

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
 Data File : VX011084.D
 Acq On : 26 Jul 2019 12:42
 Operator : JC/SP
 Sample : K4014-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-072419

Quant Time: Jul 27 02:01:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	202874	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	323819	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	301303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	137526	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	110495	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
35) Dibromofluoromethane	5.50	113	99903	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
50) Toluene-d8	8.71	98	388344	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	11.13	95	135937	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	

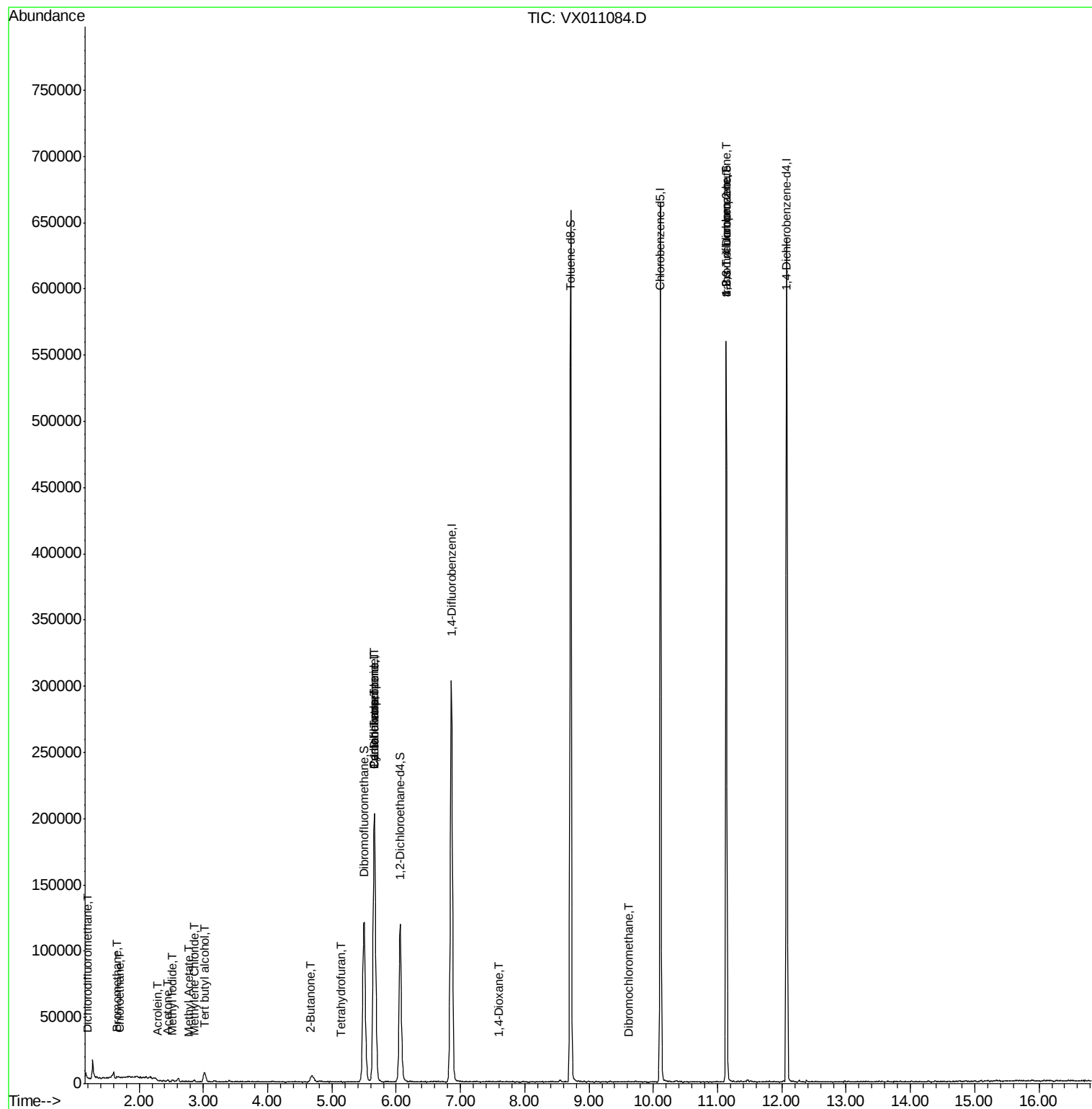
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	139	0.610	ug/l #	43
5) Bromomethane	1.65	94	697	0.650	ug/l #	77
6) Chloroethane	1.70	64	336	0.278	ug/l #	41
10) Methyl Iodide	2.52	142	754	0.312	ug/l #	86
11) Tert butyl alcohol	3.01	59	4491	8.935	ug/l #	75
13) Acrolein	2.29	56	81	0.279	ug/l #	46
16) Acetone	2.45	43	1466	1.504	ug/l	97
18) Methyl Acetate	2.77	43	466	0.210	ug/l #	48
20) Methylene Chloride	2.86	84	591	0.286	ug/l #	91
25) 2-Butanone	4.67	43	384	0.274	ug/l	96
29) Tetrahydrofuran	5.15	42	256	0.289	ug/l #	47
31) Cyclohexane	5.66	56	4045	1.380	ug/l #	26
36) 1,1-Dichloropropene	5.66	75	13937	5.240	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18923	6.827	ug/l #	17
49) 1,4-Dioxane	7.59	88	21	0.344	ug/l #	1
60) Dibromochloromethane	9.61	129	22	2.536	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	68364	27.547	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	68364	68.216	ug/l #	11

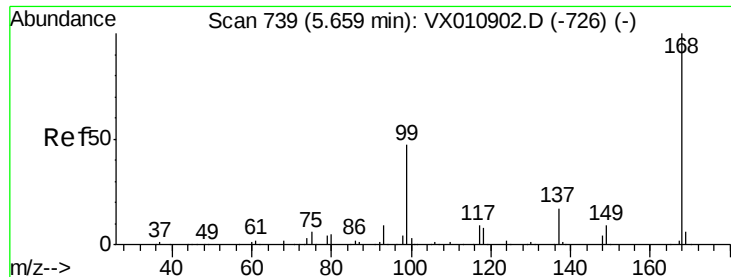
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

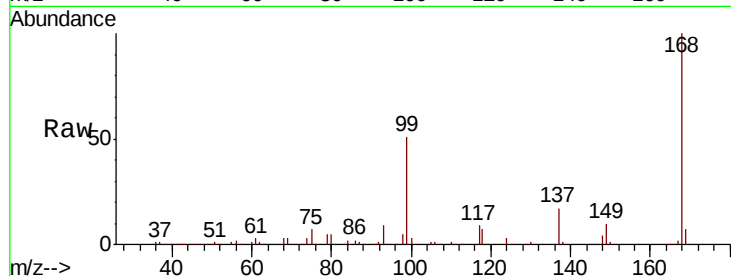
FB-072419

Tot Ion:168 Resp: 202874

Ion Ratio Lower Upper

168 100

99 51.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

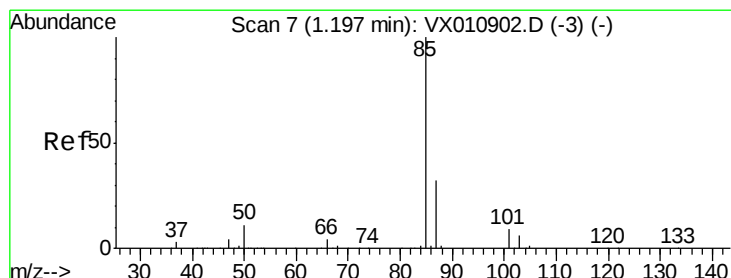
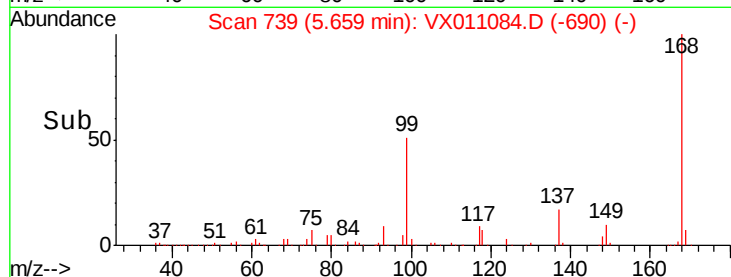
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.610 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011084.D

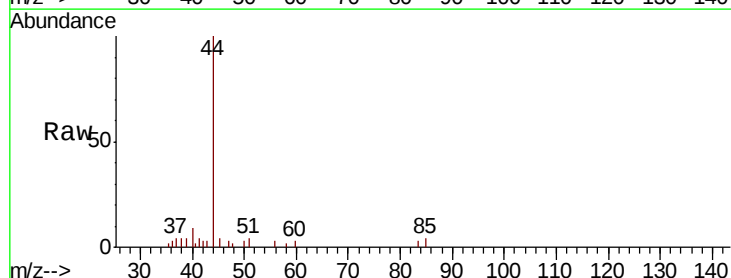
Acq: 26 Jul 2019 12:42

Tgt Ion: 85 Resp: 139

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

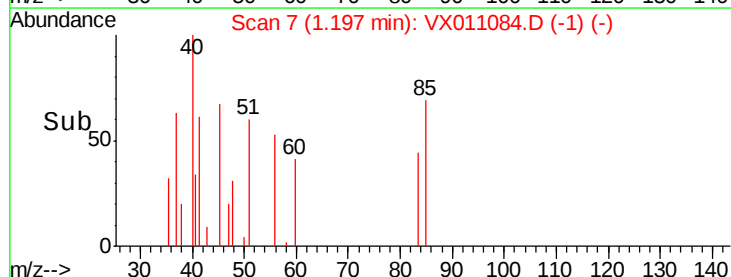
1.20

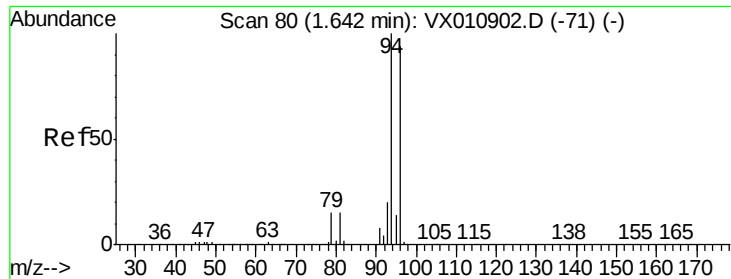
100

50

0

Time--> 1.16 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: 0.650 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampled :

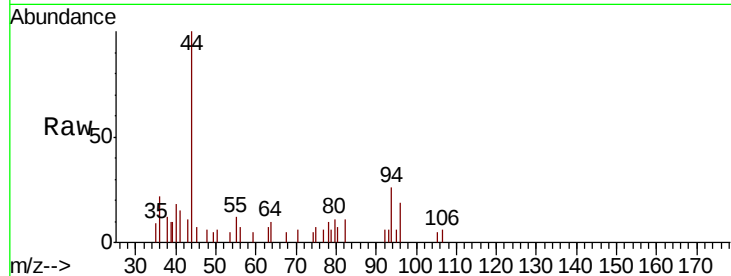
FB-072419

Tot Ion: 94 Resp: 697

Ion Ratio Lower Upper

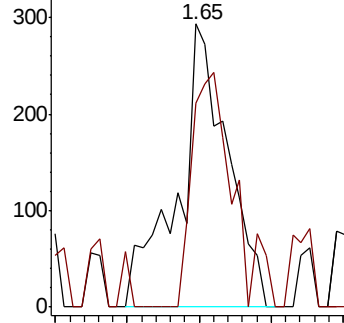
94 100

96 72.4 75.6 113.4#

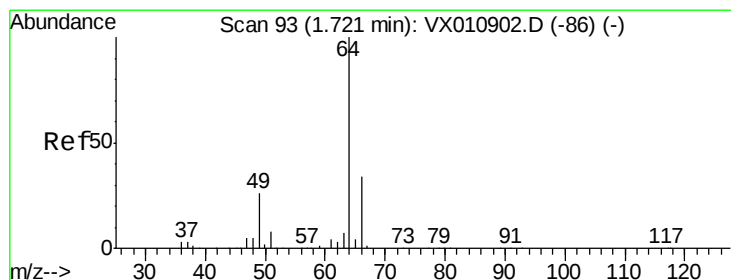
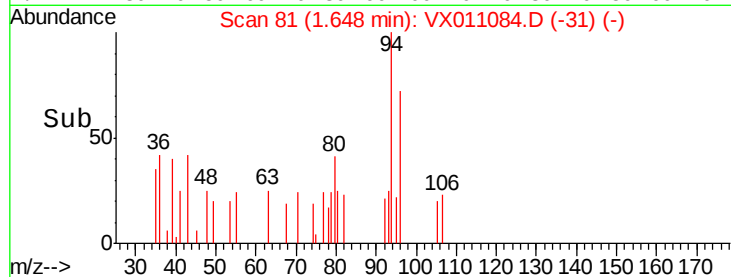


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.278 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011084.D

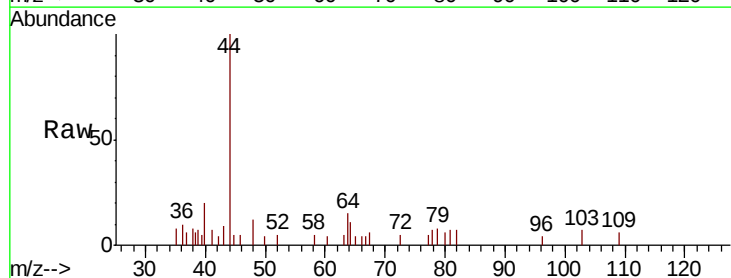
Acq: 26 Jul 2019 12:42

Tgt Ion: 64 Resp: 336

Ion Ratio Lower Upper

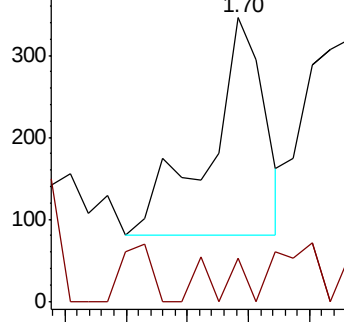
64 100

66 0.0 27.0 40.6#

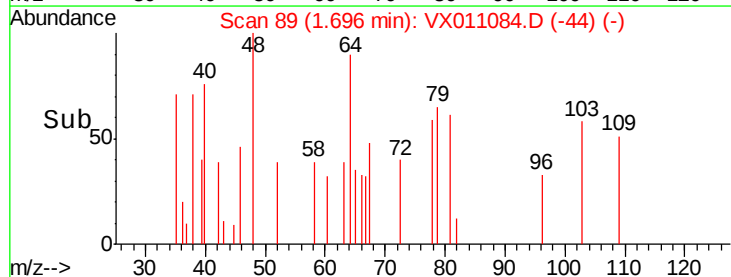


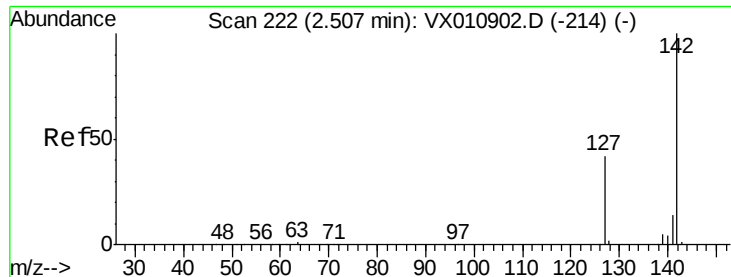
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

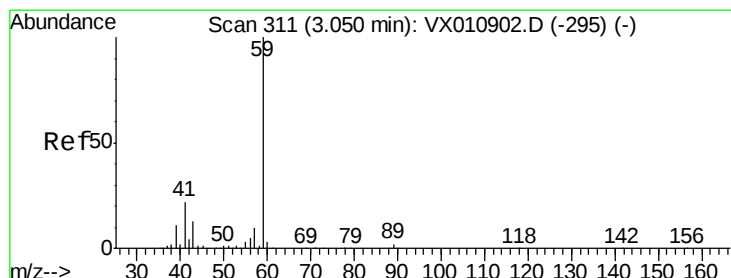
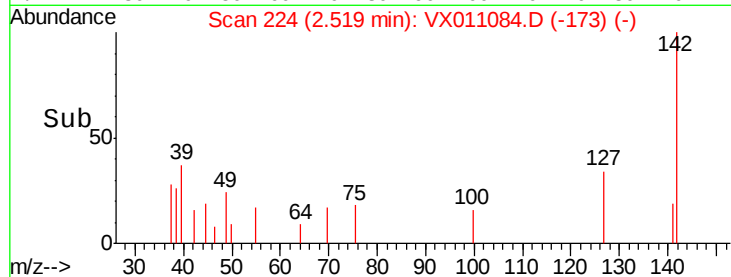
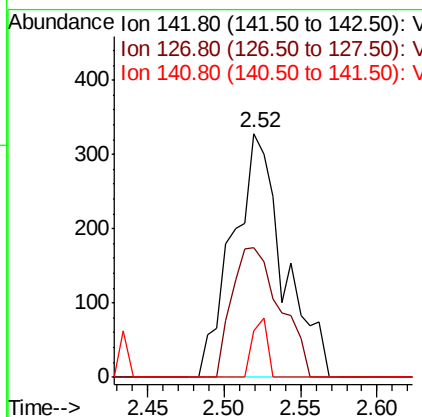
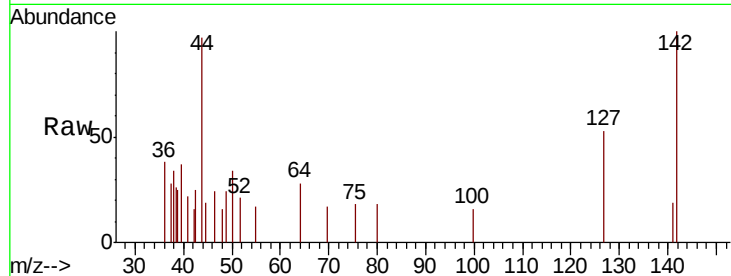




#10
Methvl Iodide
Concen: 0.312 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX011084.D
Acq: 26 Jul 2019 12:42

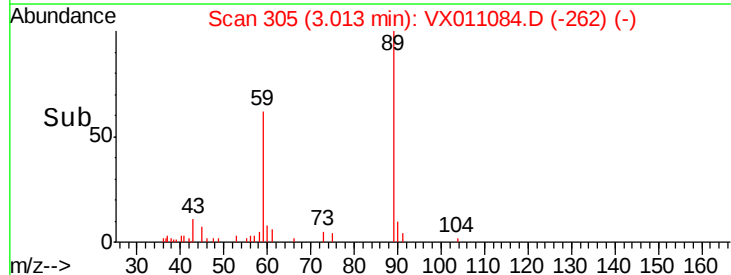
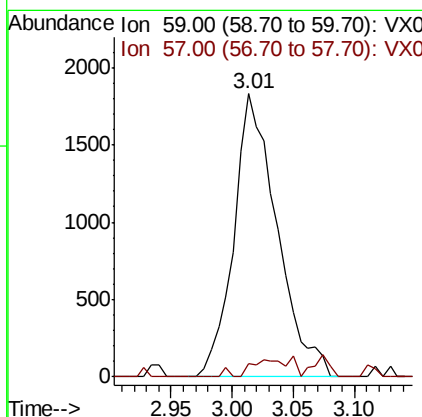
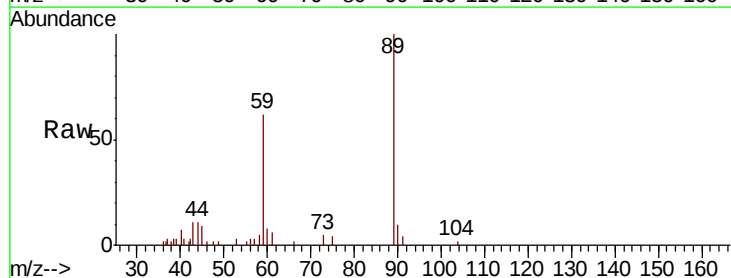
Instrument :
MSVOA_X
ClientSampled :
FB-072419

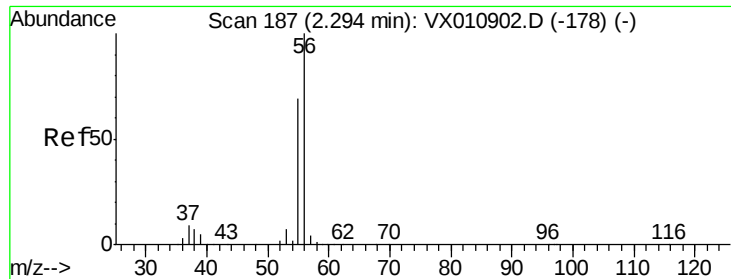
Tot Ion:142 Resp: 754
Ion Ratio Lower Upper
142 100
127 50.4 34.2 51.4
141 6.9 11.7 17.5#



#11
Tert butyl alcohol
Concen: 8.935 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX011084.D
Acq: 26 Jul 2019 12:42

Tgt Ion: 59 Resp: 4491
Ion Ratio Lower Upper
59 100
57 0.5 7.9 11.9#





#13

Acrolein

Concen: 0.279 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampled :

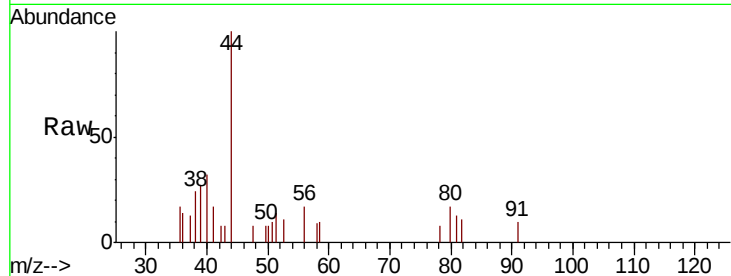
FB-072419

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

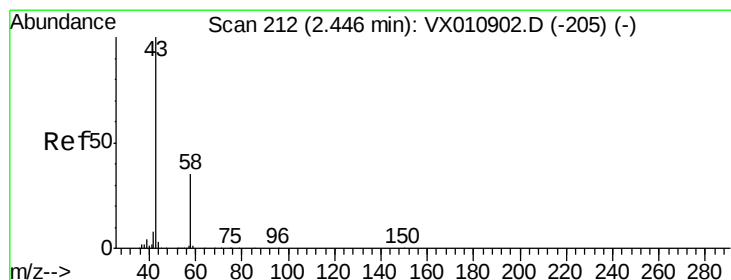
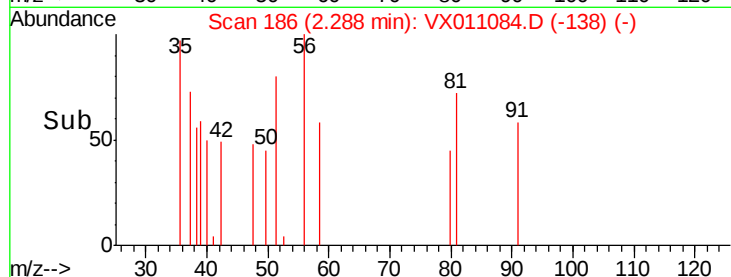
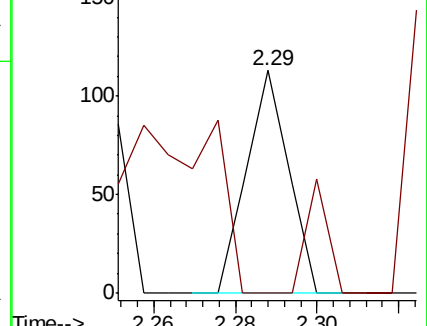
56 100

55 25.9 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.504 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX011084.D

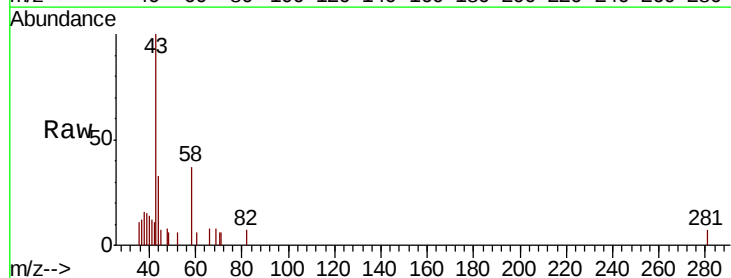
Acq: 26 Jul 2019 12:42

Tgt Ion: 43 Resp: 1466

Ion Ratio Lower Upper

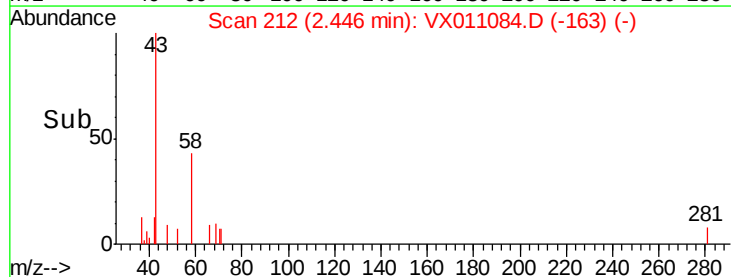
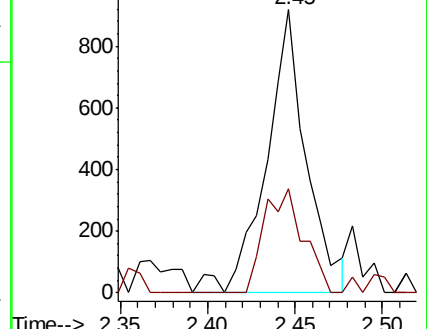
43 100

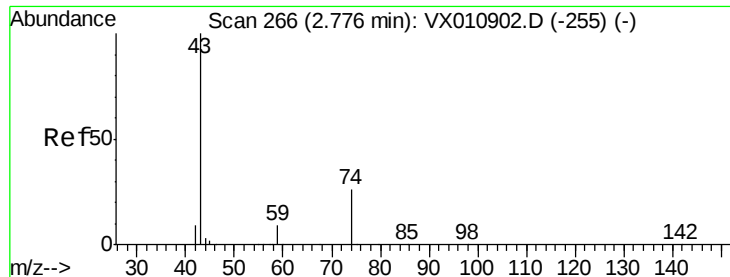
58 36.6 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methyl Acetate

Concen: 0.210 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampled :

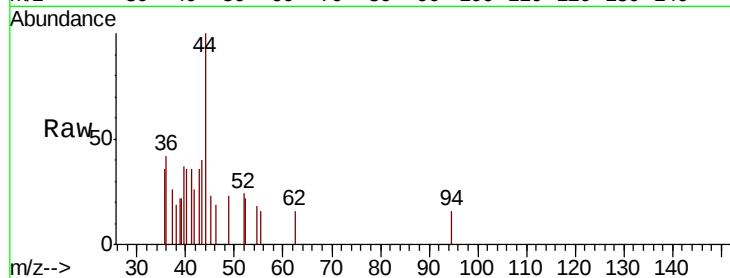
FB-072419

Tot Ion: 43 Resp: 466

Ion Ratio Lower Upper

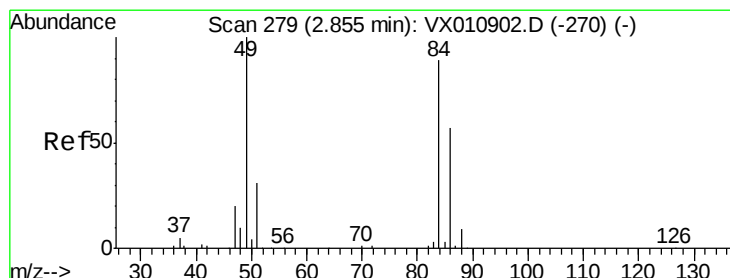
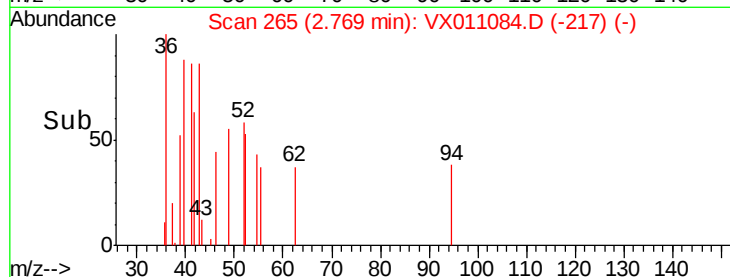
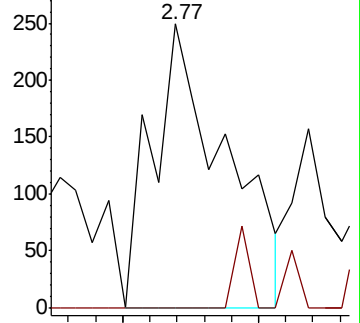
43 100

74 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.286 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Tgt Ion: 84 Resp: 591

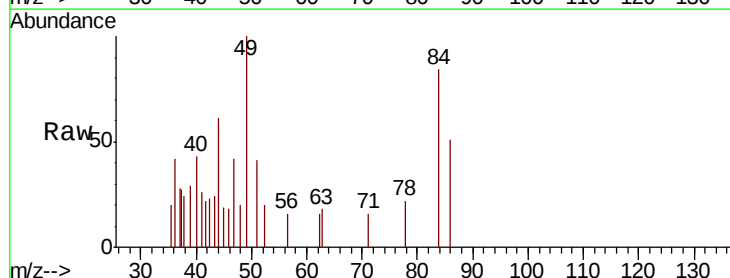
Ion Ratio Lower Upper

84 100

49 119.1 89.9 134.9

51 48.8 27.8 41.6#

86 60.4 51.8 77.6

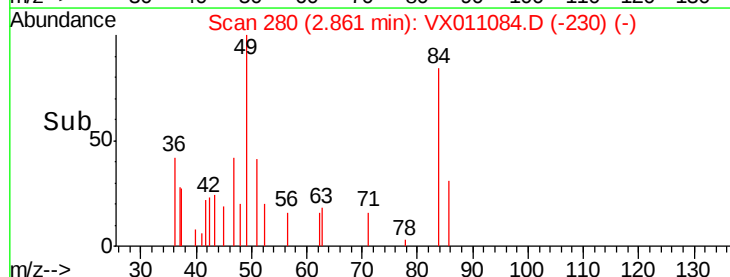
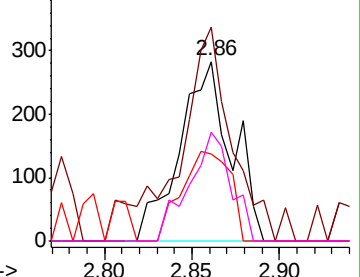


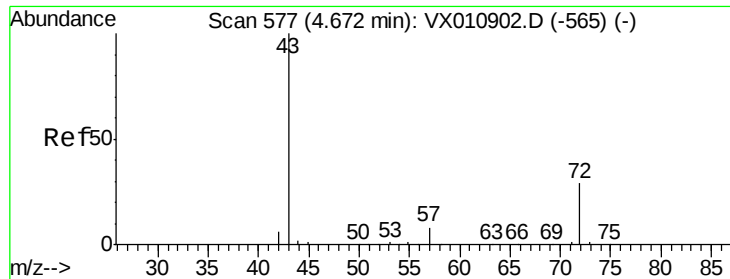
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.274 ug/l

RT: 4.67 min Scan# 576

Delta R.T. -0.01 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampled :

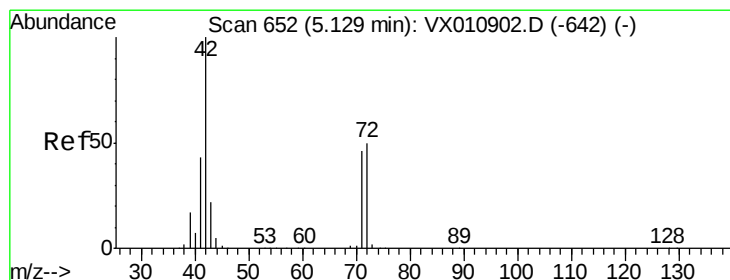
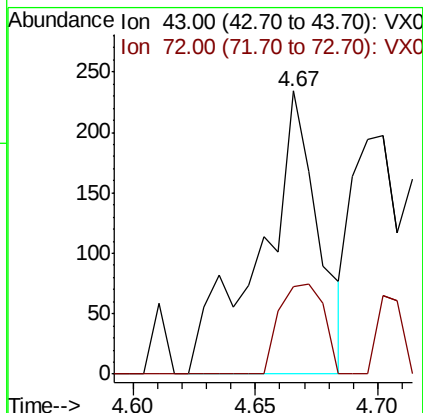
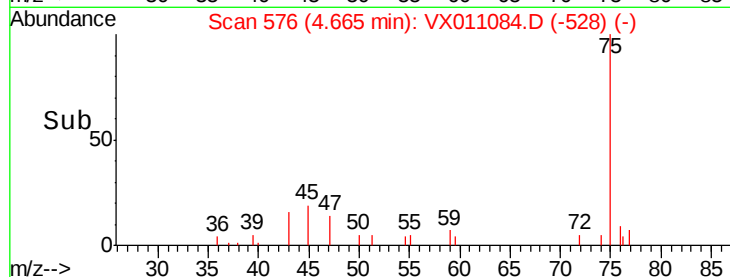
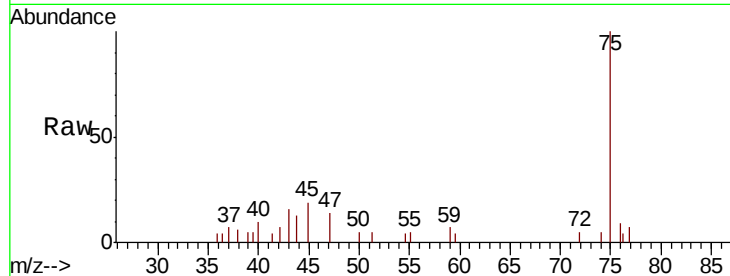
FB-072419

Tot Ion: 43 Resp: 384

Ion Ratio Lower Upper

43 100

72 30.8 23.0 34.6



#29

Tetrahydrofuran

Concen: 0.289 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

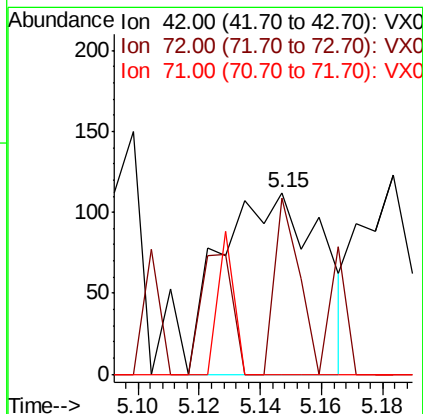
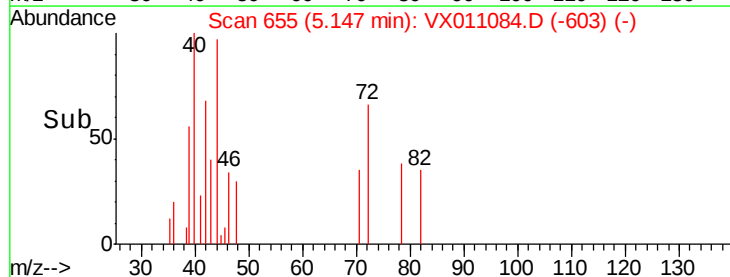
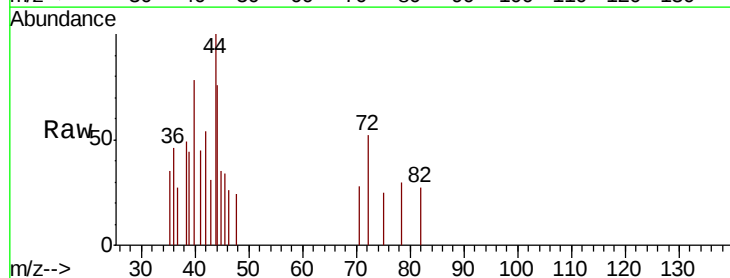
Tgt Ion: 42 Resp: 256

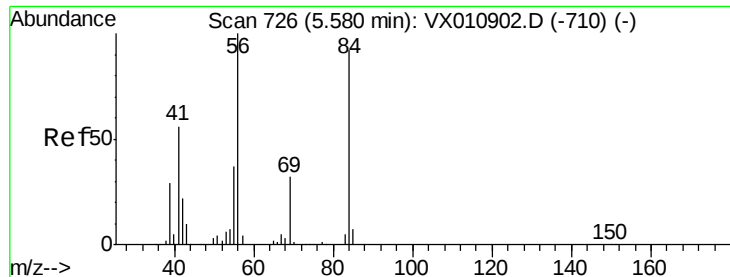
Ion Ratio Lower Upper

42 100

72 23.8 39.8 59.8#

71 0.0 37.0 55.4#

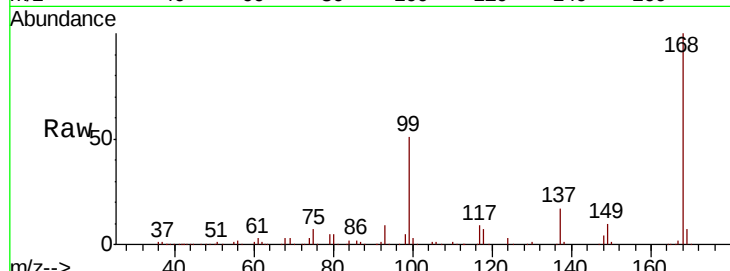




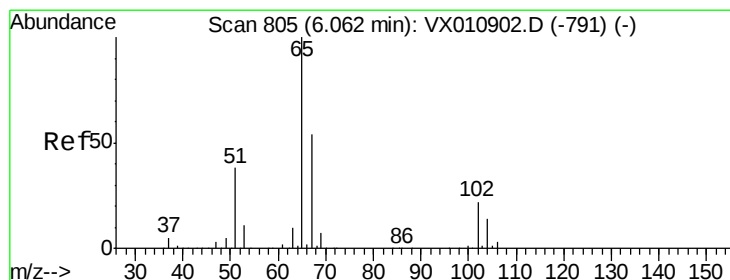
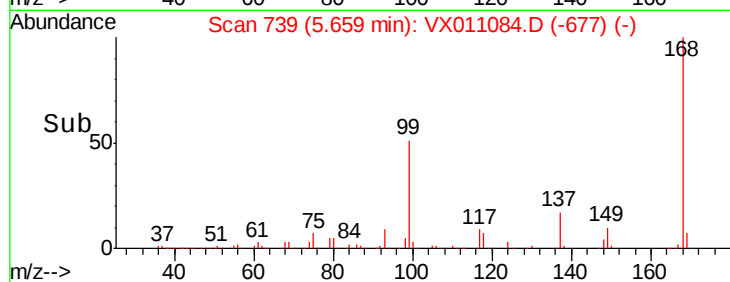
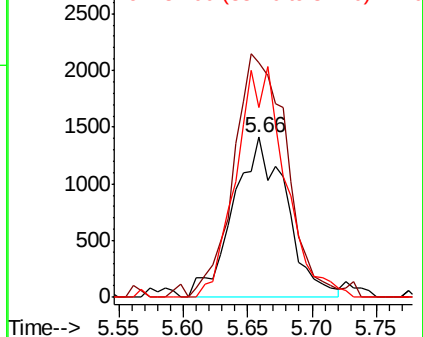
#31
Cvclohexane
Concen: 1.380 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX011084.D
Acq: 26 Jul 2019 12:42

Instrument :
MSVOA_X
ClientSampleId :
FB-072419

Tot Ion: 56 Resp: 4045
Ion Ratio Lower Upper
56 100
69 146.7 25.8 38.8#
84 119.0 73.8 110.6#

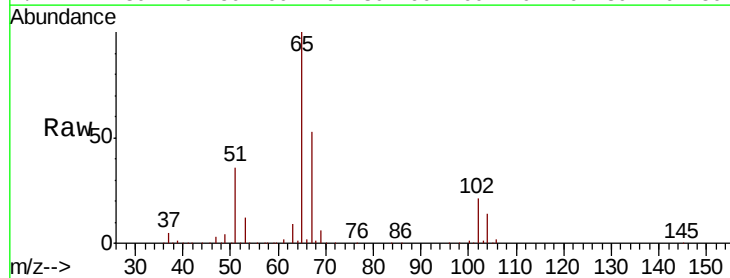


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

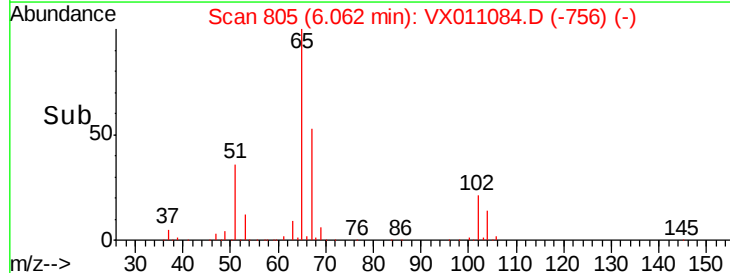
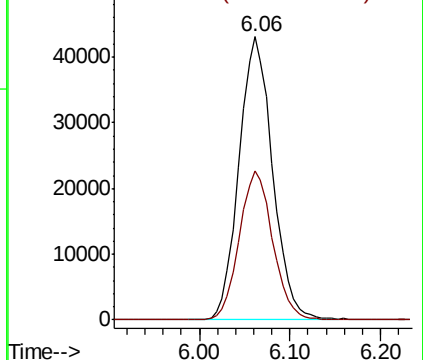


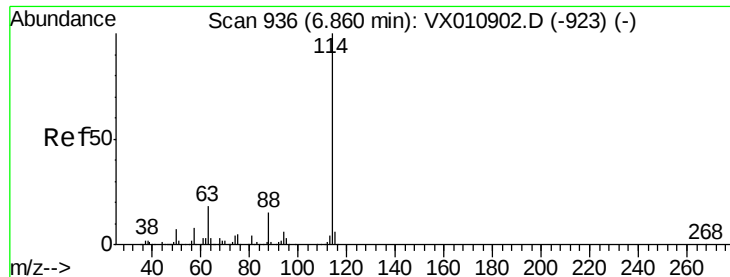
#33
1,2-Dichloroethane-d4
Concen: 51.196 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX011084.D
Acq: 26 Jul 2019 12:42

Tgt Ion: 65 Resp: 110495
Ion Ratio Lower Upper
65 100
67 52.4 0.0 107.8



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: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

FB-072419

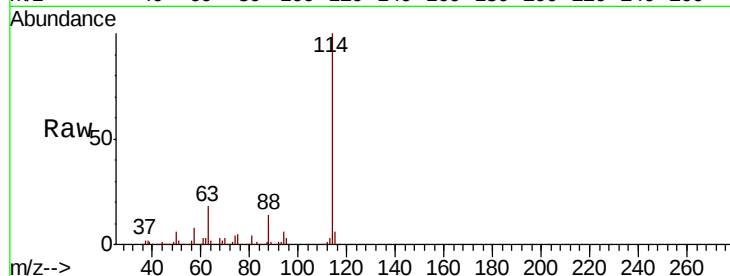
Tot Ion:114 Resp: 323819

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

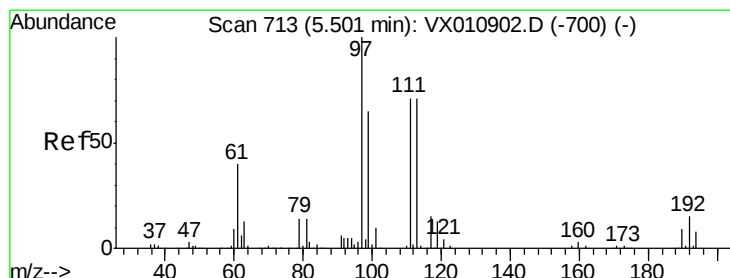
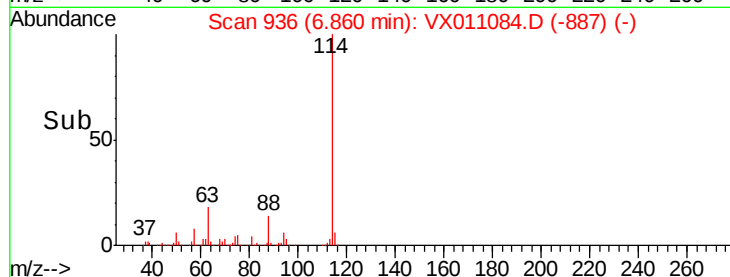
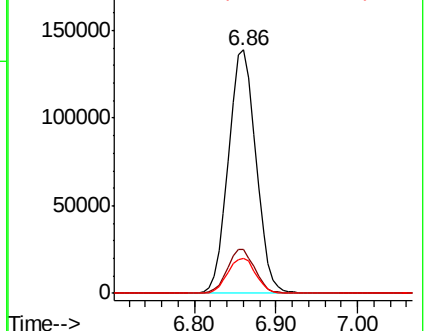
88 14.2 0.0 29.8



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: 48.606 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

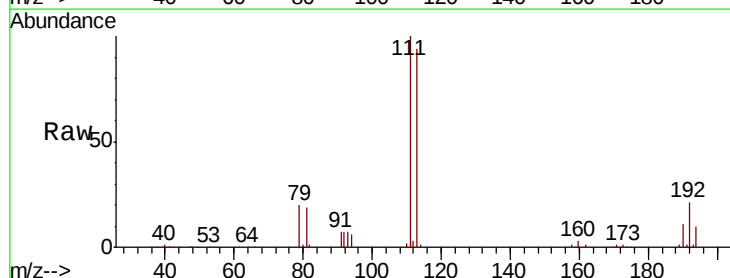
Tgt Ion:113 Resp: 99903

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

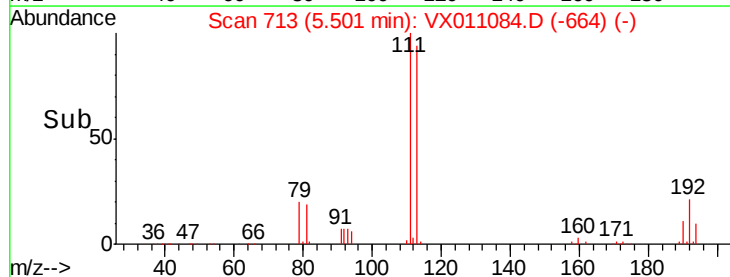
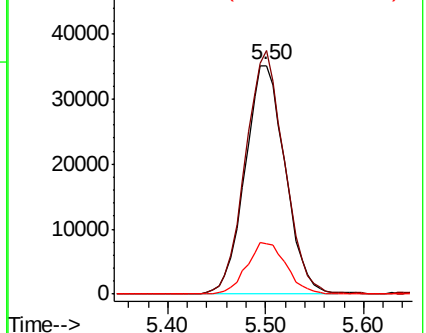
192 22.4 17.4 26.2

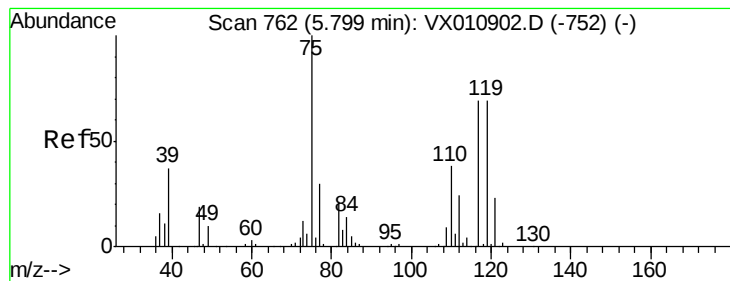


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.240 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

FB-072419

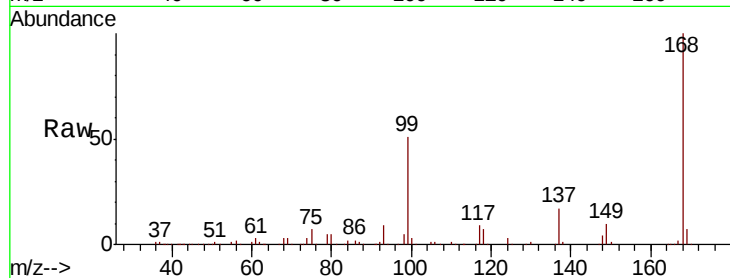
Tot Ion: 75 Resp: 13937

Ion Ratio Lower Upper

75 100

110 10.7 19.9 59.7#

77 0.2 25.0 37.4#



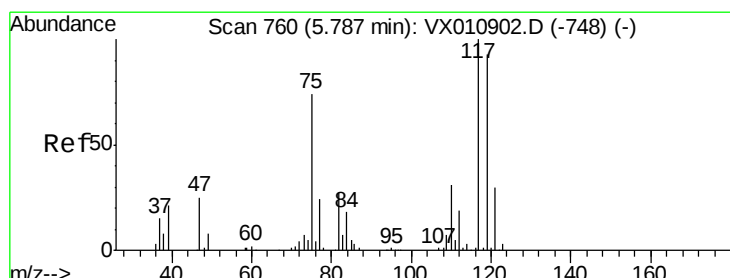
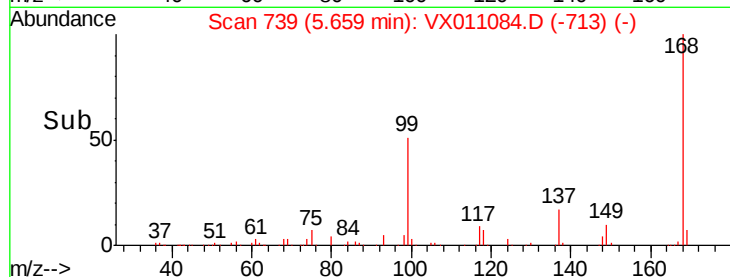
Abundance Ion 74.90 (74.60 to 75.60): VX011084.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX011084.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX011084.D (-713) (-)

5.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.827 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

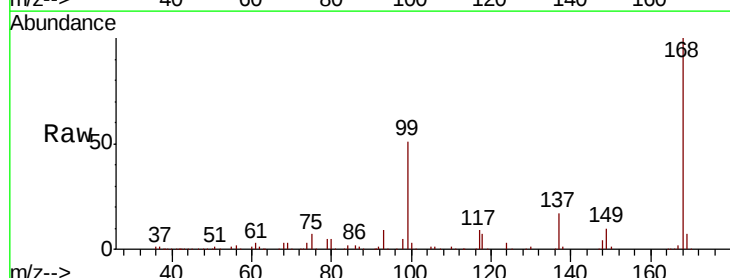
Tgt Ion: 117 Resp: 18923

Ion Ratio Lower Upper

117 100

119 4.1 74.2 111.2#

121 0.0 24.2 36.2#



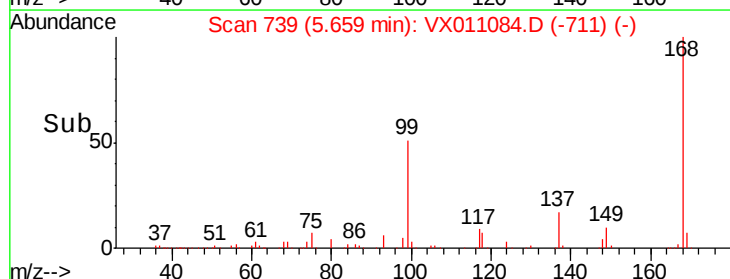
Abundance Ion 116.80 (116.50 to 117.50): VX011084.D (-711) (-)

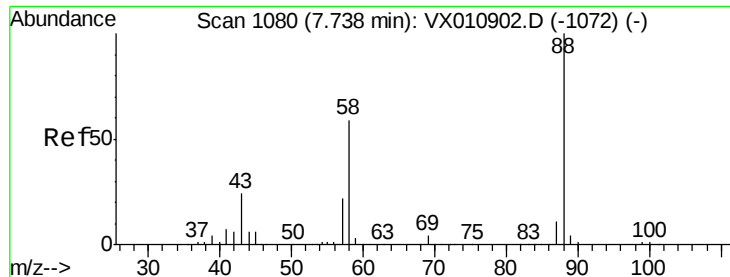
Ion 118.80 (118.50 to 119.50): VX011084.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX011084.D (-711) (-)

5.66

Time-->





#49

1,4-Dioxane

Concen: 0.344 ug/l

RT: 7.59 min Scan# 1056

Delta R.T. -0.15 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

FB-072419

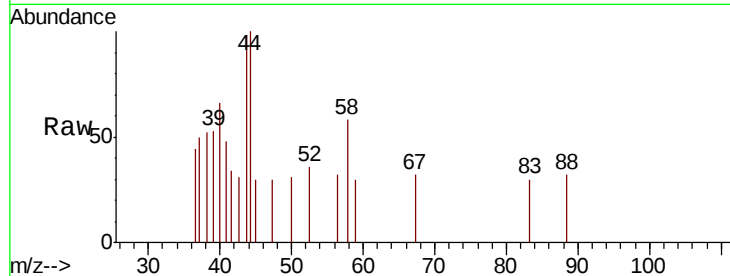
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 271.4 22.9 34.3#

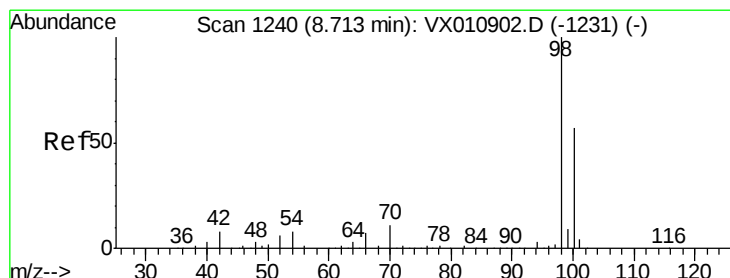
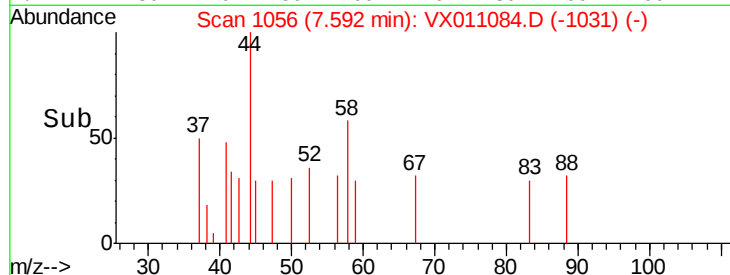
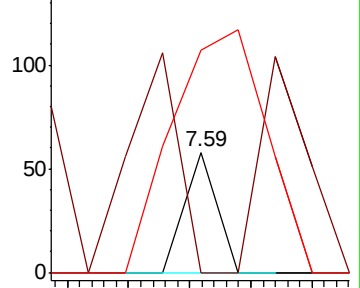
58 595.2 49.8 74.8#



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: 50.376 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011084.D

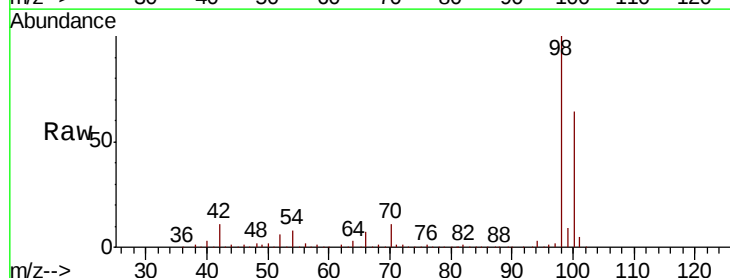
Acq: 26 Jul 2019 12:42

Tgt Ion: 98 Resp: 388344

Ion Ratio Lower Upper

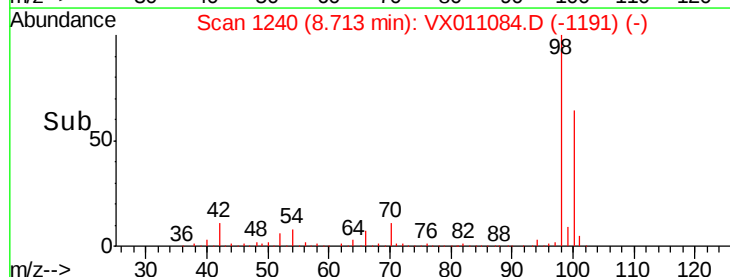
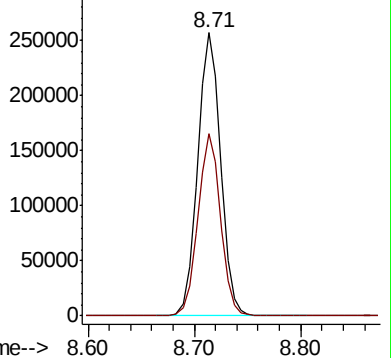
98 100

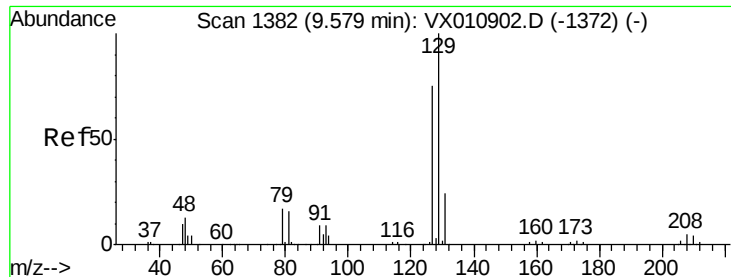
100 63.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.536 ug/l

RT: 9.61 min Scan# 1387

Delta R.T. 0.03 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

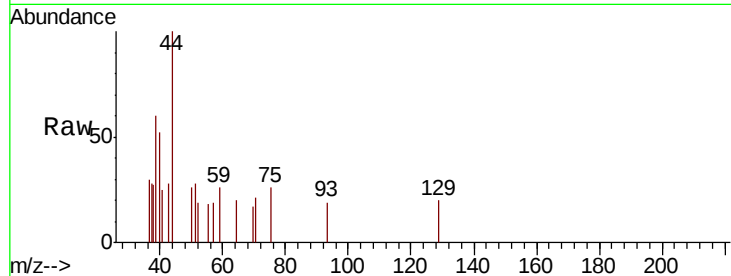
FB-072419

Tot Ion:129 Resp: 22

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.61

60

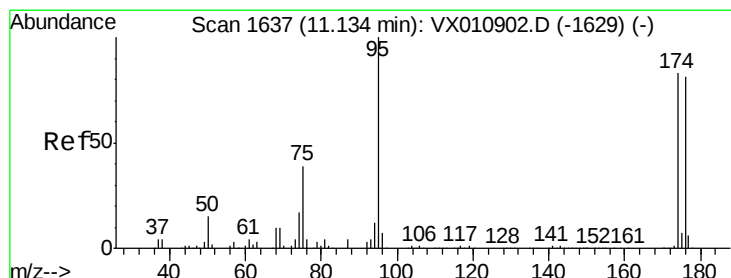
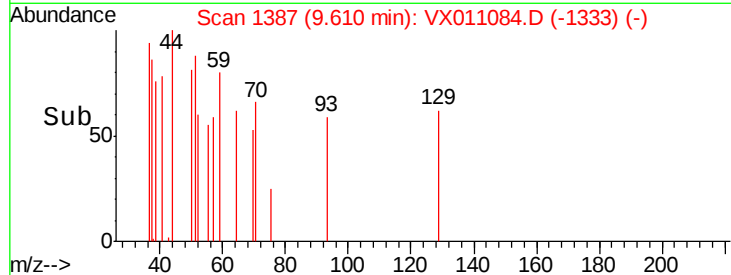
40

20

0

9.59 9.60 9.61 9.62 9.63

Time-->



#62

4-Bromofluorobenzene

Concen: 47.974 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

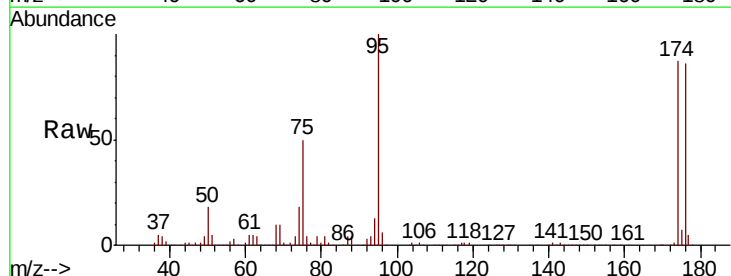
Tgt Ion: 95 Resp: 135937

Ion Ratio Lower Upper

95 100

174 91.8 0.0 180.6

176 88.5 0.0 173.8



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

150000

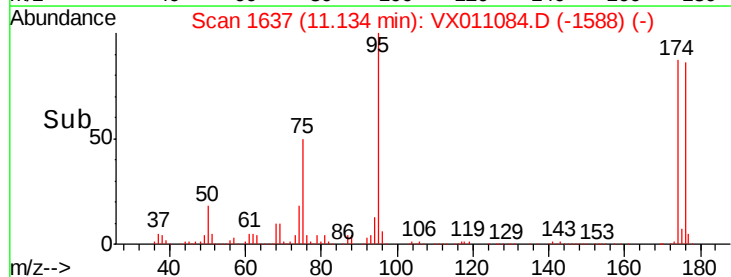
100000

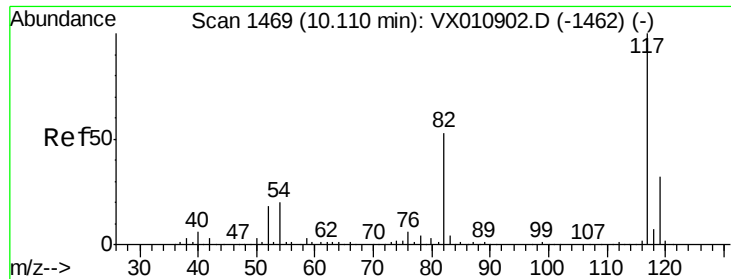
50000

0

11.10 11.13 11.20

Time-->

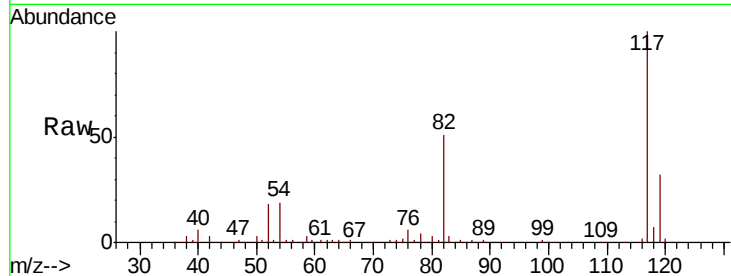




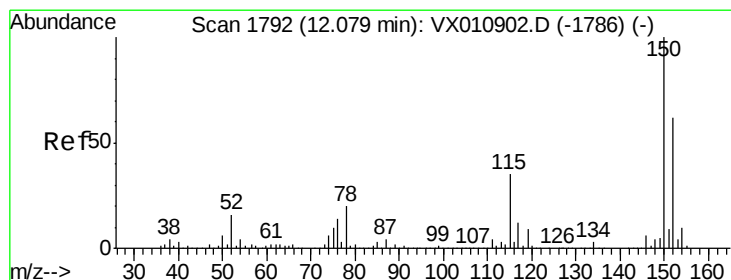
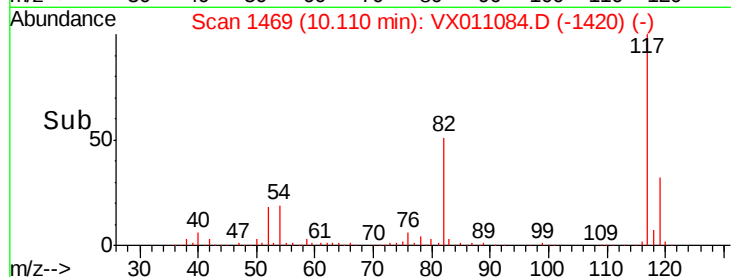
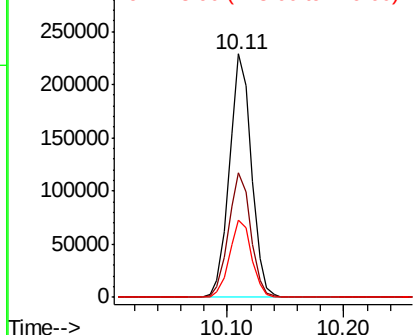
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011084.D
Acq: 26 Jul 2019 12:42

Instrument :
MSVOA_X
ClientSampled :
FB-072419

Tot Ion:117 Resp: 301303
Ion Ratio Lower Upper
117 100
82 51.4 42.6 63.8
119 31.5 25.9 38.9

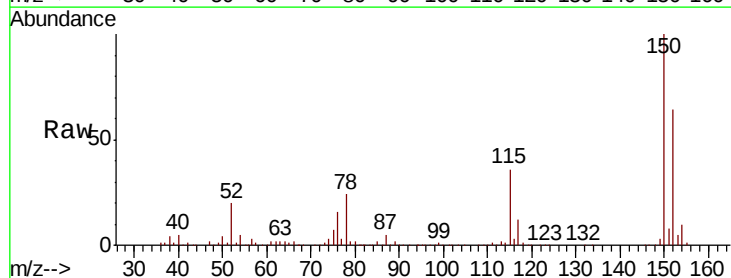


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

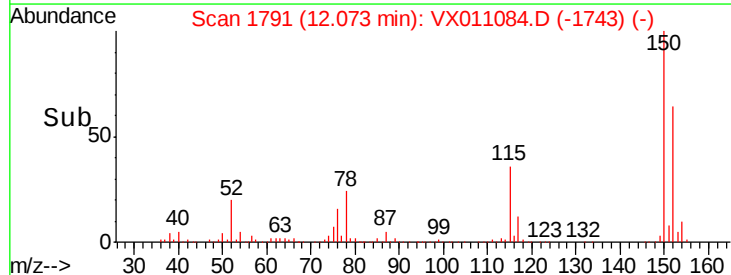
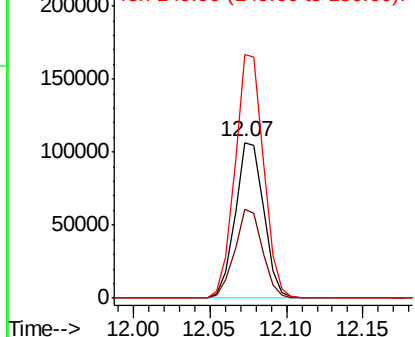


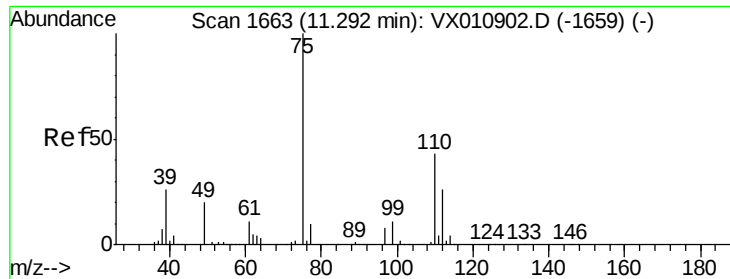
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011084.D
Acq: 26 Jul 2019 12:42

Tgt Ion:152 Resp: 137526
Ion Ratio Lower Upper
152 100
115 55.8 39.7 119.1
150 156.7 0.0 345.6



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: 27.547 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

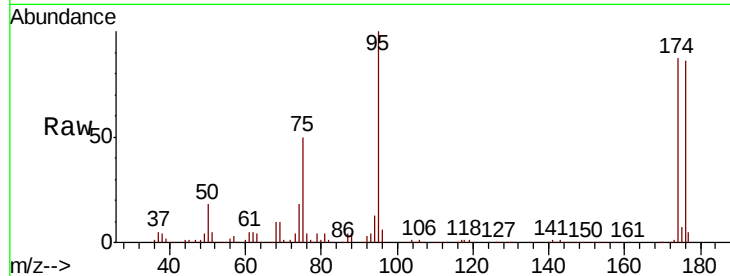
FB-072419

Tot Ion: 75 Resp: 68364

Ion Ratio Lower Upper

75 100

77 1.2 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

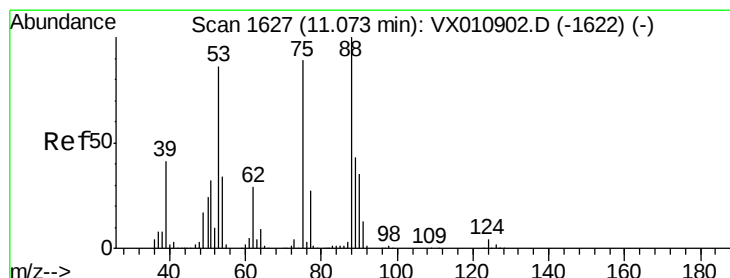
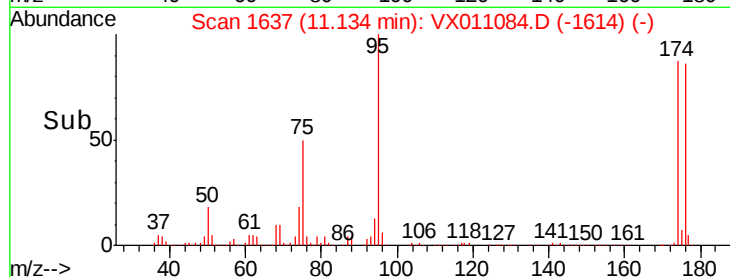
30000

20000

10000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 68.216 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011084.D

Acq: 26 Jul 2019 12:42

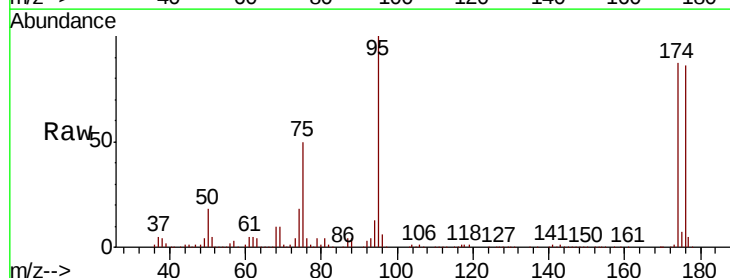
Tgt Ion: 75 Resp: 68364

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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

11.13

60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20

