

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013980.D
 Acq On : 12 Dec 2019 17:09
 Operator : JC/SP
 Sample : K6249-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20191208

Quant Time: Dec 13 00:53:23 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	557731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	854338	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	760293	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	327062	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	312260	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
35) Dibromofluoromethane	5.48	113	257566	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	8.71	98	1010511	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	11.14	95	331055	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

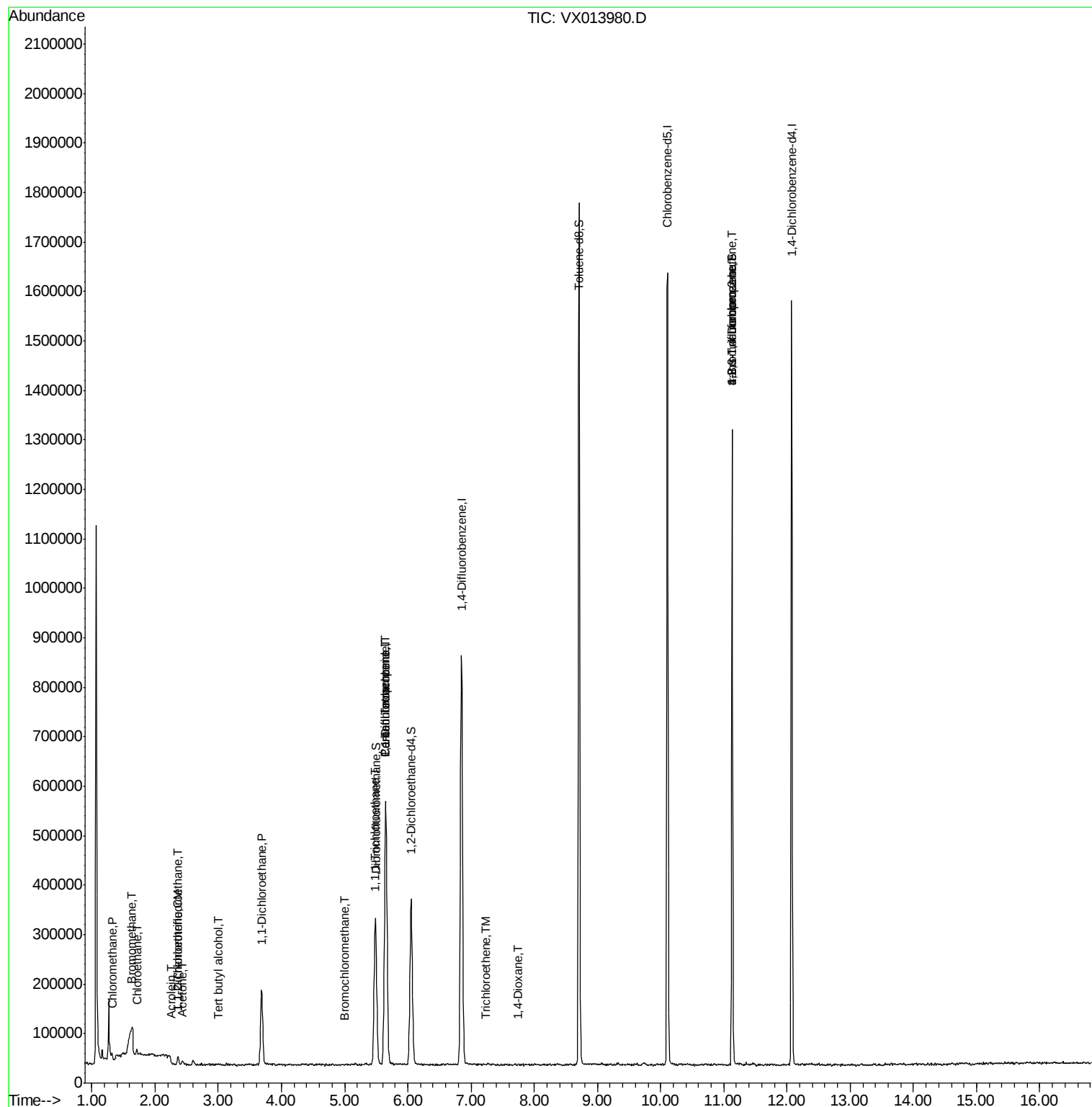
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	5848	0.840	ug/l	97
5) Bromomethane	1.63	94	2036	0.387	ug/l #	79
6) Chloroethane	1.71	64	6023	1.350	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1583	0.298	ug/l #	63
11) Tert butyl alcohol	3.01	59	2356	1.474	ug/l #	74
12) 1,1-Dichloroethene	2.36	96	6228	1.173	ug/l	94
13) Acrolein	2.27	56	270	6.250	ug/l #	65
16) Acetone	2.43	43	9440	2.953	ug/l	94
24) 1,1-Dichloroethane	3.69	63	178972	17.652	ug/l	98
28) Bromochloromethane	5.00	49	1078	0.257	ug/l #	22
32) 1,1,1-Trichloroethane	5.47	97	1980	0.230	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	37909	4.888	ug/l #	52
38) Carbon Tetrachloride	5.65	117	47770	6.680	ug/l #	16
44) Trichloroethene	7.23	130	1387	0.214	ug/l	45
49) 1,4-Dioxane	7.74	88	557	3.576	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	162765	22.126	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	162765	60.533	ug/l #	11

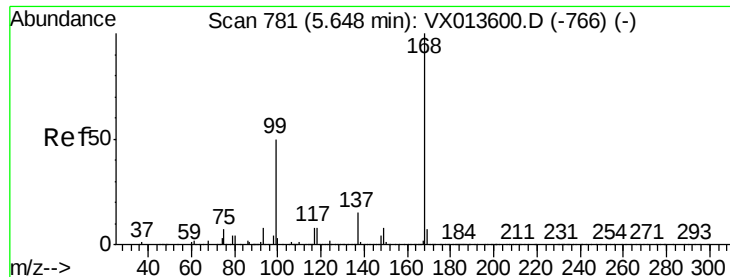
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 781

Delta R.T. 0.00 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

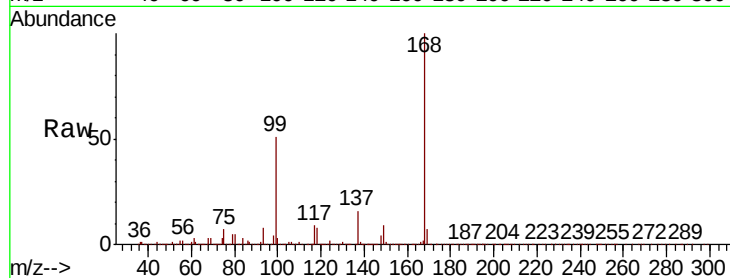
SA-DUP01-20191208

Tot Ion:168 Resp: 557731

Ion Ratio Lower Upper

168 100

99 51.0 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

200000

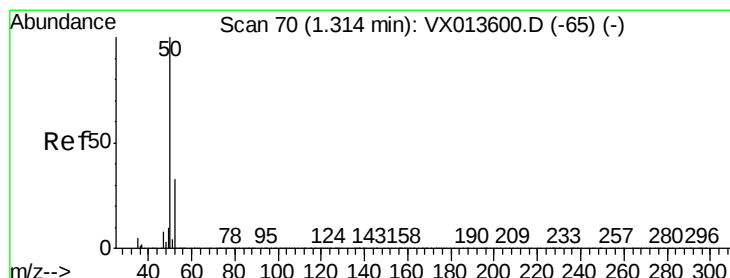
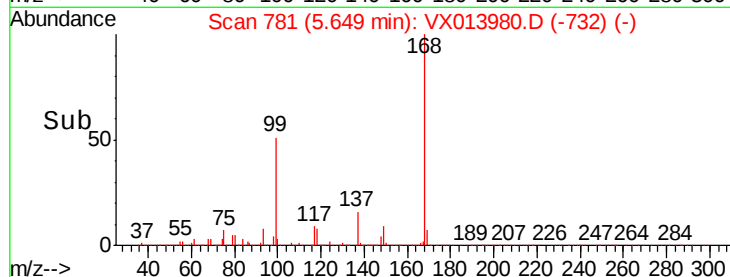
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.840 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013980.D

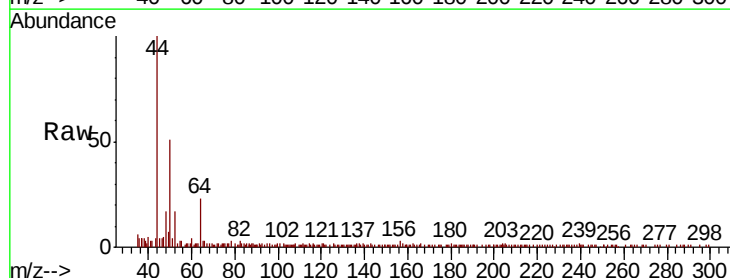
Acq: 12 Dec 2019 17:09

Tgt Ion: 50 Resp: 5848

Ion Ratio Lower Upper

50 100

52 33.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

6000

5000

4000

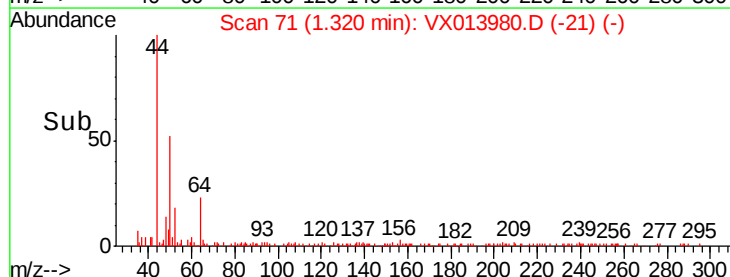
3000

2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.387 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

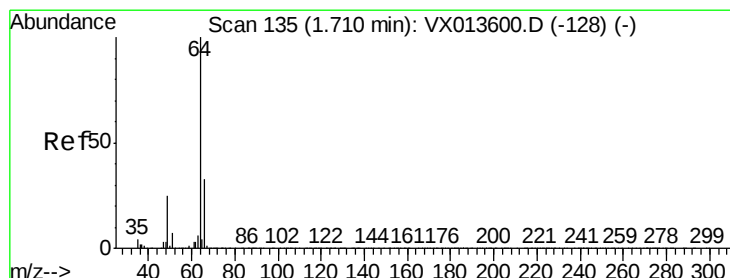
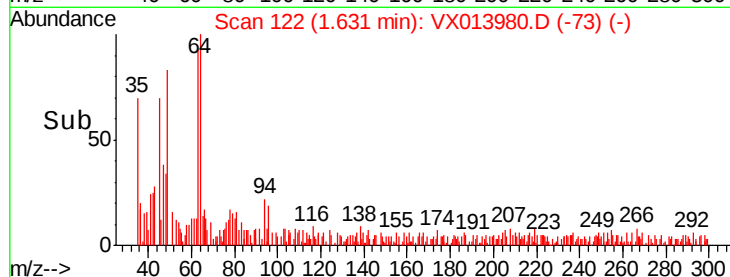
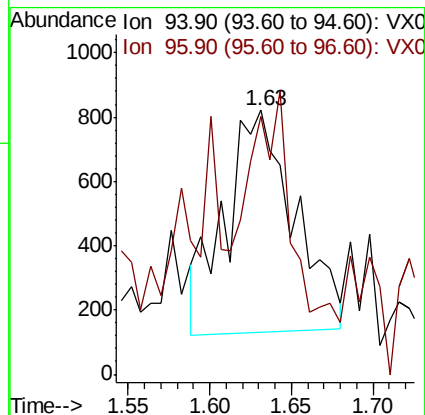
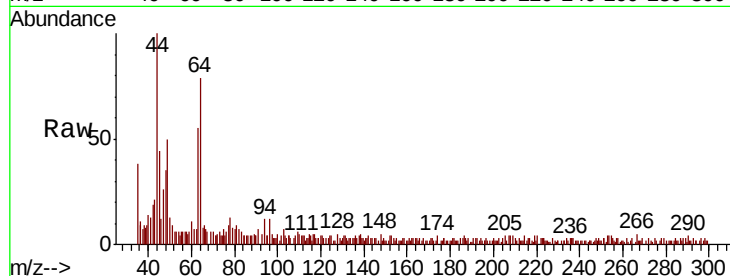
SA-DUP01-20191208

Tot Ion: 94 Resp: 2036

Ion Ratio Lower Upper

94 100

96 75.8 77.0 115.4#



#6

Chloroethane

Concen: 1.350 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013980.D

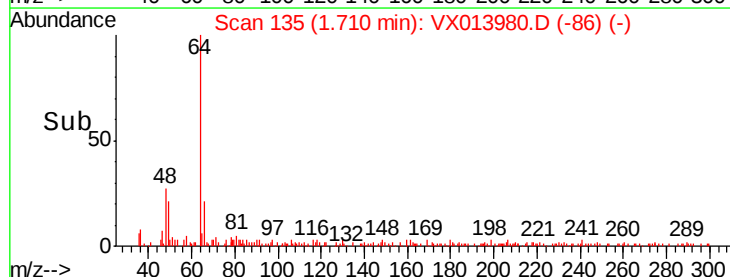
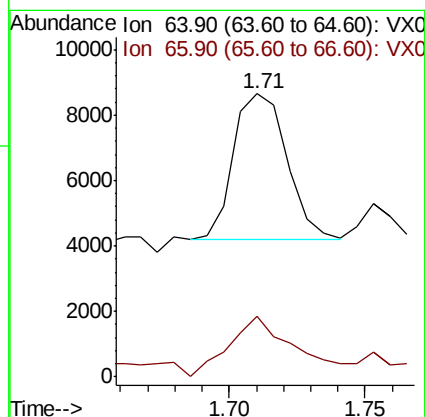
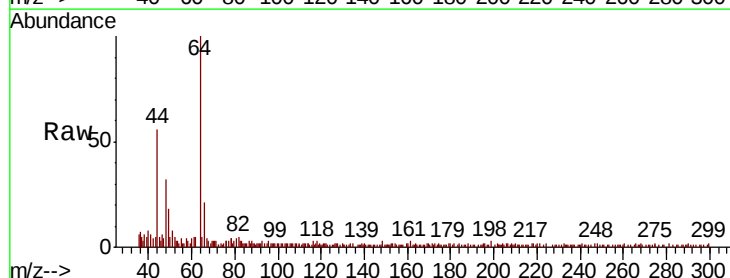
Acq: 12 Dec 2019 17:09

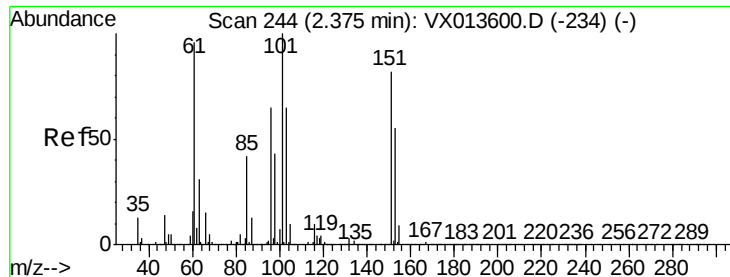
Tgt Ion: 64 Resp: 6023

Ion Ratio Lower Upper

64 100

66 37.0 26.7 40.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.298 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

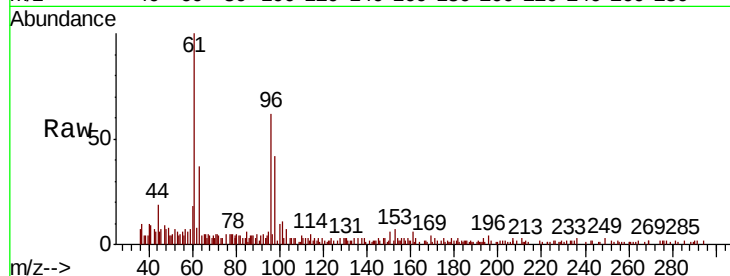
Tot Ion:101 Resp: 1583

Ion Ratio Lower Upper

101 100

85 17.2 33.9 50.9#

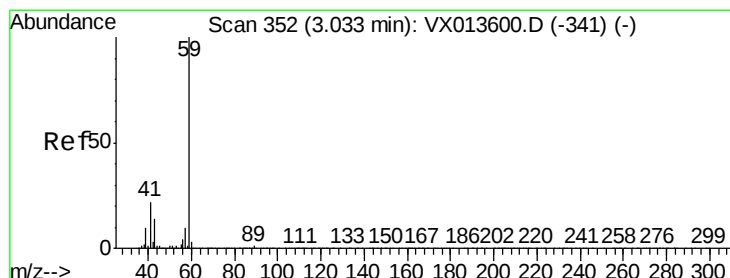
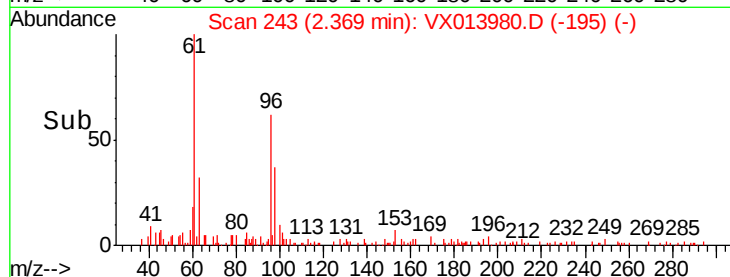
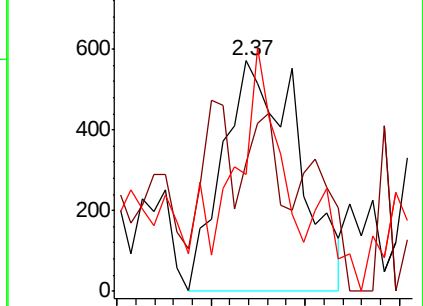
151 48.5 64.2 96.2#



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: 1.474 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013980.D

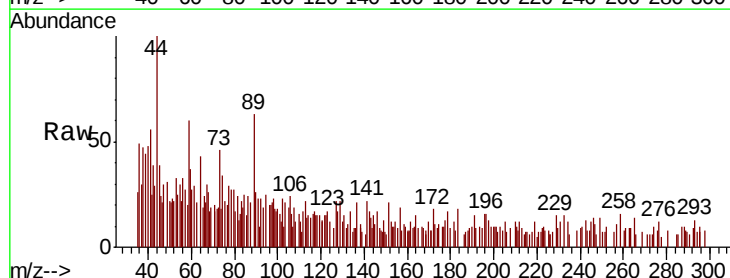
Acq: 12 Dec 2019 17:09

Tgt Ion: 59 Resp: 2356

Ion Ratio Lower Upper

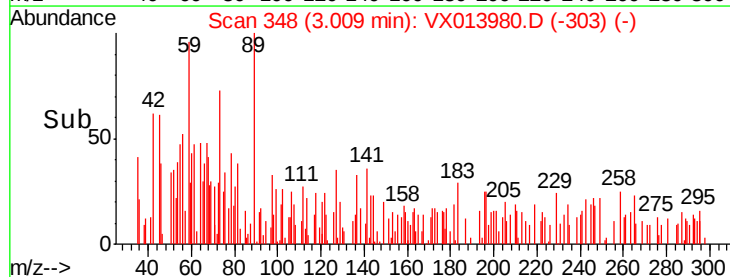
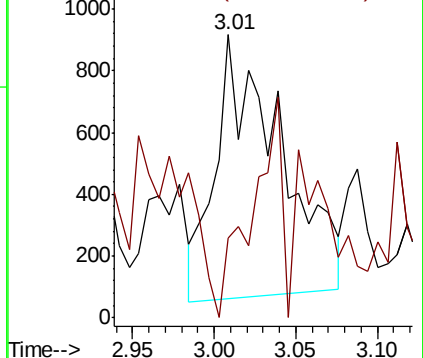
59 100

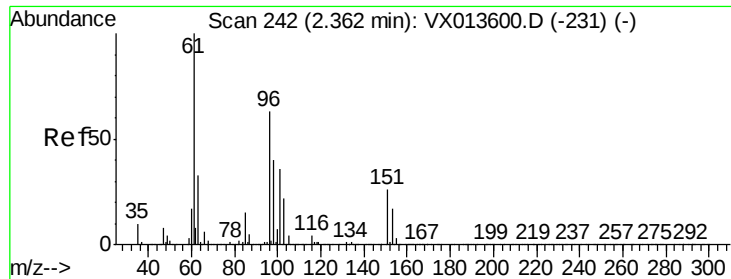
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.173 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

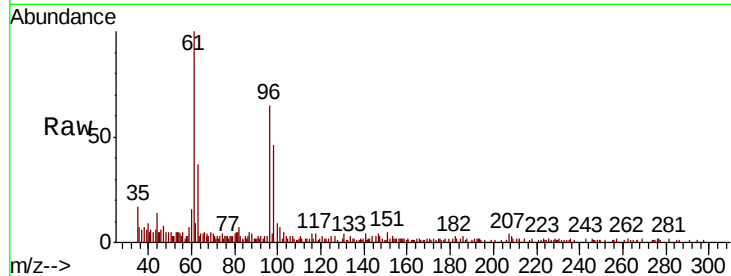
Tot Ion: 96 Resp: 6228

Ion Ratio Lower Upper

96 100

61 151.2 126.6 190.0

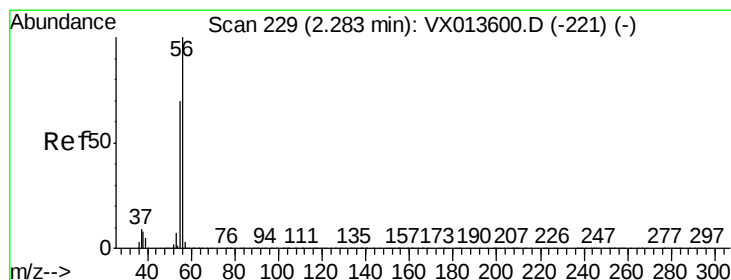
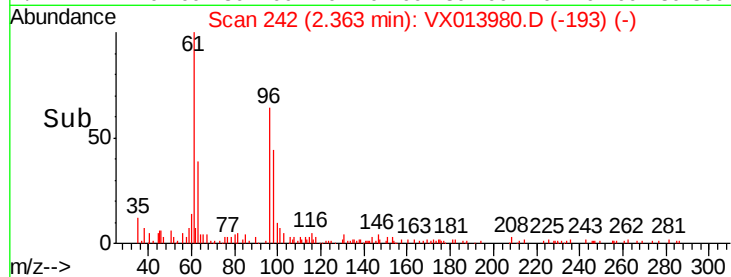
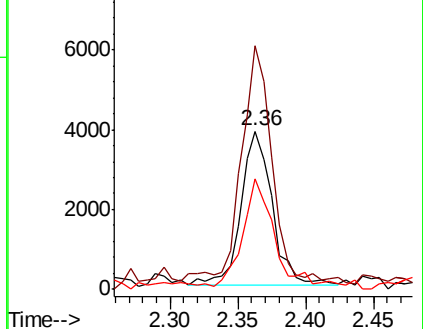
98 69.0 50.6 76.0



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: 6.250 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013980.D

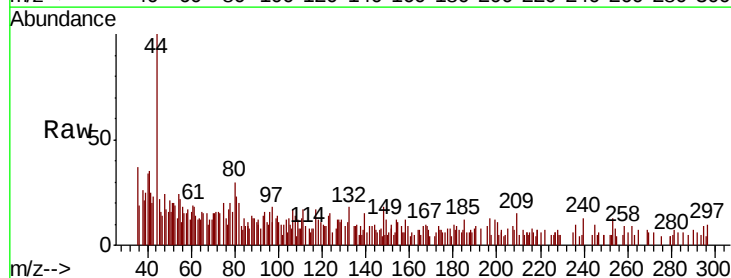
Acq: 12 Dec 2019 17:09

Tgt Ion: 56 Resp: 270

Ion Ratio Lower Upper

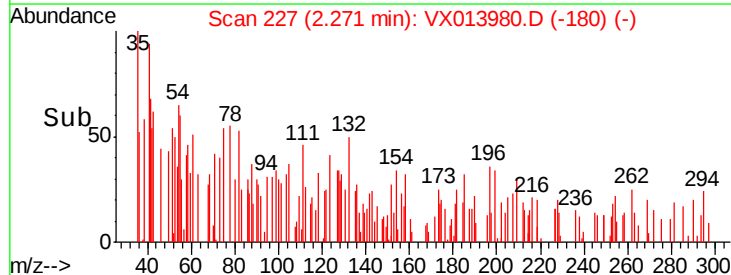
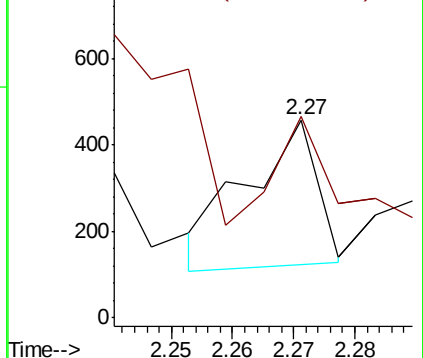
56 100

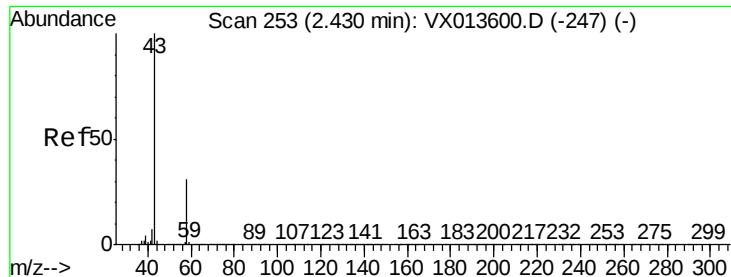
55 41.5 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

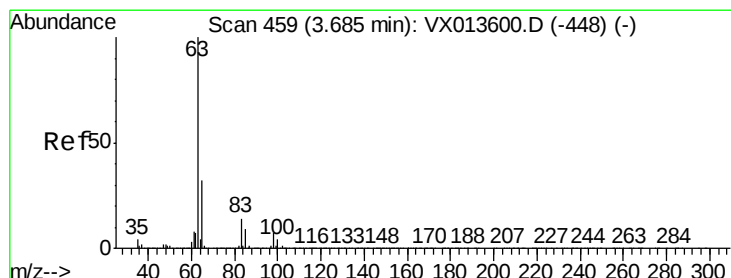
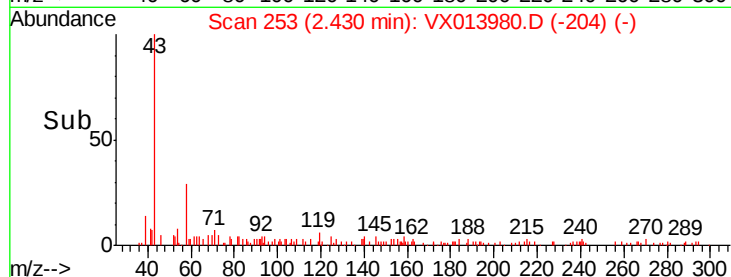
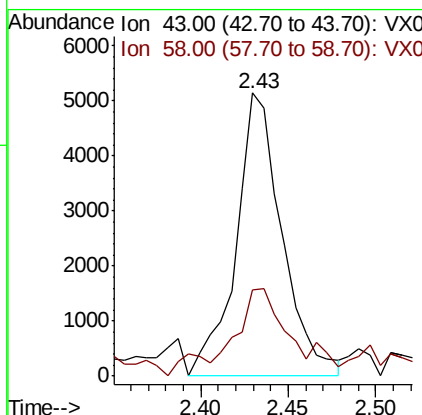
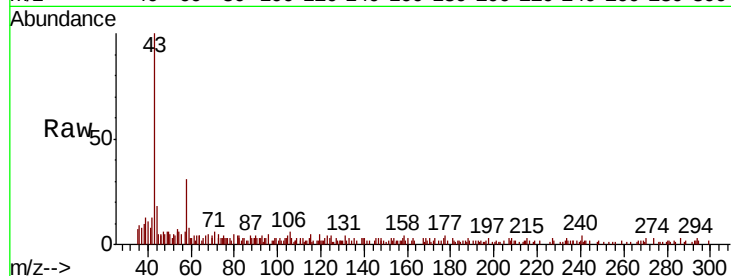




#16
Acetone
Concen: 2.953 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013980.D
Acq: 12 Dec 2019 17:09

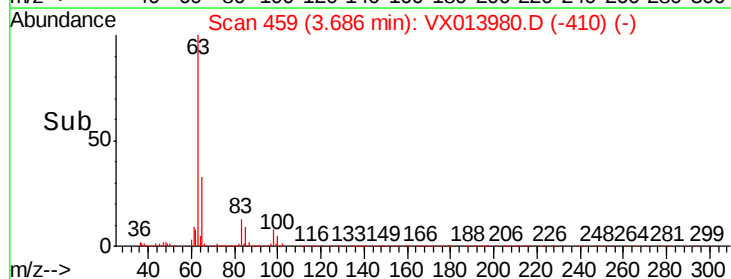
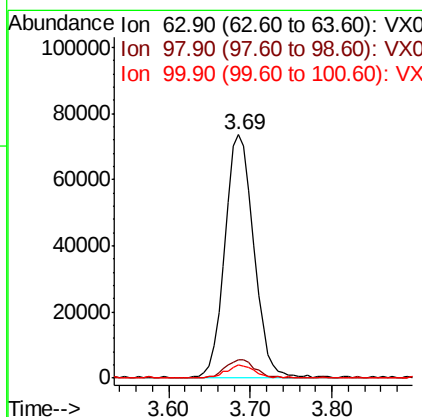
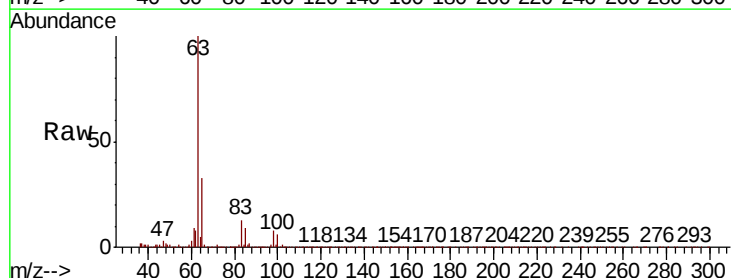
Instrument :
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SA-DUP01-20191208

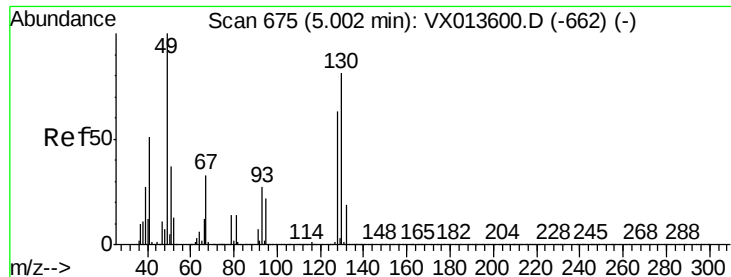
Tot Ion: 43 Resp: 9440
Ion Ratio Lower Upper
43 100
58 27.4 24.6 36.8



#24
1,1-Dichloroethane
Concen: 17.652 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX013980.D
Acq: 12 Dec 2019 17:09

Tgt Ion: 63 Resp: 178972
Ion Ratio Lower Upper
63 100
98 7.3 3.5 10.4
100 5.3 2.1 6.3





#28

Bromochloromethane

Concen: 0.257 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

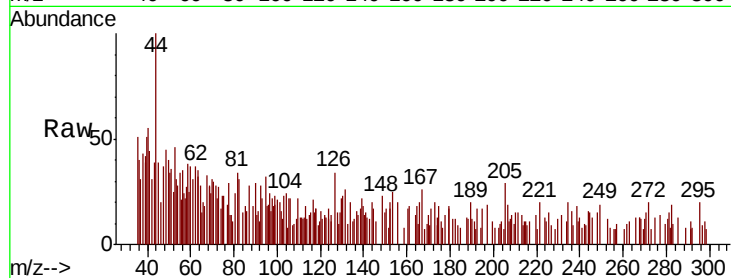
Tot Ion: 49 Resp: 1078

Ion Ratio Lower Upper

49 100

129 15.4 0.0 5.0#

130 10.7 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

800

600

400

200

0

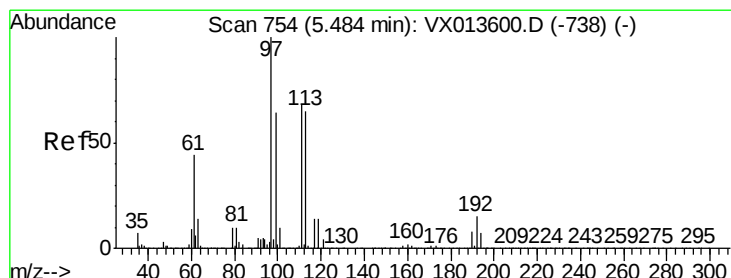
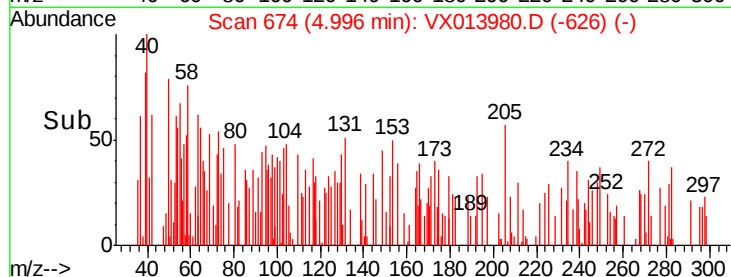
4.96

4.98

5.00

5.02

Time-->



#32

1,1,1-Trichloroethane

Concen: 0.230 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.01 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

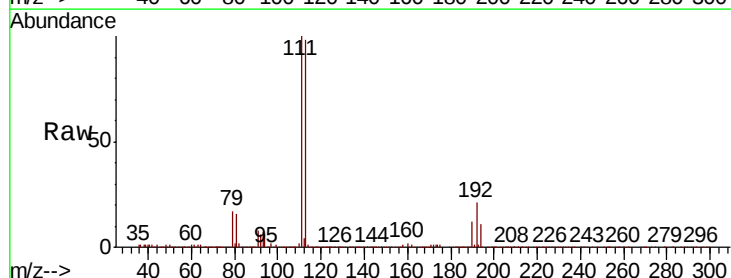
Tgt Ion: 97 Resp: 1980

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

61 0.0 36.1 54.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

1500

1000

500

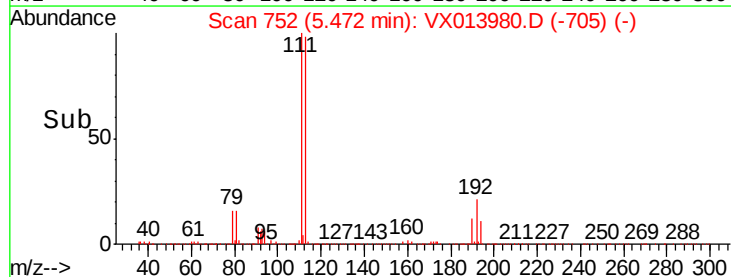
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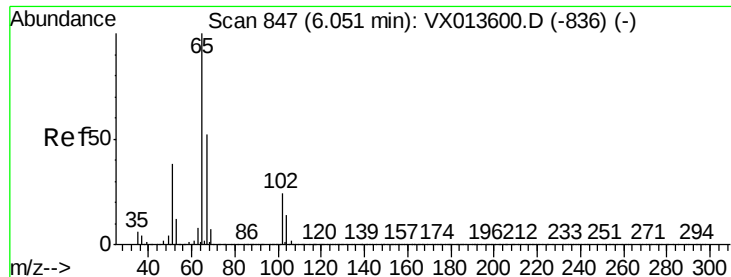
5.45

5.47

5.50

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.233 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

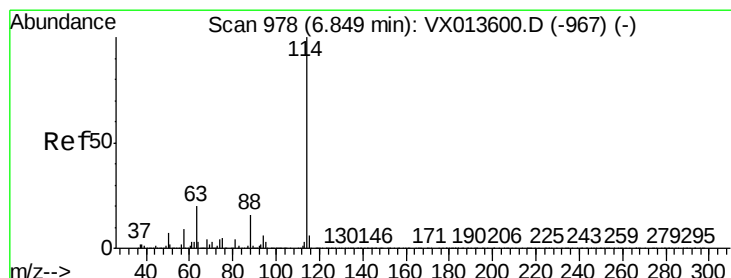
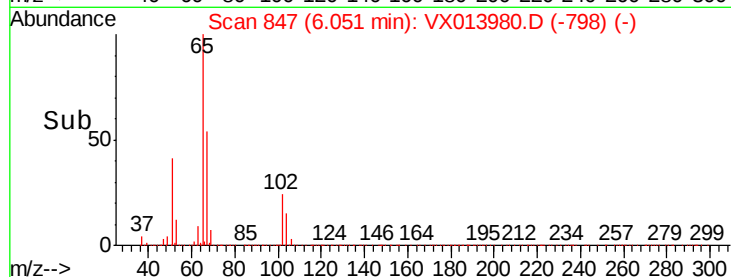
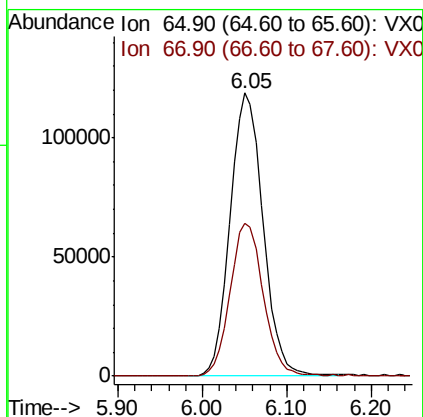
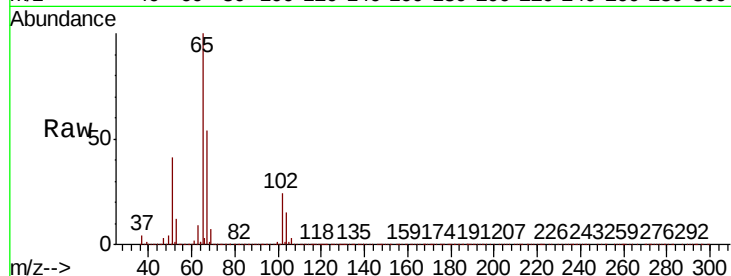
SA-DUP01-20191208

Tot Ion: 65 Resp: 312260

Ion Ratio Lower Upper

65 100

67 54.3 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: VX013980.D

Acq: 12 Dec 2019 17:09

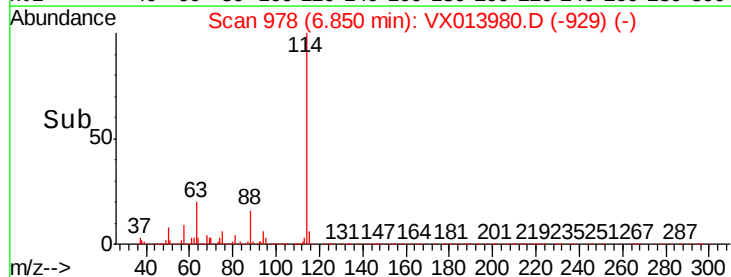
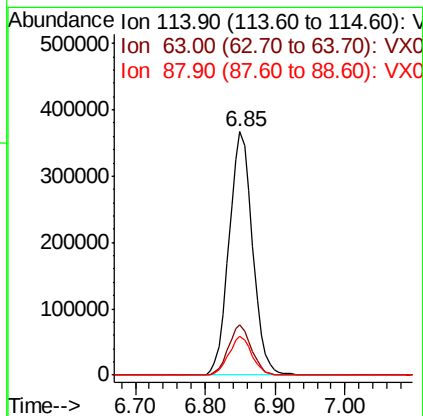
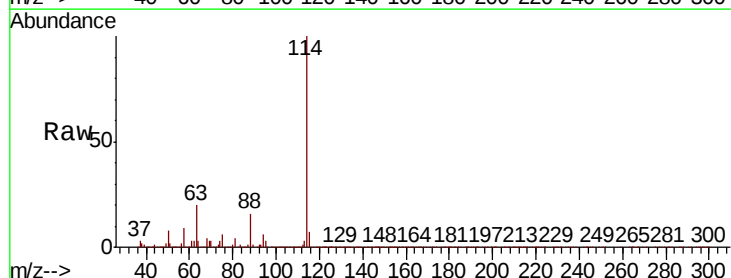
Tgt Ion: 114 Resp: 854338

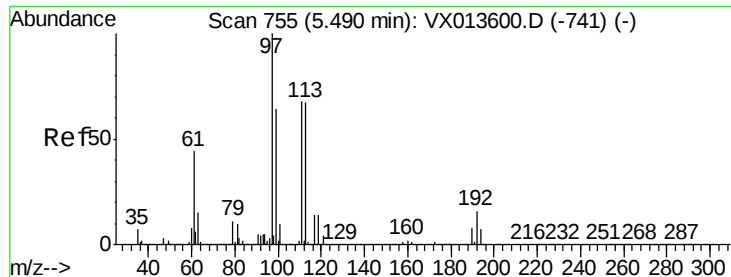
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 15.9 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.766 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

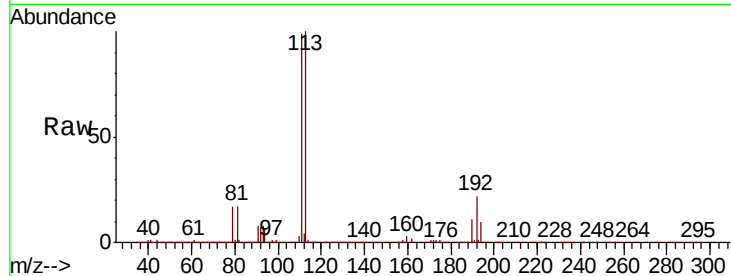
Tot Ion:113 Resp: 257566

Ion Ratio Lower Upper

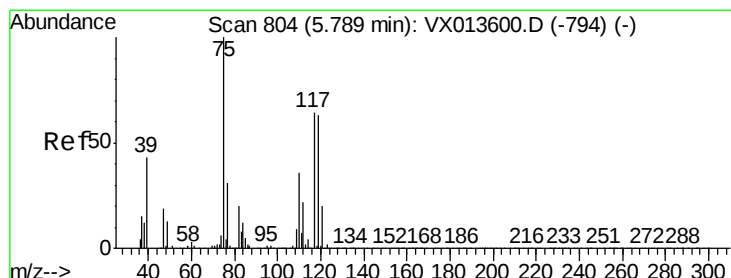
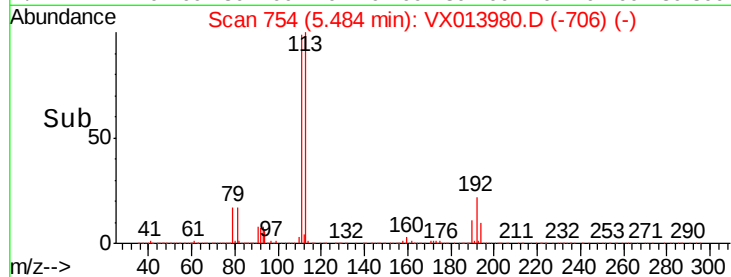
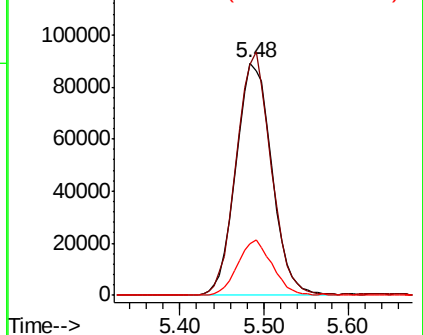
113 100

111 100.8 83.6 125.4

192 22.5 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: 4.888 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

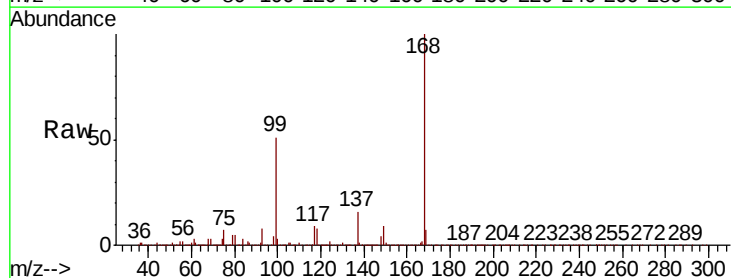
Tgt Ion: 75 Resp: 37909

Ion Ratio Lower Upper

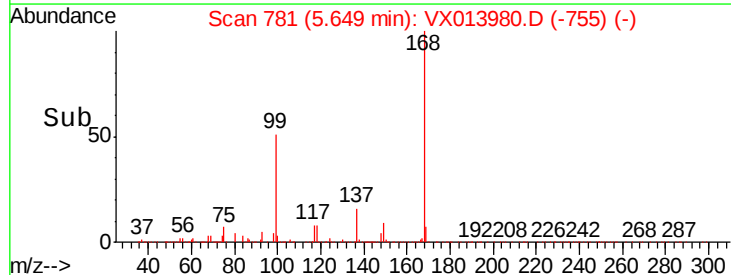
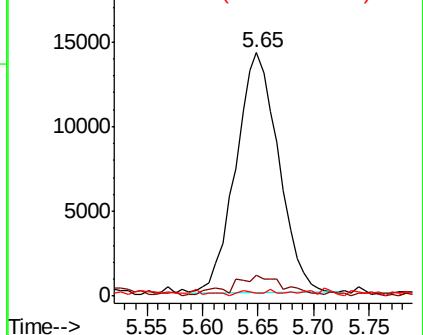
75 100

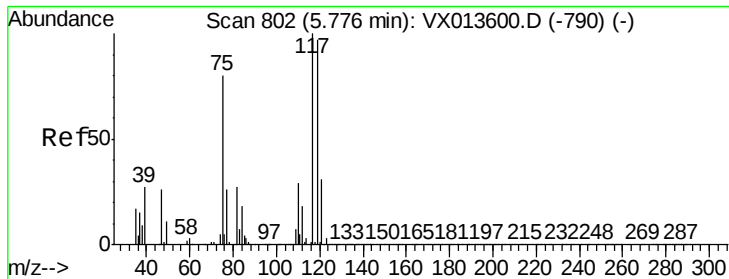
110 10.8 18.1 54.1#

77 0.9 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

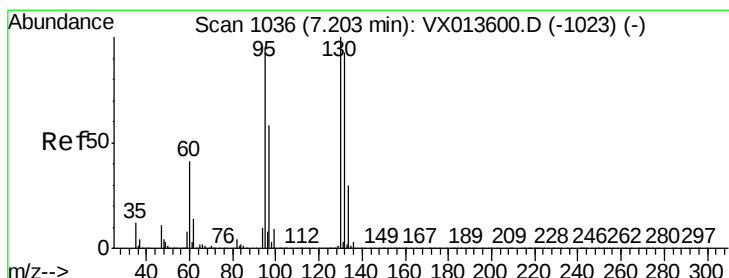
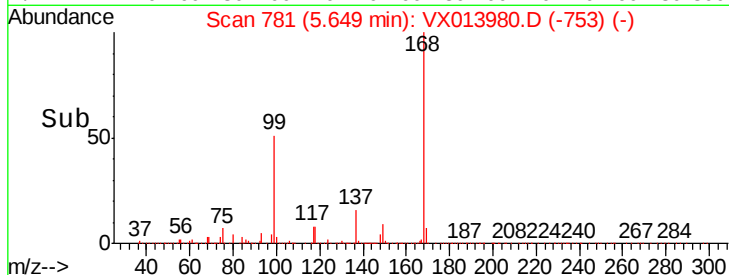
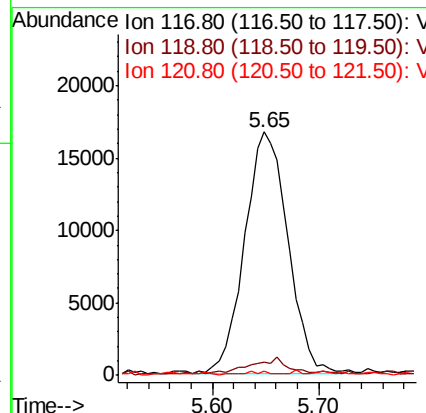
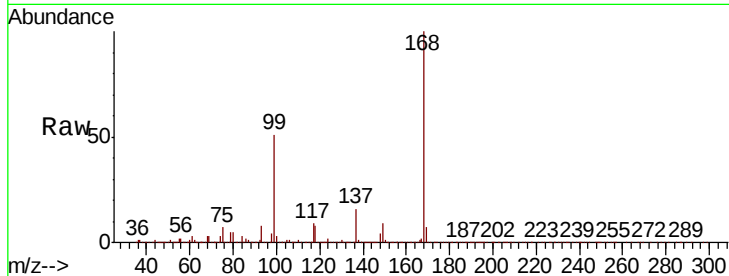




#38
Carbon Tetrachloride
Concen: 6.680 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013980.D
Acq: 12 Dec 2019 17:09

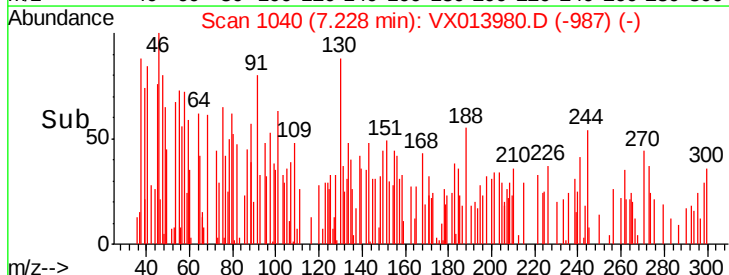
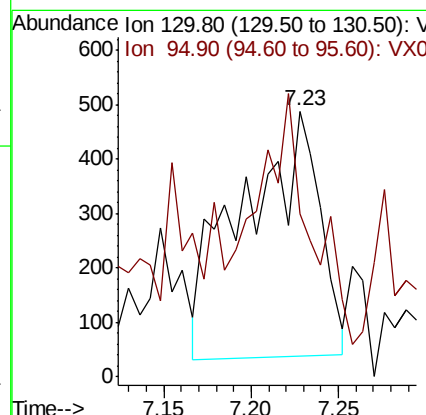
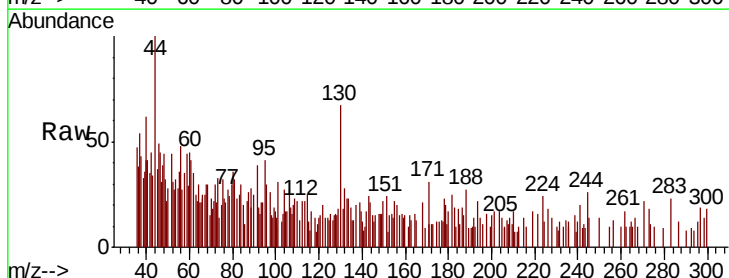
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20191208

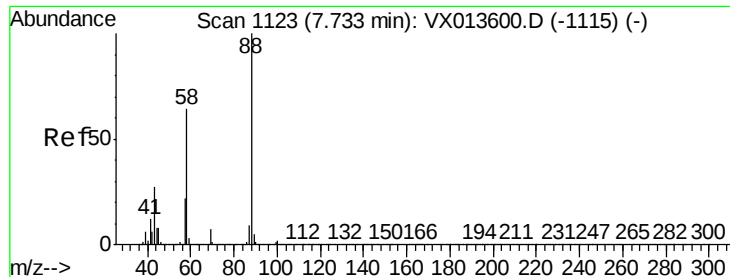
Tot Ion:117 Resp: 47770
Ion Ratio Lower Upper
117 100
119 5.1 77.5 116.3#
121 1.1 25.0 37.6#



#44
Trichloroethene
Concen: 0.214 ug/l
RT: 7.23 min Scan# 1040
Delta R.T. 0.02 min
Lab File: VX013980.D
Acq: 12 Dec 2019 17:09

Tgt Ion:130 Resp: 1387
Ion Ratio Lower Upper
130 100
95 41.8 0.0 190.8





#49

1,4-Dioxane

Concen: 3.576 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

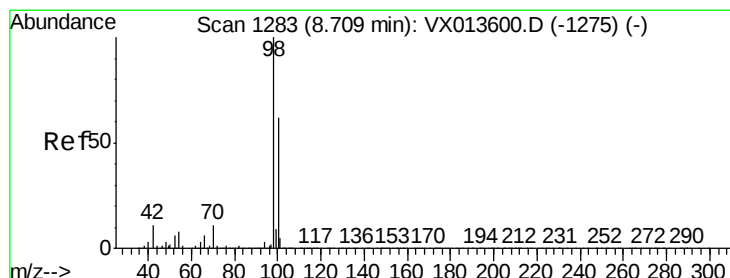
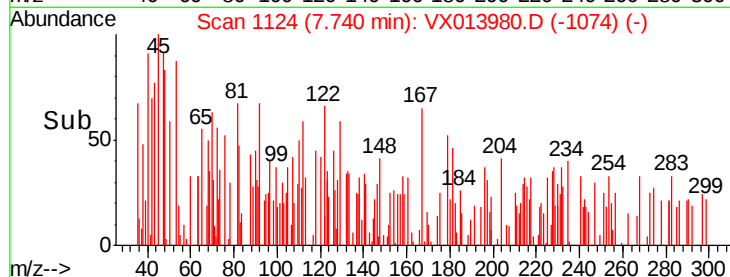
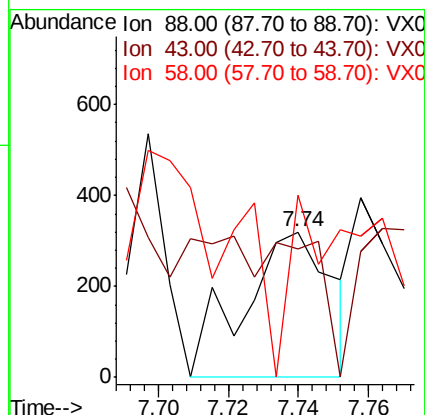
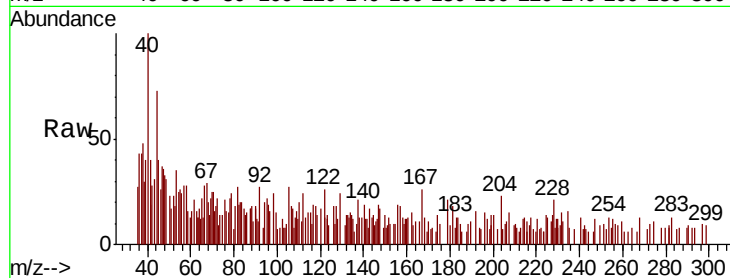
Tot Ion: 88 Resp: 557

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 166.1 54.6 82.0#



#50

Toluene-d8

Concen: 49.107 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013980.D

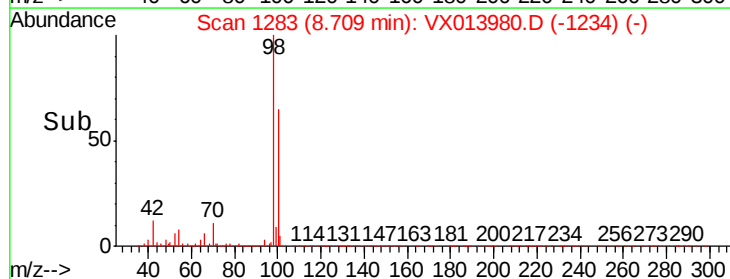
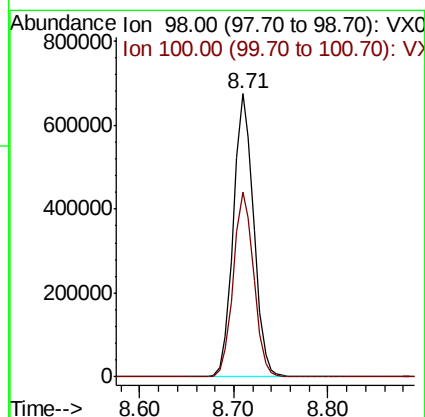
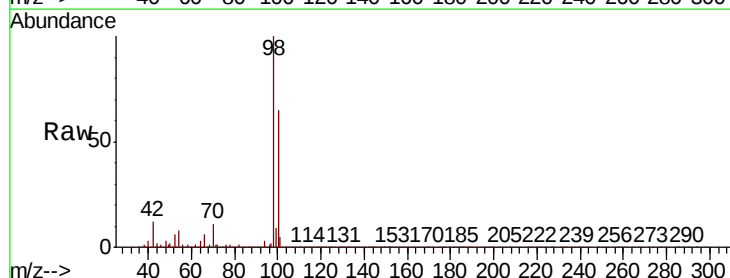
Acq: 12 Dec 2019 17:09

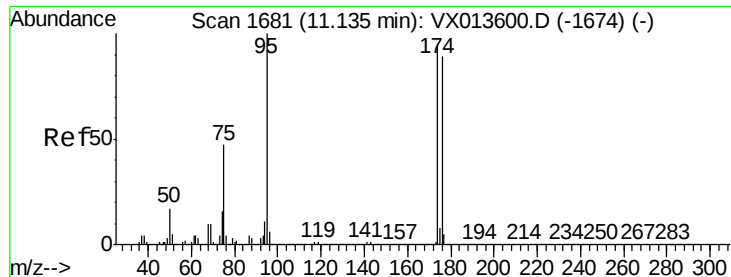
Tgt Ion: 98 Resp: 1010511

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7

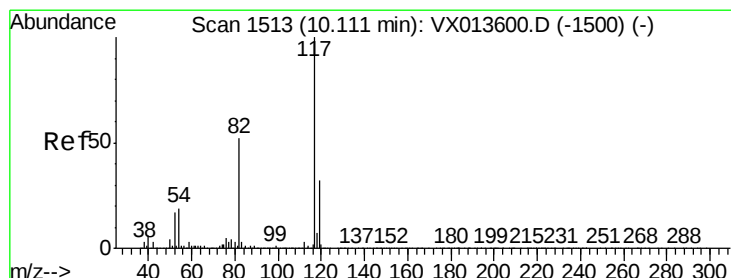
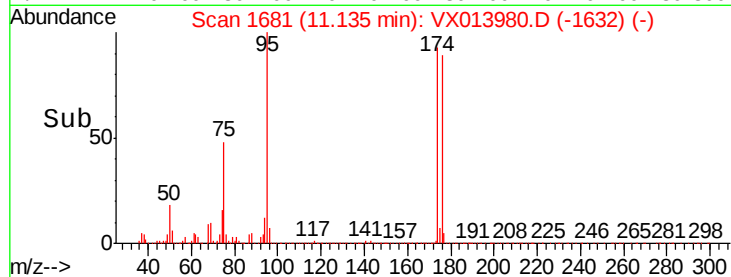
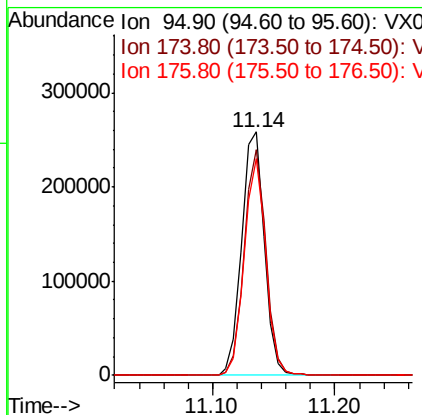
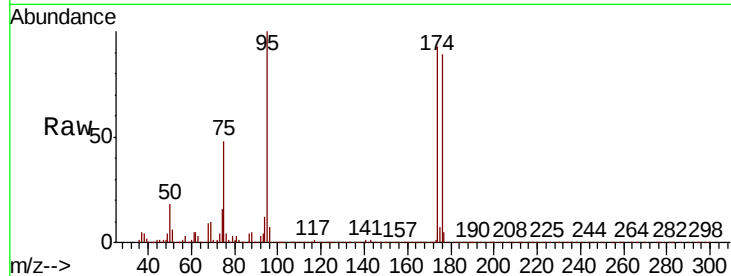




#62
4-Bromofluorobenzene
Concen: 44.614 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013980.D
Acq: 12 Dec 2019 17:09

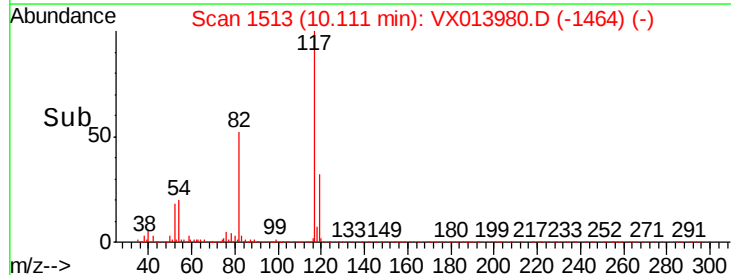
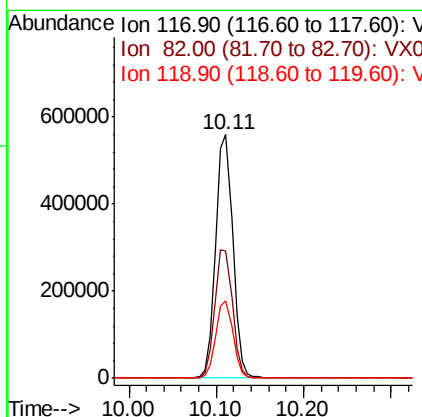
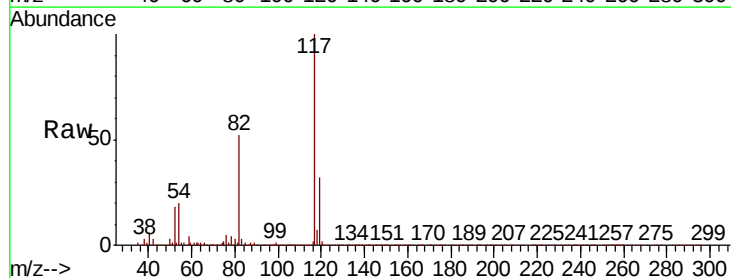
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20191208

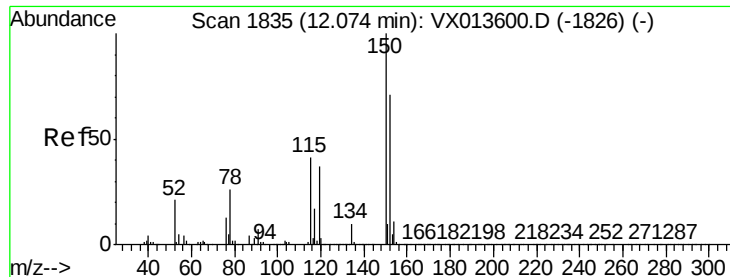
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	180.0
176	85.5	0.0	173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013980.D
Acq: 12 Dec 2019 17:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.4	41.8	62.8
119	31.7	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: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

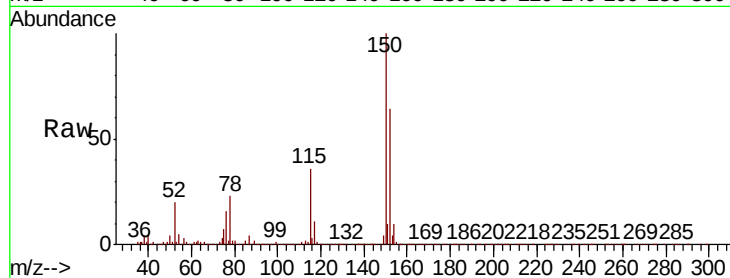
Tot Ion:152 Resp: 327062

Ion Ratio Lower Upper

152 100

115 55.2 38.4 115.1

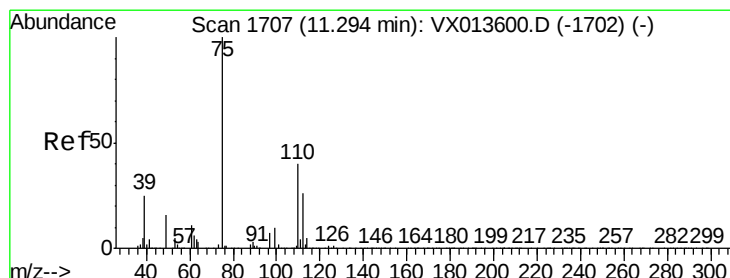
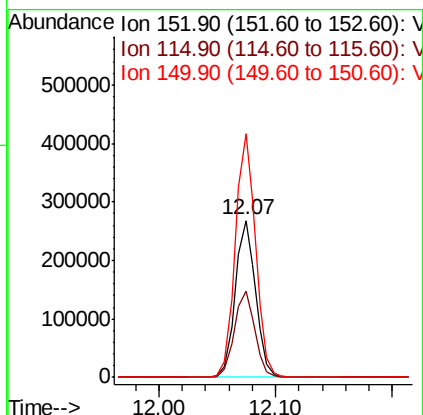
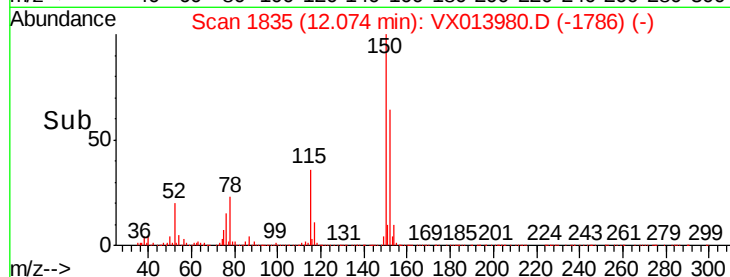
150 155.0 0.0 346.8



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: 22.126 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013980.D

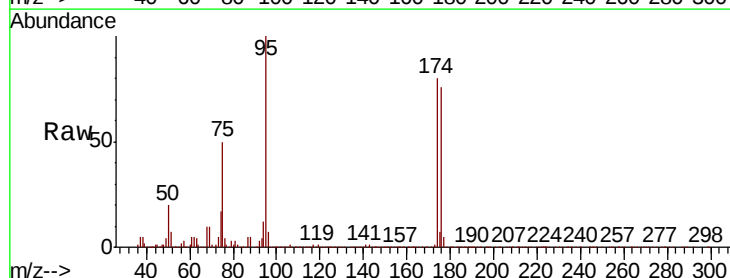
Acq: 12 Dec 2019 17:09

Tgt Ion: 75 Resp: 162765

Ion Ratio Lower Upper

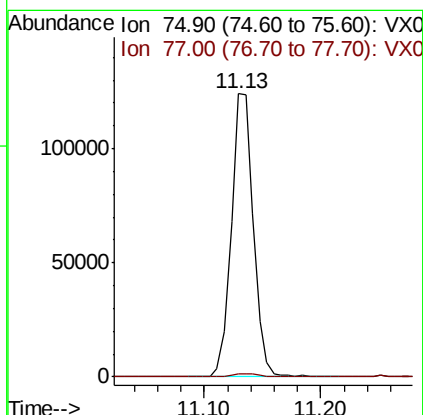
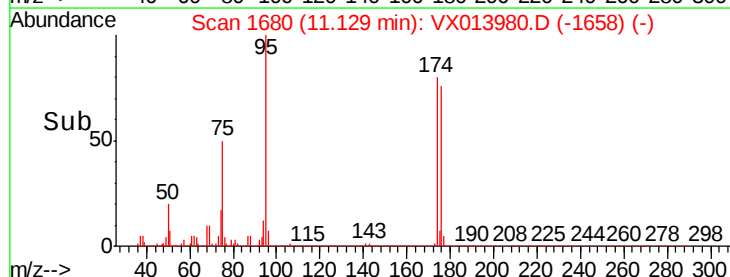
75 100

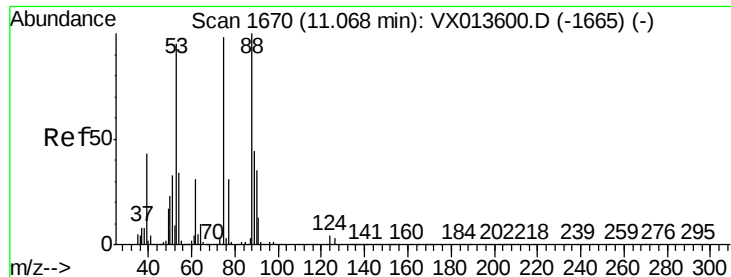
77 1.6 19.1 57.5#



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: 60.533 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013980.D

Acq: 12 Dec 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20191208

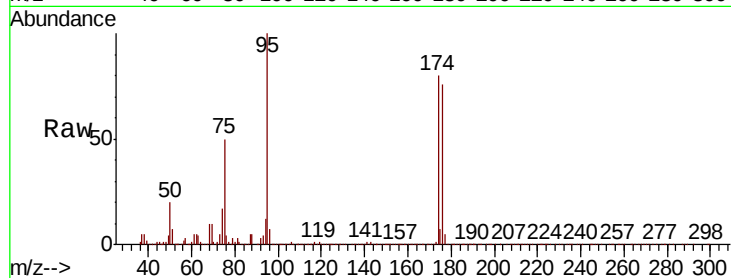
Tot Ion: 75 Resp: 162765

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 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

