

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013820.D
 Acq On : 07 Dec 2019 00:01
 Operator : JC/SP
 Sample : K6184-14 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20191203DL

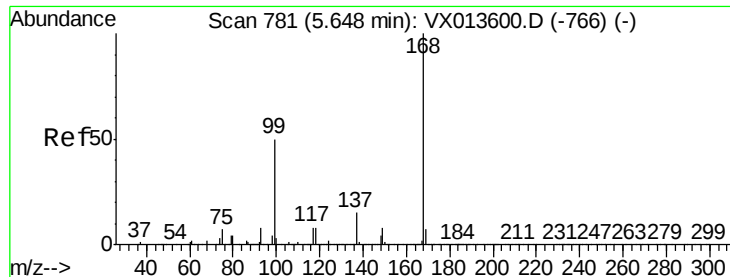
Quant Time: Dec 07 02:45:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	615714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	936292	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	840393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	364714	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	339042	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
35) Dibromofluoromethane	5.49	113	277875	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	8.71	98	1108020	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.13	95	374729	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3017	0.514	ug/l #	73
11) Tert butyl alcohol	3.01	59	12611	7.149	ug/l #	76
12) 1,1-Dichloroethene	2.37	96	1712	0.292	ug/l #	60
13) Acrolein	2.28	56	354	6.297	ug/l #	15
16) Acetone	2.43	43	10986	3.113	ug/l	90
20) Methylene Chloride	2.86	84	2288	0.338	ug/l #	88
25) 2-Butanone	4.69	43	2405	0.459	ug/l #	52
29) Tetrahydrofuran	4.87	42	891	0.276	ug/l	94
36) 1,1-Dichloropropene	5.65	75	41509	4.884	ug/l #	49
38) Carbon Tetrachloride	5.65	117	52678	6.722	ug/l #	16
44) Trichloroethene	7.21	130	1162210	163.594	ug/l	97
49) 1,4-Dioxane	7.74	88	201	1.177	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2295	0.232	ug/l #	35
76) 1,2,3-Trichloropropane	11.13	75	180024	21.946	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	180024	60.040	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013820.D

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MSVOA_X

ClientSampleId :

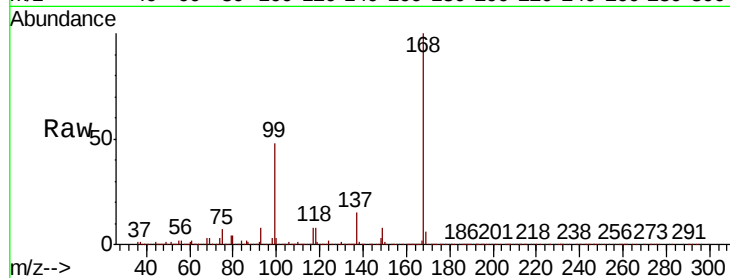
RE122D2-20191203DL

Tot Ion:168 Resp: 615714

Ion Ratio Lower Upper

168 100

99 48.1 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

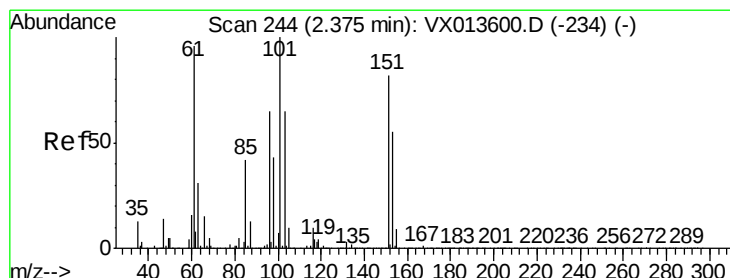
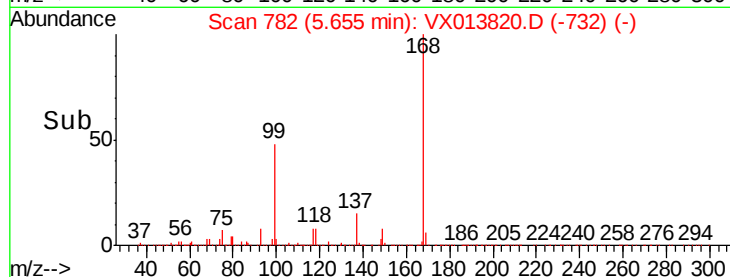
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.514 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

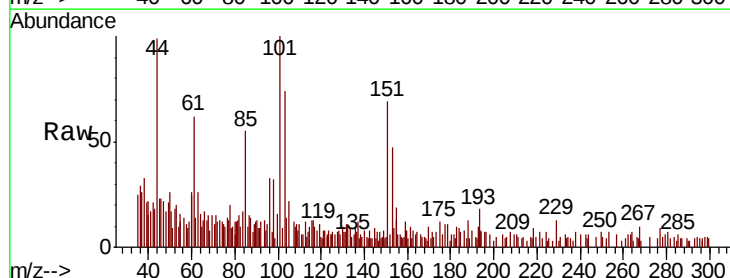
Tgt Ion:101 Resp: 3017

Ion Ratio Lower Upper

101 100

85 41.1 33.9 50.9

151 115.1 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

2000

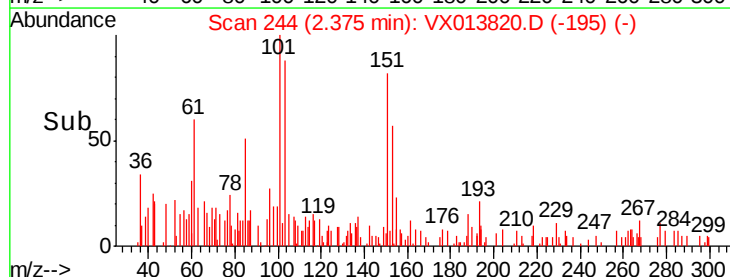
1500

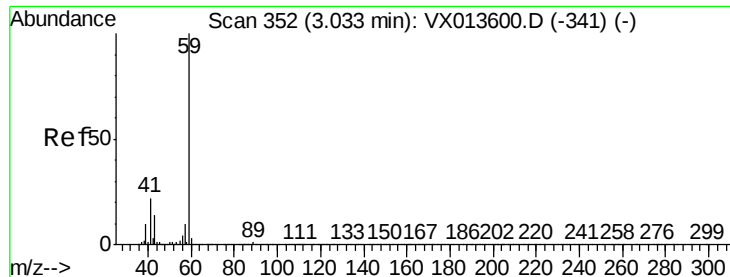
1000

500

0

Time-->



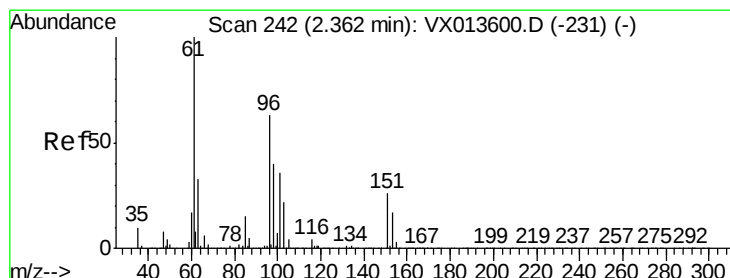
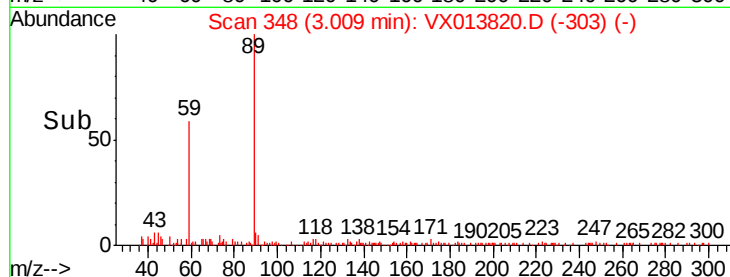
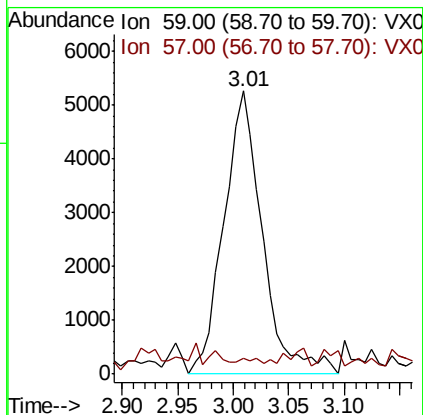
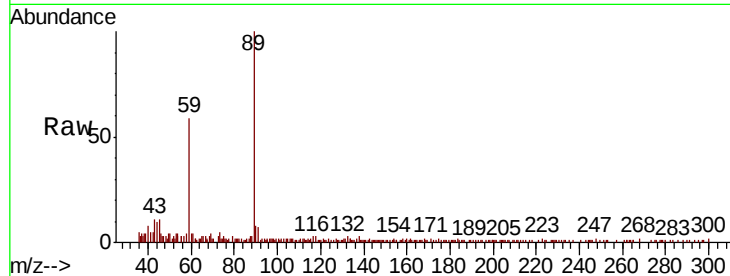


#11

Tert butyl alcohol
Concen: 7.149 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

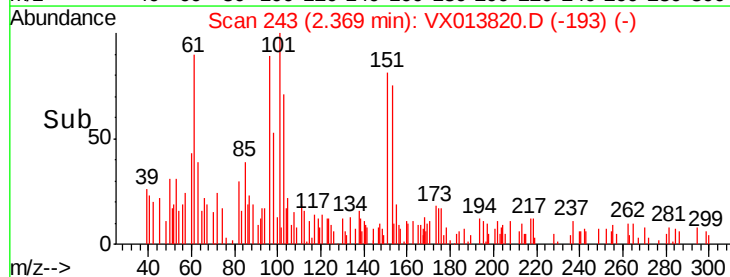
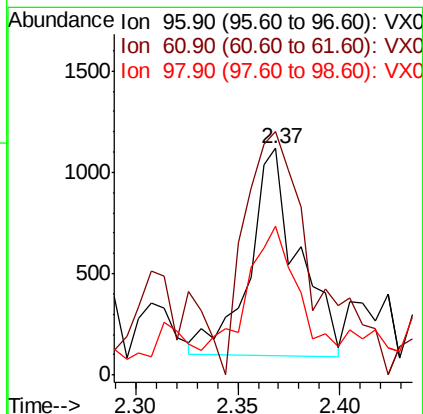
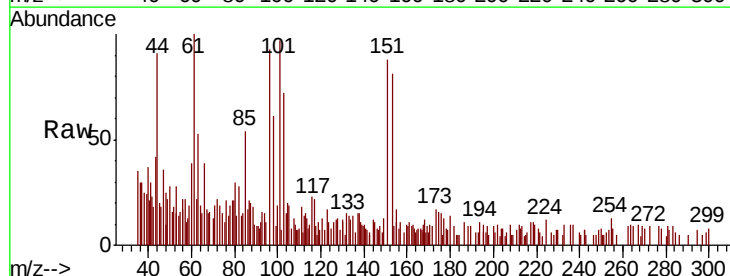
Tot Ion: 59 Resp: 12611
Ion Ratio Lower Upper
59 100
57 0.7 7.8 11.6#

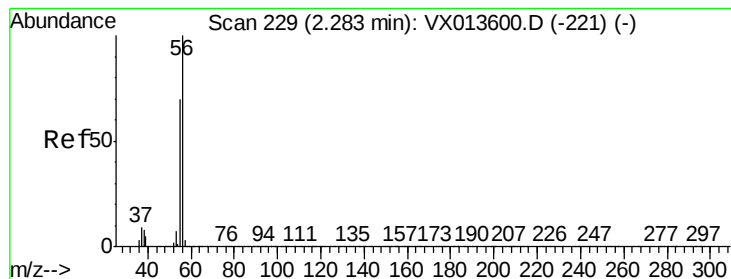


#12

1,1-Dichloroethene
Concen: 0.292 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

Tgt Ion: 96 Resp: 1712
Ion Ratio Lower Upper
96 100
61 87.6 126.6 190.0#
98 60.5 50.6 76.0





#13

Acrolein

Concen: 6.297 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

Instrument :

MSVOA_X

ClientSampleId :

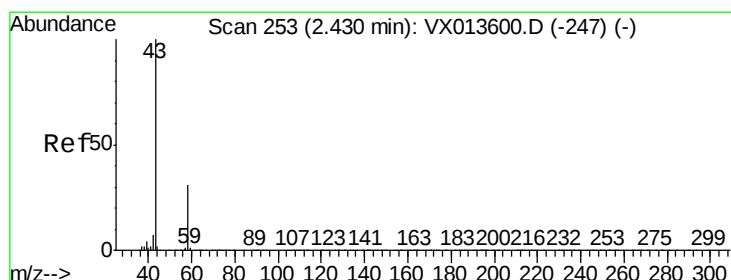
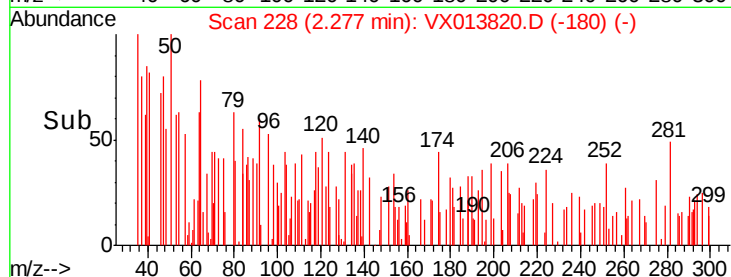
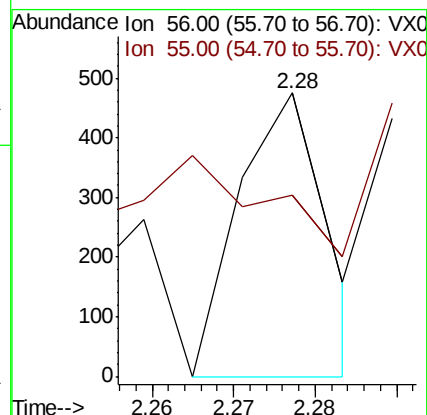
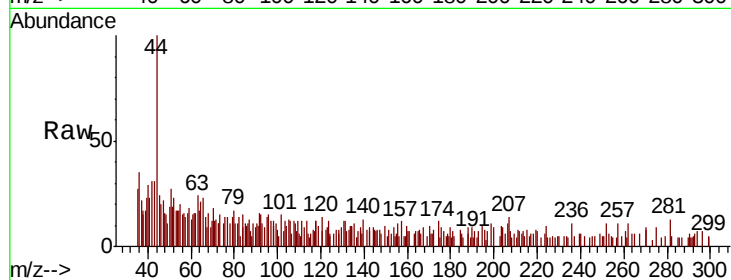
RE122D2-20191203DL

Tot Ion: 56 Resp: 354

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#16

Acetone

Concen: 3.113 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013820.D

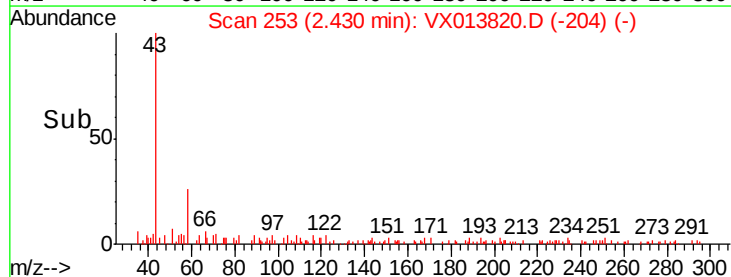
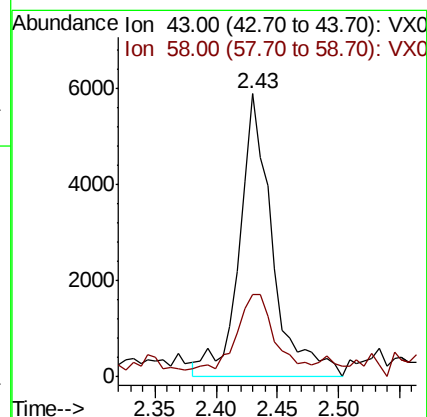
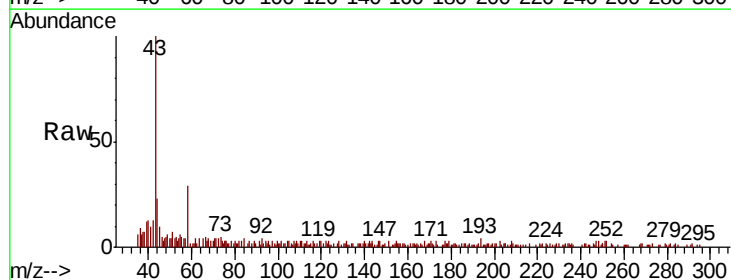
Acq: 07 Dec 2019 00:01

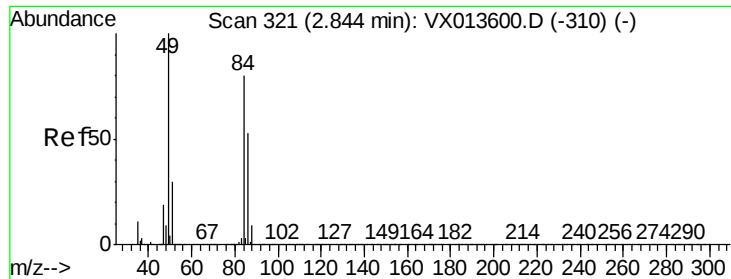
Tgt Ion: 43 Resp: 10986

Ion Ratio Lower Upper

43 100

58 25.4 24.6 36.8

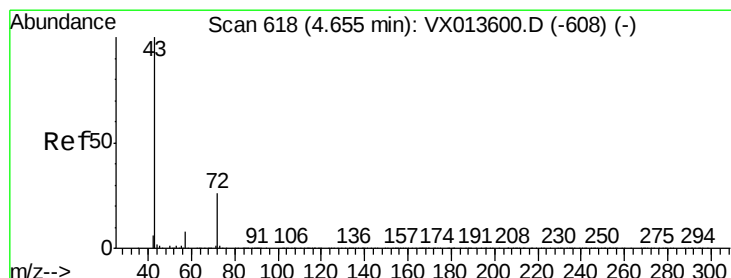
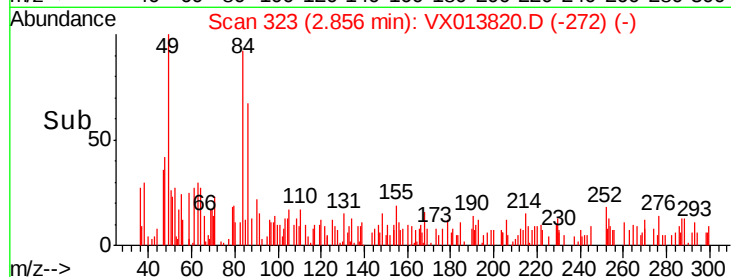
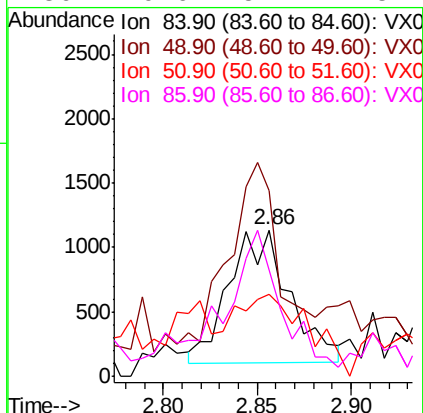
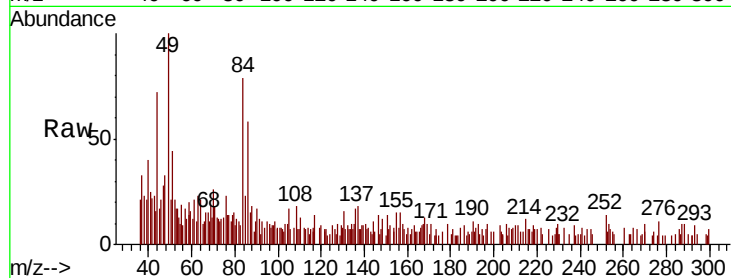




#20
Methvlene Chloride
Concen: 0.338 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

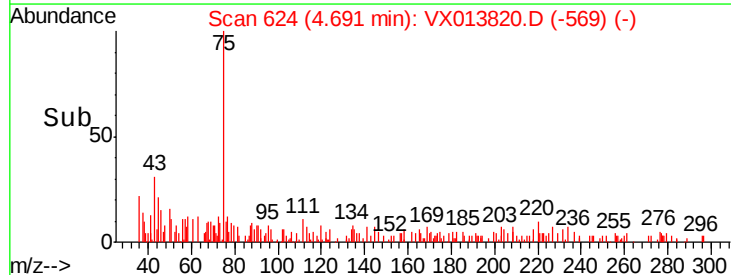
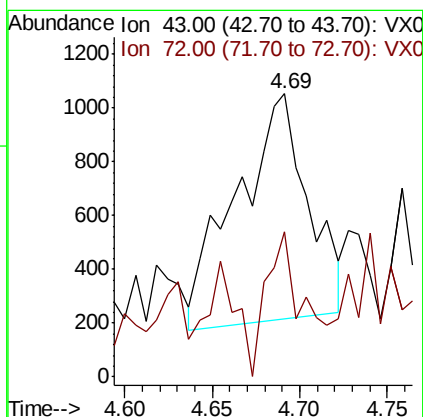
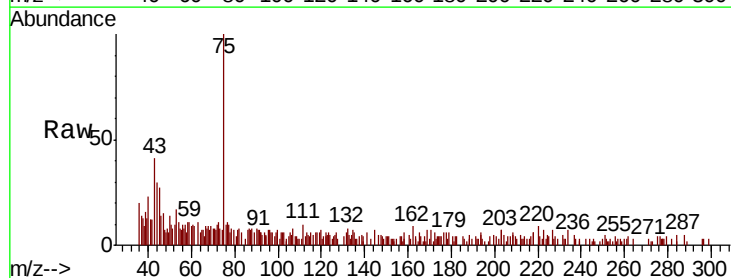
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

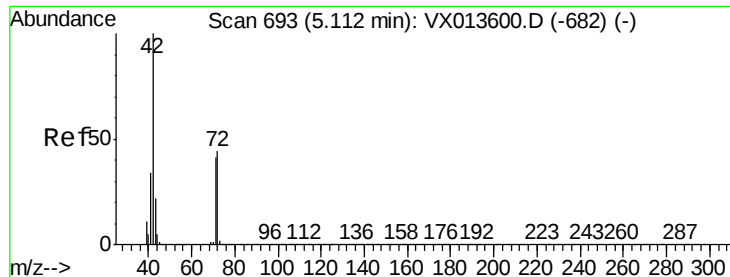
Tot Ion: 84 Resp: 2288
Ion Ratio Lower Upper
84 100
49 115.8 99.7 149.5
51 47.3 29.9 44.9#
86 79.6 52.2 78.4#



#25
2-Butanone
Concen: 0.459 ug/l
RT: 4.69 min Scan# 624
Delta R.T. 0.04 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

Tgt Ion: 43 Resp: 2405
Ion Ratio Lower Upper
43 100
72 50.4 20.6 31.0#

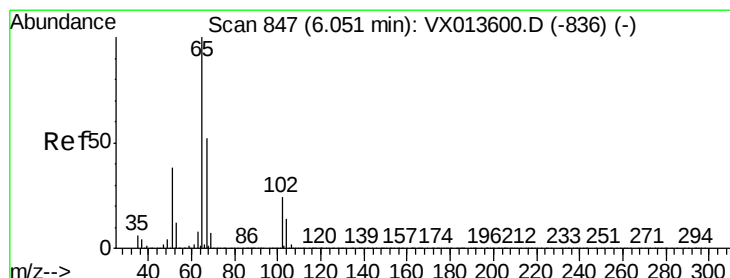
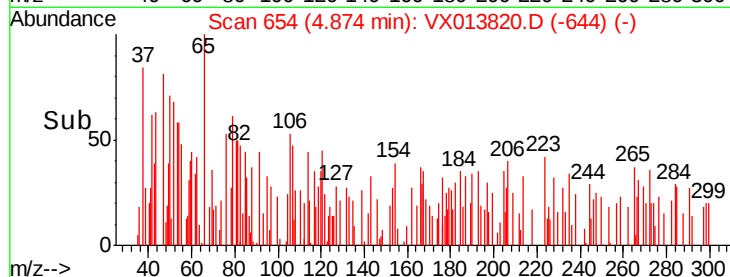
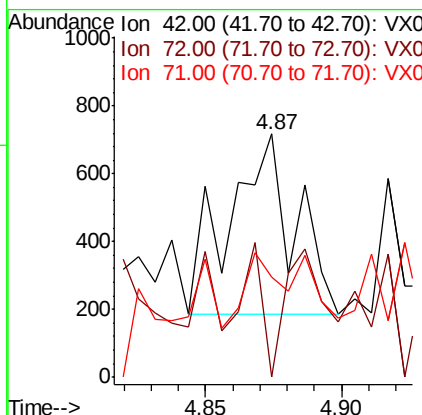
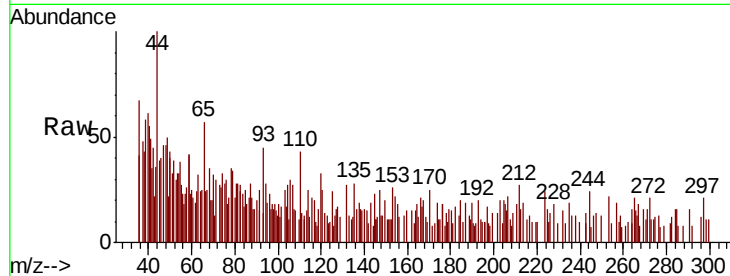




#29
Tetrahydrofuran
Concen: 0.276 ug/l
RT: 4.87 min Scan# 654
Delta R.T. -0.24 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

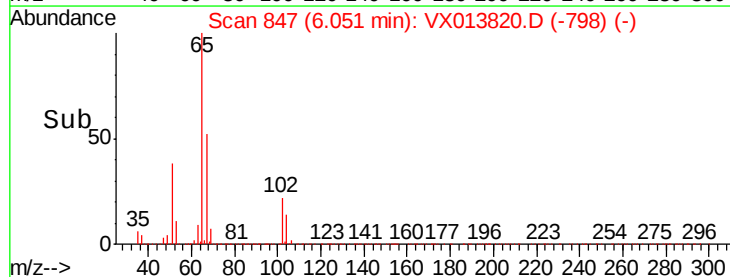
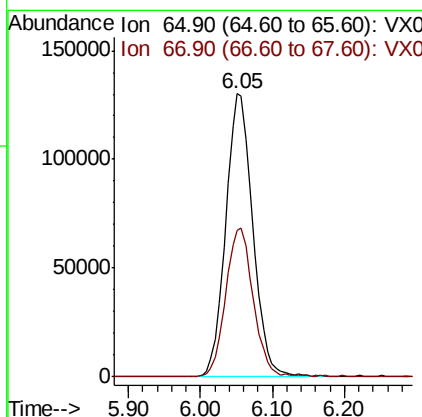
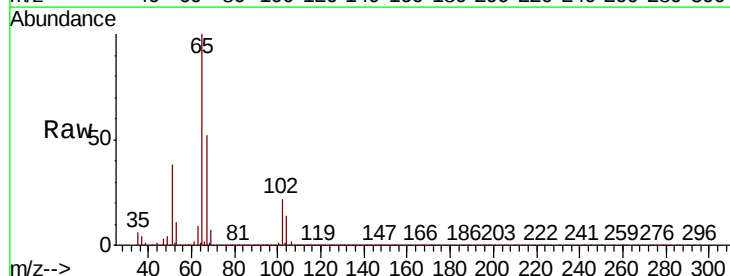
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

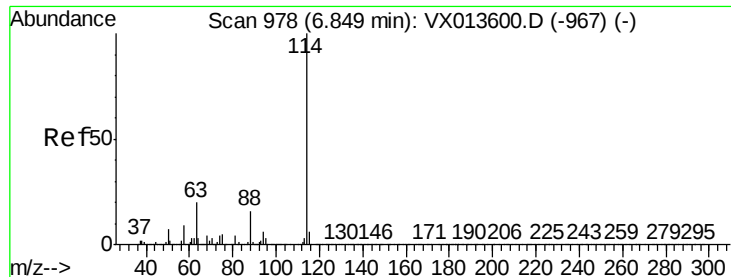
Tot Ion: 42 Resp: 891
Ion Ratio Lower Upper
42 100
72 43.9 36.3 54.5
71 35.2 33.2 49.8



#33
1,2-Dichloroethane-d4
Concen: 47.438 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

Tgt Ion: 65 Resp: 339042
Ion Ratio Lower Upper
65 100
67 53.2 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: VX013820.D

Acq: 07 Dec 2019 00:01

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

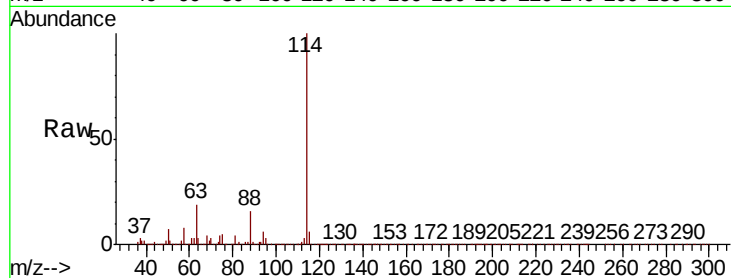
Tot Ion:114 Resp: 936292

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

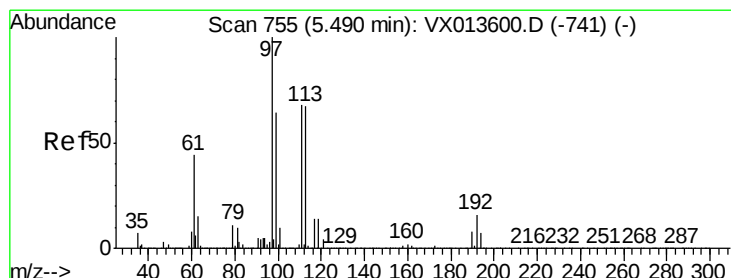
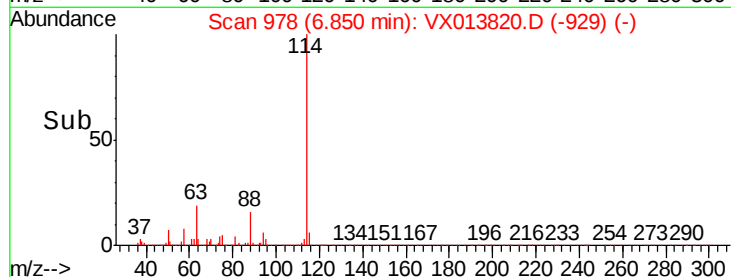
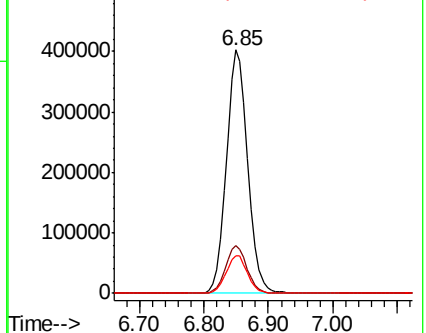
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.007 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

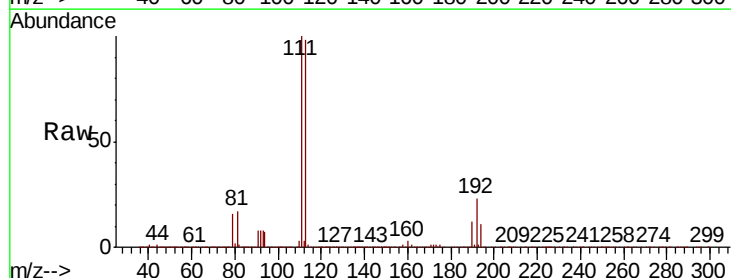
Tgt Ion:113 Resp: 277875

Ion Ratio Lower Upper

113 100

111 103.5 83.6 125.4

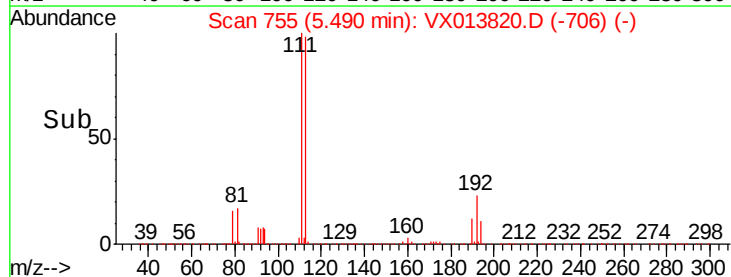
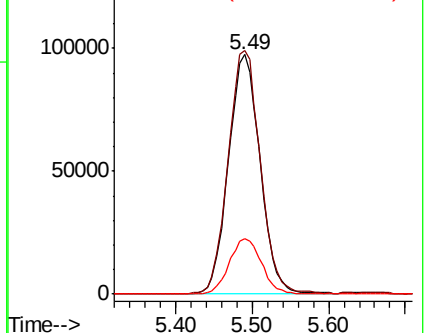
192 23.6 19.2 28.8

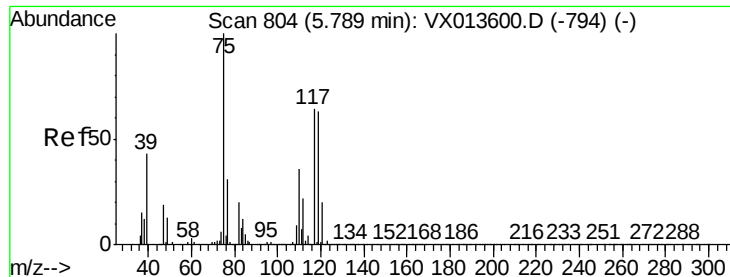


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.884 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

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ClientSampleId :

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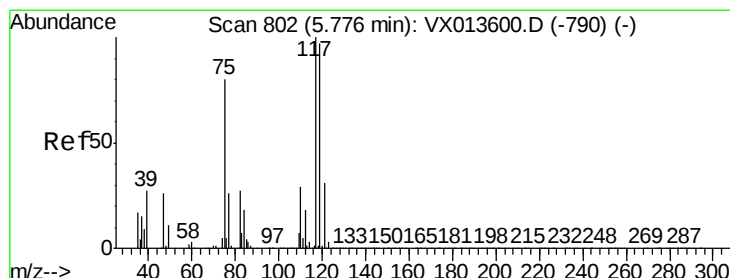
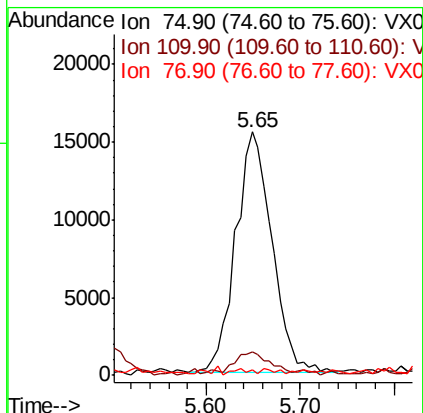
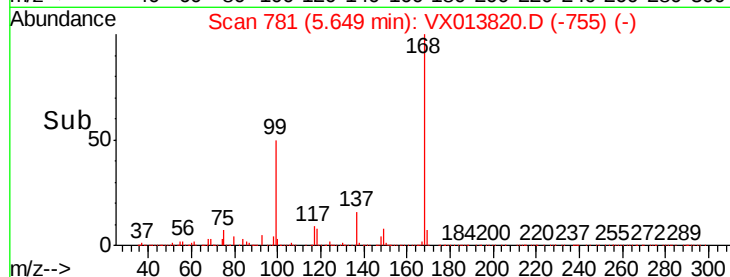
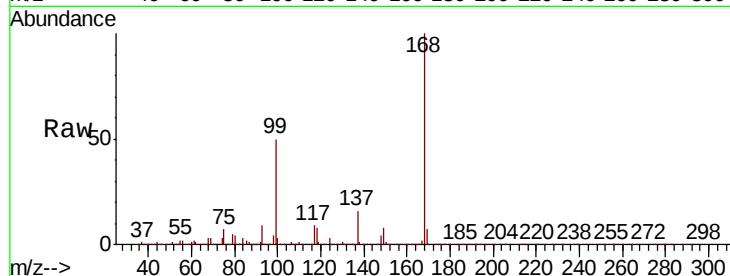
Tot Ion: 75 Resp: 41509

Ion Ratio Lower Upper

75 100

110 8.1 18.1 54.1#

77 0.5 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.722 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

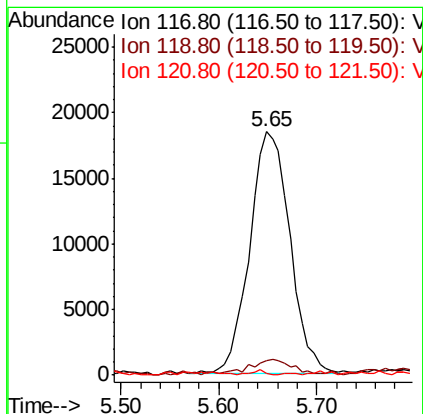
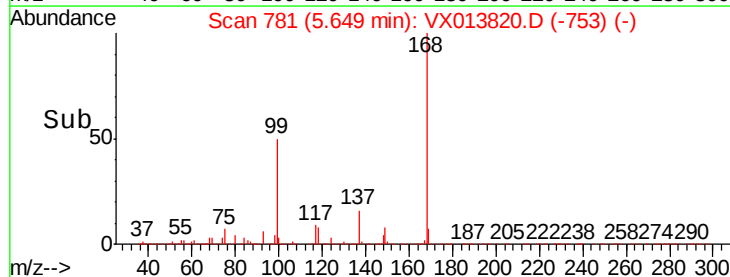
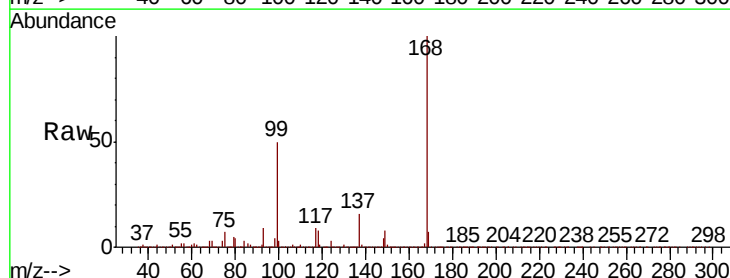
Tgt Ion: 117 Resp: 52678

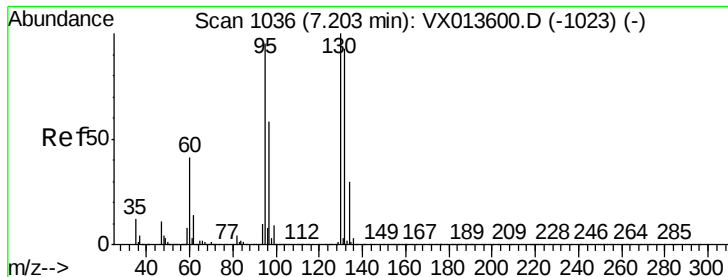
Ion Ratio Lower Upper

117 100

119 5.3 77.5 116.3#

121 0.5 25.0 37.6#





#44

Trichloroethene

Concen: 163.594 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

Instrument :

MSVOA_X

ClientSampleId :

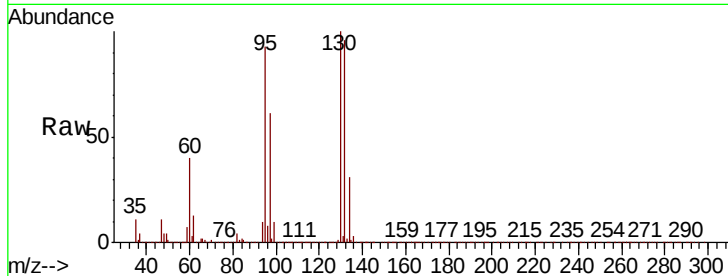
RE122D2-20191203DL

Tot Ion:130 Resp: 1162210

Ion Ratio Lower Upper

130 100

95 92.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

600000

500000

400000

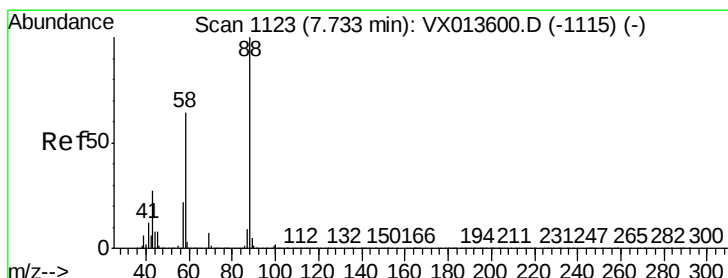
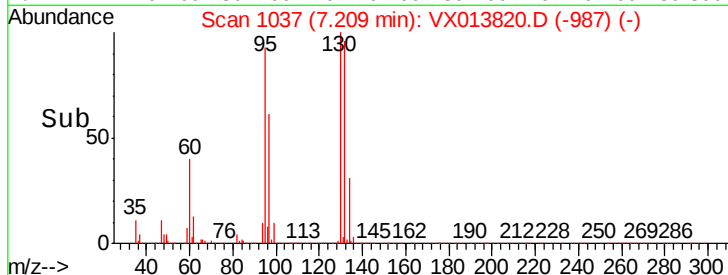
300000

200000

100000

0

Time--> 7.00 7.10 7.20 7.30 7.40



#49

1,4-Dioxane

Concen: 1.177 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

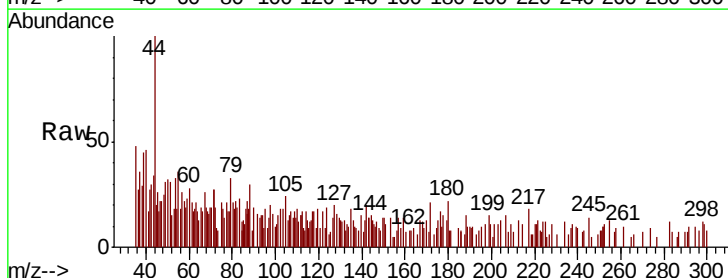
Tgt Ion: 88 Resp: 201

Ion Ratio Lower Upper

88 100

43 173.1 25.8 38.6#

58 0.0 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

800

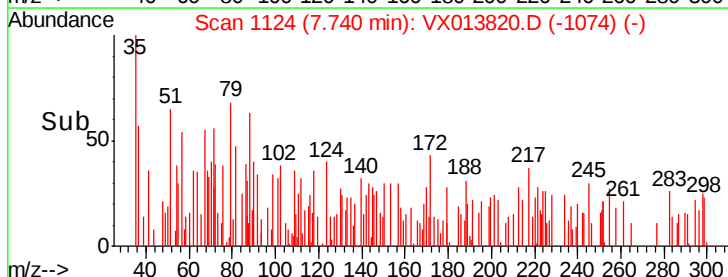
600

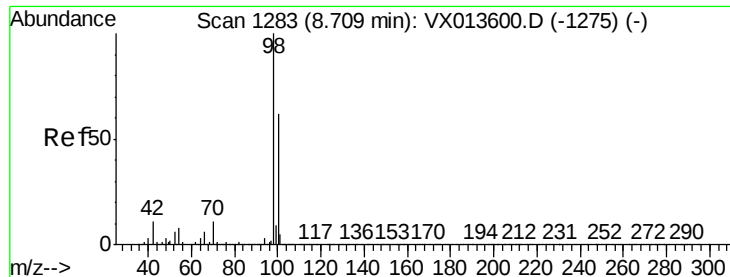
400

200

0

Time--> 7.72 7.73 7.74 7.75 7.76





#50

Toluene-d8

Concen: 49.132 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

Instrument :

MSVOA_X

ClientSampleId :

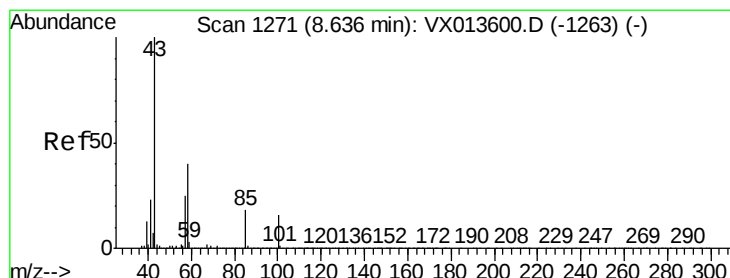
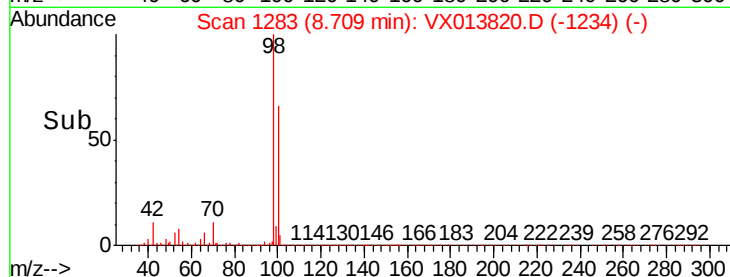
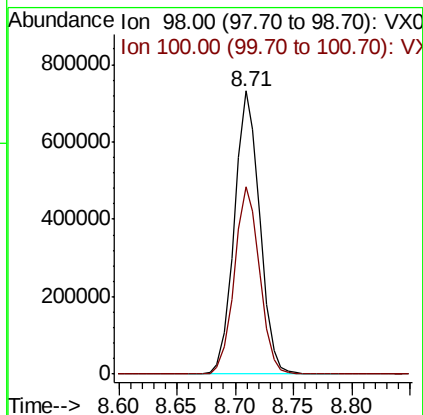
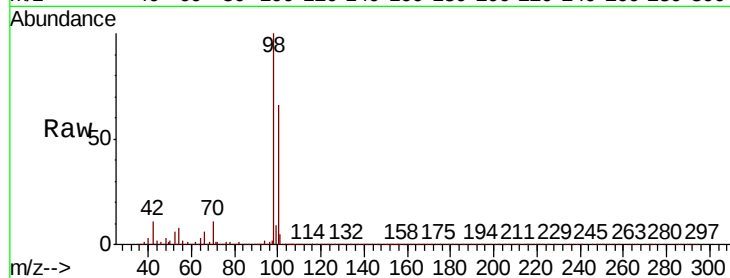
RE122D2-20191203DL

Tot Ion: 98 Resp: 1108020

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.232 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX013820.D

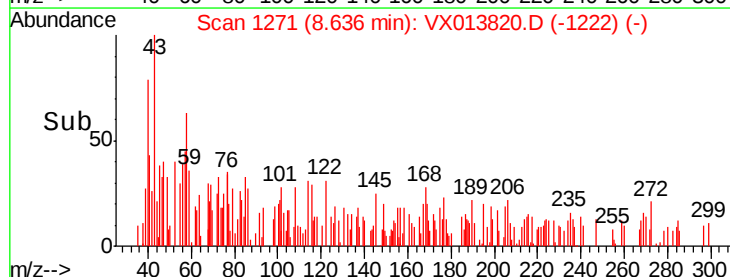
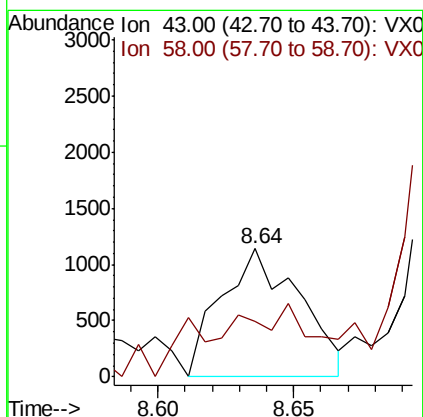
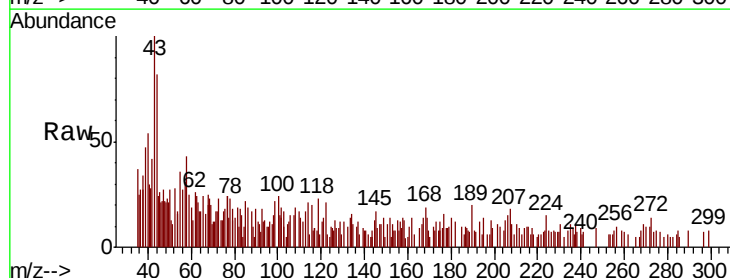
Acq: 07 Dec 2019 00:01

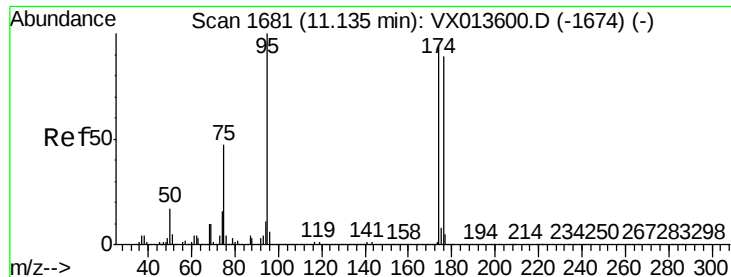
Tgt Ion: 43 Resp: 2295

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#

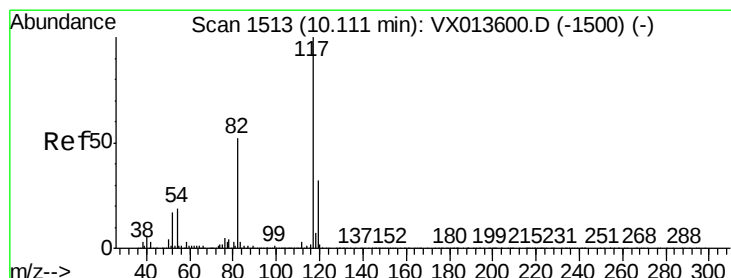
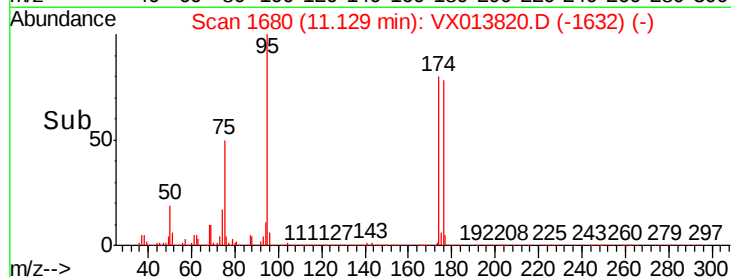
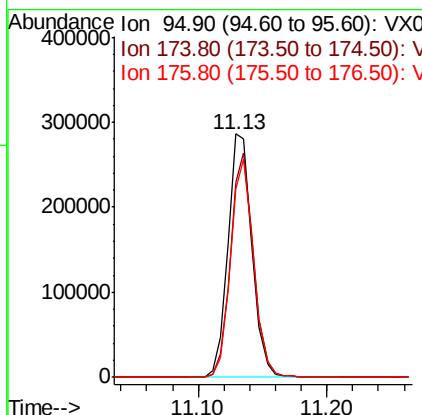
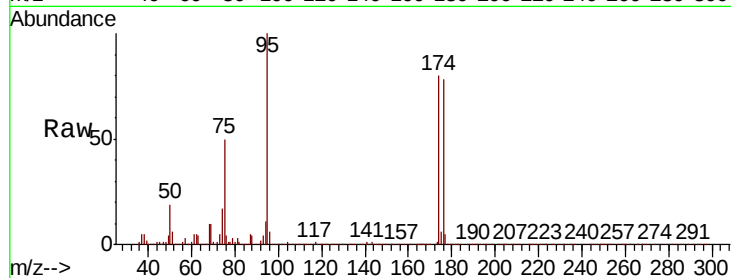




#62
4-Bromofluorobenzene
Concen: 46.079 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

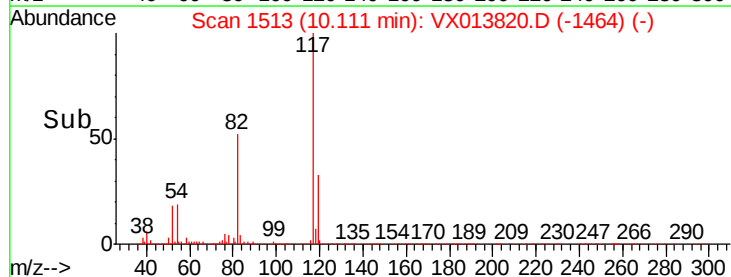
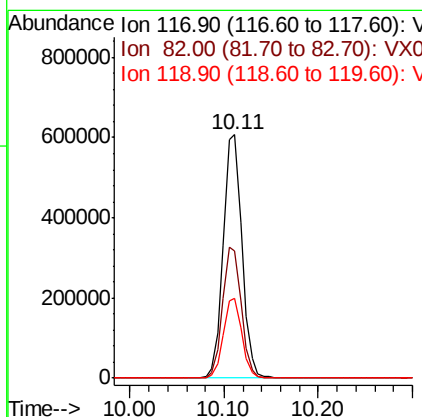
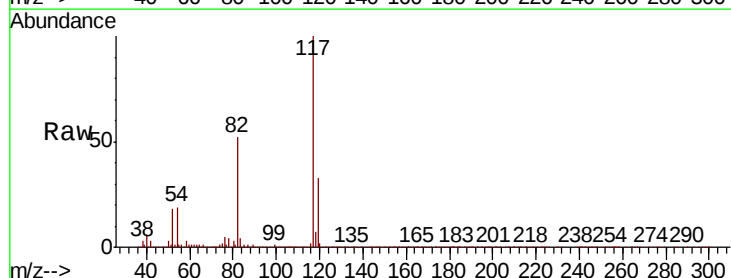
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

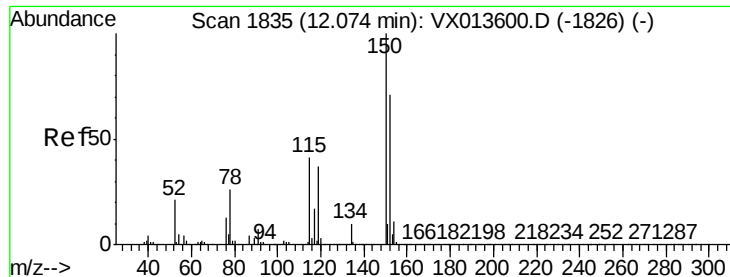
Tot Ion: 95 Resp: 374729
Ion Ratio Lower Upper
95 100
174 88.2 0.0 180.0
176 85.7 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013820.D
Acq: 07 Dec 2019 00:01

Tgt Ion: 117 Resp: 840393
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.8
119 32.6 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: VX013820.D

Acq: 07 Dec 2019 00:01

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

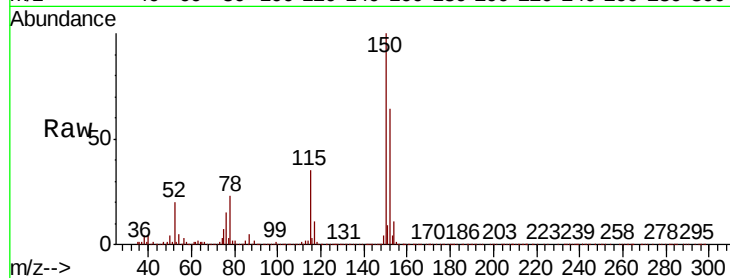
Tot Ion:152 Resp: 364714

Ion Ratio Lower Upper

152 100

115 55.8 38.4 115.1

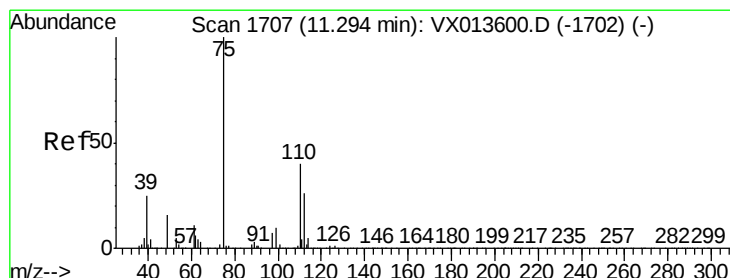
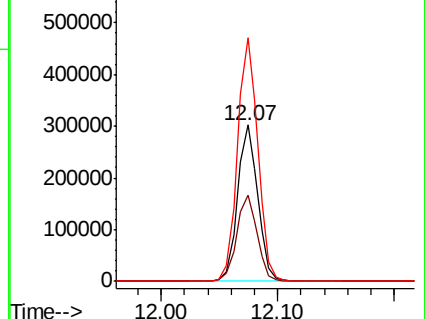
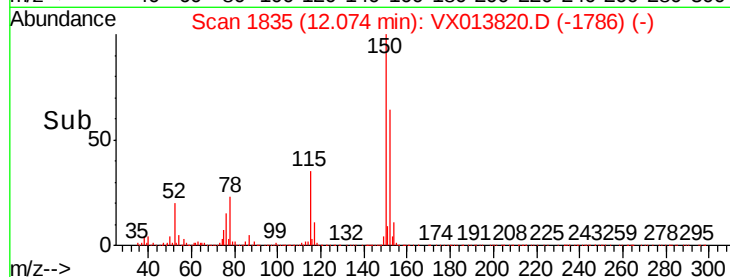
150 157.4 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.946 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013820.D

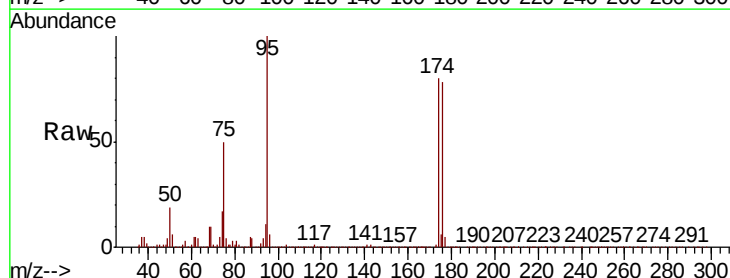
Acq: 07 Dec 2019 00:01

Tgt Ion: 75 Resp: 180024

Ion Ratio Lower Upper

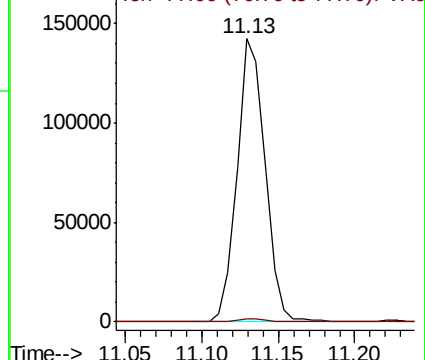
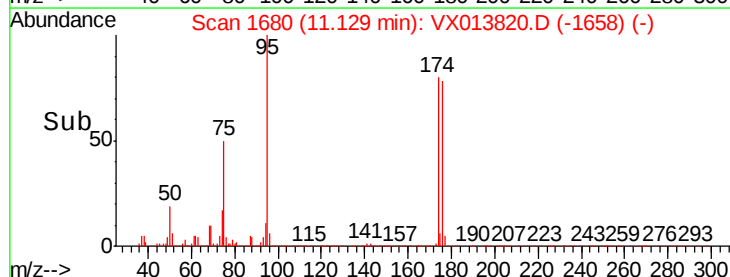
75 100

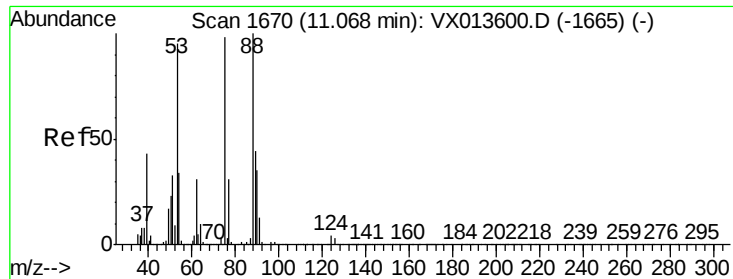
77 1.5 19.1 57.5#



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: 60.040 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013820.D

Acq: 07 Dec 2019 00:01

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

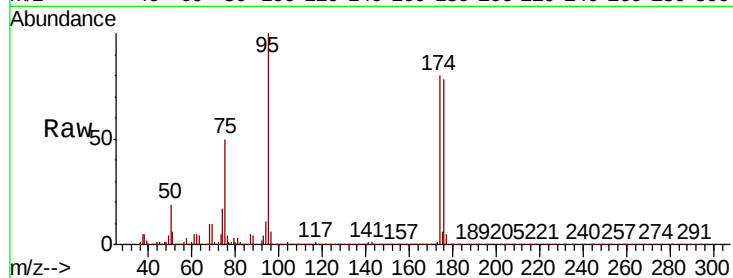
Tot Ion: 75 Resp: 180024

Ion Ratio Lower Upper

75 100

53 0.0 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

