

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090419\
 Data File : VX012053.D
 Acq On : 04 Sep 2019 15:48
 Operator : SY/SP
 Sample : K4646-10RE
 Misc : 5.58g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S602B-M-1.0-1.5-083019RE

Quant Time: Sep 04 16:09:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	153517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	264673	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	192887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	51553	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	103025	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
35) Dibromofluoromethane	5.48	113	82334	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
50) Toluene-d8	8.71	98	307273	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
62) 4-Bromofluorobenzene	11.14	95	83774	30.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.32%	

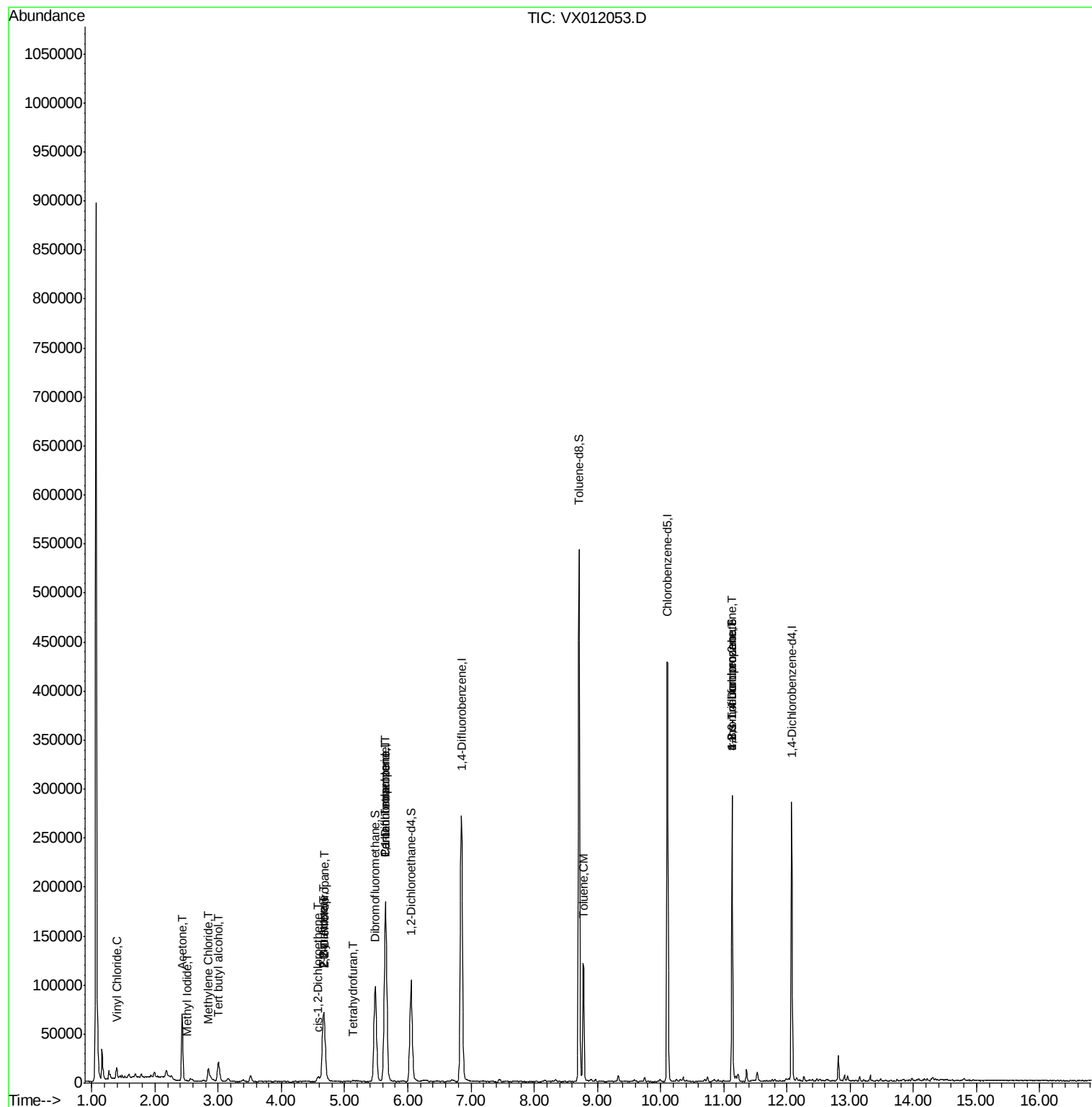
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1712	1.255	ug/l	90
10) Methyl Iodide	2.51	142	23	7.001	ug/l #	40
11) Tert butyl alcohol	3.00	59	13959	68.609	ug/l #	83
13) Acrolein	2.28	56	300	Below Cal	#	12
16) Acetone	2.43	43	70256	138.763	ug/l	99
20) Methylene Chloride	2.84	84	6016	2.959	ug/l	96
25) 2-Butanone	4.66	43	25288	39.238	ug/l	97
26) 2,2-Dichloropropane	4.67	77	5012	1.679	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	3159	1.519	ug/l	95
29) Tetrahydrofuran	5.12	42	441	1.136	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	14656	6.287	ug/l #	48
37) Ethyl Acetate	4.66	43	25288	19.949	ug/l #	86
38) Carbon Tetrachloride	5.65	117	17926	7.298	ug/l #	15
52) Toluene	8.78	92	43701	10.036	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	42221	67.028	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	42221	158.465	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

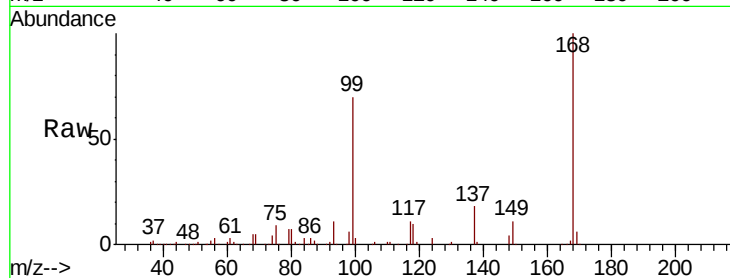
S602B-M-1.0-1.5-083019RE

Tgt Ion:168 Resp: 153517

Ion Ratio Lower Upper

168 100

99 70.5 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

30000

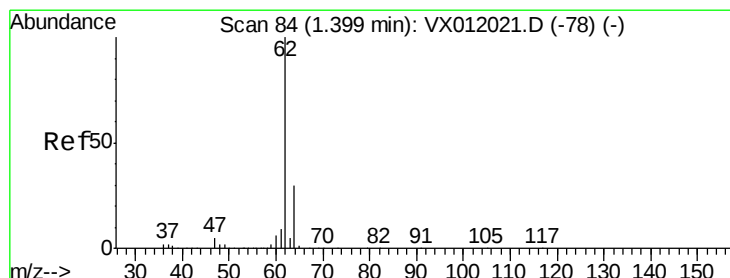
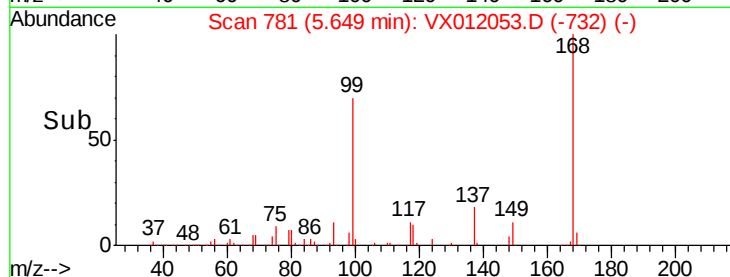
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.255 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.01 min

Lab File: VX012053.D

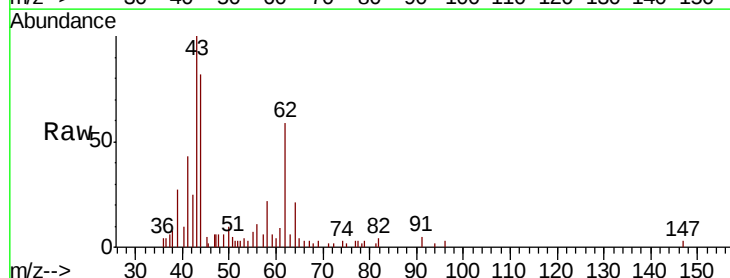
Acq: 04 Sep 2019 15:48

Tgt Ion: 62 Resp: 1712

Ion Ratio Lower Upper

62 100

64 27.0 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

1500

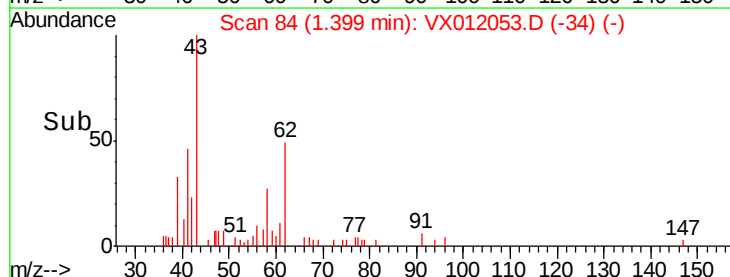
1000

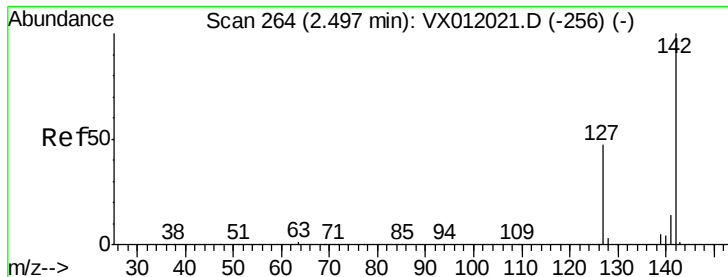
500

0

Time-->

1.35 1.40 1.45

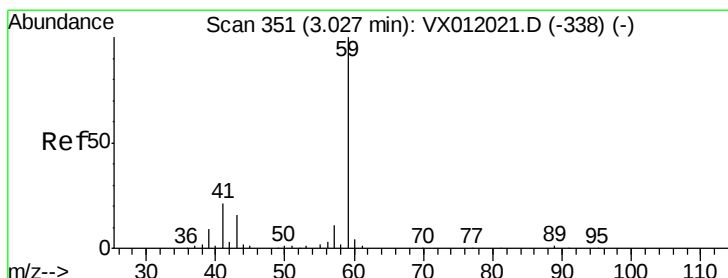
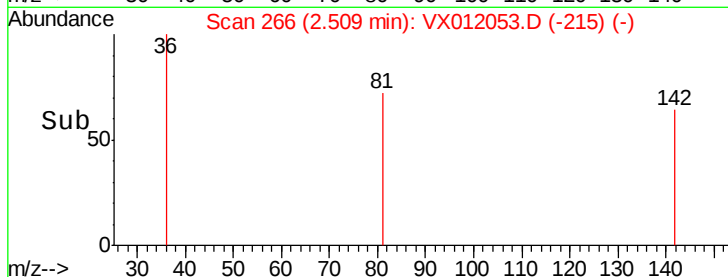
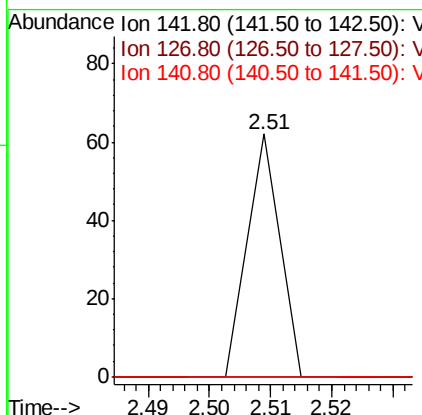
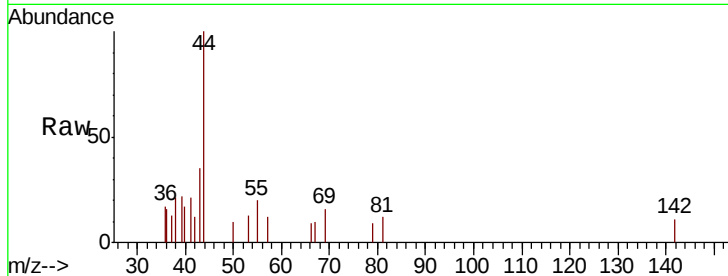




#10
Methyl Iodide
Concen: 7.001 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012053.D
Acq: 04 Sep 2019 15:48

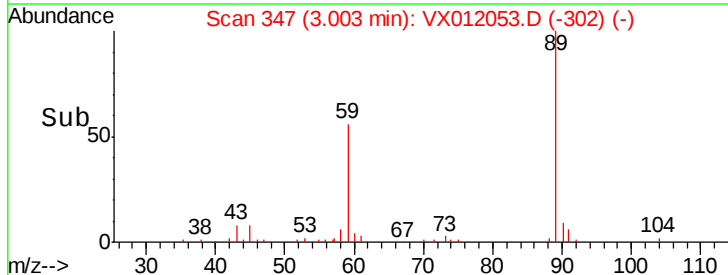
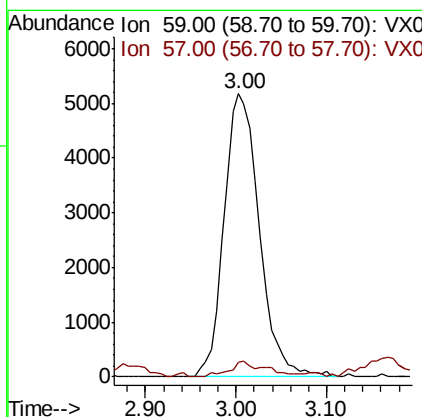
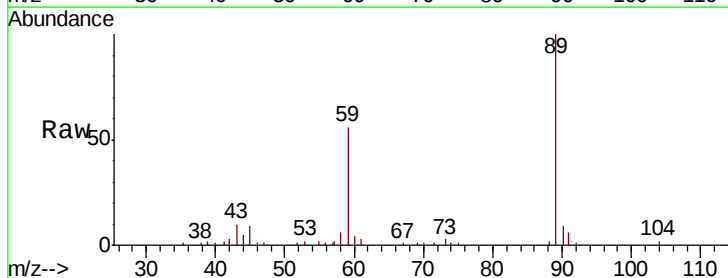
Instrument :
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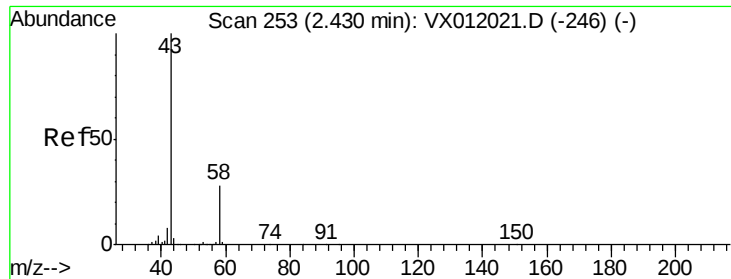
Tgt Ion: 142 Resp: 23
Ion Ratio Lower Upper
142 100
127 0.0 35.4 53.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 68.609 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.02 min
Lab File: VX012053.D
Acq: 04 Sep 2019 15:48

Tgt Ion: 59 Resp: 13959
Ion Ratio Lower Upper
59 100
57 3.5 7.9 11.9#





#16

Acetone

Concen: 138.763 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

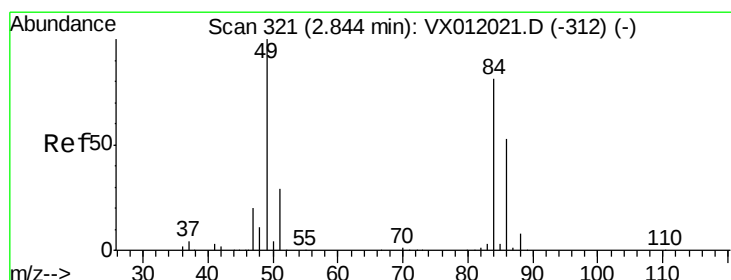
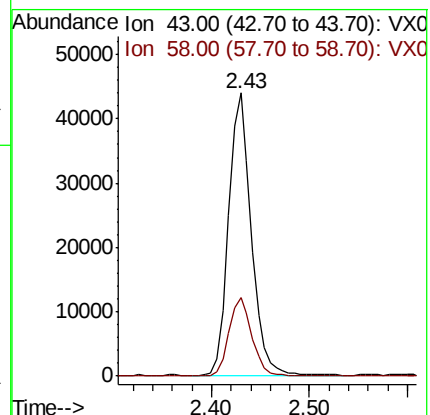
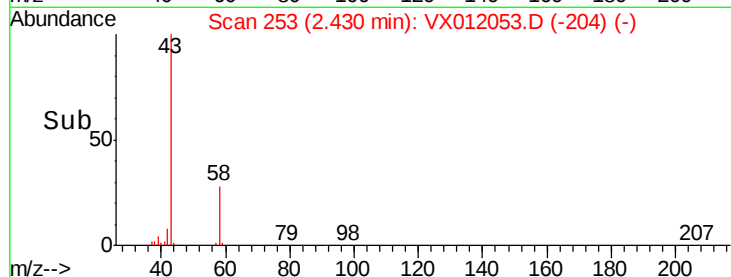
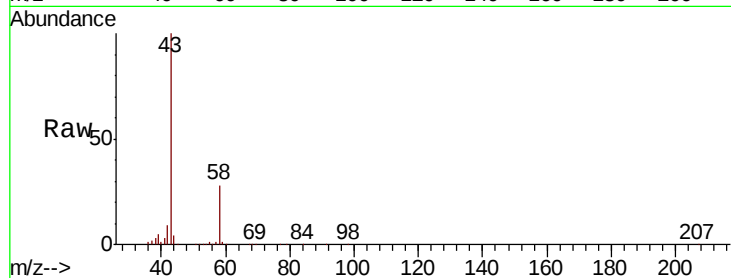
S602B-M-1.0-1.5-083019RE

Tgt Ion: 43 Resp: 70256

Ion Ratio Lower Upper

43 100

58 27.9 22.8 34.2



#20

Methylene Chloride

Concen: 2.959 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Tgt Ion: 84 Resp: 6016

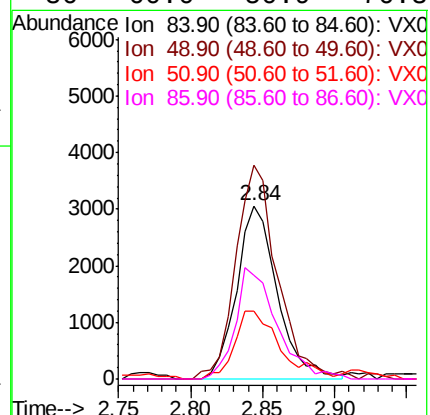
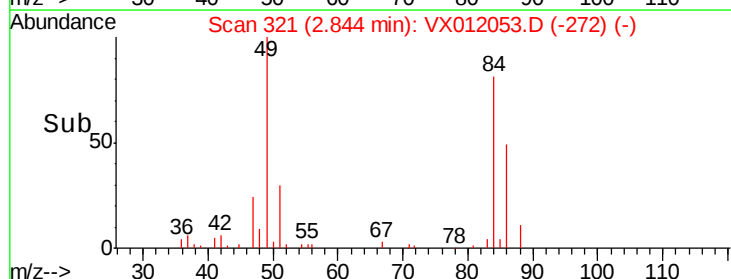
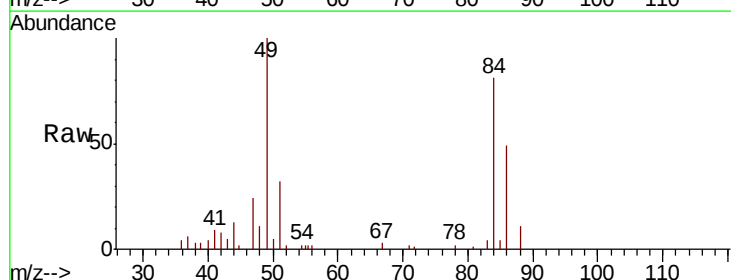
Ion Ratio Lower Upper

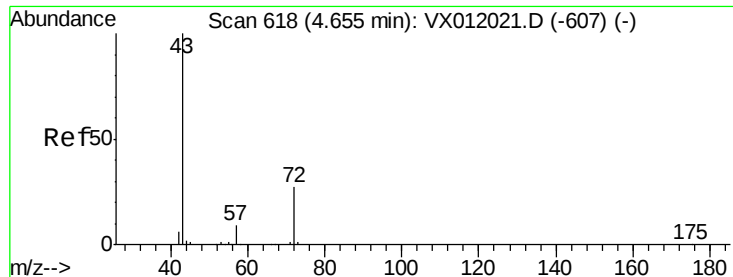
84 100

49 123.3 95.8 143.8

51 39.2 28.6 43.0

86 60.0 50.9 76.3





#25

2-Butanone

Concen: 39.238 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

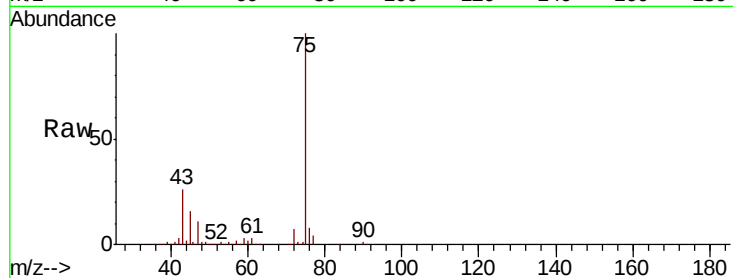
S602B-M-1.0-1.5-083019RE

Tgt Ion: 43 Resp: 25288

Ion Ratio Lower Upper

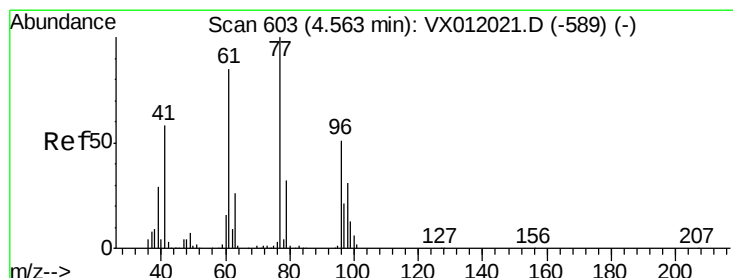
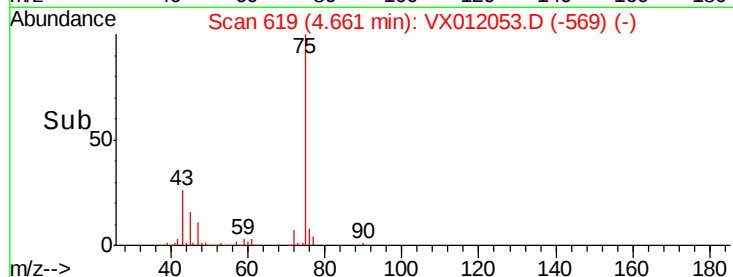
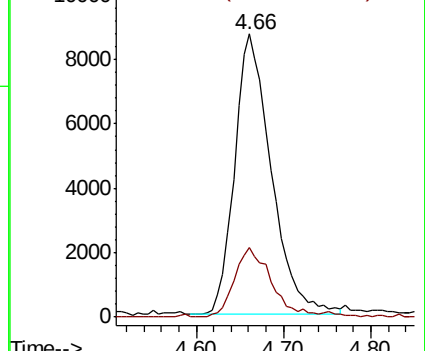
43 100

72 25.0 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 1.679 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.10 min

Lab File: VX012053.D

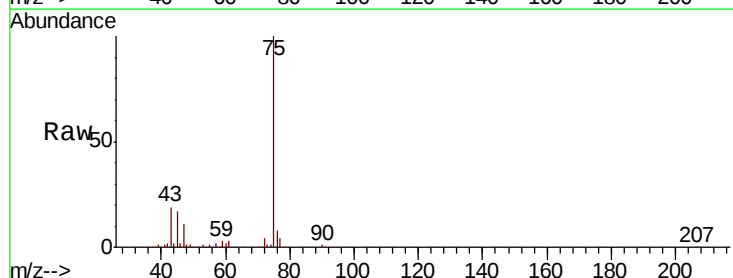
Acq: 04 Sep 2019 15:48

Tgt Ion: 77 Resp: 5012

Ion Ratio Lower Upper

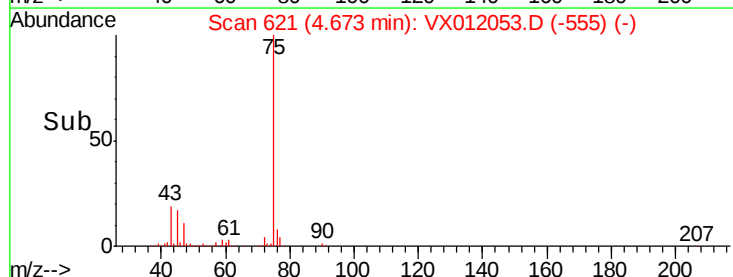
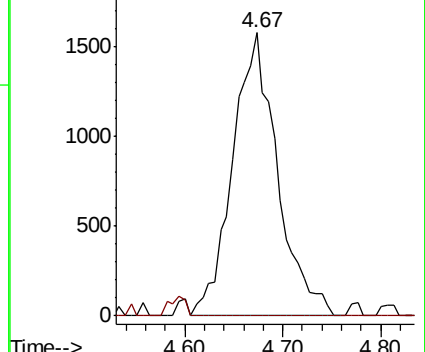
77 100

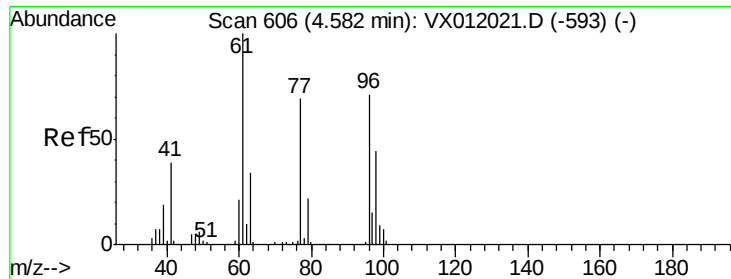
97 0.0 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



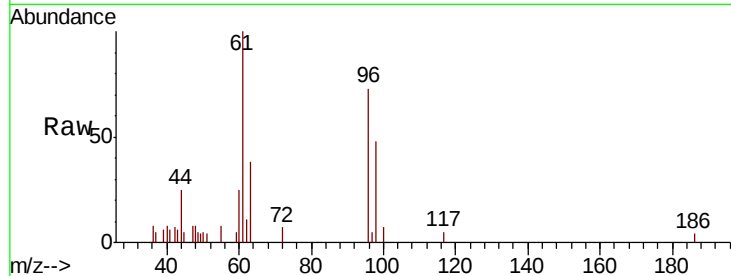


#27

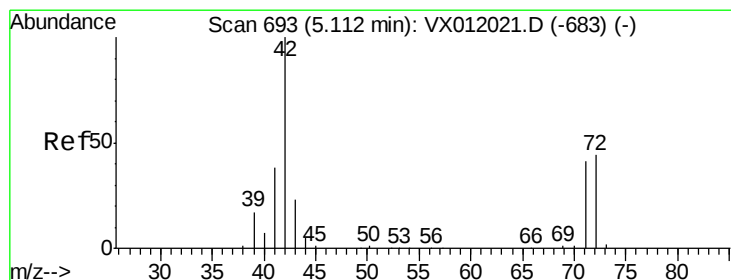
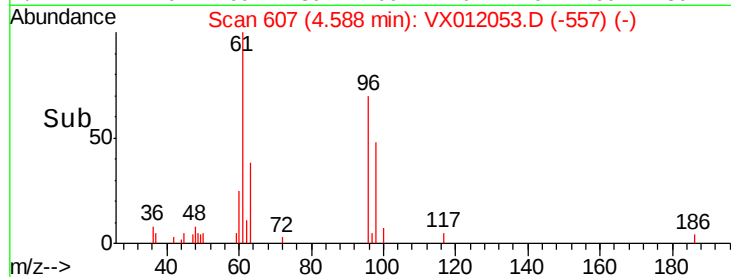
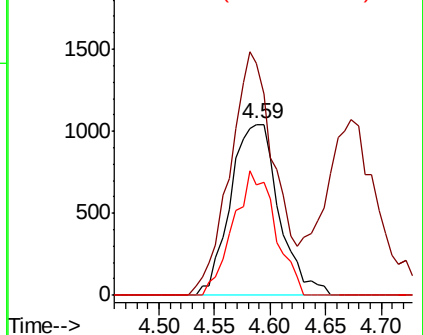
cis-1,2-Dichloroethene
 Concen: 1.519 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012053.D
 Acq: 04 Sep 2019 15:48

Instrument :
 MSVOA_X
 ClientSampleId :
 S602B-M-1.0-1.5-083019RE

Tgt Ion: 96 Resp: 3159
 Ion Ratio Lower Upper
 96 100
 61 130.8 0.0 277.0
 98 63.0 0.0 128.4



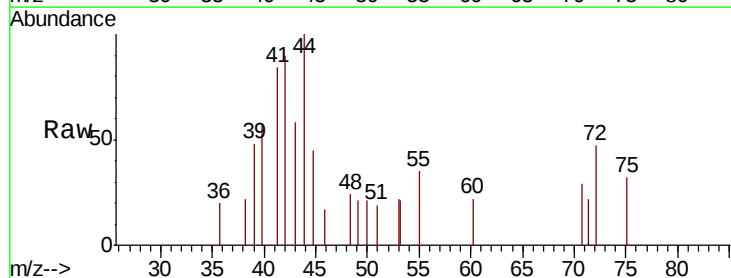
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



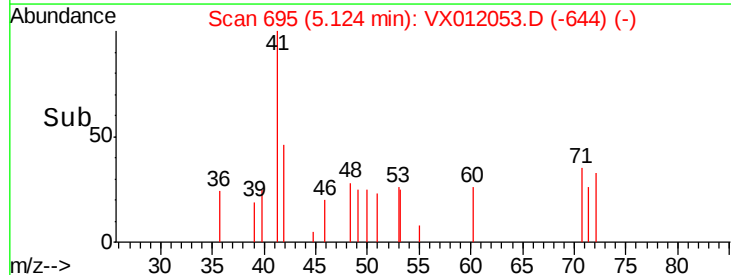
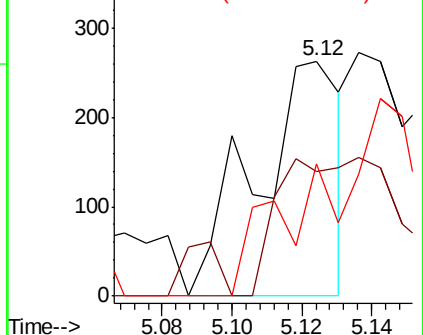
#29

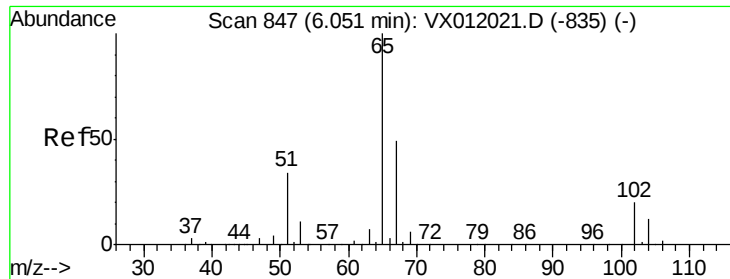
Tetrahydrofuran
 Concen: 1.136 ug/l
 RT: 5.12 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VX012053.D
 Acq: 04 Sep 2019 15:48

Tgt Ion: 42 Resp: 441
 Ion Ratio Lower Upper
 42 100
 72 82.1 37.0 55.4#
 71 77.1 33.8 50.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.637 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

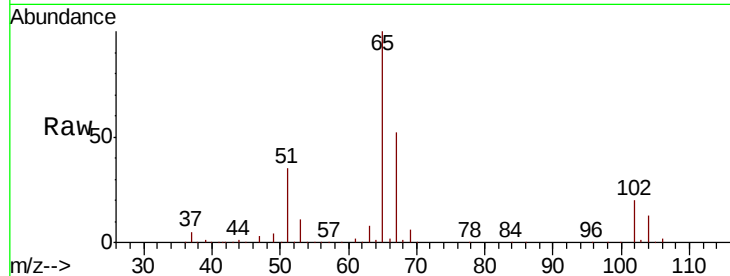
S602B-M-1.0-1.5-083019RE

Tgt Ion: 65 Resp: 103025

Ion Ratio Lower Upper

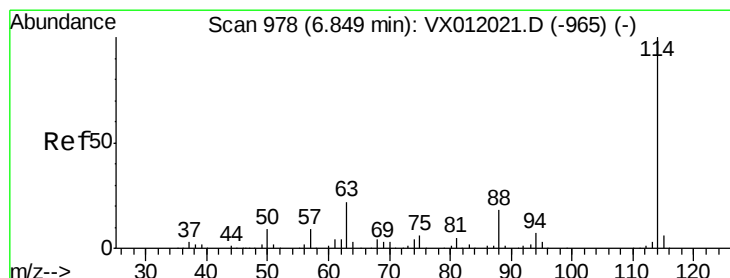
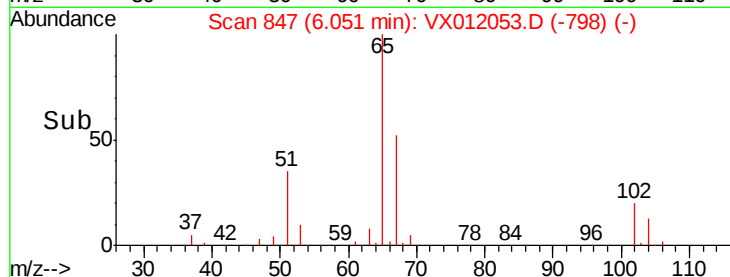
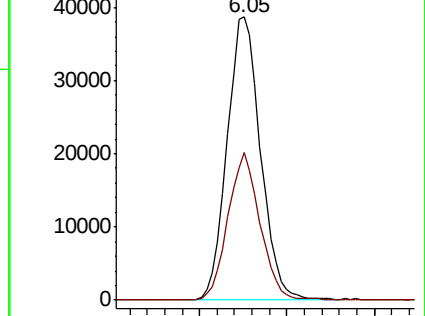
65 100

67 49.8 0.0 102.0



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: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

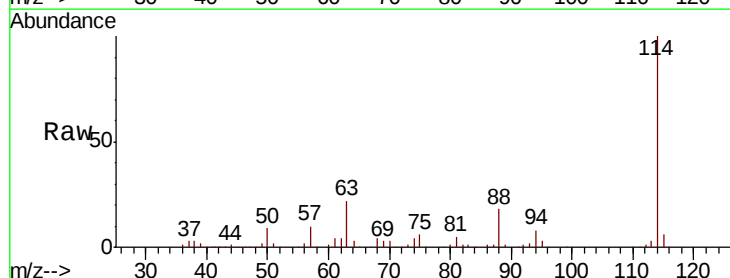
Tgt Ion: 114 Resp: 264673

Ion Ratio Lower Upper

114 100

63 22.2 0.0 37.4

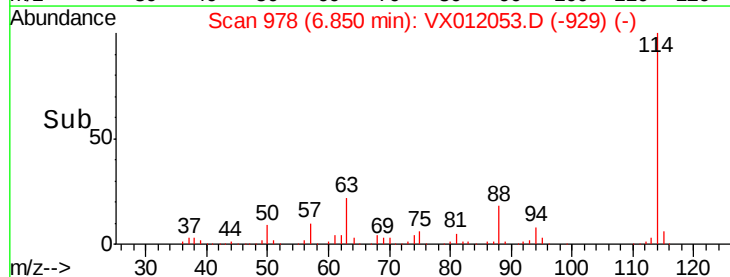
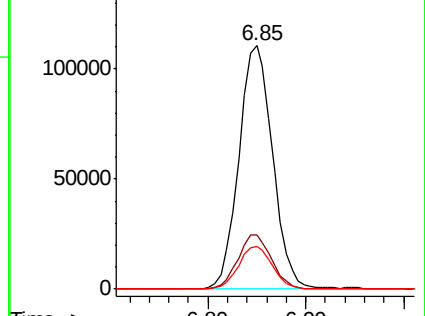
88 17.6 0.0 29.6

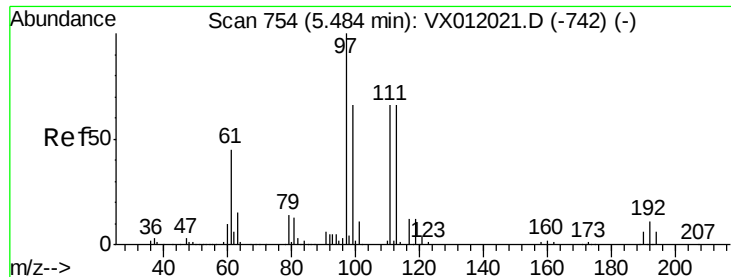


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.584 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

S602B-M-1.0-1.5-083019RE

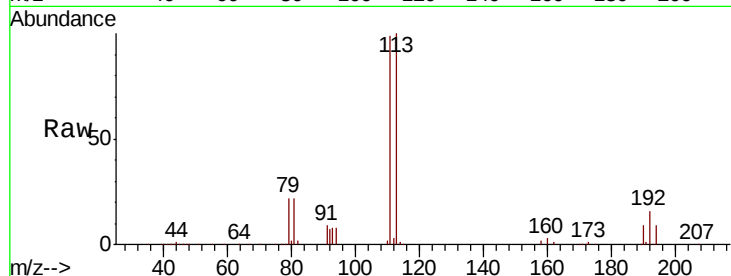
Tgt Ion:113 Resp: 82334

Ion Ratio Lower Upper

113 100

111 102.7 81.7 122.5

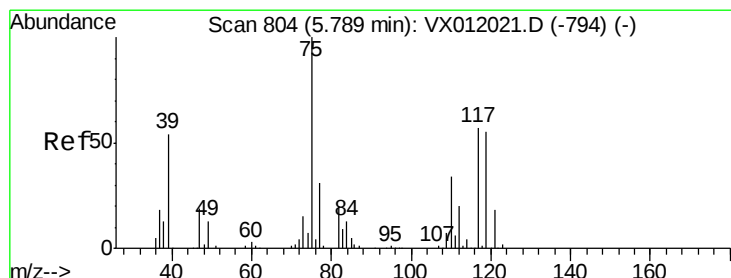
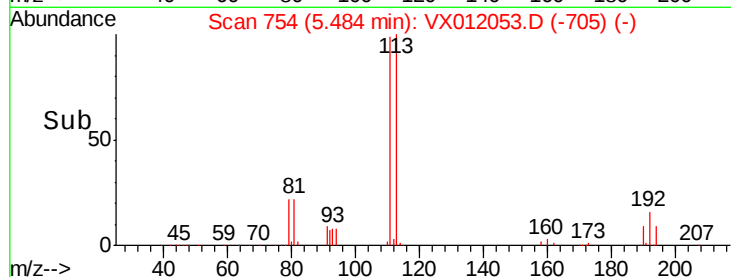
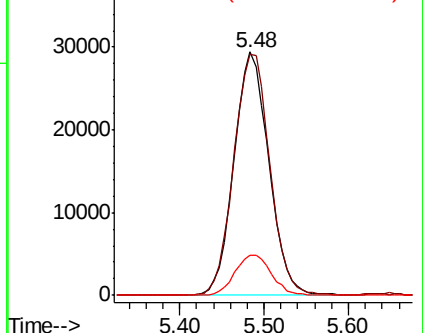
192 17.2 22.5 33.7#



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: 6.287 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

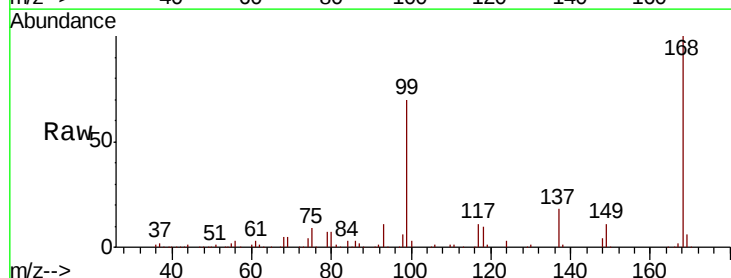
Tgt Ion: 75 Resp: 14656

Ion Ratio Lower Upper

75 100

110 8.7 19.5 58.5#

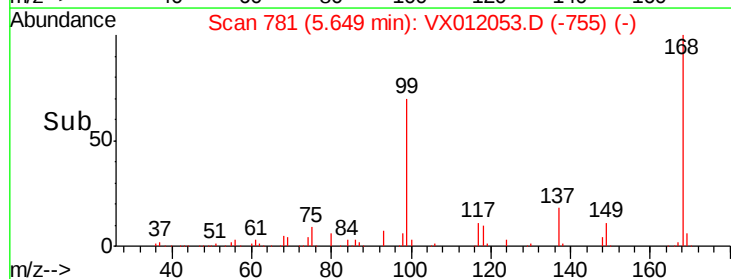
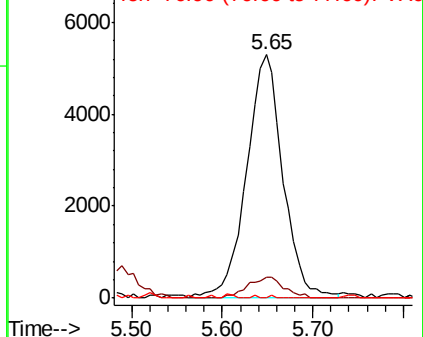
77 0.1 24.6 37.0#

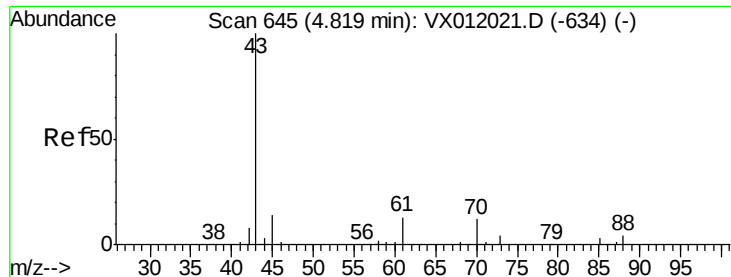


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 19.949 ug/l

RT: 4.66 min Scan# 619

Delta R.T. -0.15 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

S602B-M-1.0-1.5-083019RE

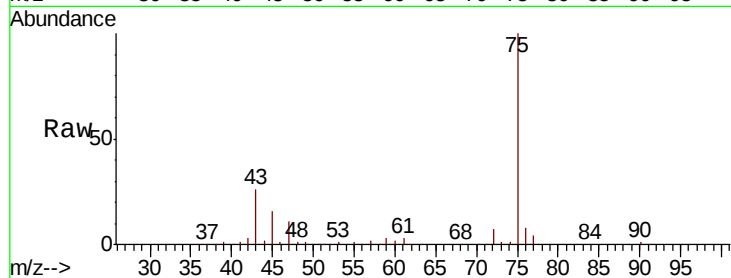
Tgt Ion: 43 Resp: 25288

Ion Ratio Lower Upper

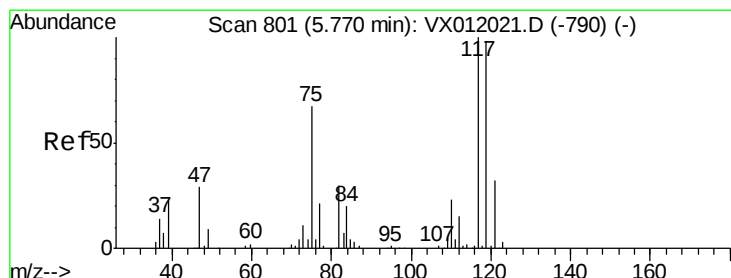
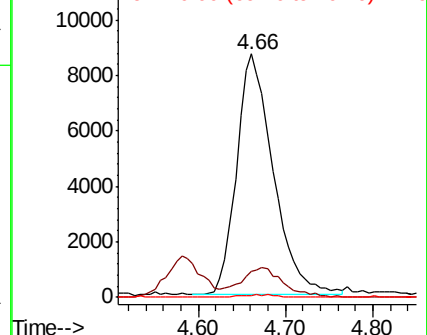
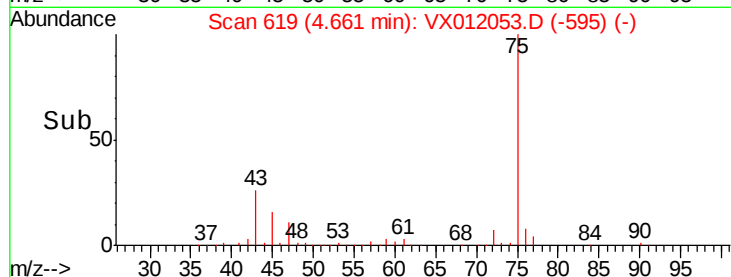
43 100

61 14.5 10.9 16.3

70 0.9 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VX012053.D (-595) (-)



#38

Carbon Tetrachloride

Concen: 7.298 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

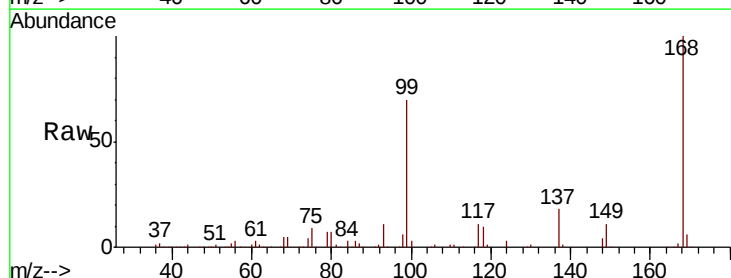
Tgt Ion: 117 Resp: 17926

Ion Ratio Lower Upper

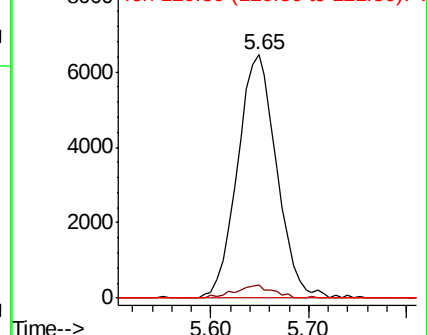
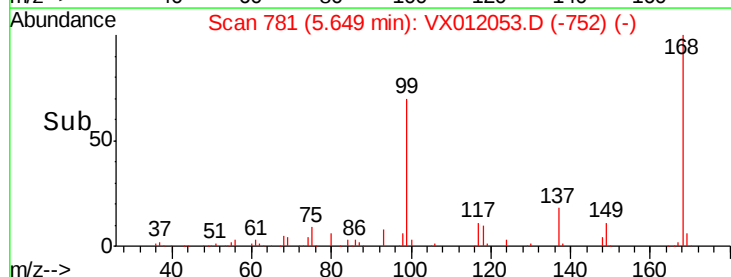
117 100

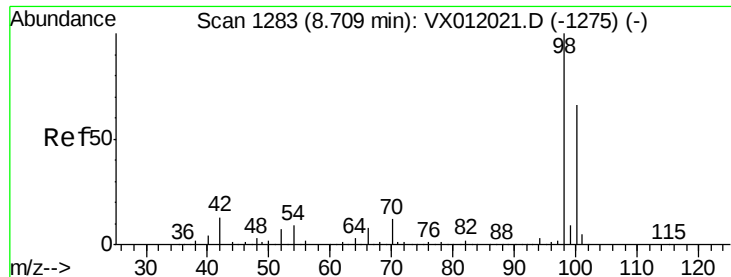
119 5.3 78.3 117.5#

121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): VX012053.D (-752) (-)

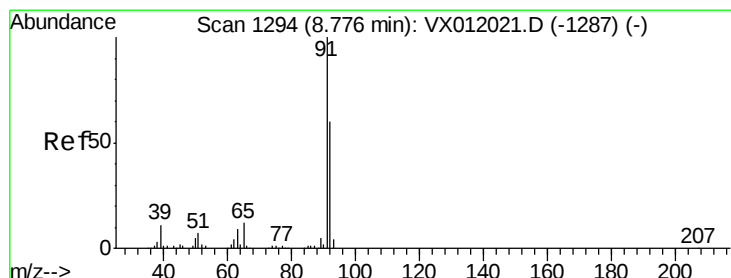
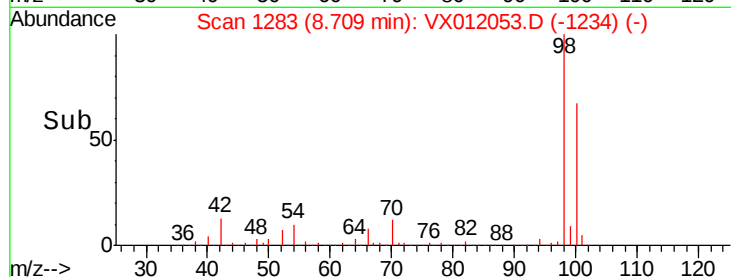
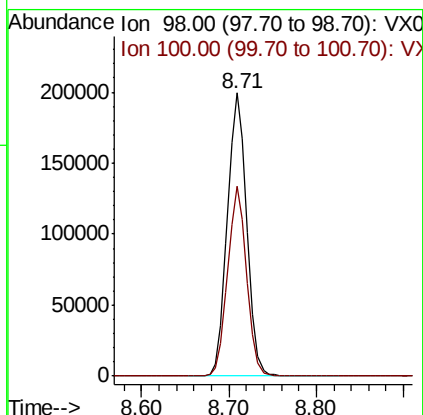
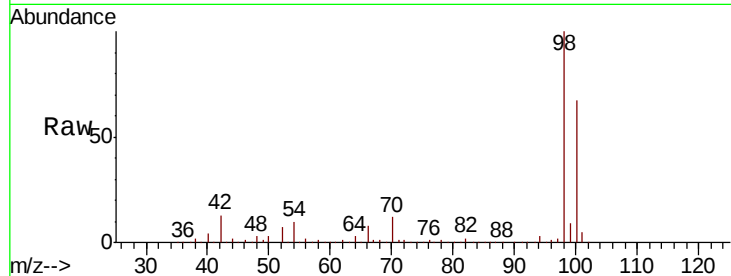




#50
Toluene-d8
Concen: 51.446 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012053.D
Acq: 04 Sep 2019 15:48

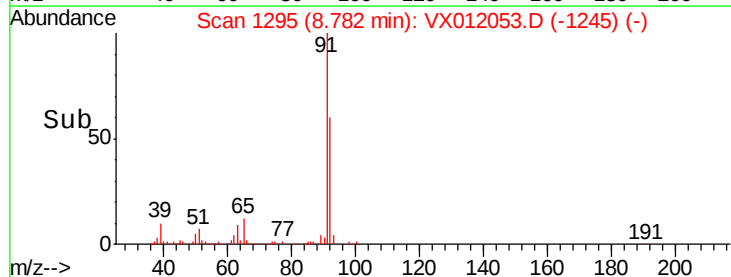
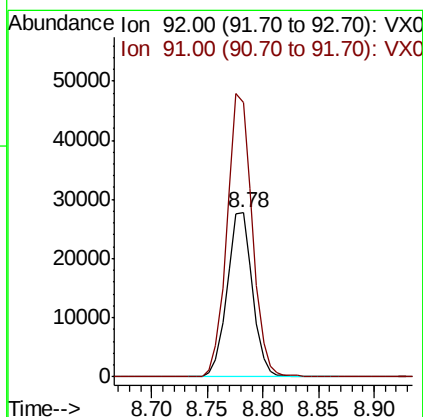
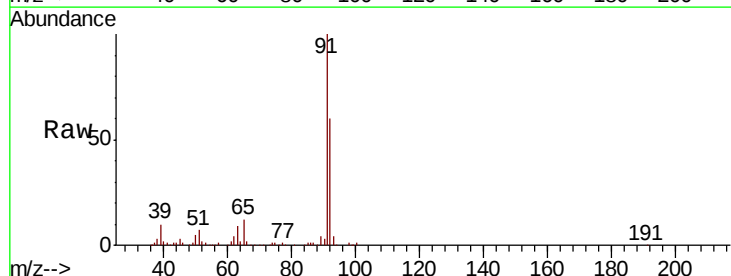
Instrument :
MSVOA_X
ClientSampleId :
S602B-M-1.0-1.5-083019RE

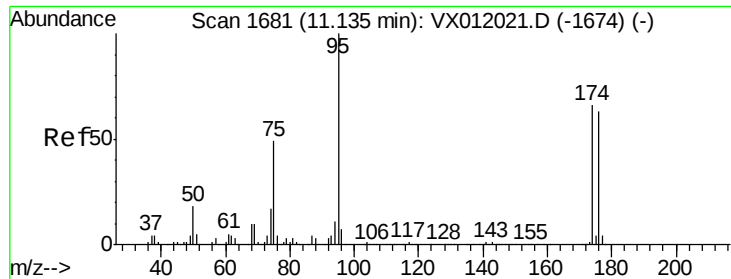
Tgt Ion: 98 Resp: 307273
Ion Ratio Lower Upper
98 100
100 65.3 53.3 79.9



#52
Toluene
Concen: 10.036 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX012053.D
Acq: 04 Sep 2019 15:48

Tgt Ion: 92 Resp: 43701
Ion Ratio Lower Upper
92 100
91 171.4 136.0 204.0





#62

4-Bromofluorobenzene

Concen: 30.160 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

S602B-M-1.0-1.5-083019RE

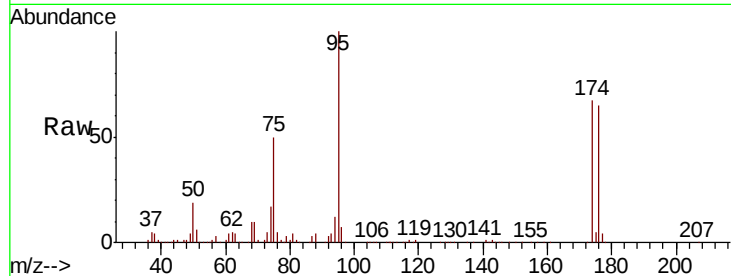
Tgt Ion: 95 Resp: 83774

Ion Ratio Lower Upper

95 100

174 63.9 0.0 205.4

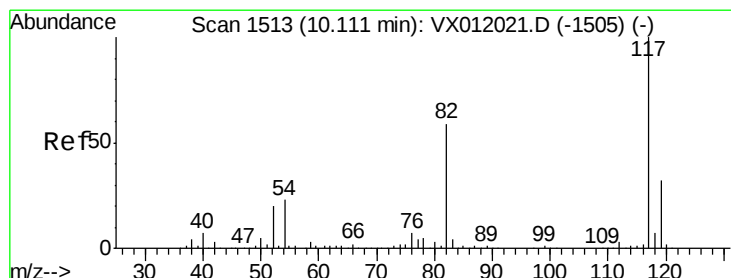
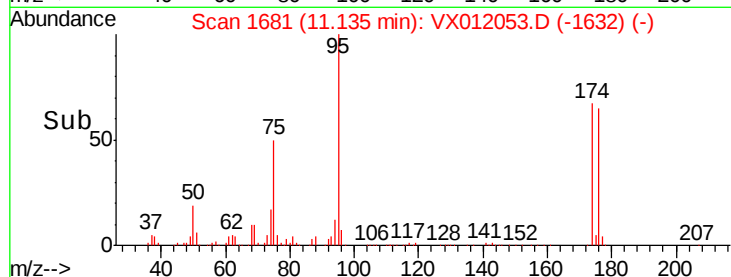
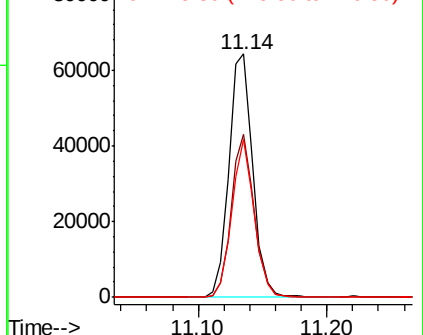
176 60.4 0.0 201.8



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# 1513

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

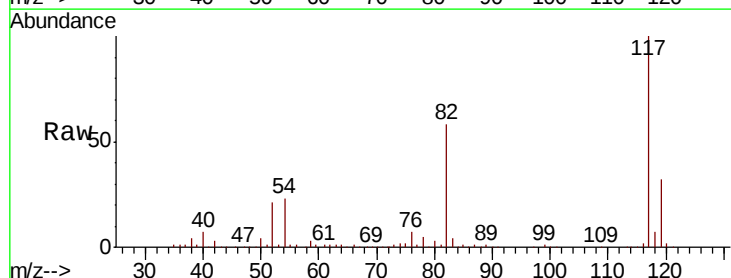
Tgt Ion: 117 Resp: 192887

Ion Ratio Lower Upper

117 100

82 58.1 39.4 59.0

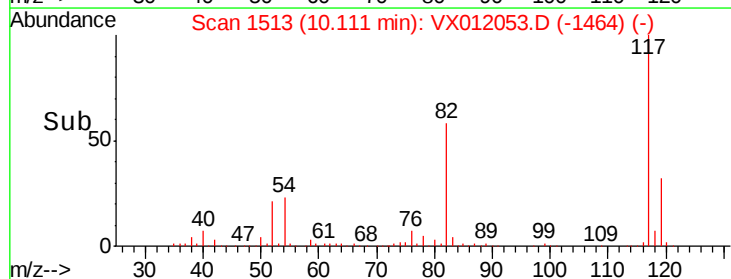
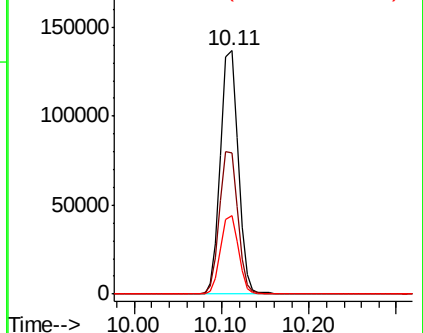
119 32.1 26.1 39.1

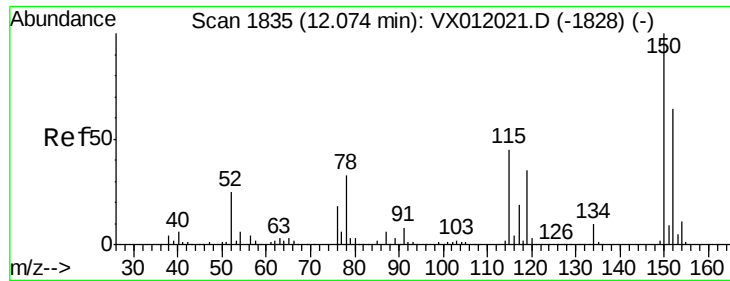


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

S602B-M-1.0-1.5-083019RE

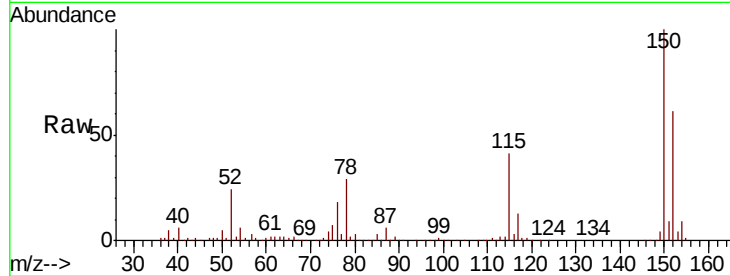
Tgt Ion:152 Resp: 51553

Ion Ratio Lower Upper

152 100

115 67.1 36.4 109.3

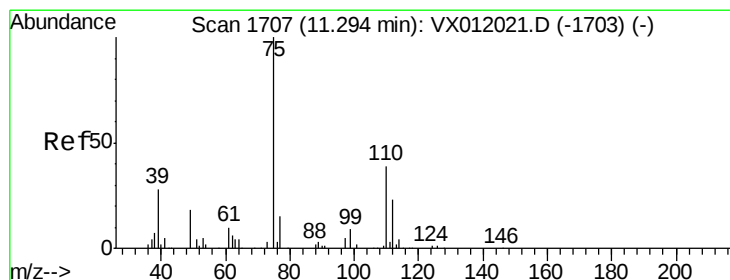
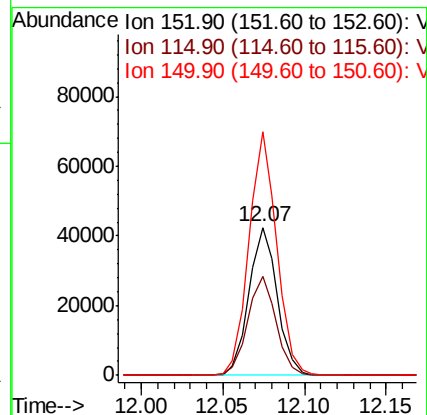
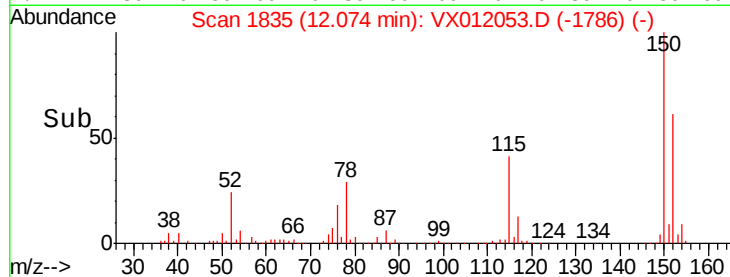
150 161.1 0.0 341.2



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: 67.028 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012053.D

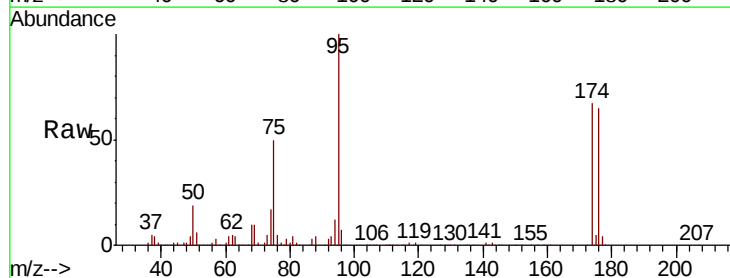
Acq: 04 Sep 2019 15:48

Tgt Ion: 75 Resp: 42221

Ion Ratio Lower Upper

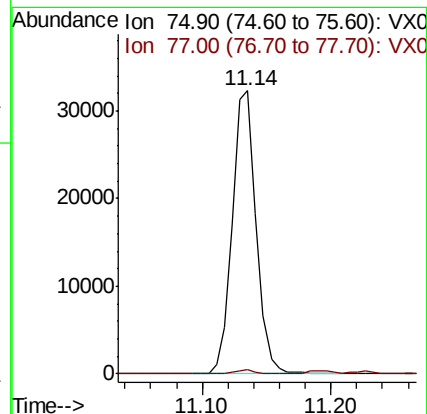
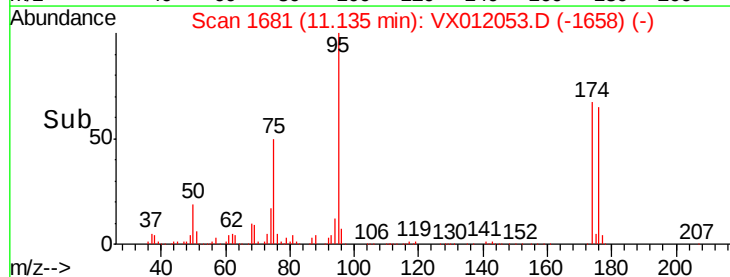
75 100

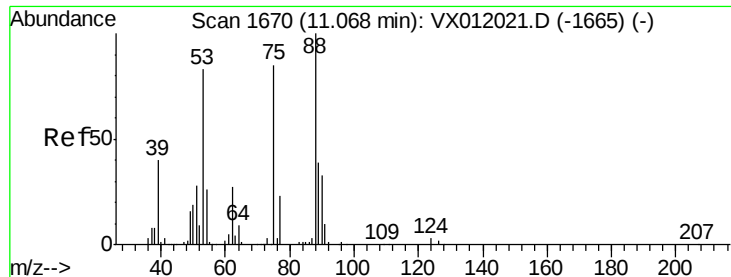
77 1.5 23.5 70.5#



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: 158.465 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012053.D

Acq: 04 Sep 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

S602B-M-1.0-1.5-083019RE

Tgt Ion: 75 Resp: 42221

Ion Ratio Lower Upper

75 100

53 0.2 78.6 117.8#

89 0.0 38.8 58.2#

