

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052219\
 Data File : VX009813.D
 Acq On : 22 May 2019 18:41
 Operator : JC/SP
 Sample : K2970-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-10

Quant Time: May 23 07:18:44 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	174269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280408	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110781	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	118929	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
35) Dibromofluoromethane	5.50	113	85213	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
50) Toluene-d8	8.71	98	354684	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.13	95	121520	46.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.98%	

Target Compounds

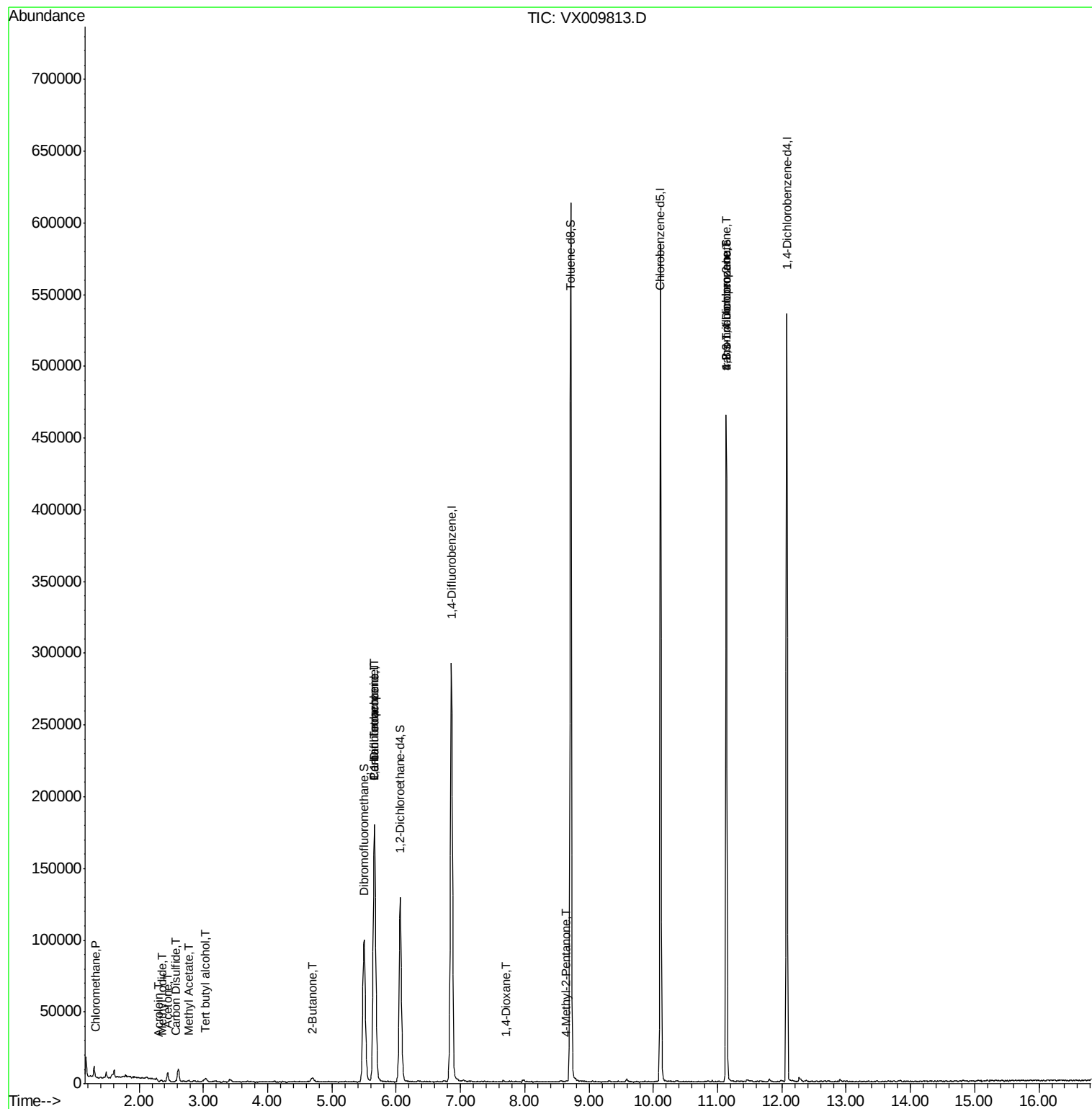
						Qvalue
3) Chloromethane	1.32	50	699	0.319	ug/l #	74
10) Methyl Iodide	2.35	142	19	4.603	ug/l #	42
11) Tert butyl alcohol	3.04	59	2932	5.324	ug/l #	84
13) Acrolein	2.30	56	293	0.588	ug/l #	14
16) Acetone	2.45	43	6960	5.448	ug/l	96
17) Carbon Disulfide	2.57	76	1047	0.228	ug/l #	84
18) Methyl Acetate	2.78	43	795	0.262	ug/l	99
25) 2-Butanone	4.70	43	1670	0.841	ug/l	93
28) Bromochloromethane	4.99	49	162	Below Cal	#	20
36) 1,1-Dichloropropene	5.66	75	13791	5.292	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16341	6.902	ug/l #	17
49) 1,4-Dioxane	7.71	88	39	0.667	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	905	0.238	ug/l #	74
76) 1,2,3-Trichloropropane	11.13	75	62370	24.271	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62370	62.101	ug/l #	10

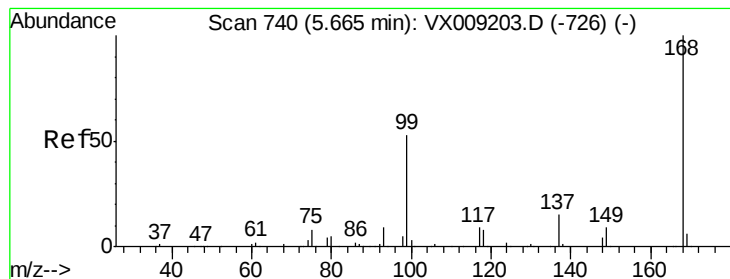
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
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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: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

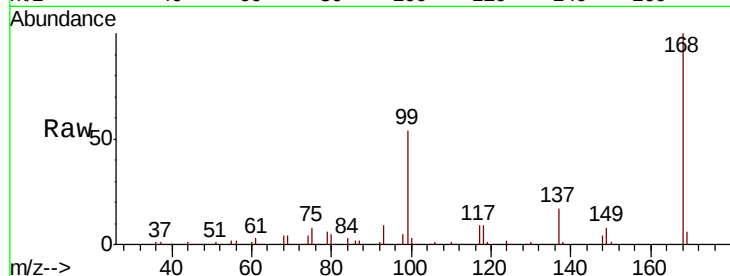
TP-10

Tot Ion:168 Resp: 174269

Ion Ratio Lower Upper

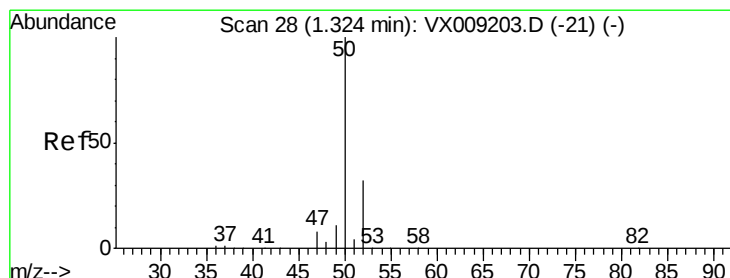
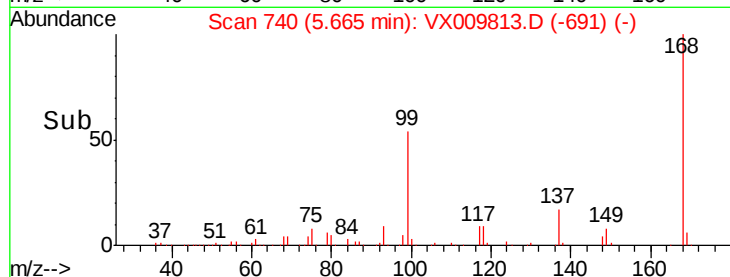
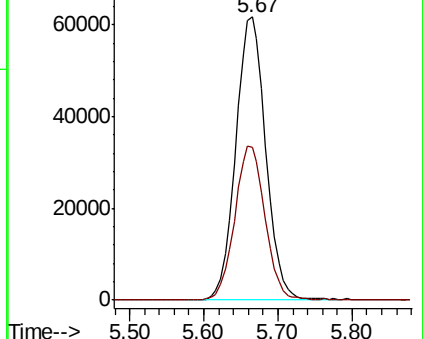
168 100

99 54.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.319 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009813.D

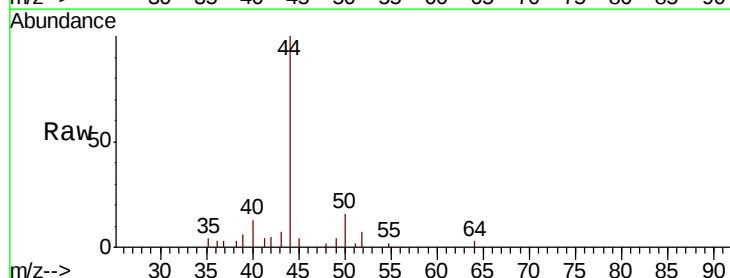
Acq: 22 May 2019 18:41

Tgt Ion: 50 Resp: 699

Ion Ratio Lower Upper

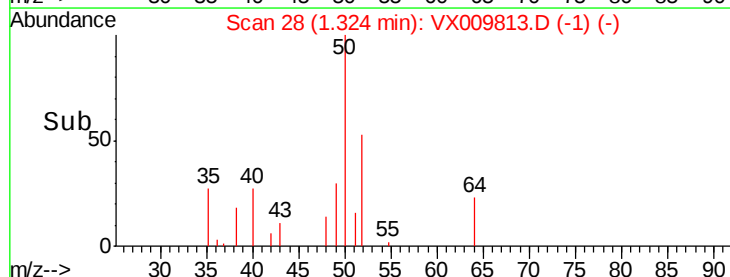
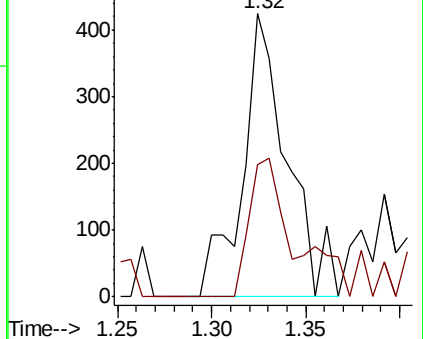
50 100

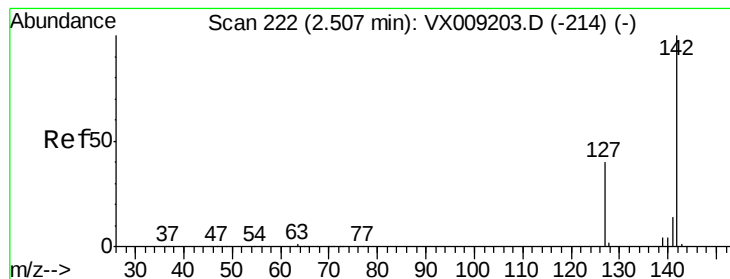
52 46.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#10

Methvl Iodide

Concen: 4.603 ug/l

RT: 2.35 min Scan# 197

Delta R.T. -0.15 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

TP-10

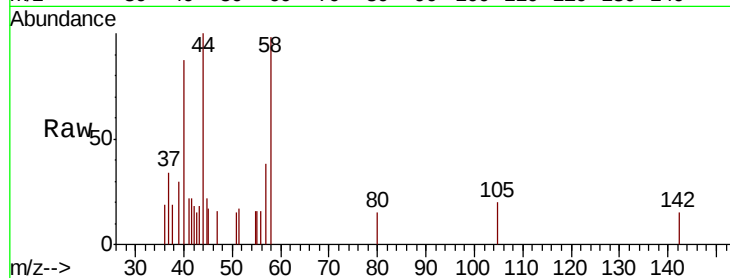
Tot Ion:142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

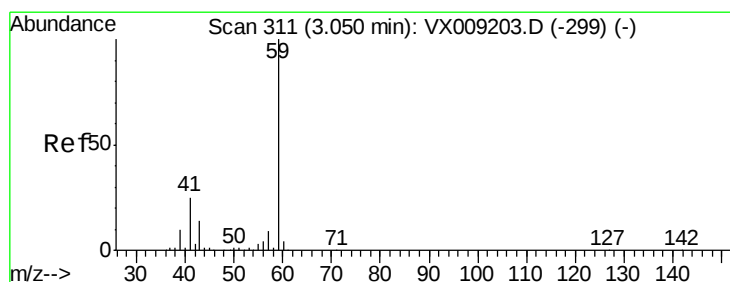
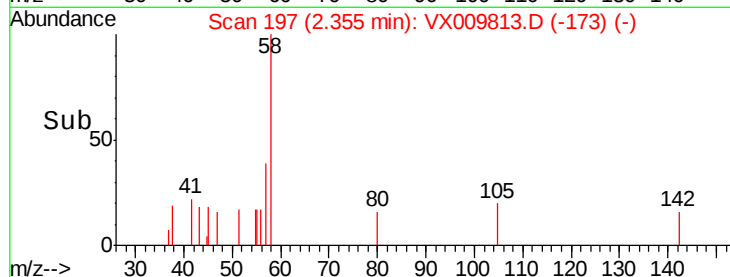
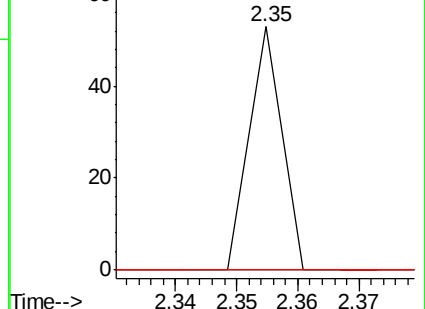
141 0.0 11.5 17.3#



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



#11

Tert butyl alcohol

Concen: 5.324 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX009813.D

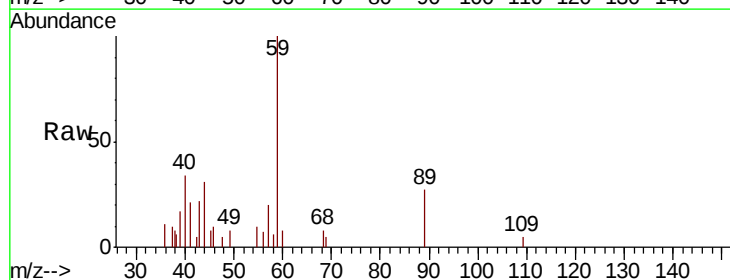
Acq: 22 May 2019 18:41

Tgt Ion: 59 Resp: 2932

Ion Ratio Lower Upper

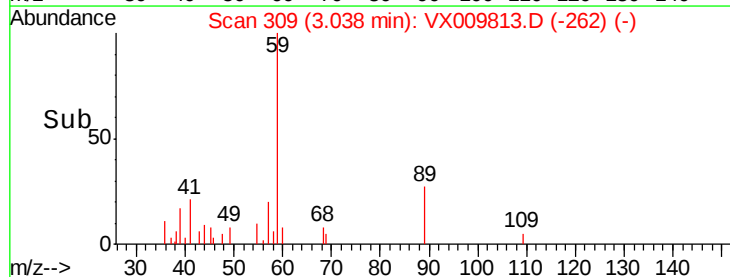
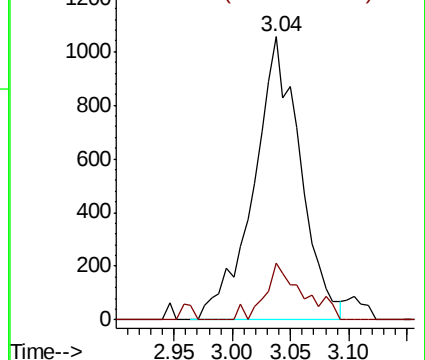
59 100

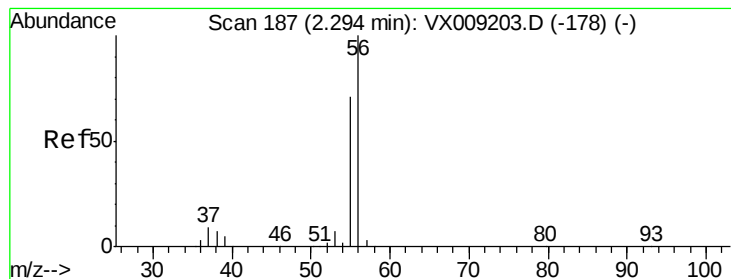
57 16.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.588 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

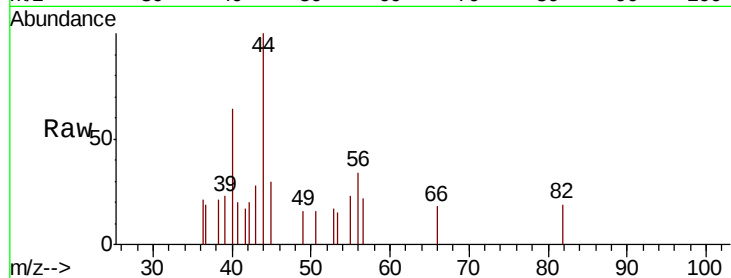
TP-10

Tot Ion: 56 Resp: 293

Ion Ratio Lower Upper

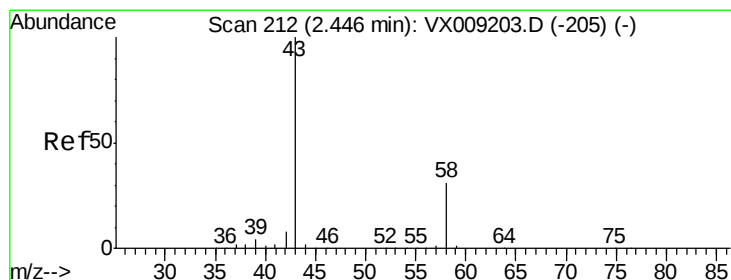
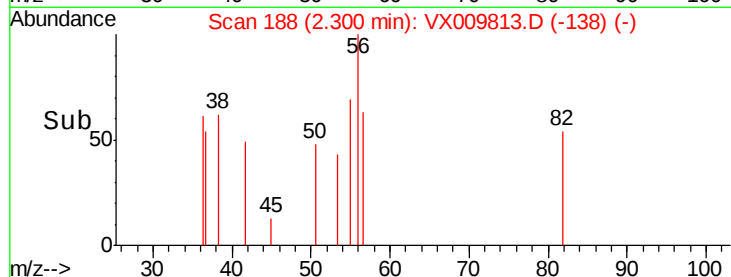
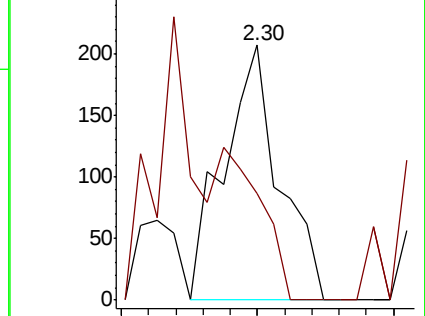
56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.448 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009813.D

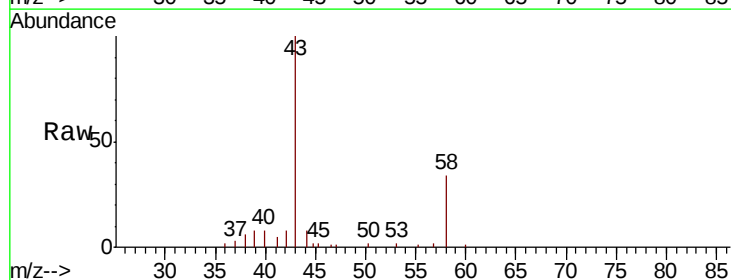
Acq: 22 May 2019 18:41

Tgt Ion: 43 Resp: 6960

Ion Ratio Lower Upper

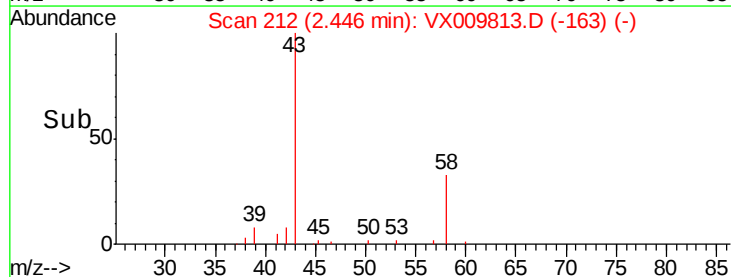
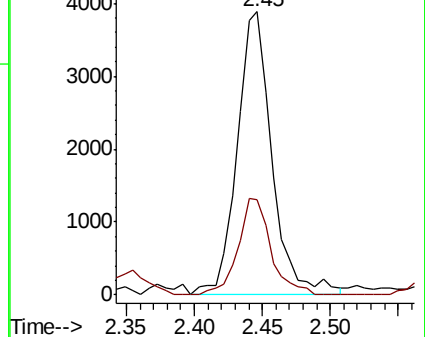
43 100

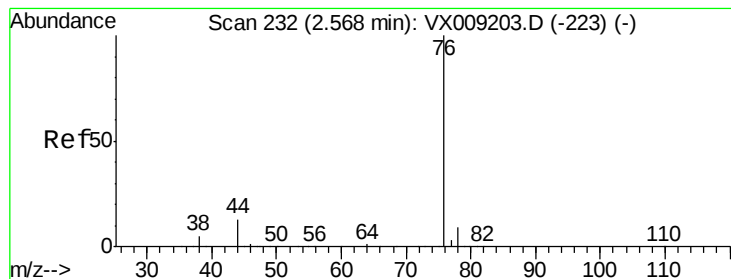
58 33.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.228 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

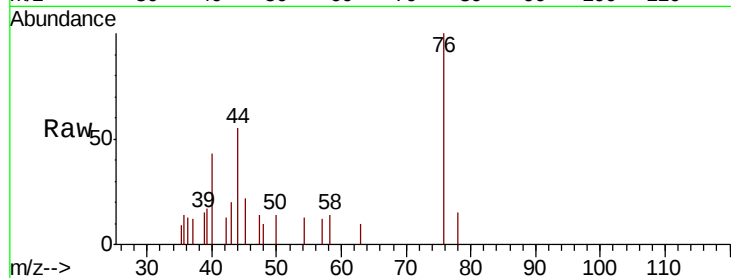
TP-10

Tot Ion: 76 Resp: 1047

Ion Ratio Lower Upper

76 100

78 15.1 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

500

400

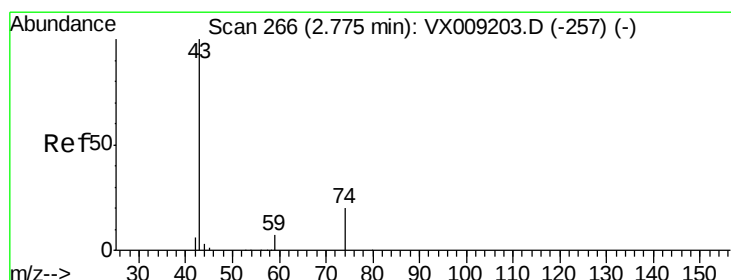
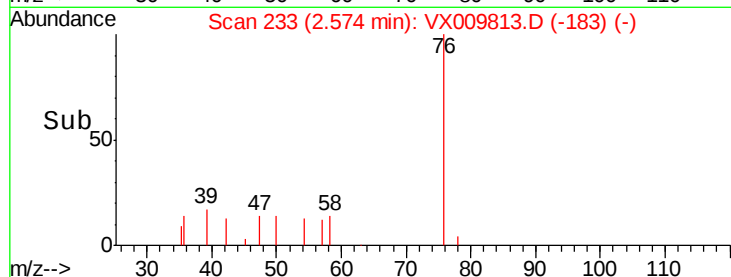
300

200

100

0

Time--> 2.50 2.55 2.60 2.65



#18

Methyl Acetate

Concen: 0.262 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX009813.D

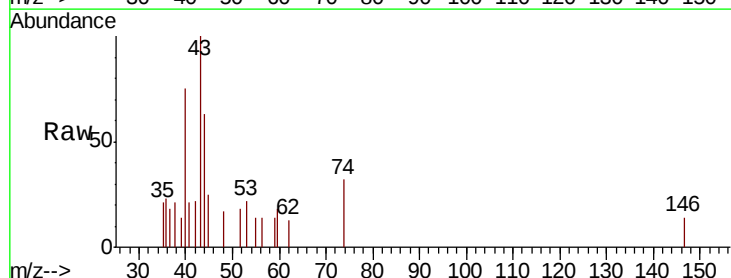
Acq: 22 May 2019 18:41

Tgt Ion: 43 Resp: 795

Ion Ratio Lower Upper

43 100

74 20.9 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

400

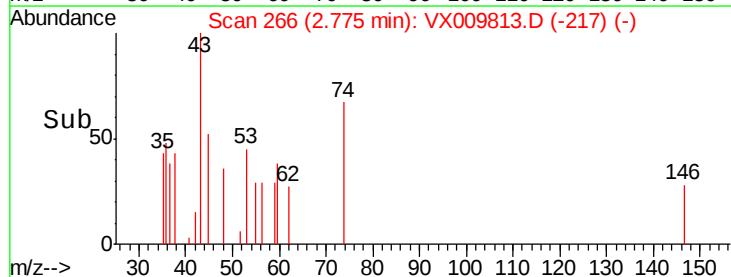
300

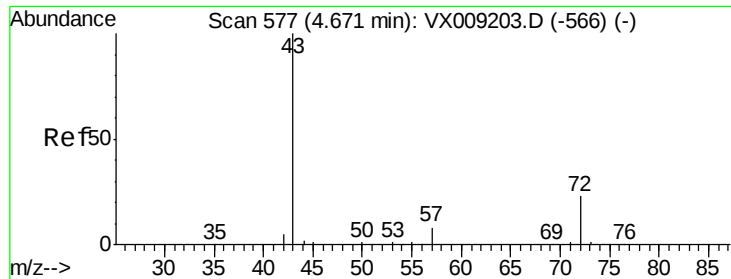
200

100

0

Time--> 2.70 2.75 2.80





#25

2-Butanone

Concen: 0.841 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

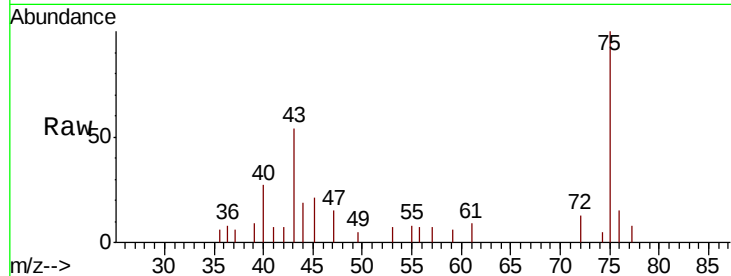
TP-10

Tot Ion: 43 Resp: 1670

Ion Ratio Lower Upper

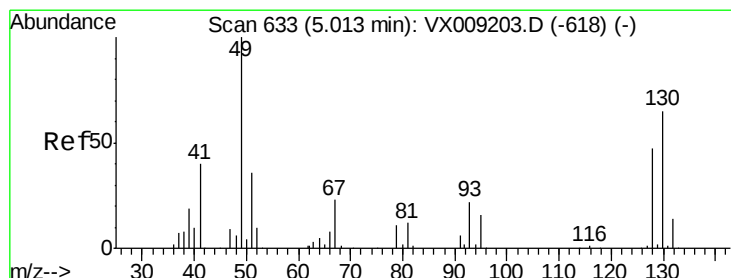
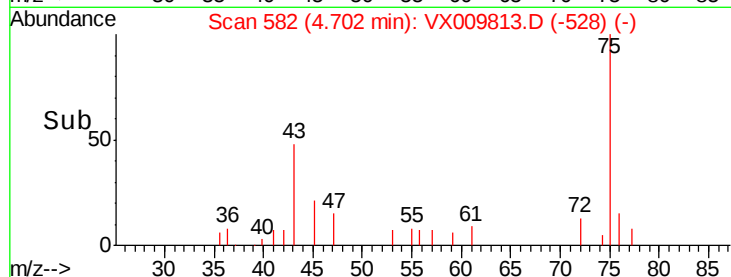
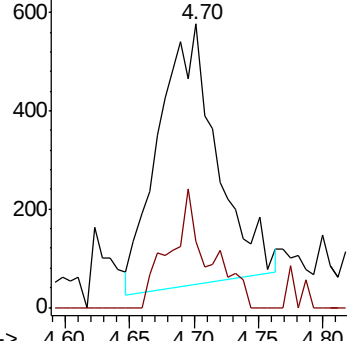
43 100

72 26.3 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

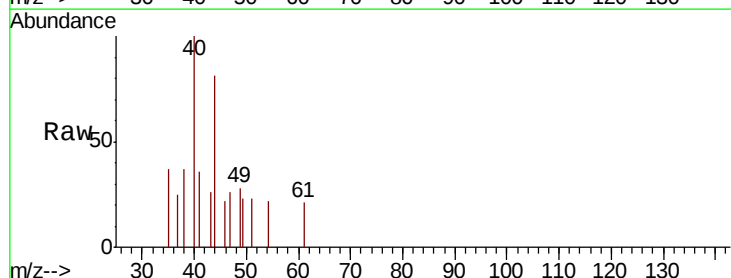
Tgt Ion: 49 Resp: 162

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

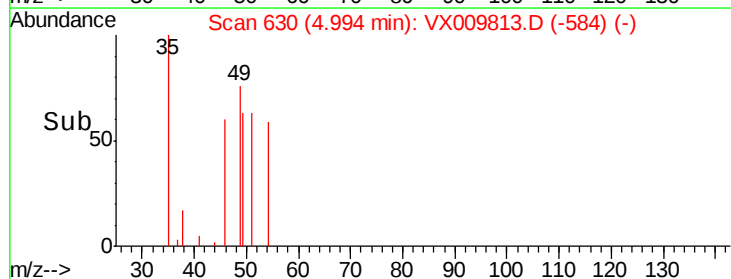
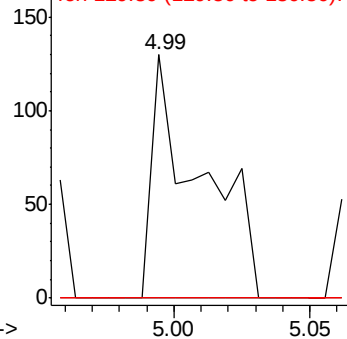
130 0.0 51.2 76.8#



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





#33

1,2-Dichloroethane-d4

Concen: 49.992 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

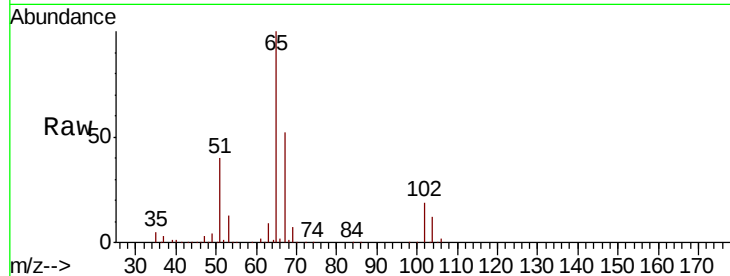
TP-10

Tot Ion: 65 Resp: 118929

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

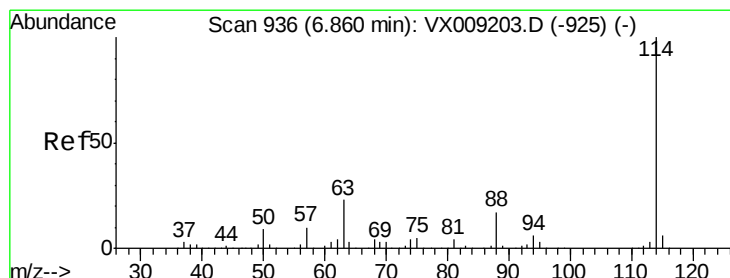
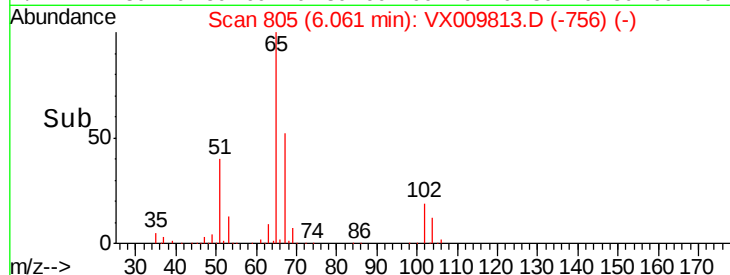
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

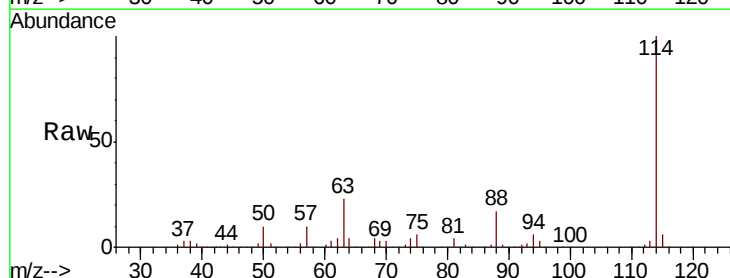
Tgt Ion: 114 Resp: 280408

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.6

88 16.6 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

150000

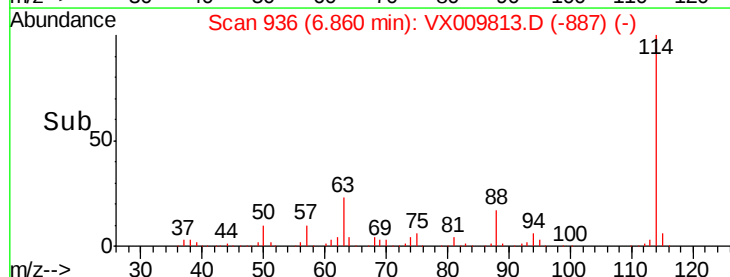
100000

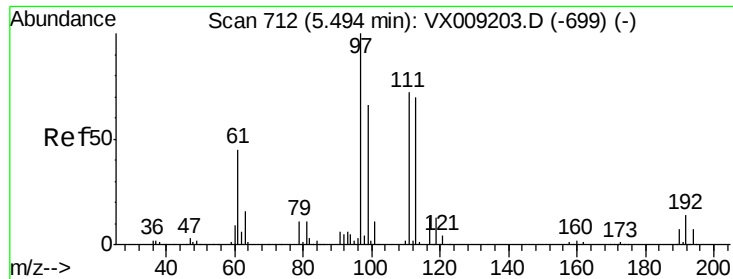
50000

0

Time-->

6.80 6.86 6.90 6.96

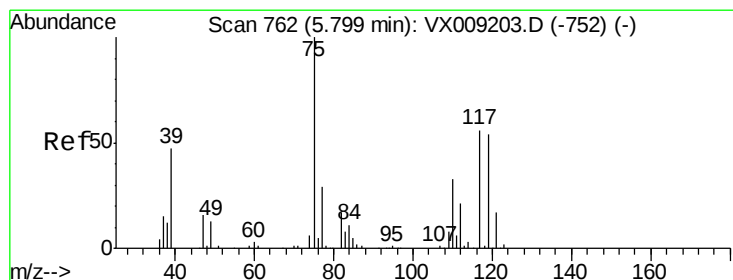
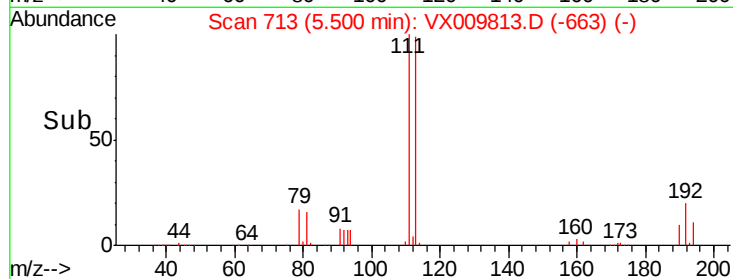
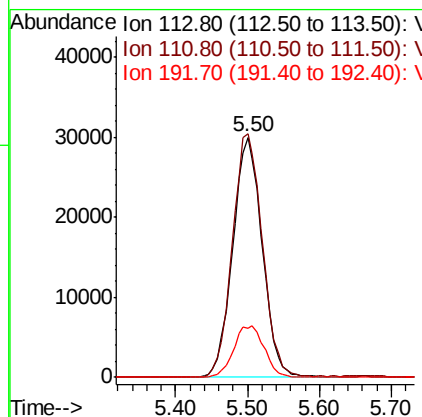
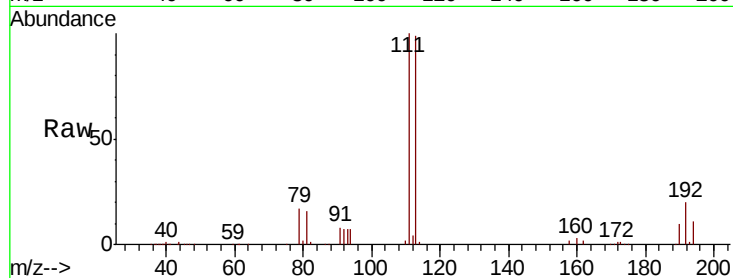




#35
 Dibromofluoromethane
 Concen: 48.341 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009813.D
 Acq: 22 May 2019 18:41

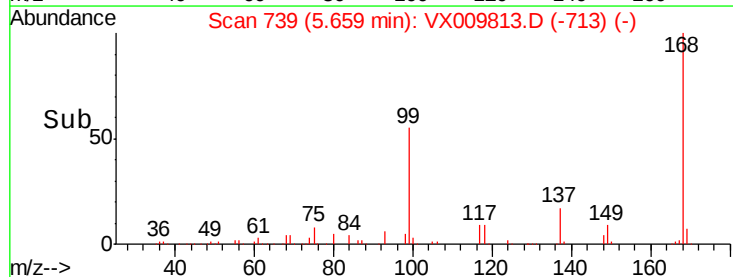
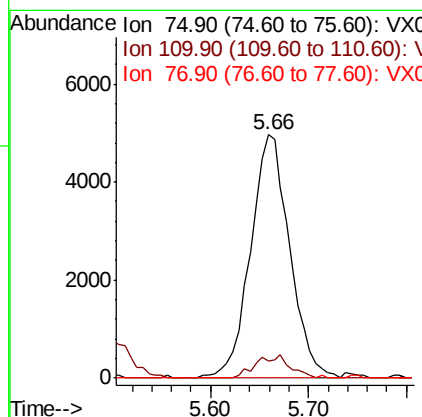
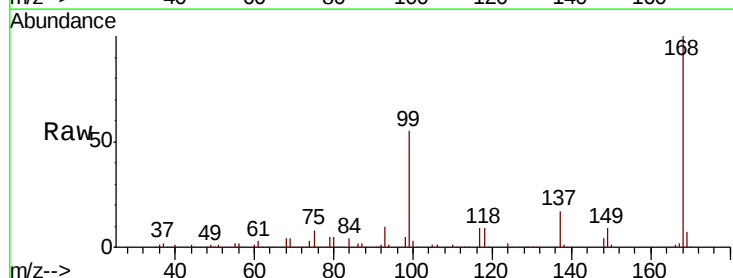
Instrument :
 MSVOA_X
 ClientSampled :
 TP-10

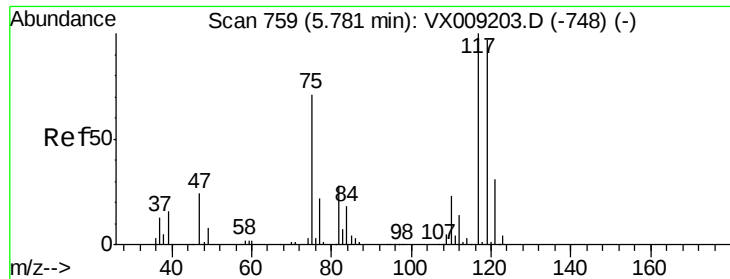
Tot Ion:113 Resp: 85213
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.8 124.2
 192 22.3 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.292 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009813.D
 Acq: 22 May 2019 18:41

Tgt Ion: 75 Resp: 13791
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.902 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

TP-10

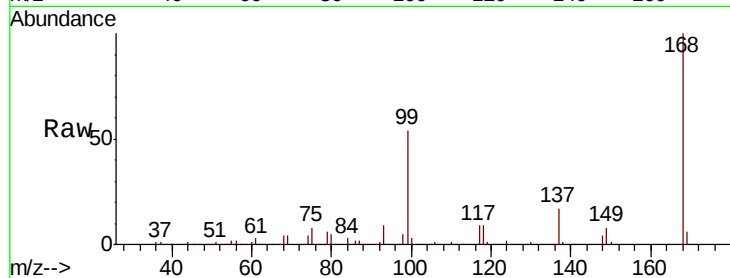
Tot Ion:117 Resp: 16341

Ion Ratio Lower Upper

117 100

119 6.5 77.5 116.3#

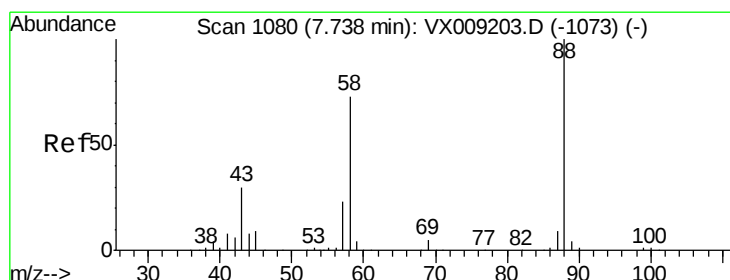
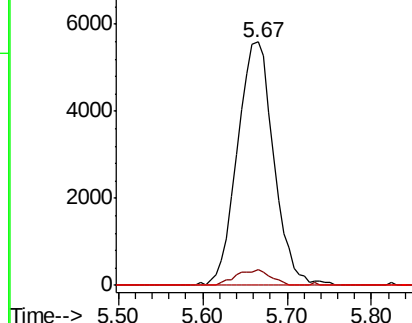
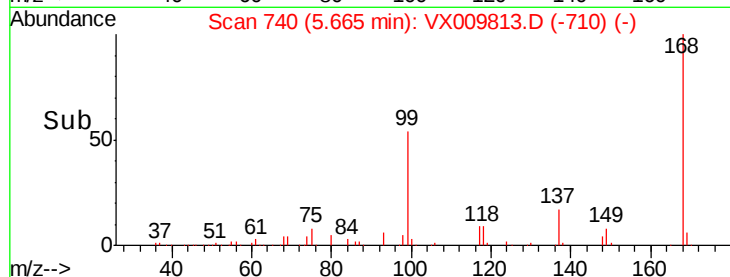
121 0.0 24.7 37.1#



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: 0.667 ug/l

RT: 7.71 min Scan# 1075

Delta R.T. -0.03 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

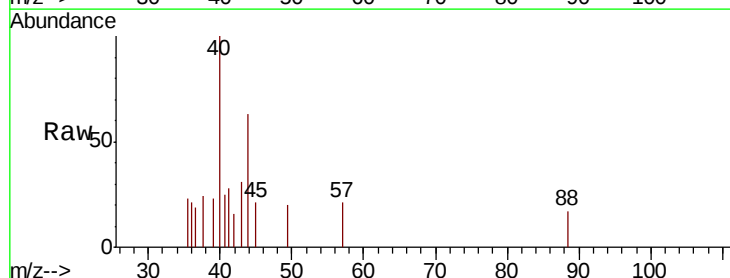
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 474.4 28.6 42.8#

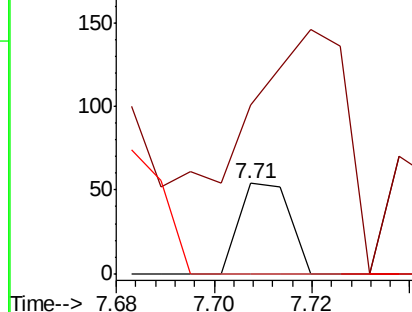
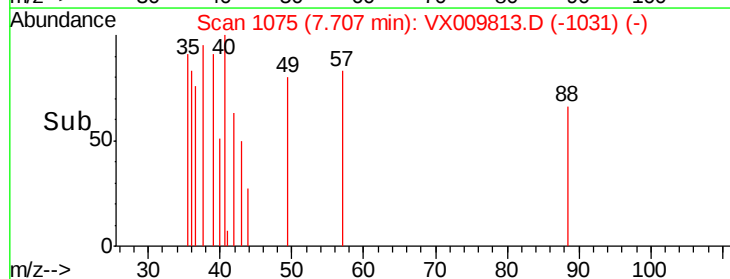
58 0.0 61.7 92.5#

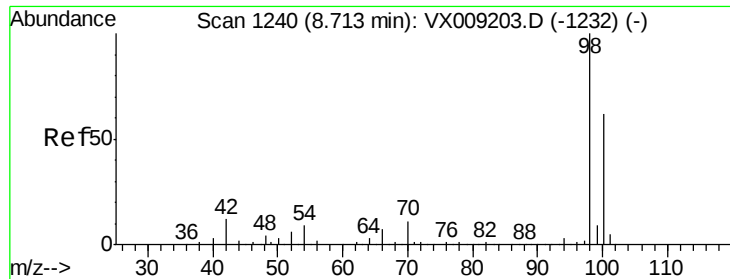


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.838 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

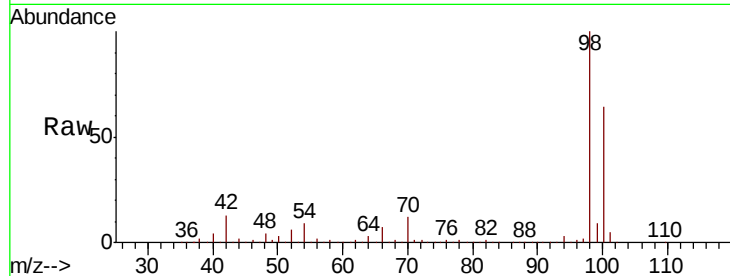
TP-10

Tot Ion: 98 Resp: 354684

Ion Ratio Lower Upper

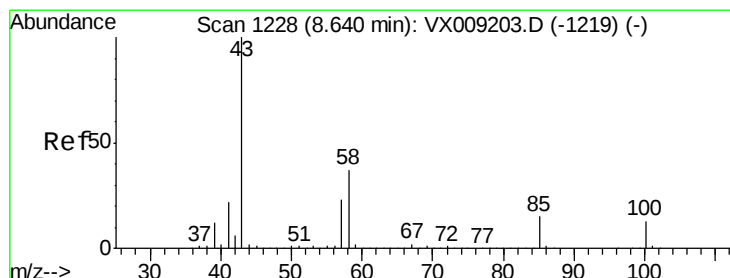
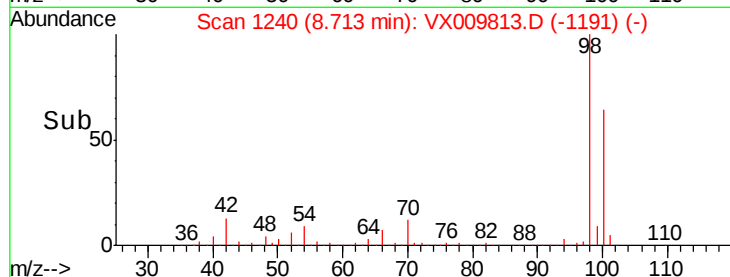
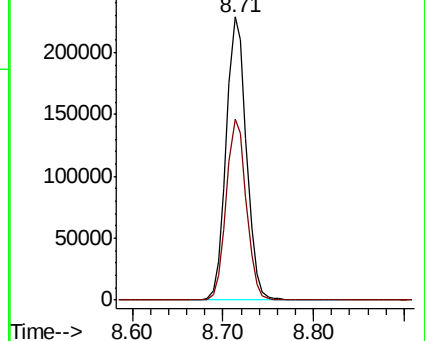
98 100

100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.238 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX009813.D

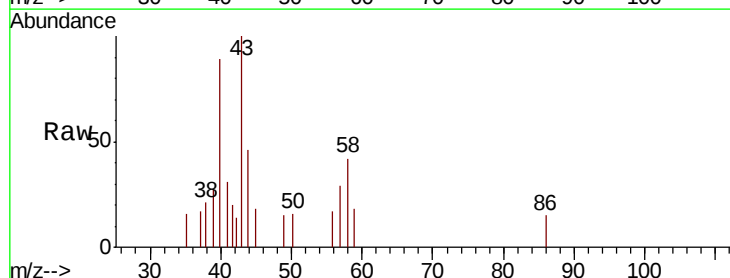
Acq: 22 May 2019 18:41

Tgt Ion: 43 Resp: 905

Ion Ratio Lower Upper

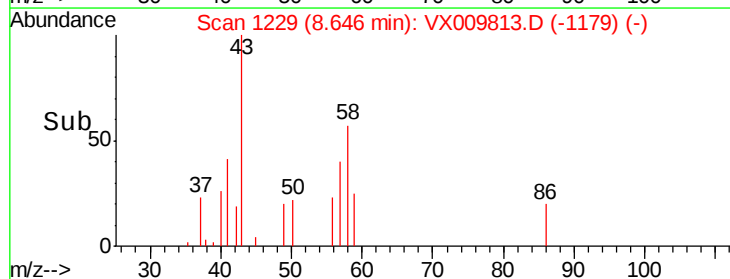
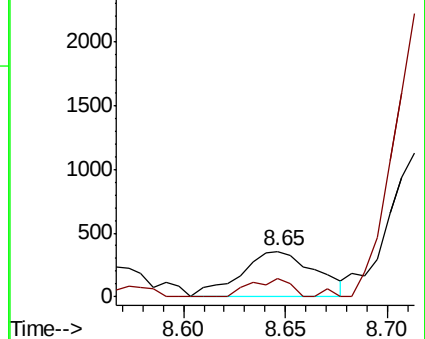
43 100

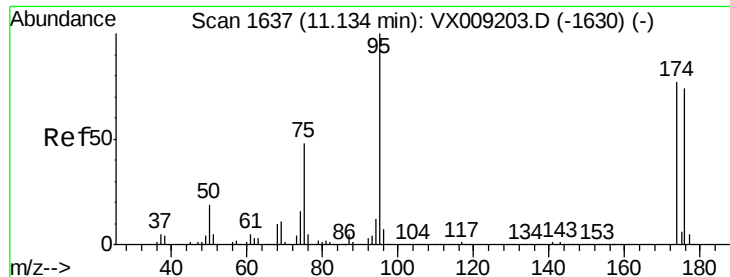
58 21.7 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.993 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

TP-10

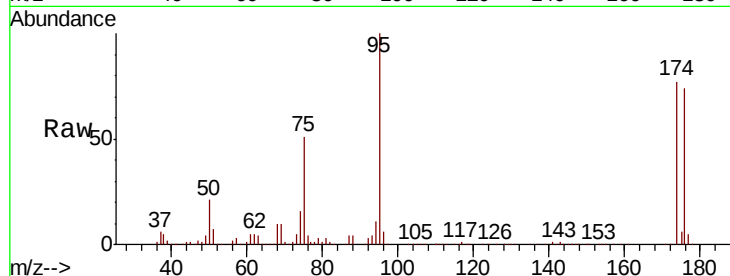
Tot Ion: 95 Resp: 121520

Ion Ratio Lower Upper

95 100

174 82.0 0.0 161.6

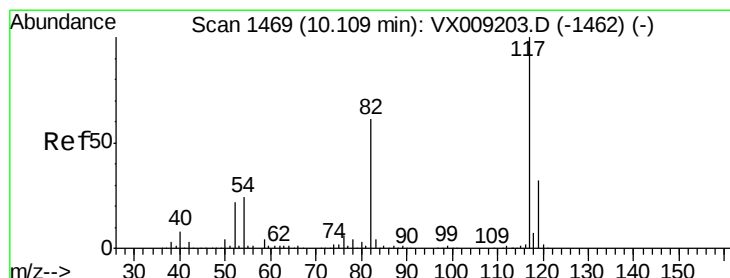
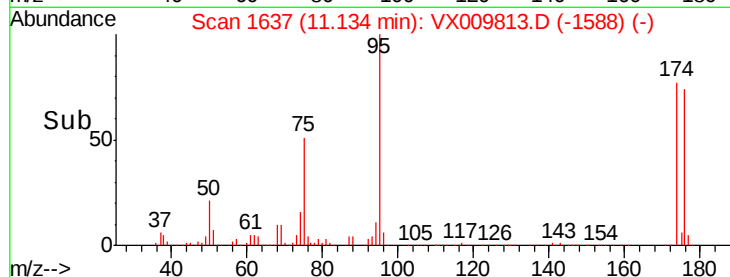
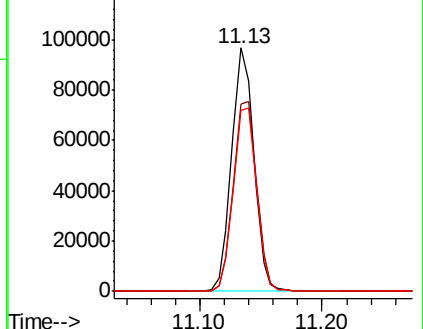
176 79.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

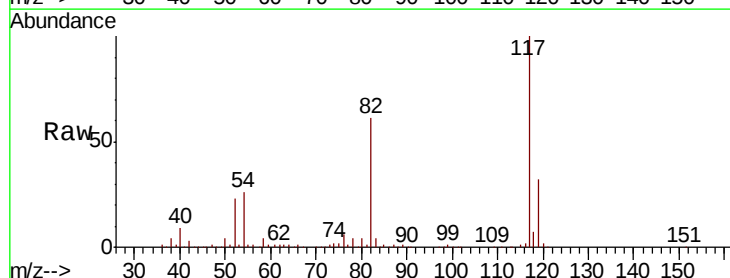
Tgt Ion: 117 Resp: 250651

Ion Ratio Lower Upper

117 100

82 61.1 48.8 73.2

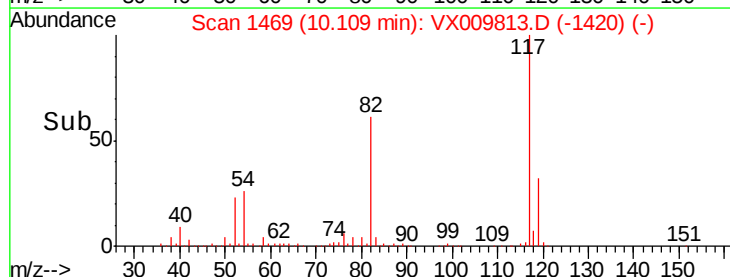
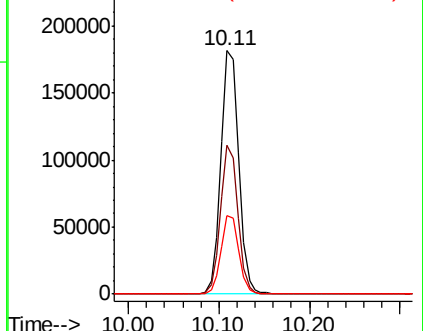
119 32.2 25.8 38.6

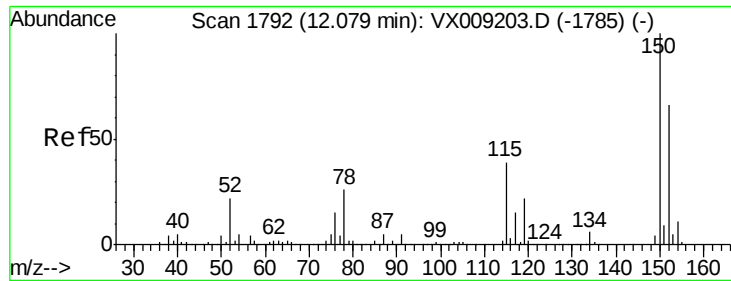


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

TP-10

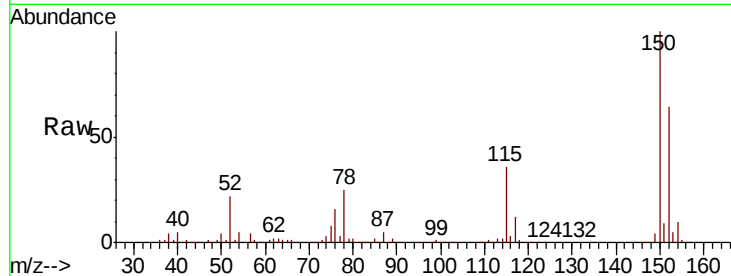
Tot Ion:152 Resp: 110781

Ion Ratio Lower Upper

152 100

115 57.8 41.2 123.6

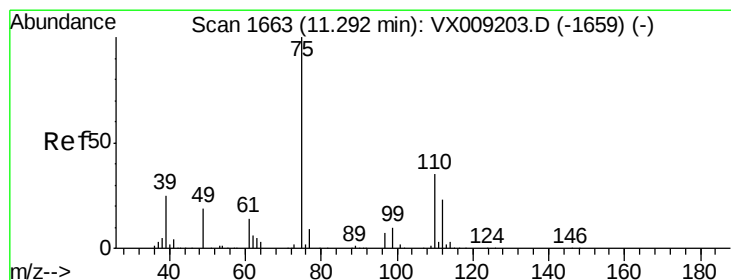
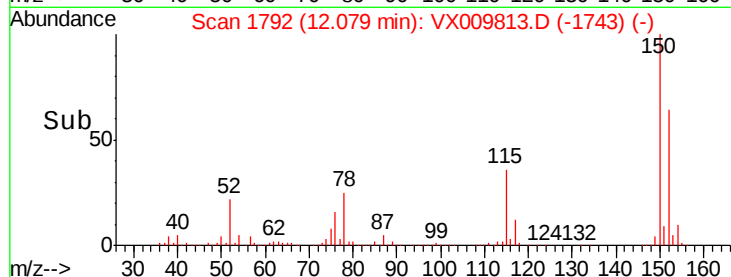
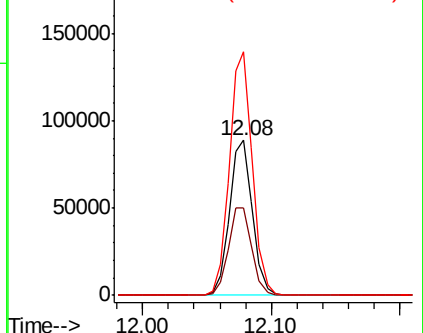
150 156.2 0.0 346.4



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: 24.271 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009813.D

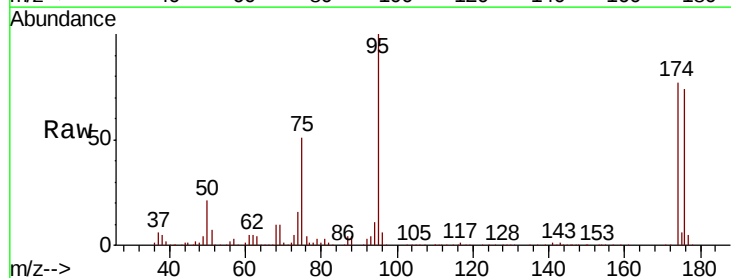
Acq: 22 May 2019 18:41

Tgt Ion: 75 Resp: 62370

Ion Ratio Lower Upper

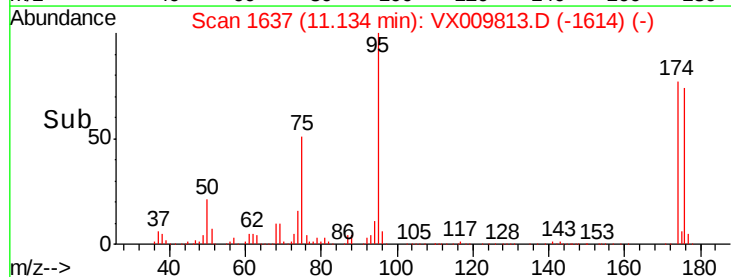
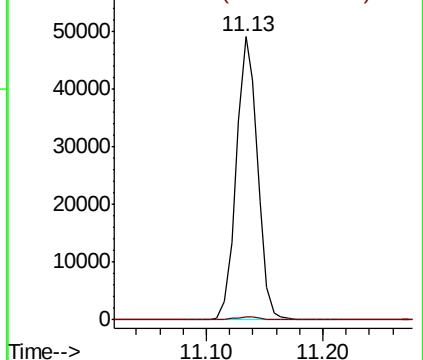
75 100

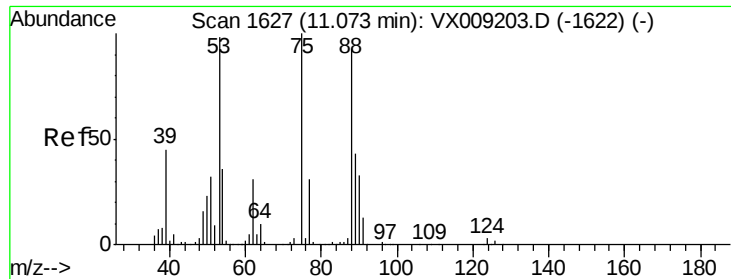
77 1.3 22.1 66.1#



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: 62.101 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009813.D

Acq: 22 May 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

TP-10

Tot Ion: 75 Resp: 62370

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

