

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052419\
 Data File : VX009884.D
 Acq On : 24 May 2019 14:14
 Operator : JC/SP
 Sample : K3036-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FEQC-TB-052319

Quant Time: May 25 00:13:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	178771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	285409	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	257986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112618	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	122602	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
35) Dibromofluoromethane	5.50	113	86952	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	8.71	98	364297	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	11.13	95	123303	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	

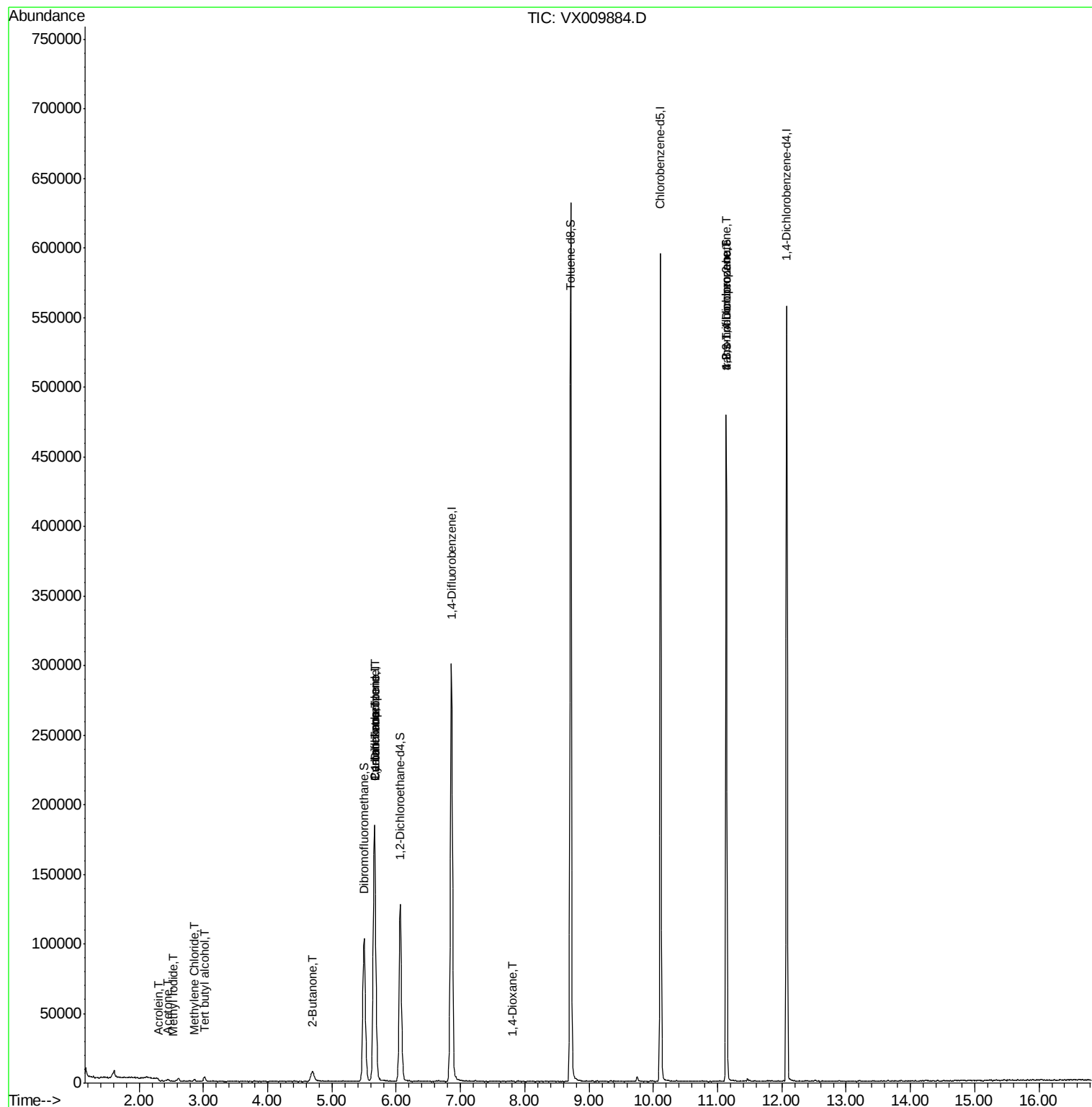
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.53	142	199	4.687	ug/l #	66
11) Tert butyl alcohol	3.02	59	2254	3.990	ug/l #	77
13) Acrolein	2.31	56	185	0.362	ug/l #	72
16) Acetone	2.44	43	1923	1.467	ug/l	94
20) Methylene Chloride	2.86	84	501	0.236	ug/l #	79
25) 2-Butanone	4.70	43	729	0.358	ug/l #	53
28) Bromochloromethane	5.00	49	46	Below Cal	#	20
31) Cyclohexane	5.66	56	4180	1.159	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14432	5.441	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16496	6.845	ug/l #	16
49) 1,4-Dioxane	7.81	88	21	0.353	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	65138	24.935	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	65138	63.799	ug/l #	10

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

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Quant Time: May 25 00:13:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampled :

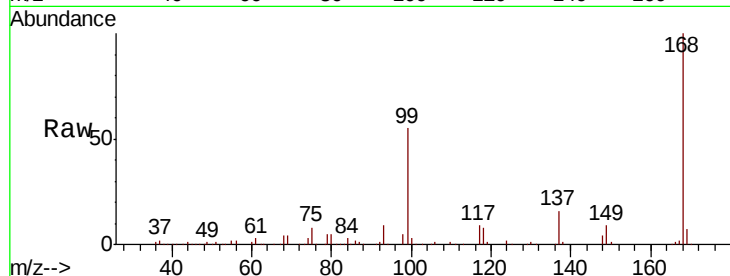
FEQC-TB-052319

Tot Ion:168 Resp: 178771

Ion Ratio Lower Upper

168 100

99 54.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

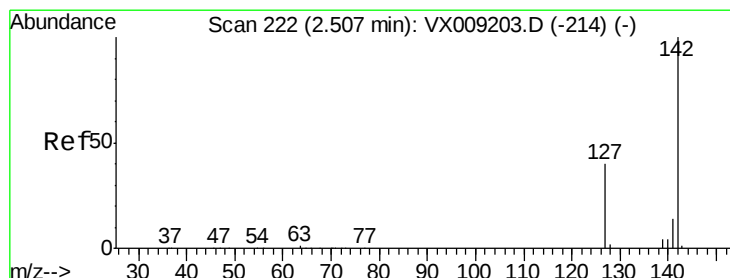
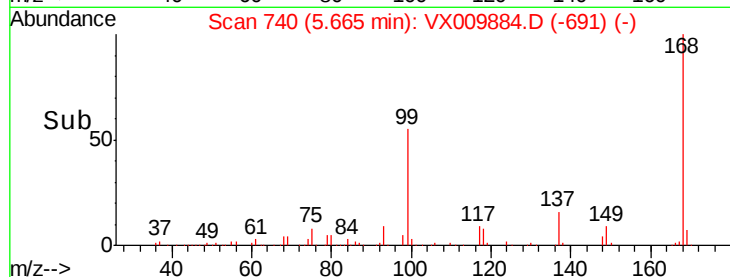
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#10

Methyl Iodide

Concen: 4.687 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

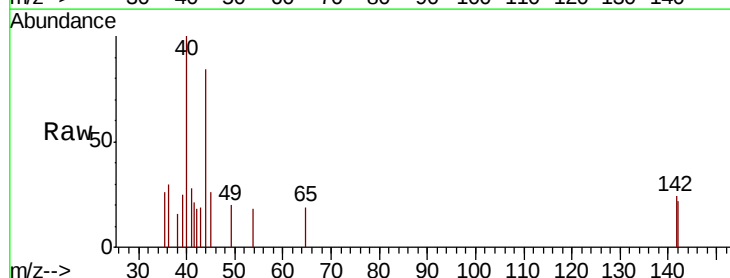
Tgt Ion:142 Resp: 199

Ion Ratio Lower Upper

142 100

127 19.6 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

150

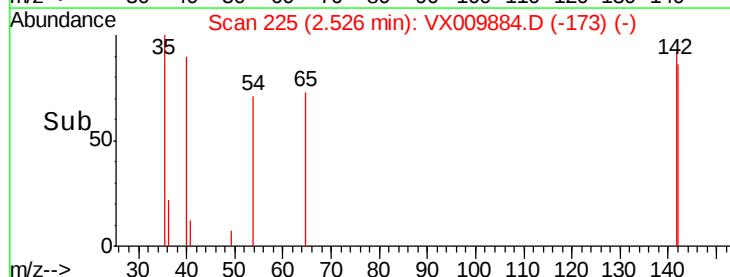
100

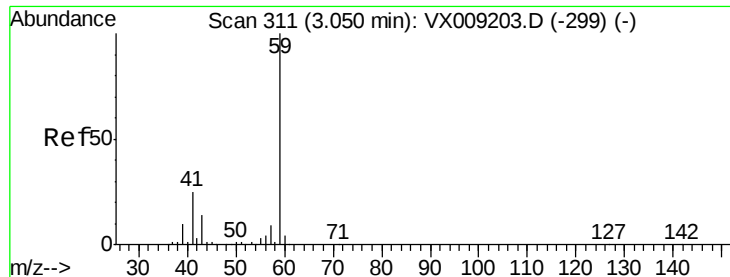
50

0

Time-->

2.50 2.55

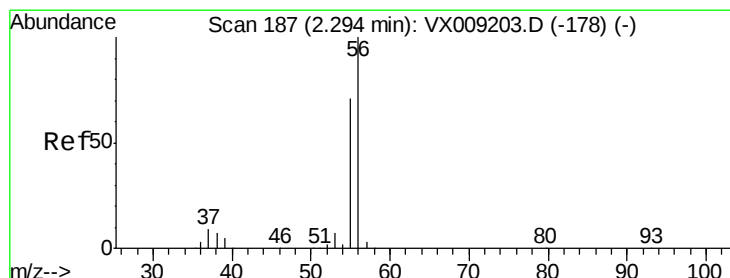
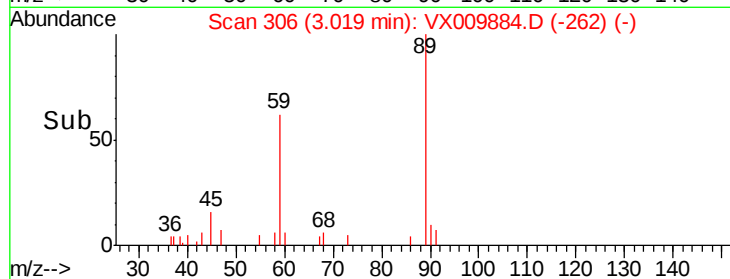
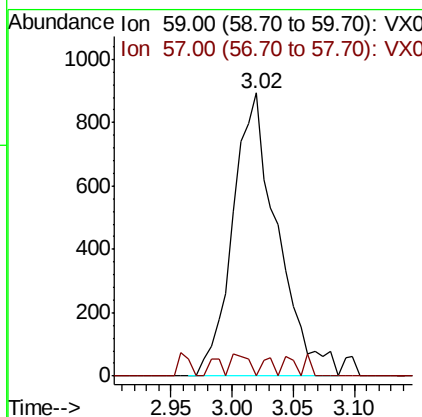
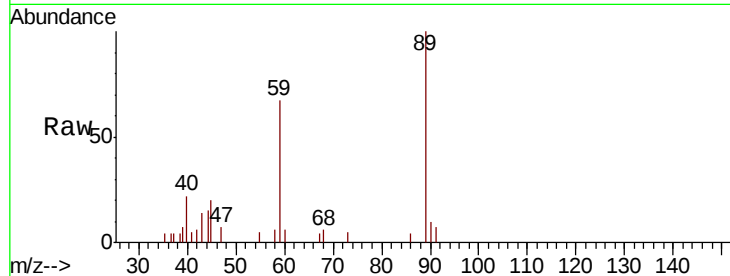




#11
Tert butyl alcohol
Concen: 3.990 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009884.D
Acq: 24 May 2019 14:14

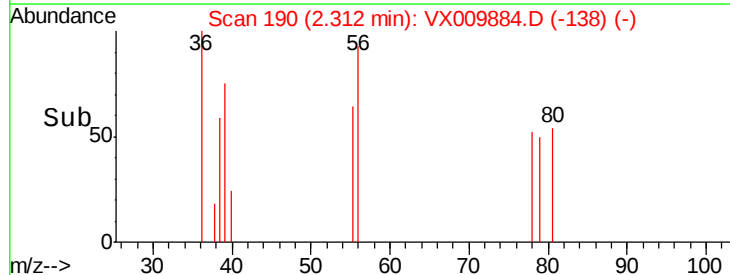
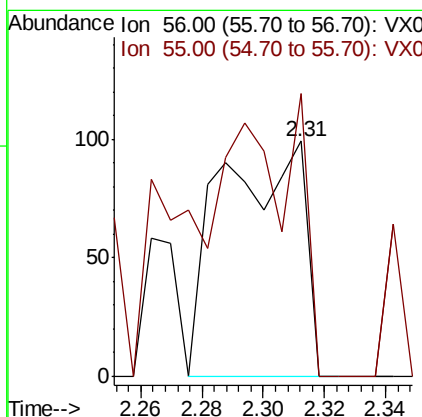
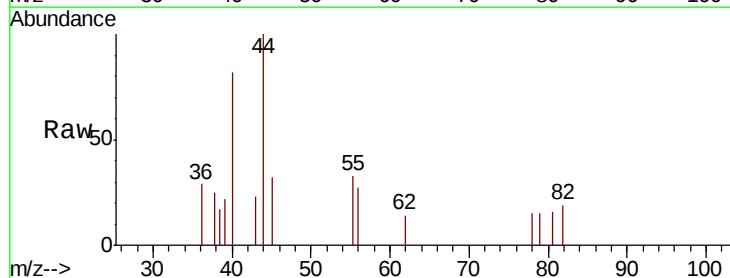
Instrument :
MSVOA_X
ClientSampleId :
FEQC-TB-052319

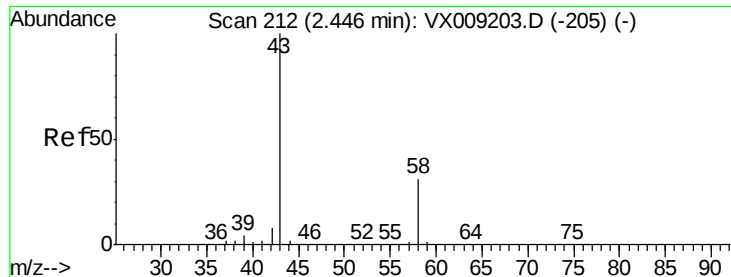
Tot Ion: 59 Resp: 2254
Ion Ratio Lower Upper
59 100
57 1.8 8.2 12.2#



#13
Acrolein
Concen: 0.362 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX009884.D
Acq: 24 May 2019 14:14

Tgt Ion: 56 Resp: 185
Ion Ratio Lower Upper
56 100
55 93.5 56.6 85.0#





#16

Acetone

Concen: 1.467 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

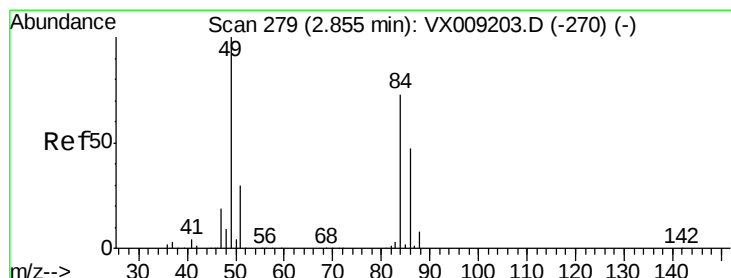
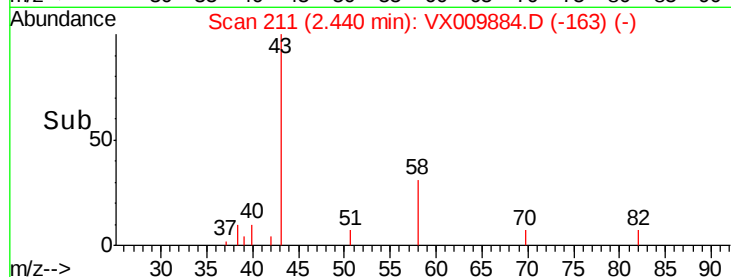
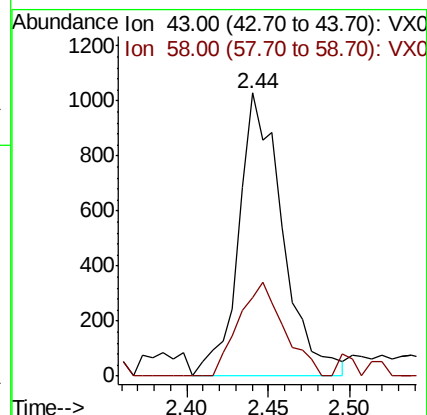
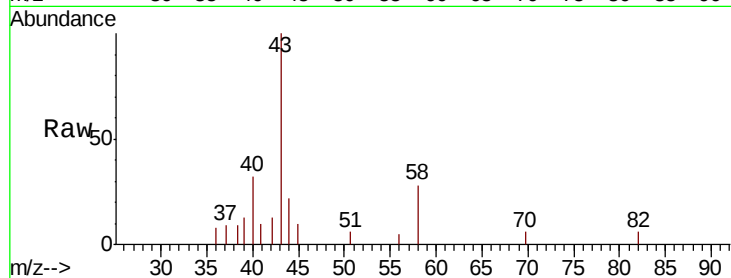
FEQC-TB-052319

Tot Ion: 43 Resp: 1923

Ion Ratio Lower Upper

43 100

58 27.6 24.9 37.3



#20

Methylene Chloride

Concen: 0.236 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Tgt Ion: 84 Resp: 501

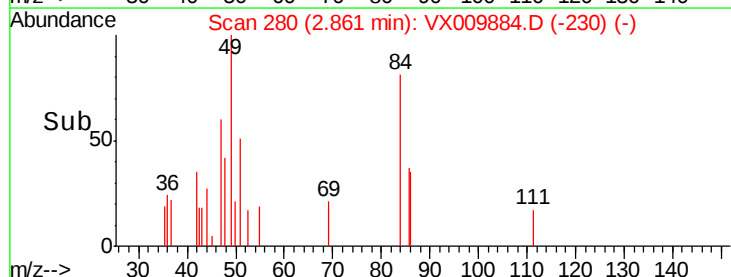
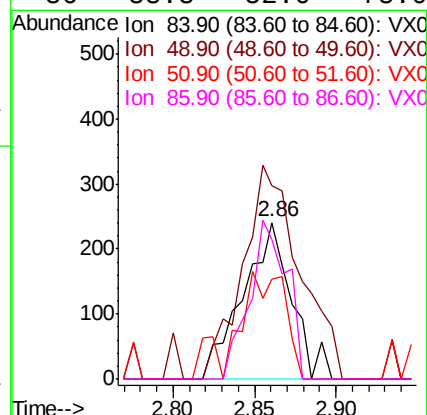
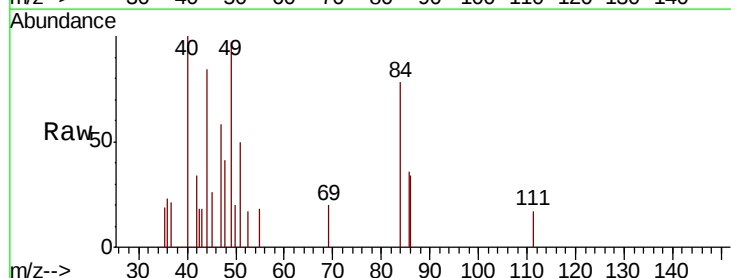
Ion Ratio Lower Upper

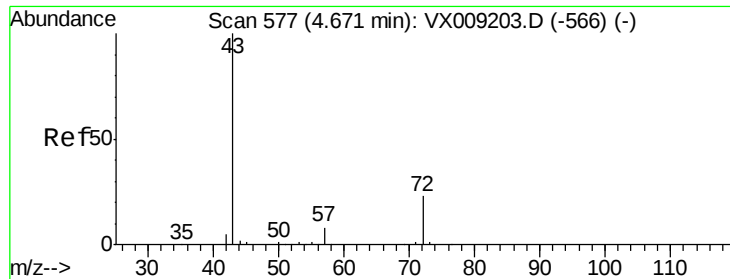
84 100

49 123.7 109.9 164.9

51 63.5 32.7 49.1#

86 88.8 52.0 78.0#





#25

2-Butanone

Concen: 0.358 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

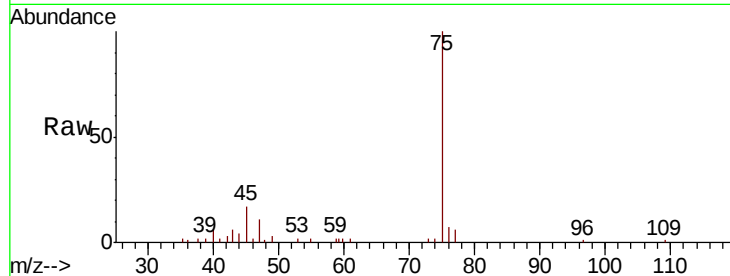
FEQC-TB-052319

Tot Ion: 43 Resp: 729

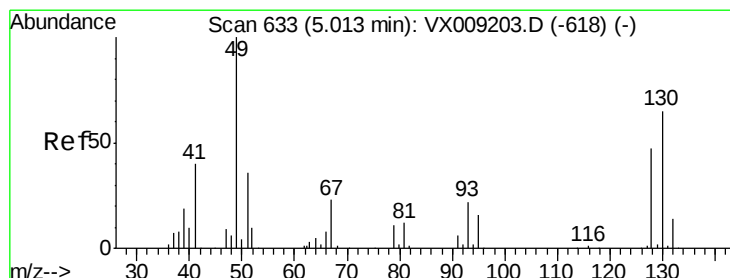
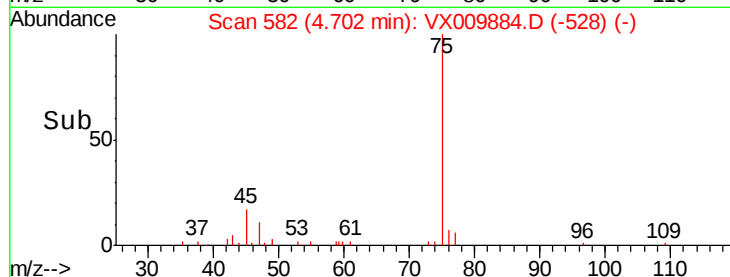
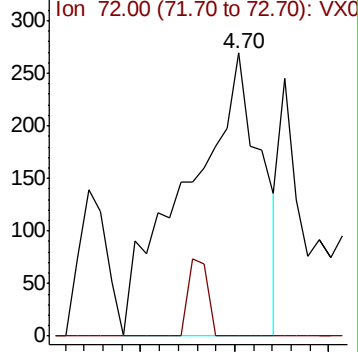
Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.01 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

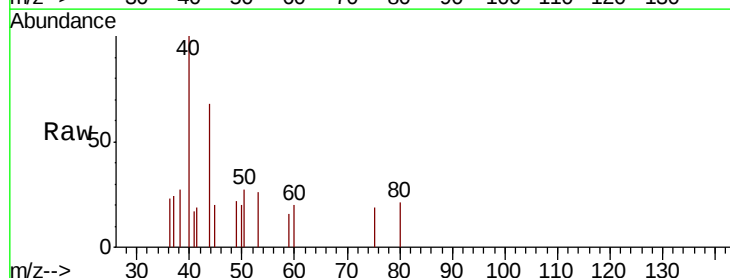
Tgt Ion: 49 Resp: 46

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

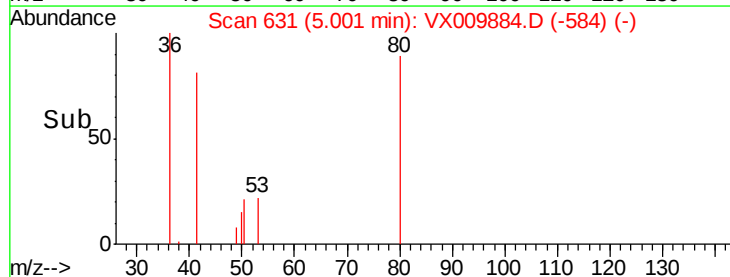
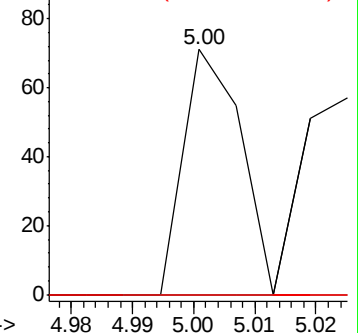
130 0.0 51.2 76.8#

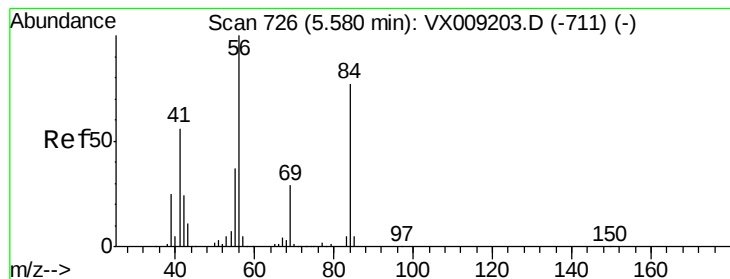


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#31

Cyclohexane

Concen: 1.159 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FEQC-TB-052319

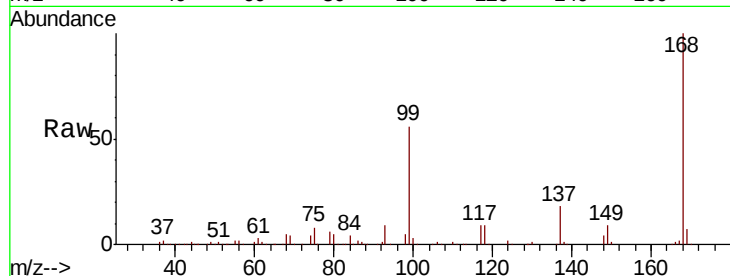
Tot Ion: 56 Resp: 4180

Ion Ratio Lower Upper

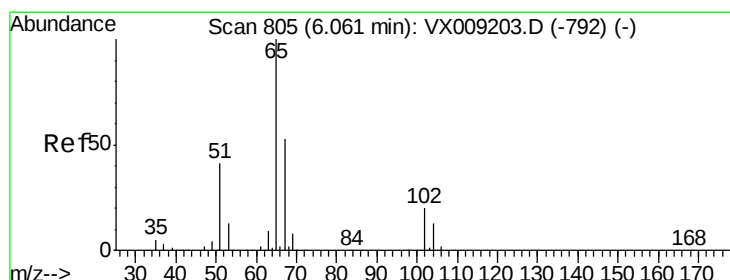
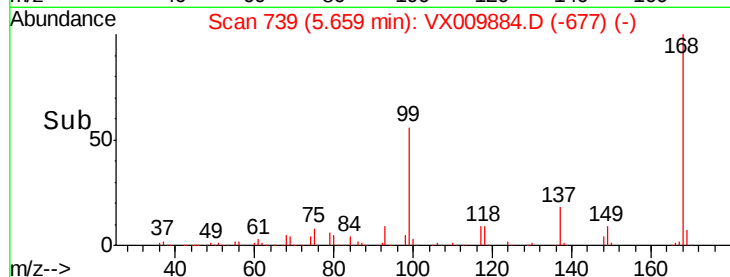
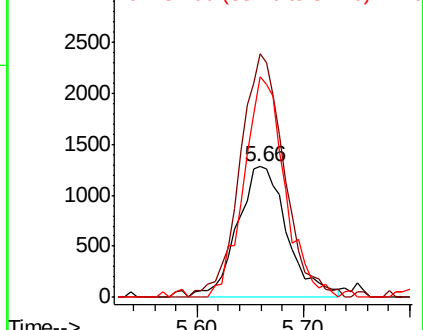
56 100

69 186.0 23.4 35.0#

84 168.8 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.238 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009884.D

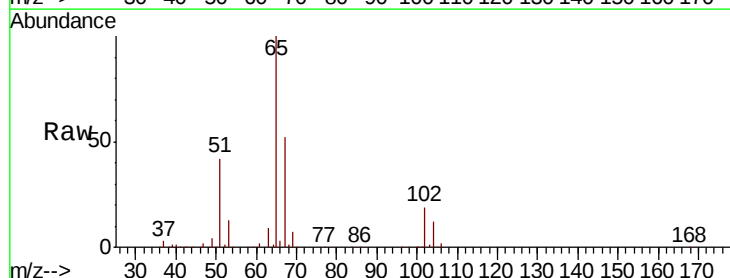
Acq: 24 May 2019 14:14

Tgt Ion: 65 Resp: 122602

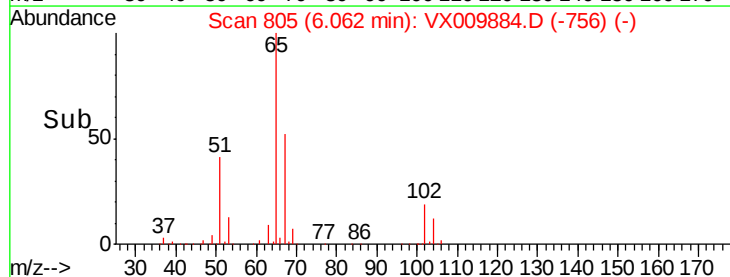
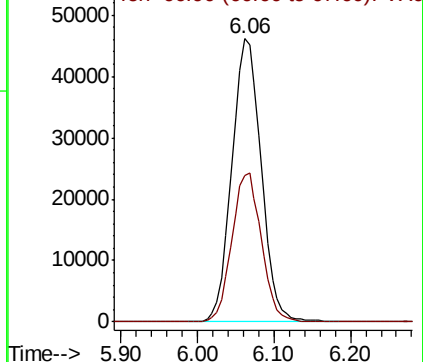
Ion Ratio Lower Upper

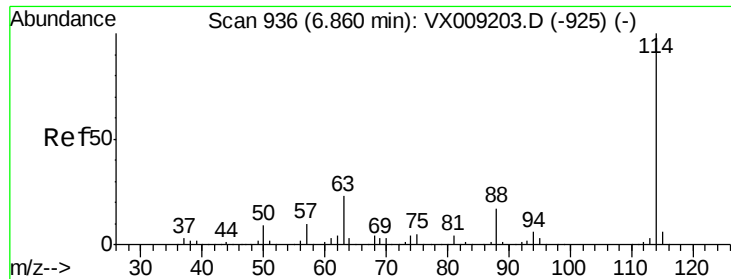
65 100

67 52.8 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

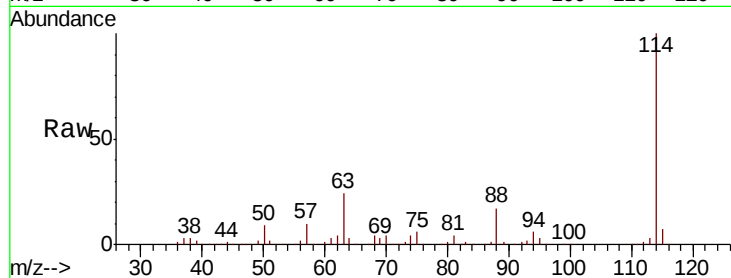




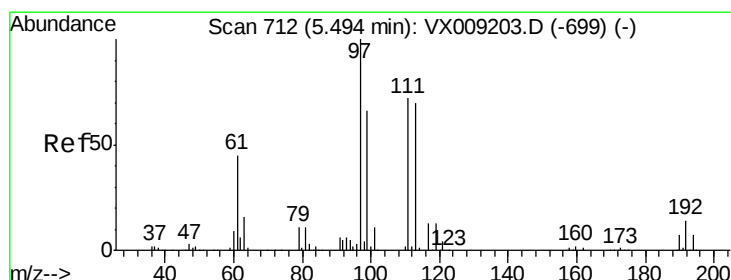
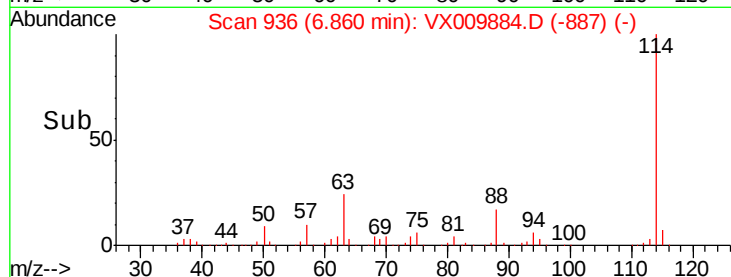
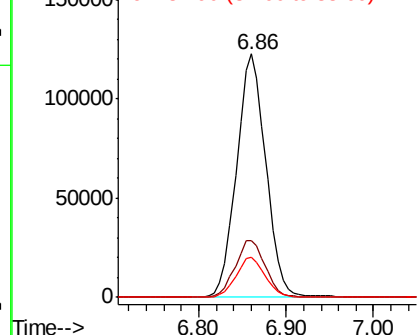
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX009884.D
Acq: 24 May 2019 14:14

Instrument :
MSVOA_X
ClientSampleId :
FEQC-TB-052319

Tot Ion:114 Resp: 285409
Ion Ratio Lower Upper
114 100
63 23.5 0.0 45.6
88 16.5 0.0 33.2

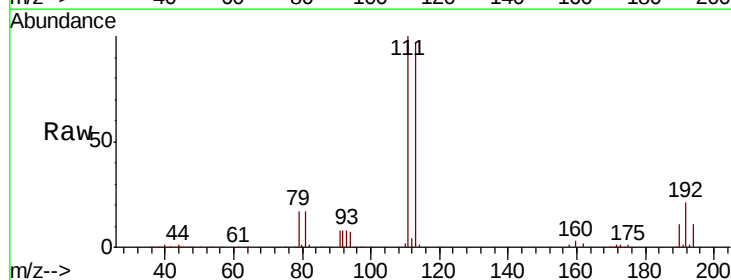


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

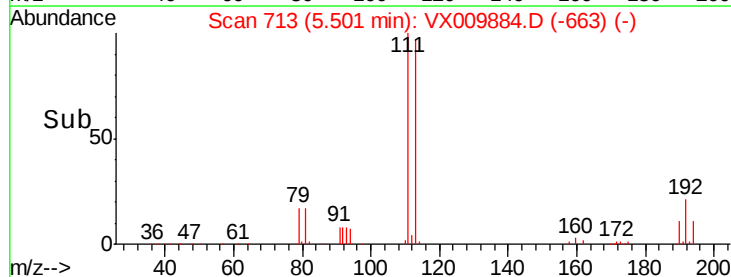
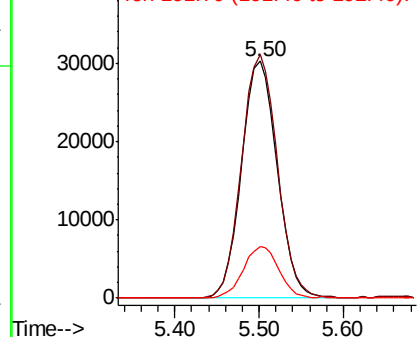


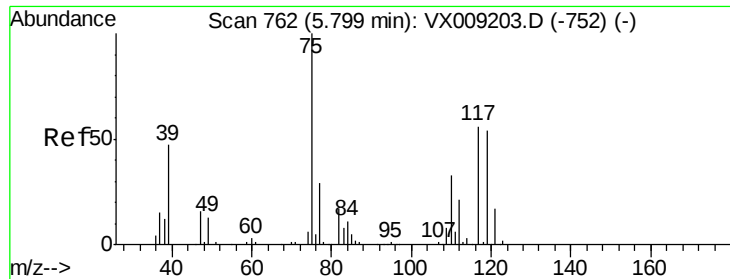
#35
Dibromofluoromethane
Concen: 48.463 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009884.D
Acq: 24 May 2019 14:14

Tgt Ion:113 Resp: 86952
Ion Ratio Lower Upper
113 100
111 103.0 82.8 124.2
192 21.9 17.0 25.6



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: 5.441 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FEQC-TB-052319

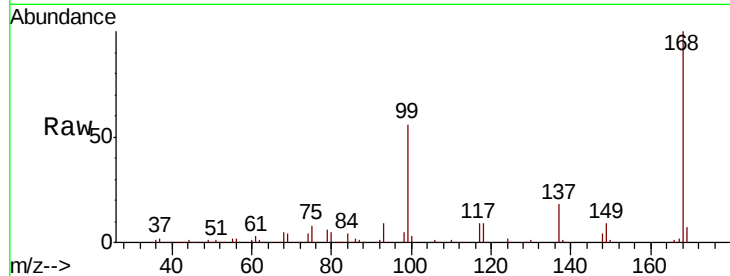
Tot Ion: 75 Resp: 14432

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

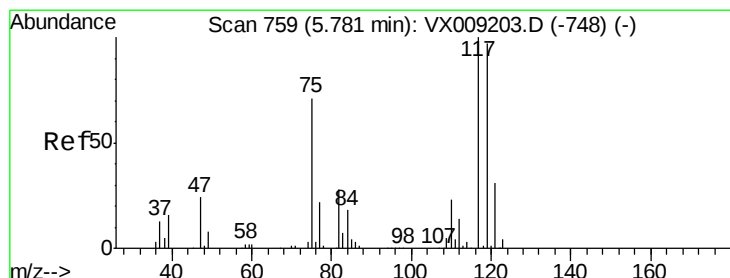
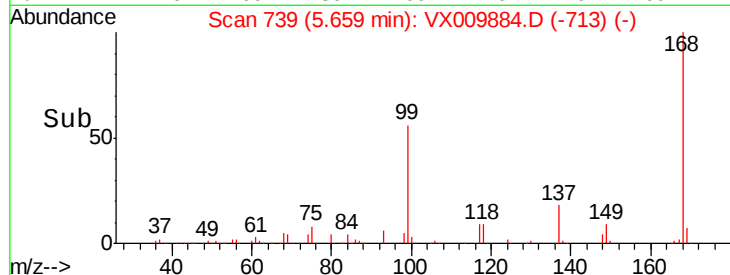
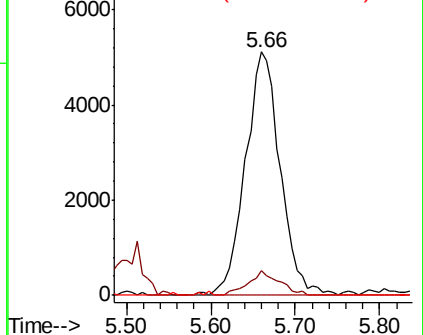
77 0.0 24.8 37.2#



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: 6.845 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

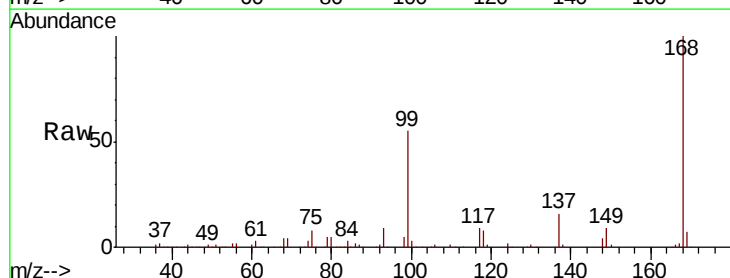
Tgt Ion:117 Resp: 16496

Ion Ratio Lower Upper

117 100

119 6.1 77.5 116.3#

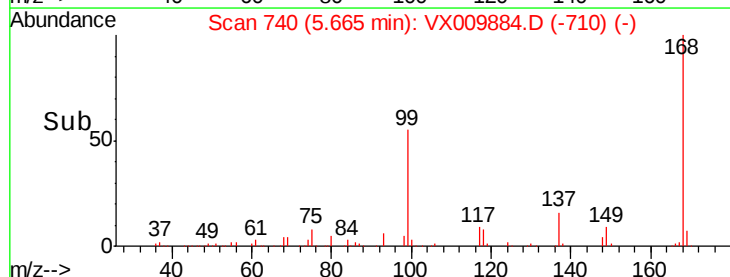
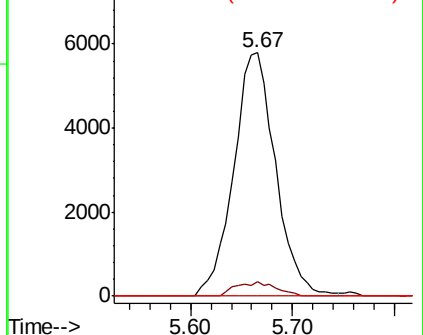
121 0.0 24.7 37.1#

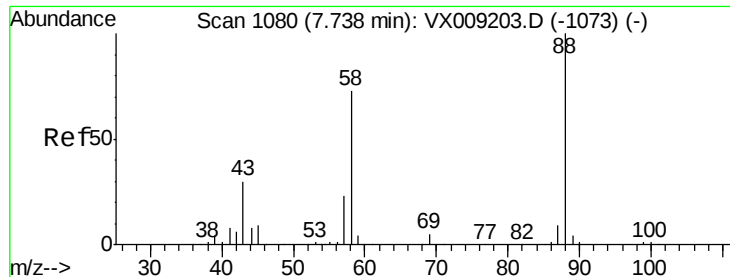


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.353 ug/l

RT: 7.81 min Scan# 1092

Delta R.T. 0.07 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FEQC-TB-052319

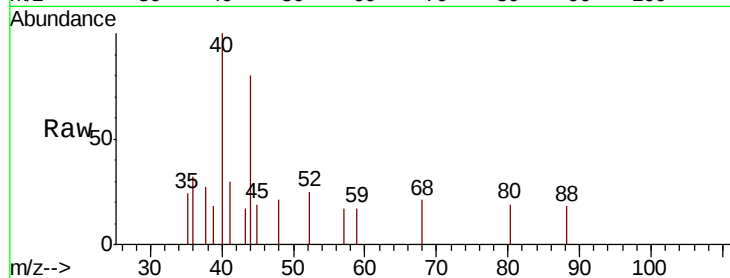
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 333.3 28.6 42.8#

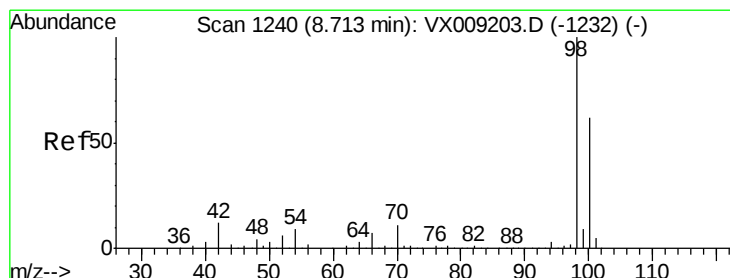
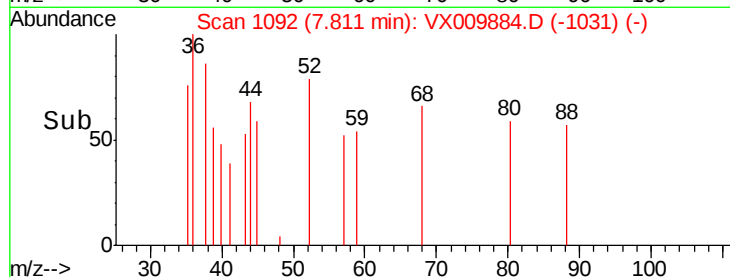
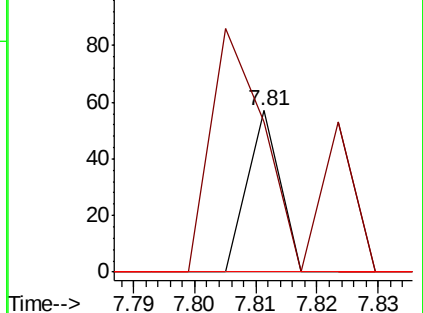
58 0.0 61.7 92.5#



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: 50.292 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009884.D

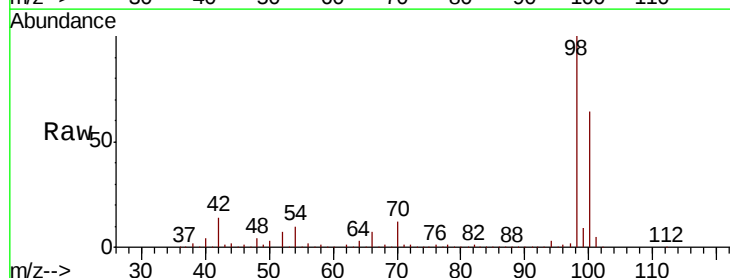
Acq: 24 May 2019 14:14

Tgt Ion: 98 Resp: 364297

Ion Ratio Lower Upper

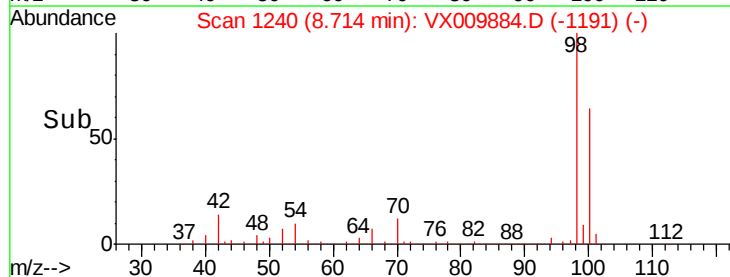
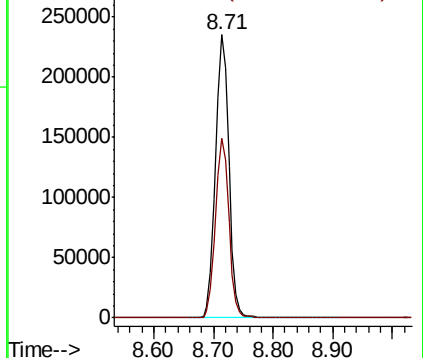
98 100

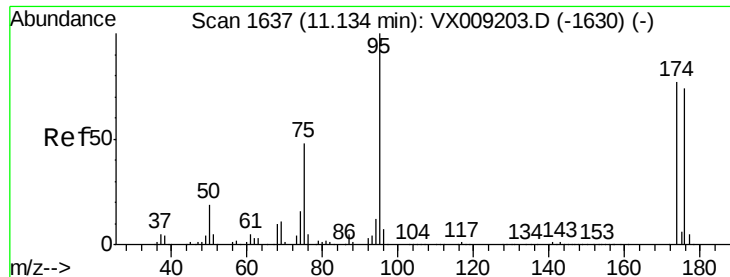
100 63.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.847 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FEQC-TB-052319

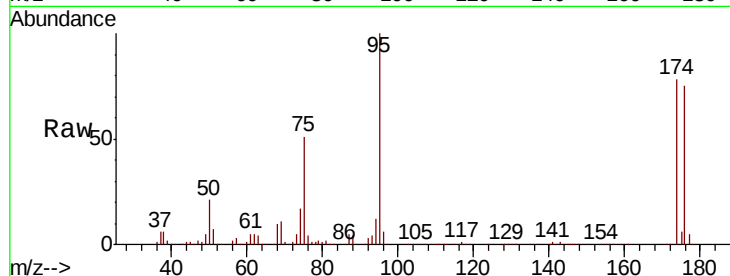
Tot Ion: 95 Resp: 123303

Ion Ratio Lower Upper

95 100

174 81.4 0.0 161.6

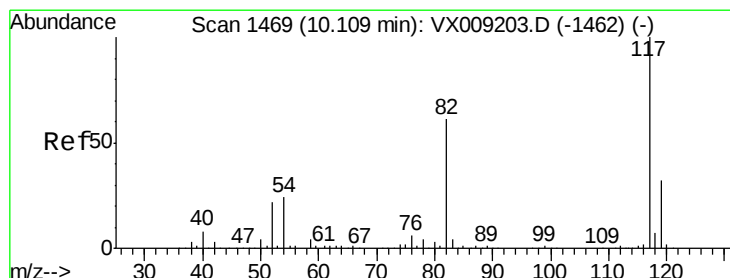
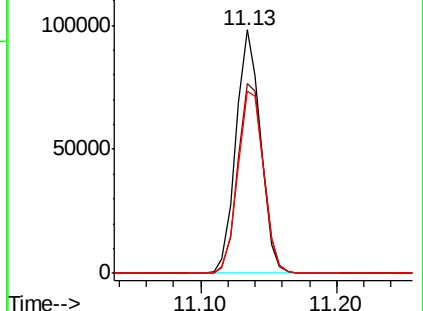
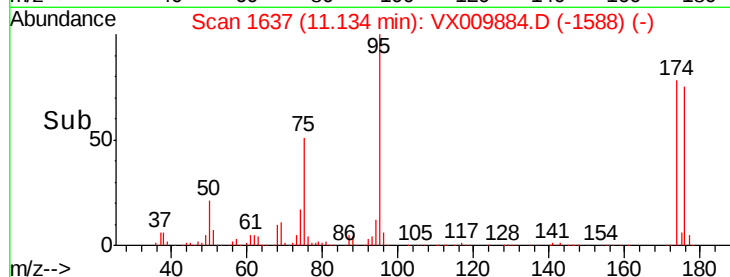
176 79.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009884.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009884.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009884.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

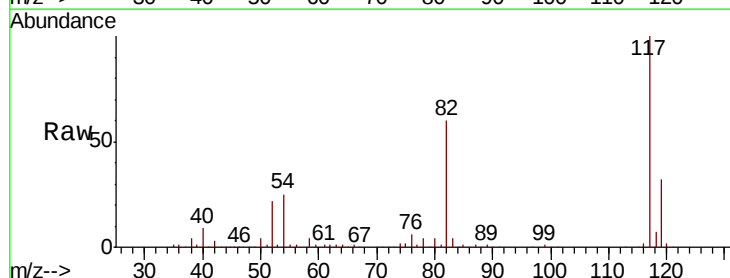
Tgt Ion: 117 Resp: 257986

Ion Ratio Lower Upper

117 100

82 60.4 48.8 73.2

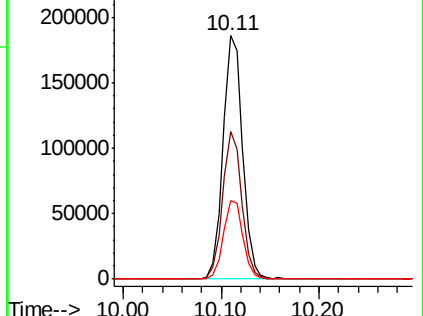
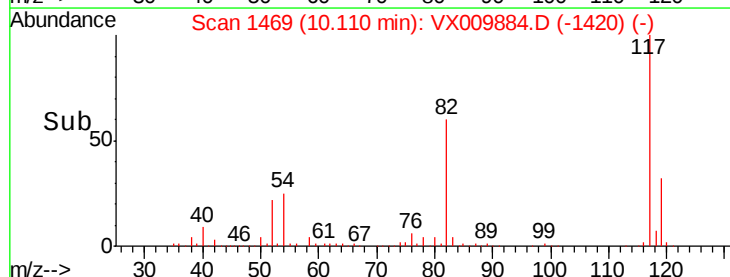
119 32.1 25.8 38.6

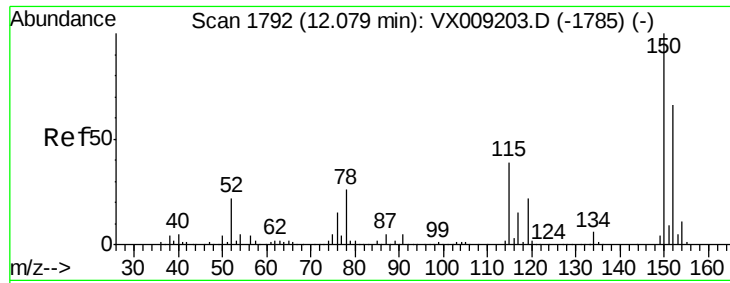


Abundance Ion 116.90 (116.60 to 117.60): VX009884.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009884.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009884.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FEQC-TB-052319

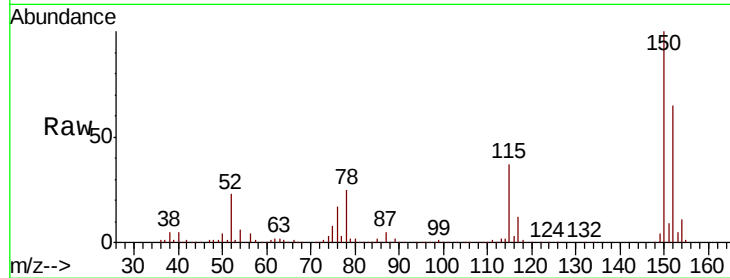
Tot Ion:152 Resp: 112618

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

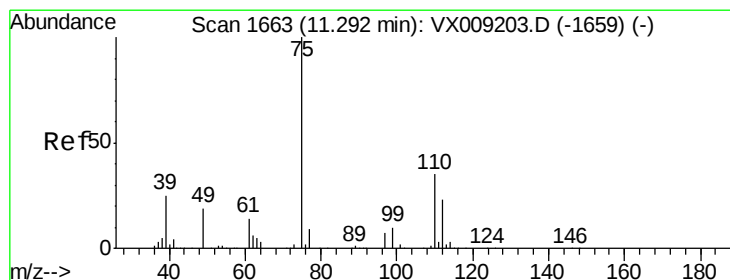
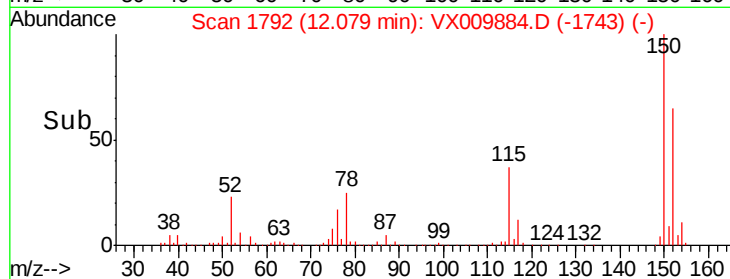
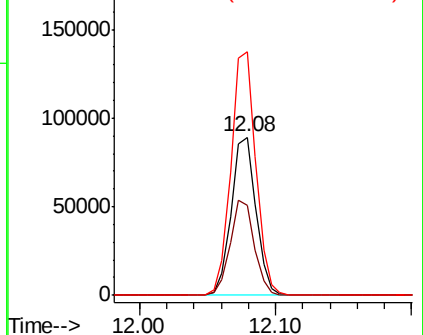
150 155.1 0.0 346.4



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: 24.935 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009884.D

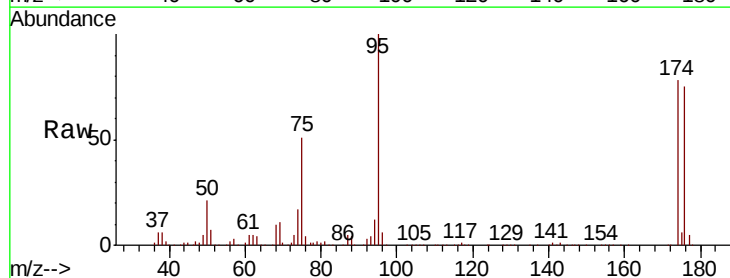
Acq: 24 May 2019 14:14

Tgt Ion: 75 Resp: 65138

Ion Ratio Lower Upper

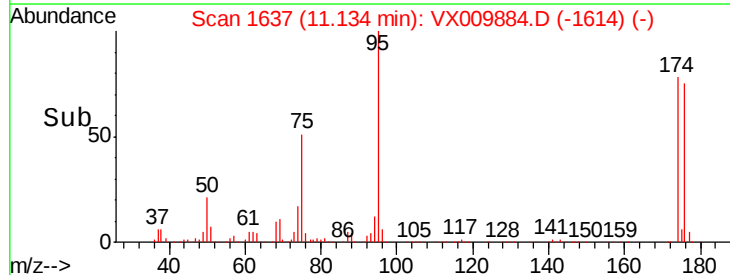
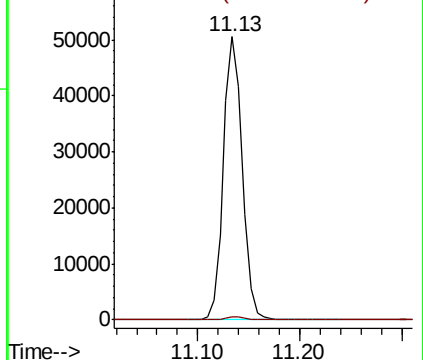
75 100

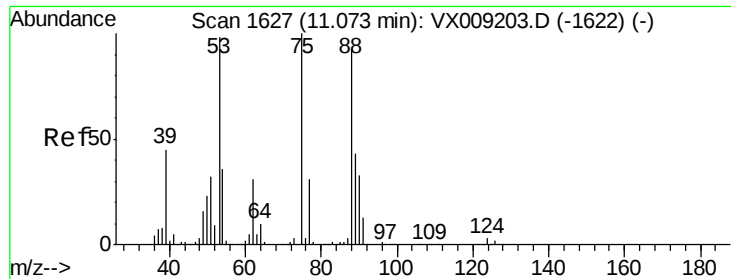
77 1.2 22.1 66.1#



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: 63.799 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009884.D

Acq: 24 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FEQC-TB-052319

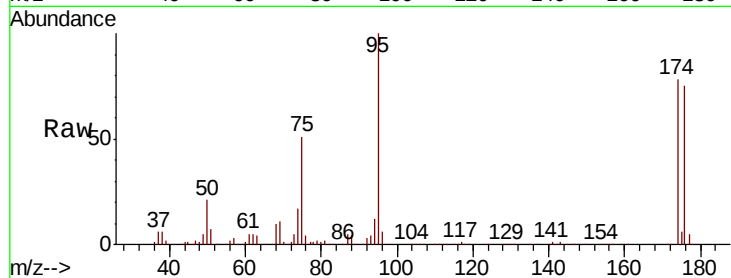
Tot Ion: 75 Resp: 65138

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.1 34.7 52.1#



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

