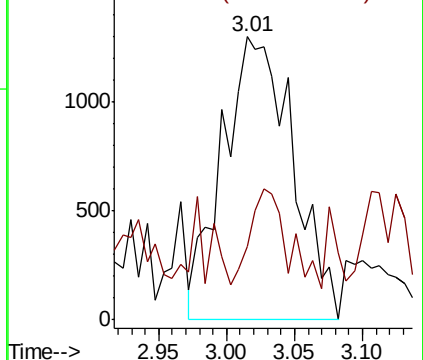
59 100

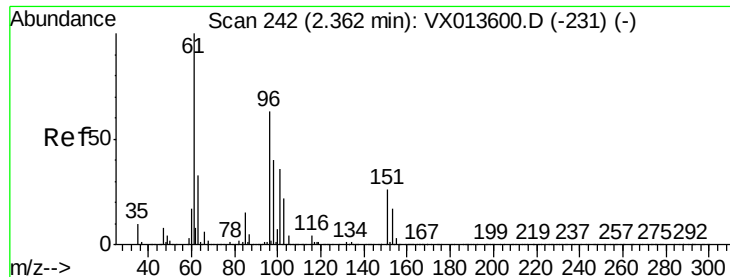
57 18.4 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.513 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

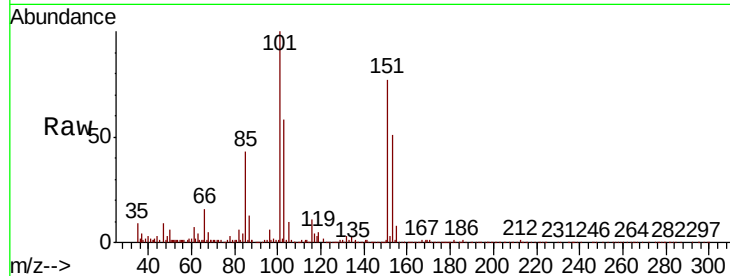
Tot Ion: 96 Resp: 3174

Ion Ratio Lower Upper

96 100

61 95.1 126.6 190.0#

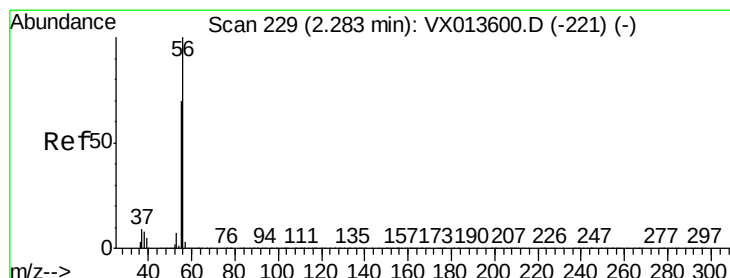
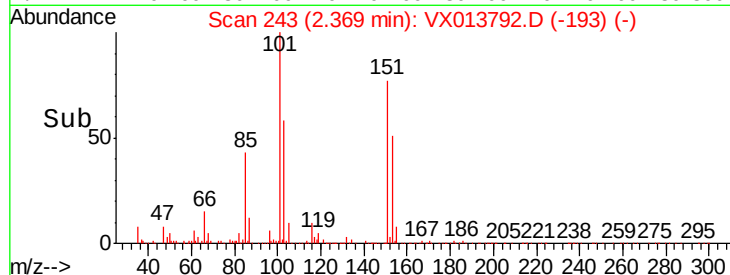
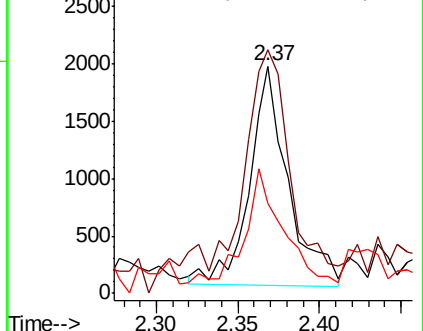
98 37.1 50.6 76.0#



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



#13

Acrolein

Concen: 6.212 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013792.D

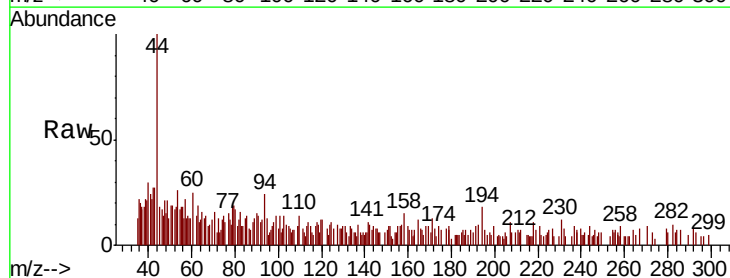
Acq: 06 Dec 2019 12:23

Tgt Ion: 56 Resp: 266

Ion Ratio Lower Upper

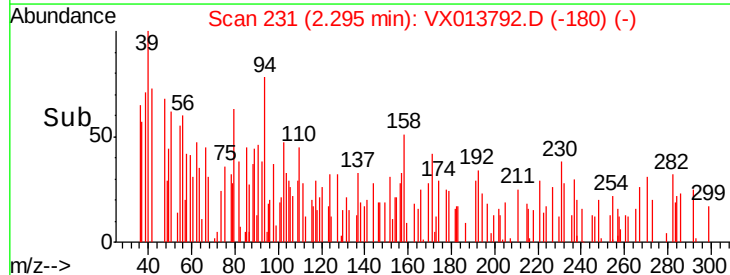
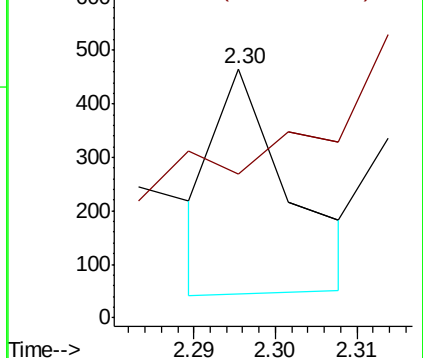
56 100

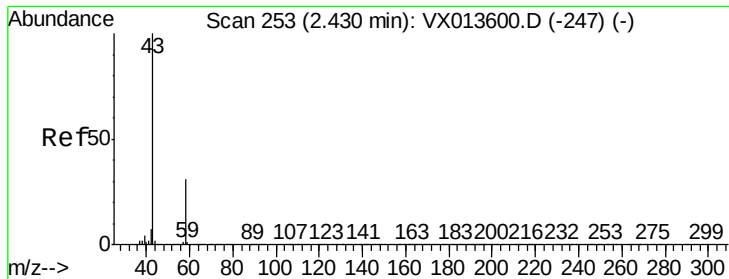
55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

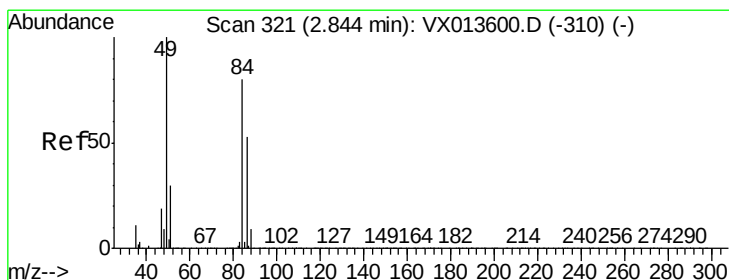
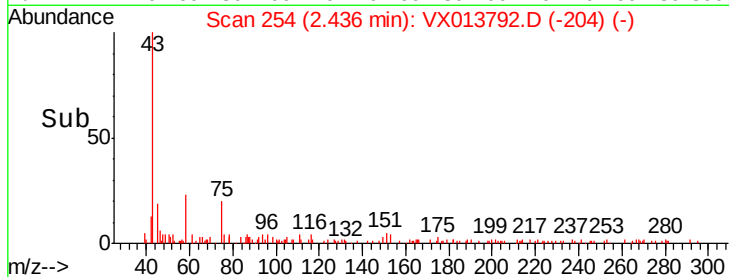
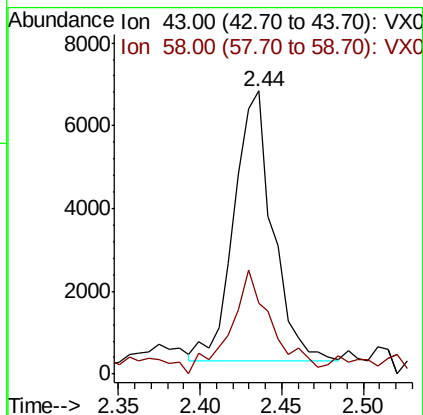
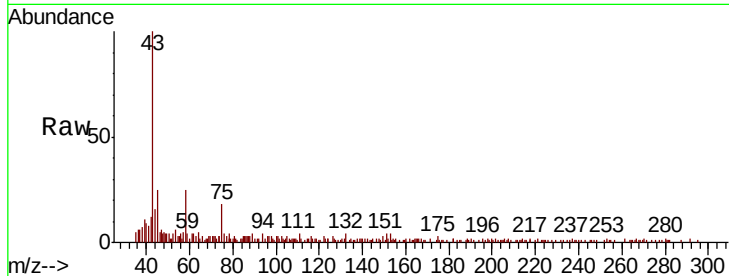




#16
Acetone
Concen: 2.871 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013792.D
Acq: 06 Dec 2019 12:23

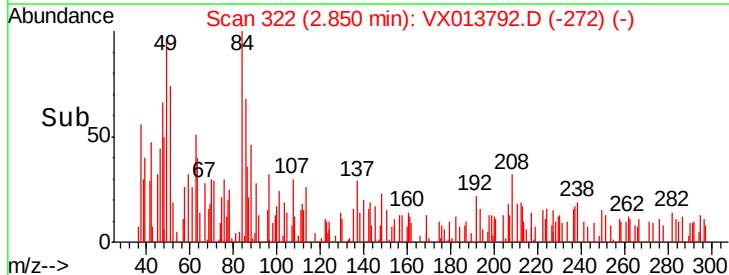
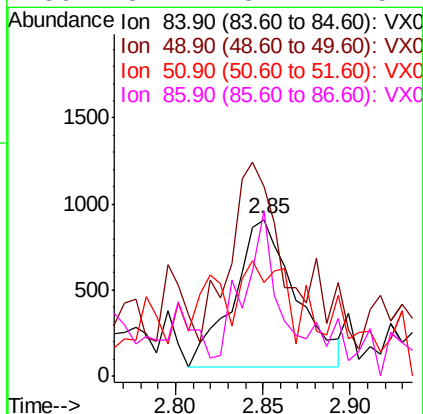
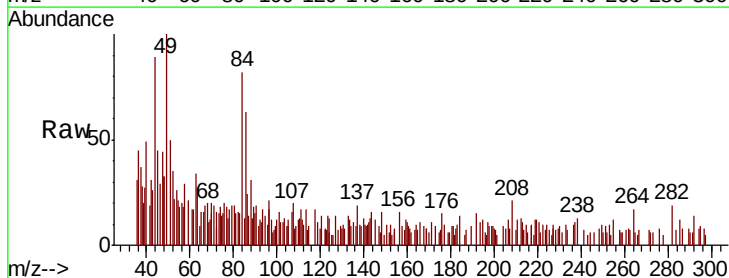
Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20191202

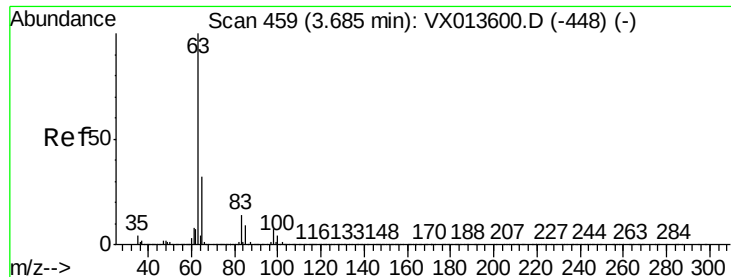
Tot Ion: 43 Resp: 10703
Ion Ratio Lower Upper
43 100
58 26.5 24.6 36.8



#20
Methylene Chloride
Concen: 0.294 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013792.D
Acq: 06 Dec 2019 12:23

Tgt Ion: 84 Resp: 2103
Ion Ratio Lower Upper
84 100
49 87.3 99.7 149.5#
51 33.2 29.9 44.9
86 81.1 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 0.223 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

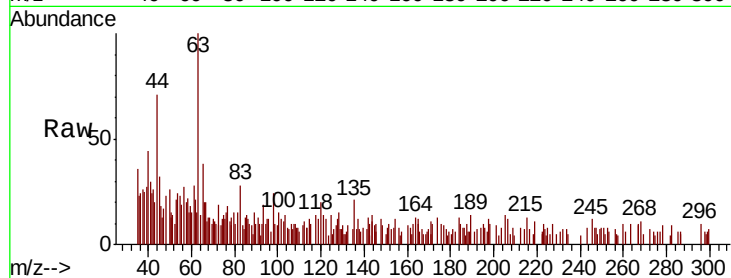
Tot Ion: 63 Resp: 2635

Ion Ratio Lower Upper

63 100

98 48.5 3.5 10.4#

100 8.6 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.69

1500

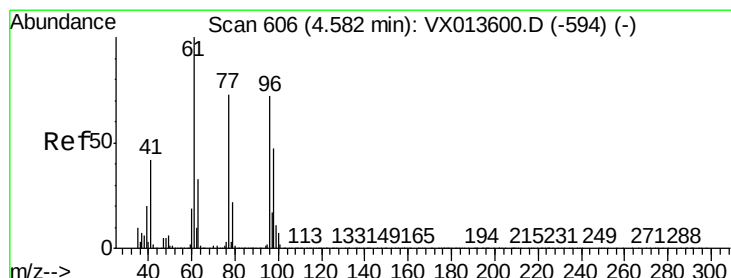
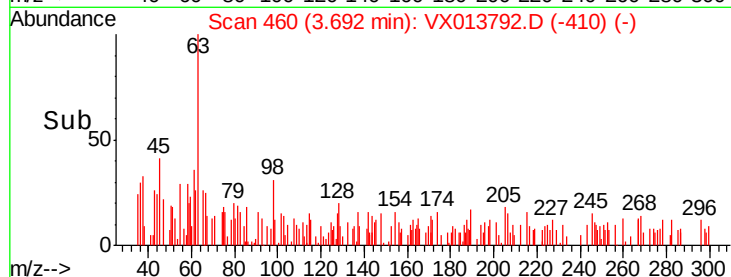
1000

500

0

Time-->

3.65 3.70 3.75



#27

cis-1,2-Dichloroethene

Concen: 1.692 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

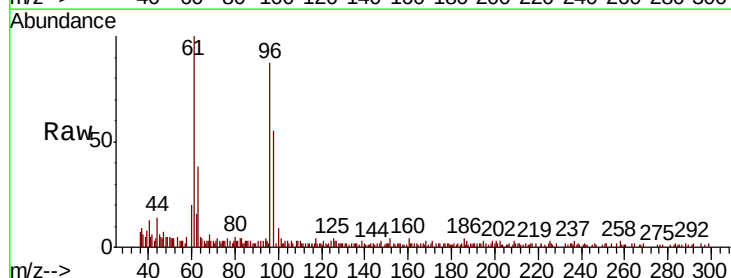
Tgt Ion: 96 Resp: 13103

Ion Ratio Lower Upper

96 100

61 133.6 0.0 286.4

98 67.7 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

8000

6000

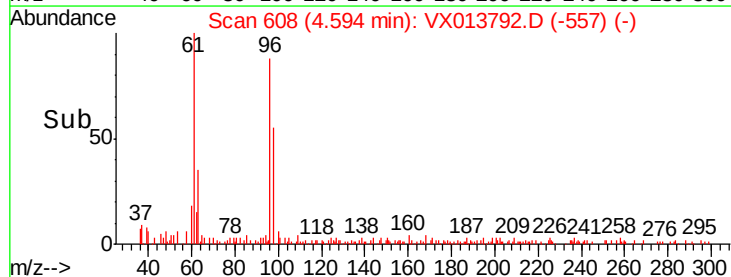
4000

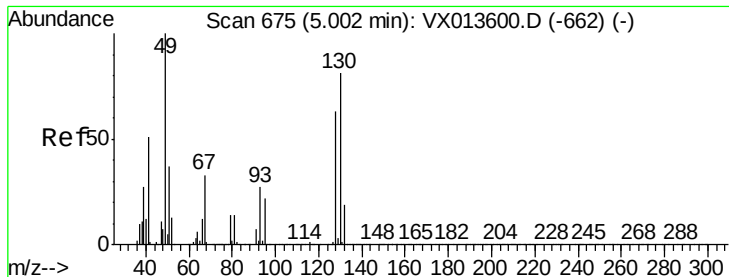
2000

0

Time-->

4.50 4.55 4.60 4.65





#28

Bromochloromethane

Concen: 0.312 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

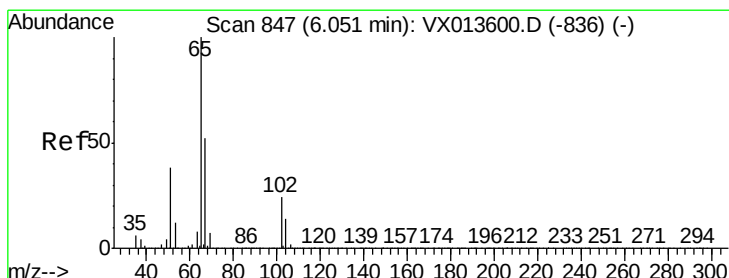
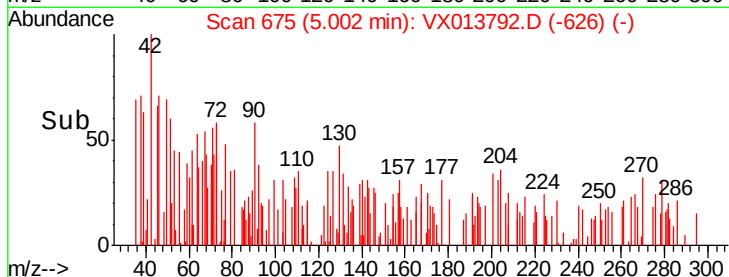
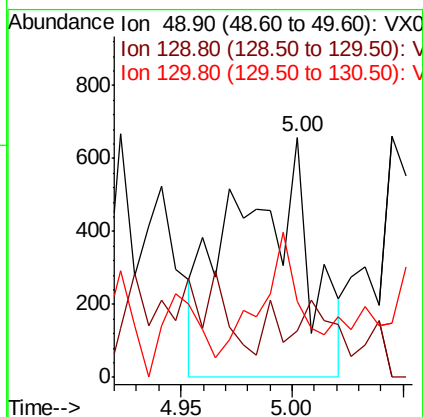
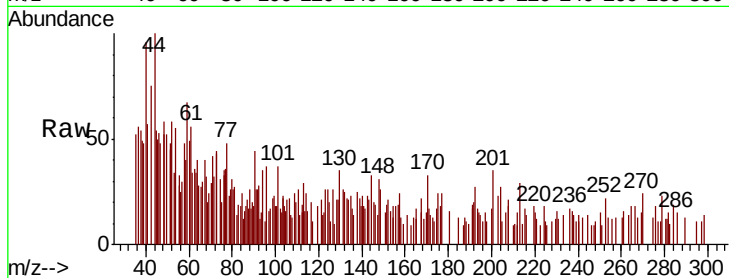
Tot Ion: 49 Resp: 1517

Ion Ratio Lower Upper

49 100

129 19.7 0.0 5.0#

130 30.5 65.4 98.0#



#33

1,2-Dichloroethane-d4

Concen: 47.211 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013792.D

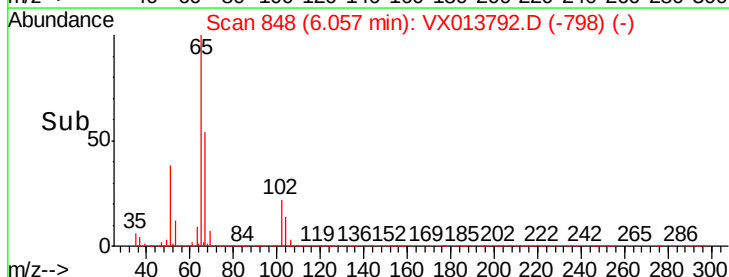
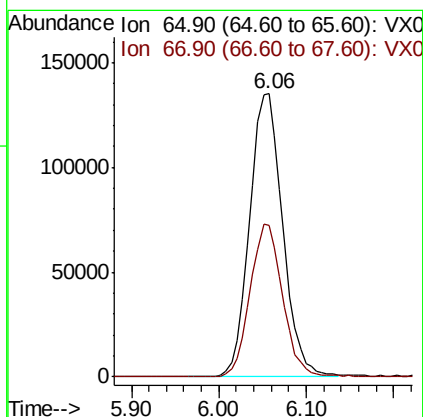
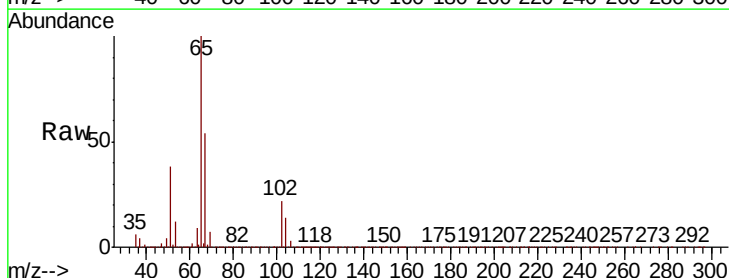
Acq: 06 Dec 2019 12:23

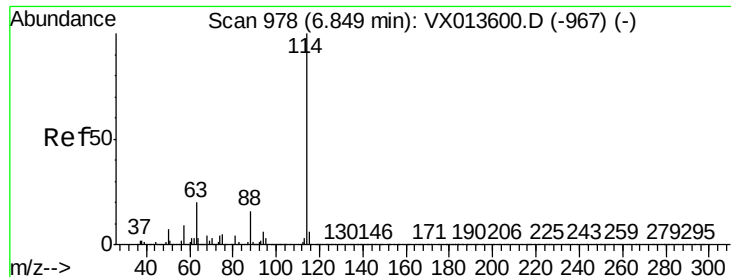
Tgt Ion: 65 Resp: 356443

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.4

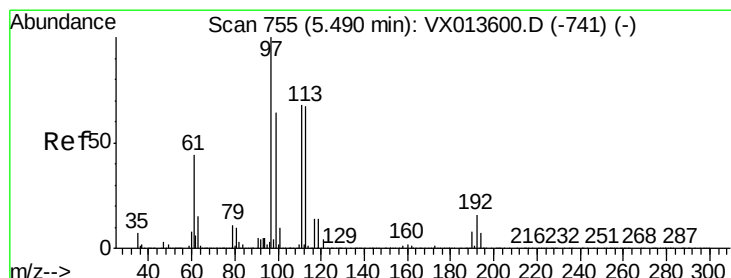
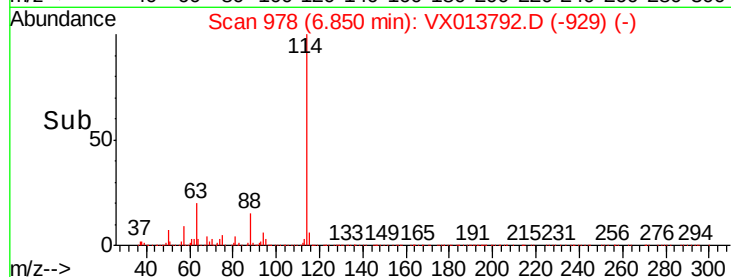
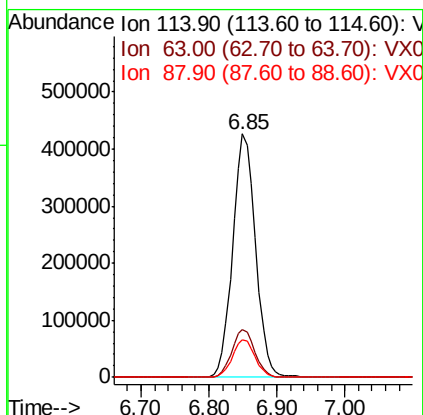
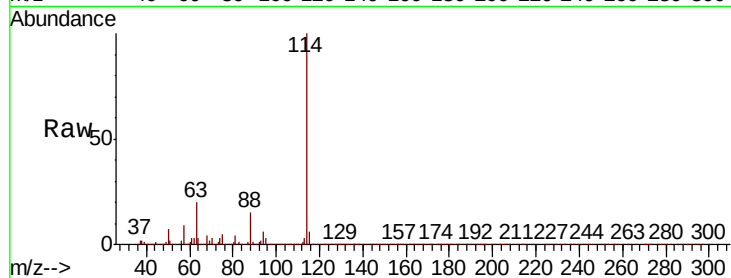




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013792.D
 Acq: 06 Dec 2019 12:23

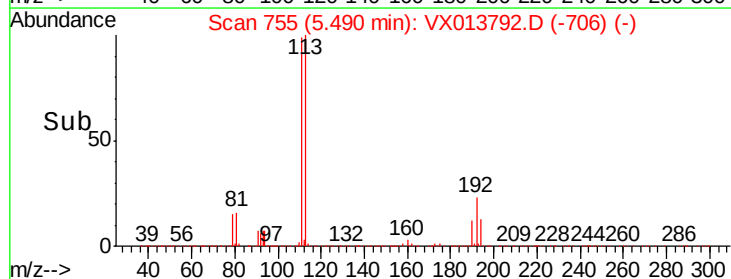
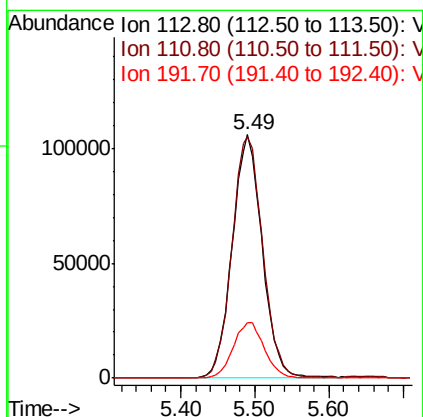
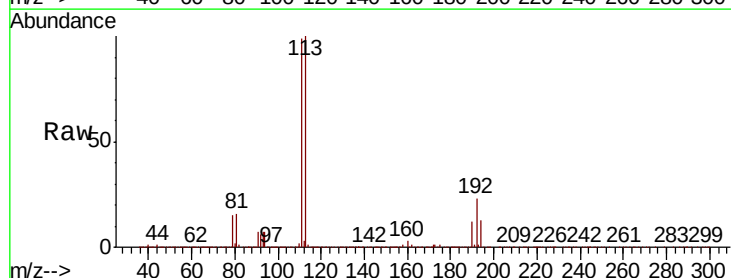
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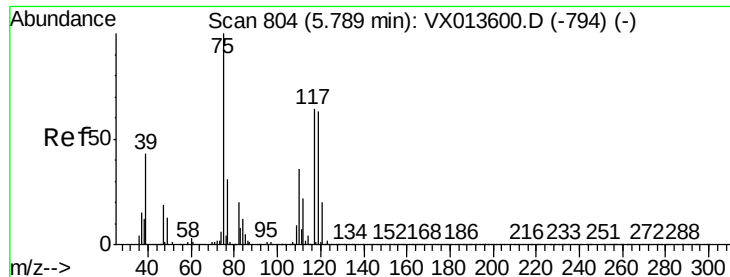
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	15.4	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 48.331 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX013792.D
 Acq: 06 Dec 2019 12:23

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.6	125.4
192	23.9	19.2	28.8





#36

1,1-Dichloropropene

Concen: 4.784 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

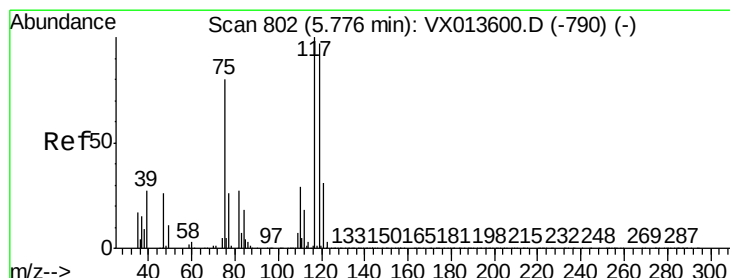
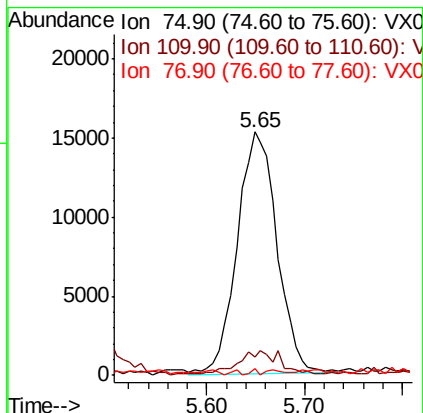
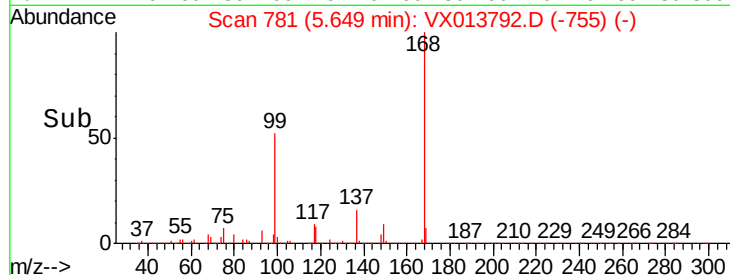
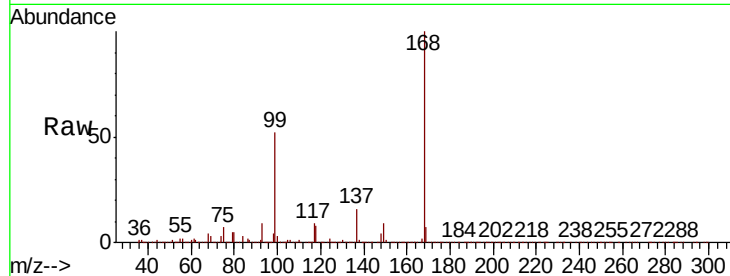
Tot Ion: 75 Resp: 43139

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.1#

77 0.5 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.813 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

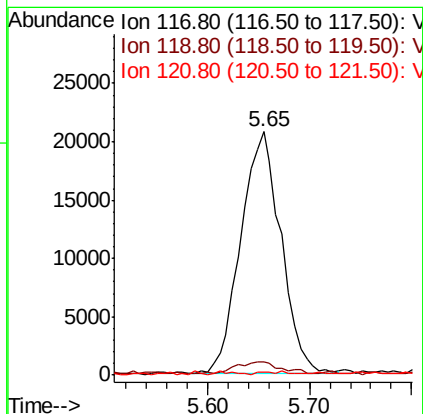
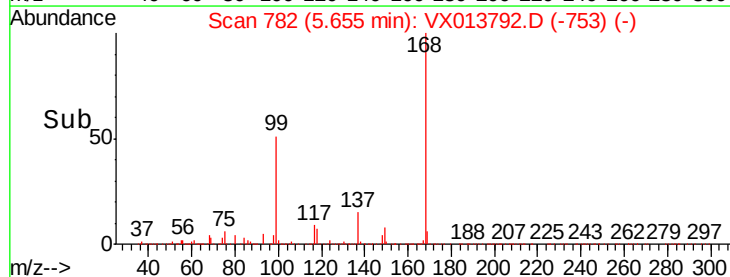
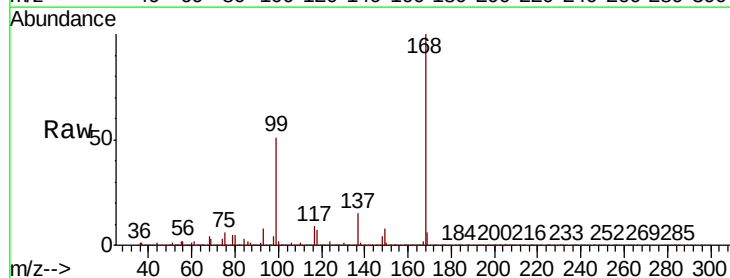
Tgt Ion: 117 Resp: 56643

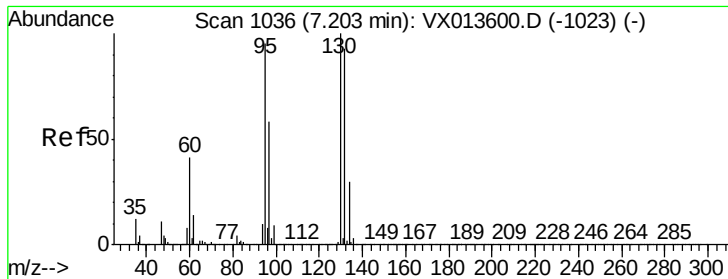
Ion Ratio Lower Upper

117 100

119 4.5 77.5 116.3#

121 0.6 25.0 37.6#





#44

Trichloroethene

Concen: 97.771 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

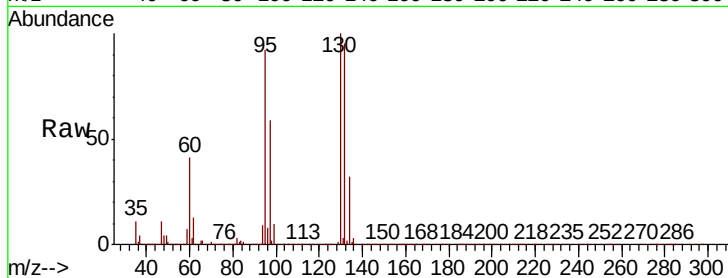
RE134D2-20191202

Tot Ion:130 Resp: 736890

Ion Ratio Lower Upper

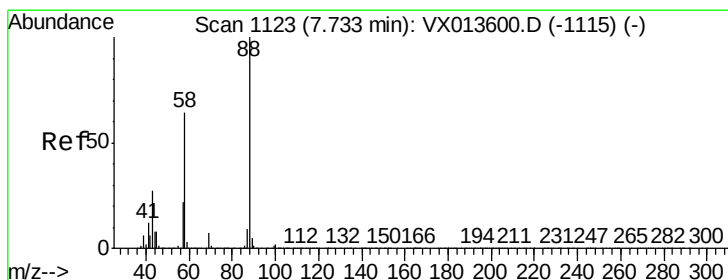
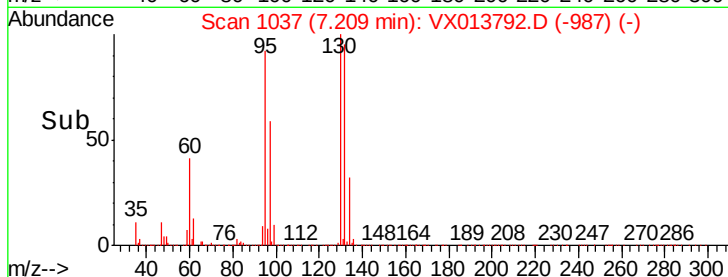
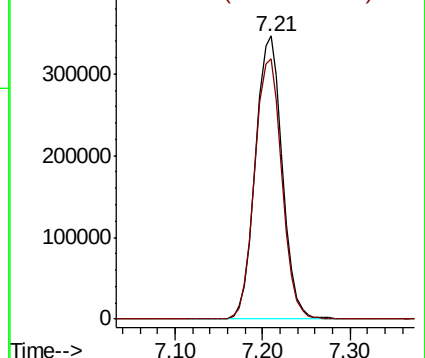
130 100

95 91.9 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: 21.329 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

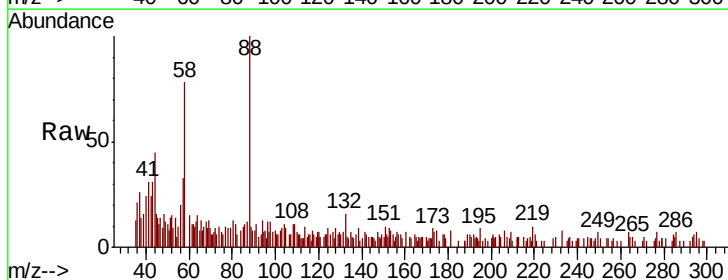
Tgt Ion: 88 Resp: 3863

Ion Ratio Lower Upper

88 100

43 38.7 25.8 38.6#

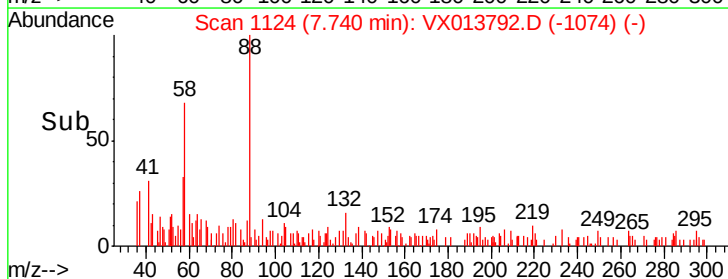
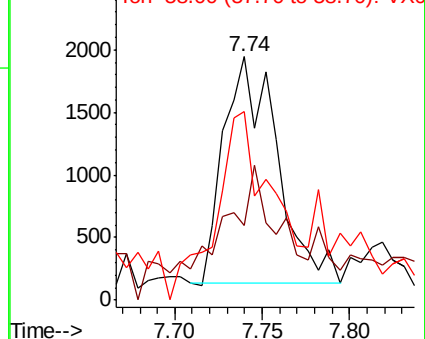
58 89.9 54.6 82.0#

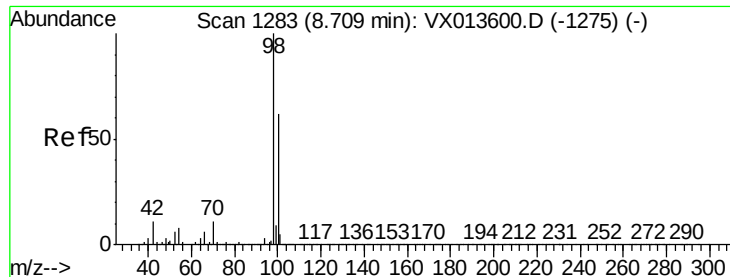


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.942 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

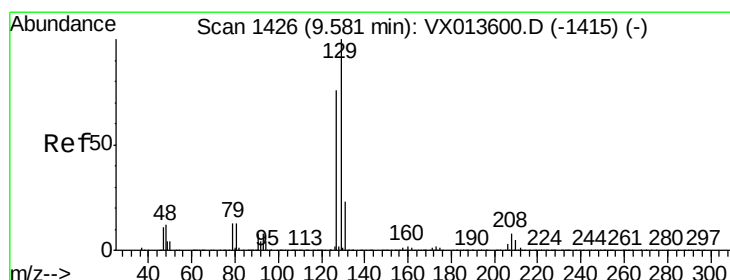
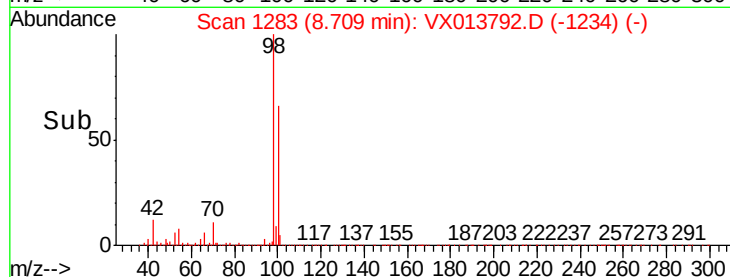
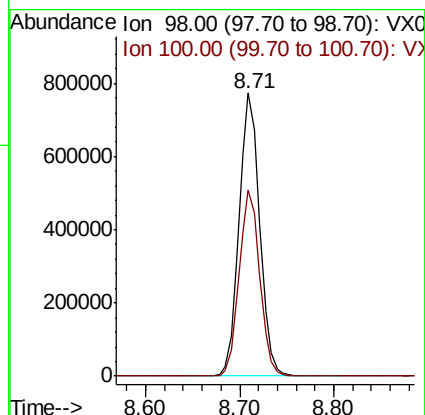
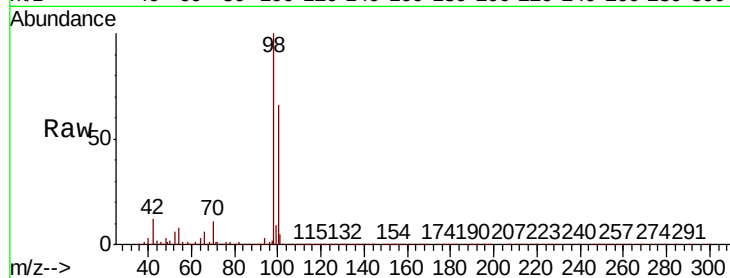
RE134D2-20191202

Tot Ion: 98 Resp: 1170935

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



#60

Dibromochloromethane

Concen: 8.224 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013792.D

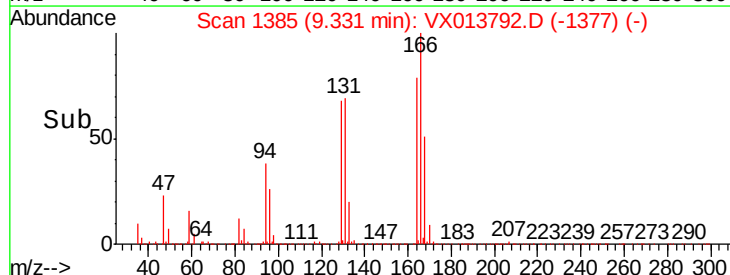
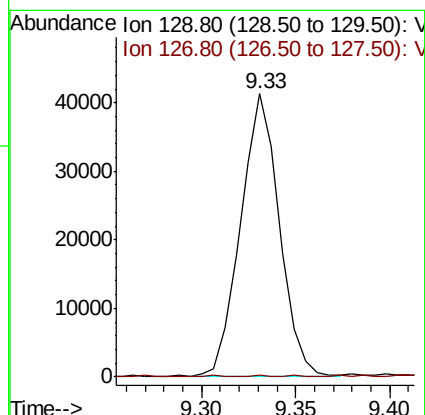
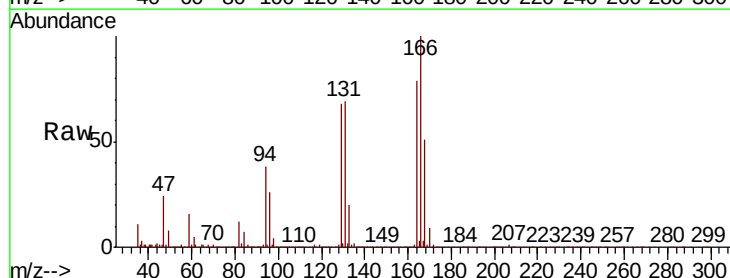
Acq: 06 Dec 2019 12:23

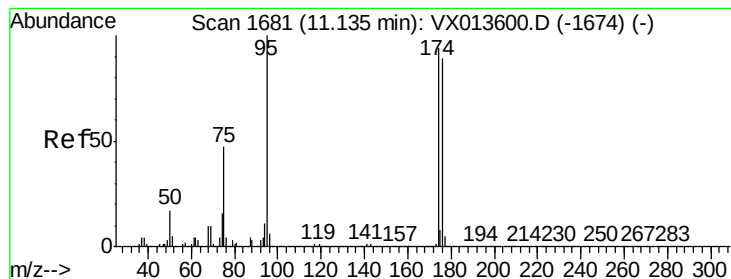
Tgt Ion:129 Resp: 58676

Ion Ratio Lower Upper

129 100

127 0.2 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 45.435 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

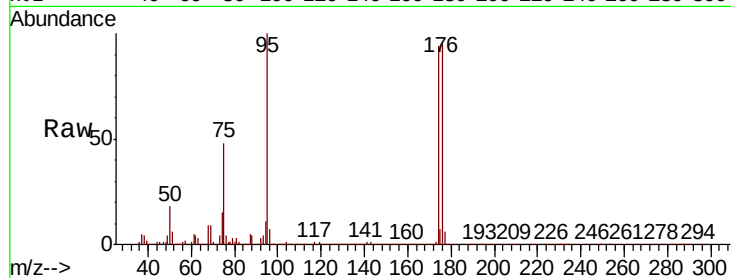
Tot Ion: 95 Resp: 391987

Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.0

176 88.5 0.0 173.6

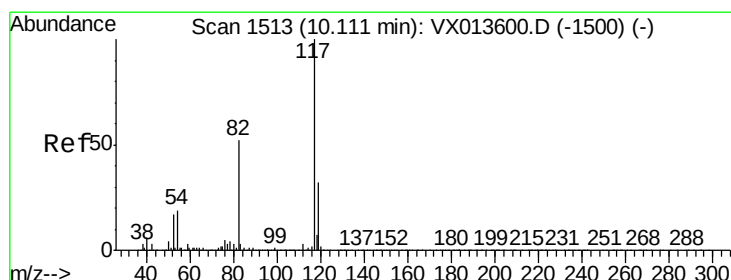
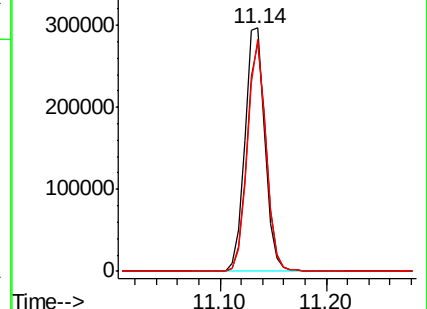
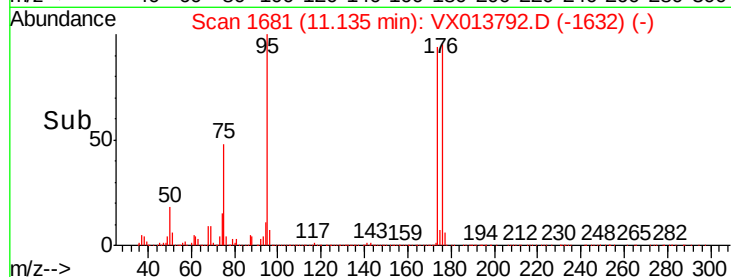


Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

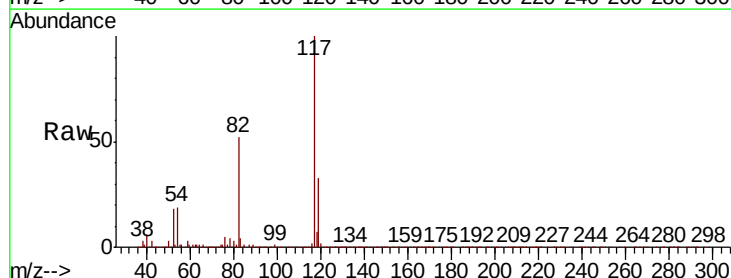
Tgt Ion: 117 Resp: 876243

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.8

119 33.0 25.8 38.8

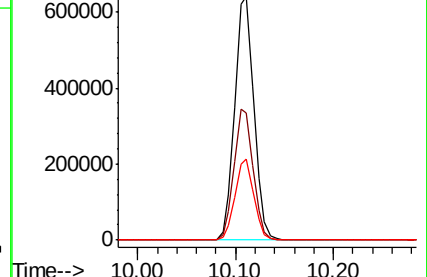
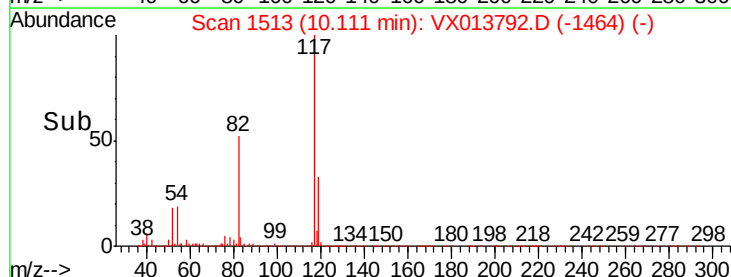


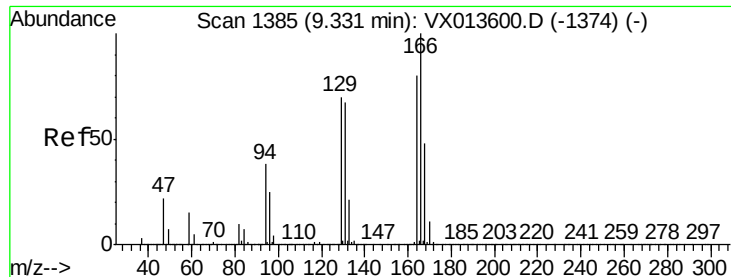
Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)

Time-->





#64

Tetrachloroethene

Concen: 10.711 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

RE134D2-20191202

Tot Ion:164 Resp: 69993

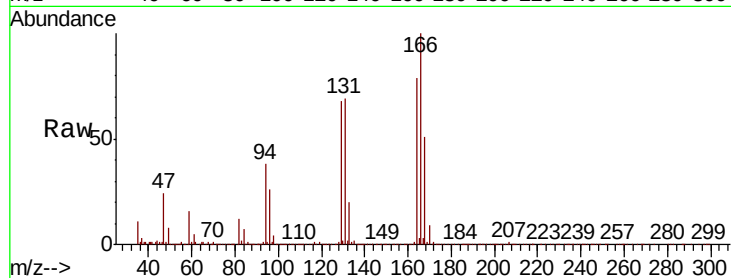
Ion Ratio Lower Upper

164 100

166 126.4 99.7 149.5

129 86.3 70.1 105.1

131 87.5 66.9 100.3

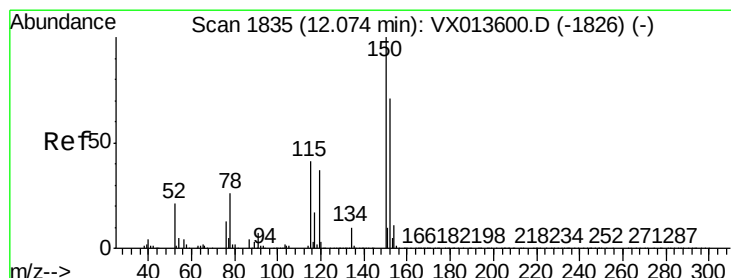
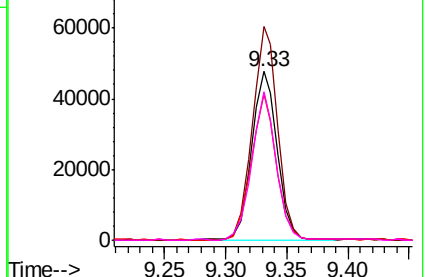
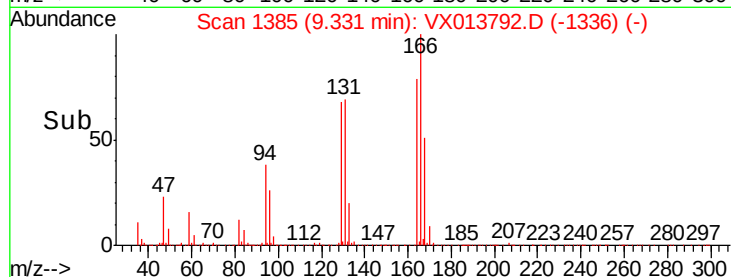


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

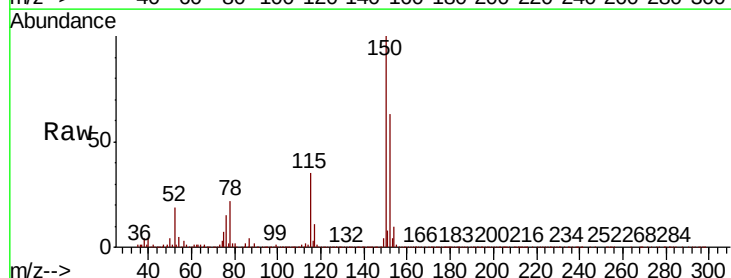
Tgt Ion:152 Resp: 388593

Ion Ratio Lower Upper

152 100

115 55.6 38.4 115.1

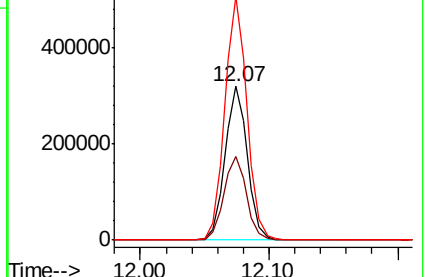
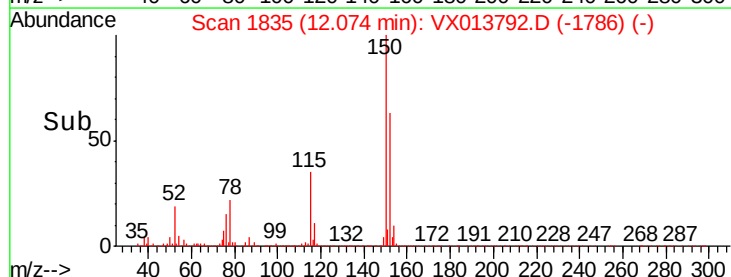
150 157.7 0.0 346.8

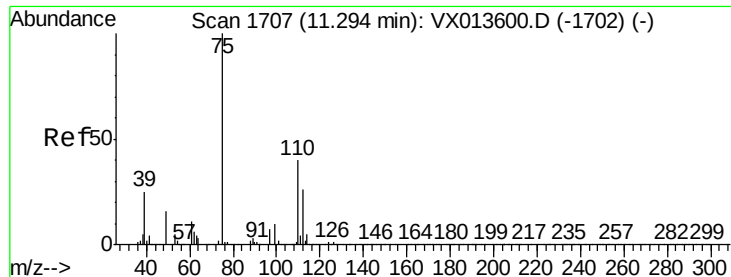


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.000 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Instrument :

MSVOA_X

ClientSampleId :

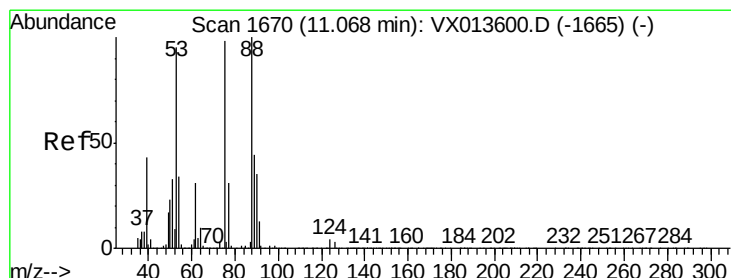
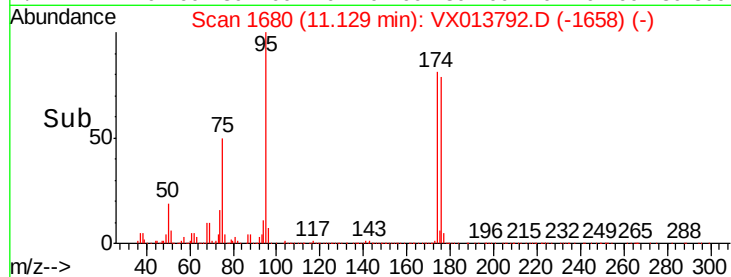
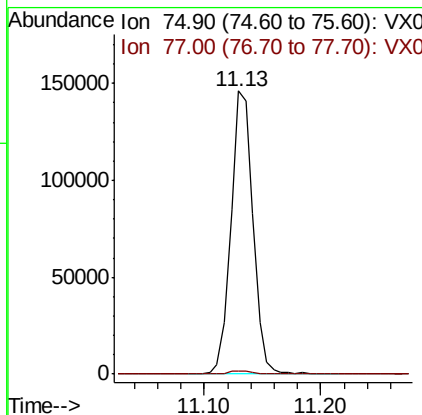
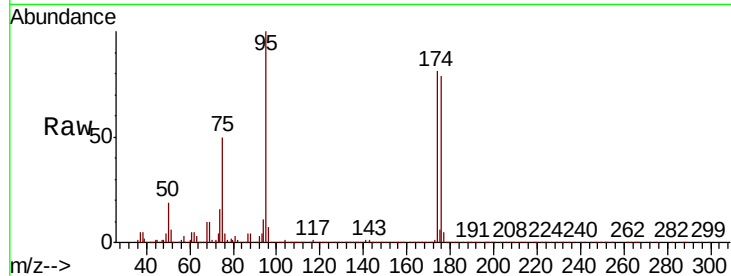
RE134D2-20191202

Tot Ion: 75 Resp: 192281

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.187 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013792.D

Acq: 06 Dec 2019 12:23

Tgt Ion: 75 Resp: 192281

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.1 35.4 53.2#

