

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061419\
 Data File : VX010293.D
 Acq On : 14 Jun 2019 12:22
 Operator : JC/SP
 Sample : K3309-02DL 2000X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW001-190610DL2

Quant Time: Jun 15 01:20:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	309415	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	466376	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	417323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193115	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	140014	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
35) Dibromofluoromethane	5.50	113	141586	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	8.71	98	543882	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	11.13	95	184072	45.72	ug/l	0.00
Spiked Amount			Recovery	=	91.44%	

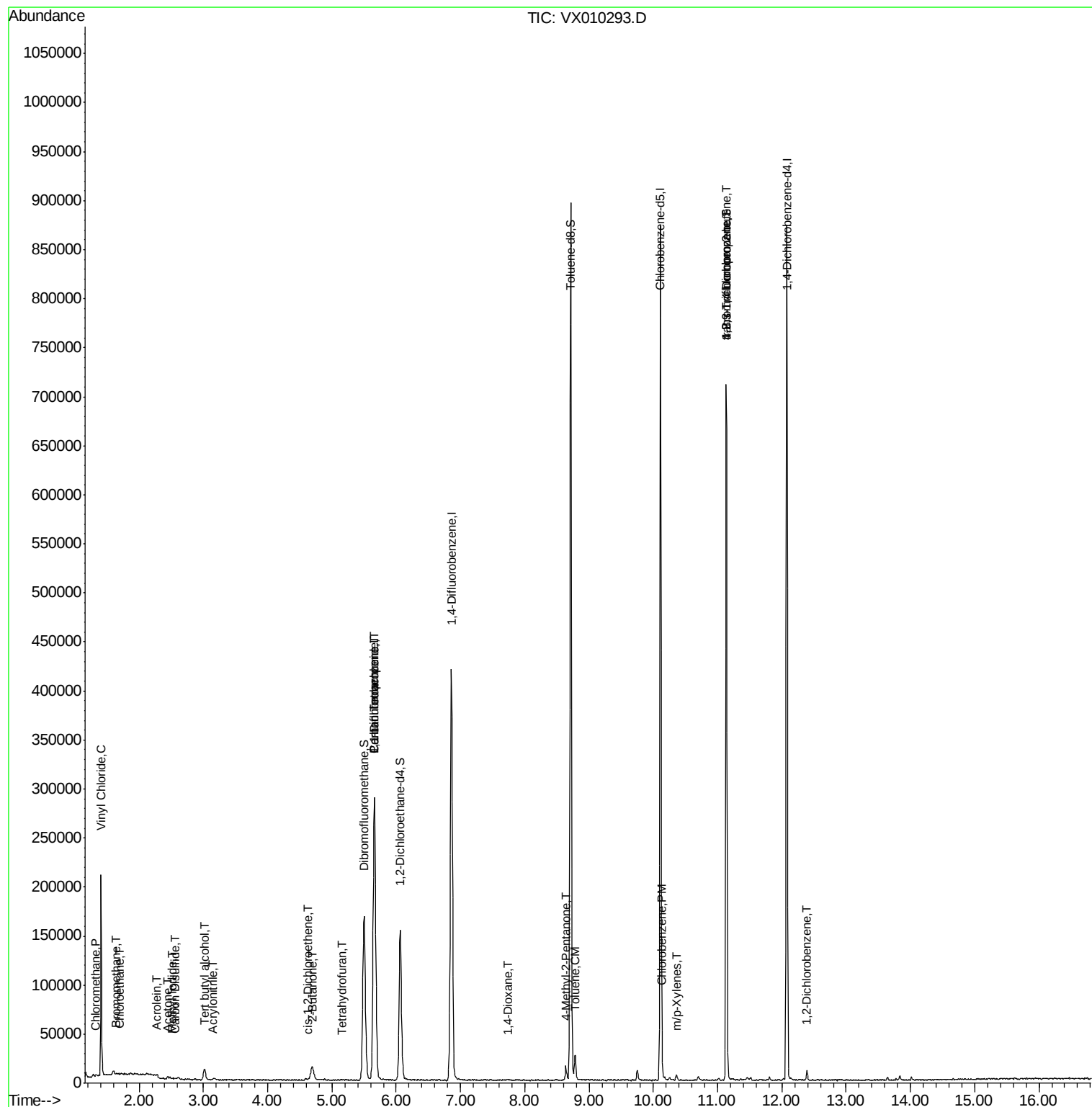
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	703	0.249	ug/l	96
4) Vinyl Chloride	1.41	62	135854	51.123	ug/l	100
5) Bromomethane	1.65	94	604	0.602	ug/l #	48
6) Chloroethane	1.71	64	1501	1.120	ug/l #	70
10) Methyl Iodide	2.51	142	1460	0.346	ug/l #	94
11) Tert butyl alcohol	3.02	59	6375	8.616	ug/l #	80
13) Acrolein	2.28	56	390	2.891	ug/l #	14
15) Acrylonitrile	3.16	53	495	0.327	ug/l #	68
16) Acetone	2.45	43	1919	1.351	ug/l #	89
17) Carbon Disulfide	2.57	76	1639	0.204	ug/l	95
25) 2-Butanone	4.69	43	2236	1.057	ug/l #	85
27) cis-1,2-Dichloroethene	4.62	96	729	0.213	ug/l #	1
29) Tetrahydrofuran	5.15	42	392	0.295	ug/l #	89
36) 1,1-Dichloropropene	5.67	75	19017	4.998	ug/l #	51
38) Carbon Tetrachloride	5.66	117	26039	6.046	ug/l #	16
49) 1,4-Dioxane	7.74	88	19	0.215	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	8812	2.228	ug/l	88
52) Toluene	8.79	92	9584	1.239	ug/l	95
65) Chlorobenzene	10.14	112	1891	0.220	ug/l #	80
68) m/p-Xylenes	10.36	106	1426	0.251	ug/l	82
76) 1,2,3-Trichloropropane	11.13	75	84545	21.888	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84545	48.359	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	2863	0.451	ug/l	98

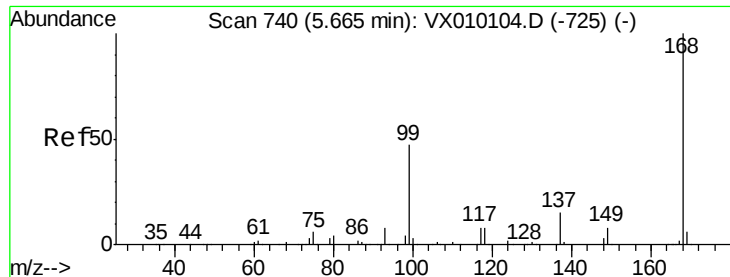
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061419\
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Quant Time: Jun 15 01:20:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

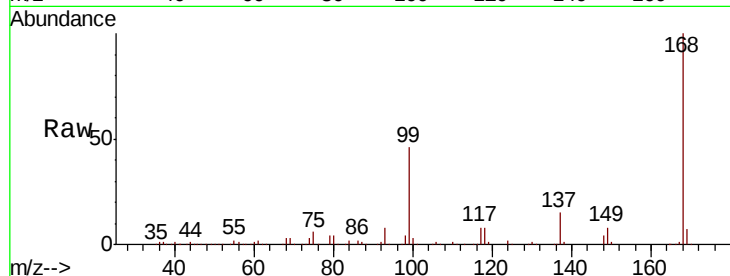
LF001MW001-190610DL2

Tot Ion:168 Resp: 309415

Ion Ratio Lower Upper

168 100

99 46.3 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

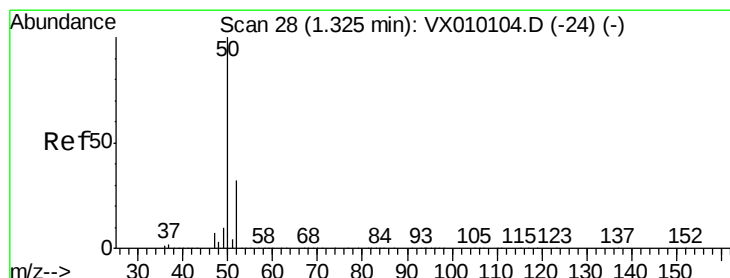
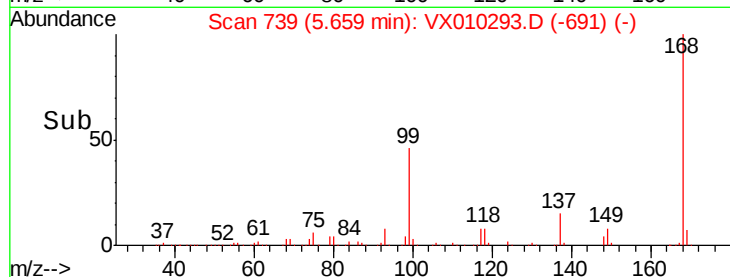
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010293.D

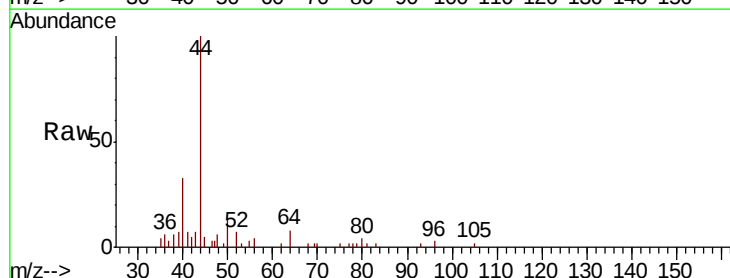
Acq: 14 Jun 2019 12:22

Tgt Ion: 50 Resp: 703

Ion Ratio Lower Upper

50 100

52 34.8 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1000

800

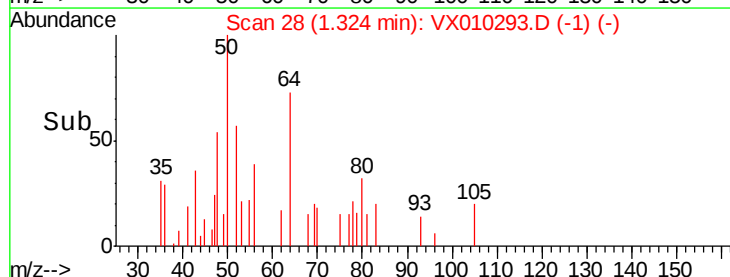
600

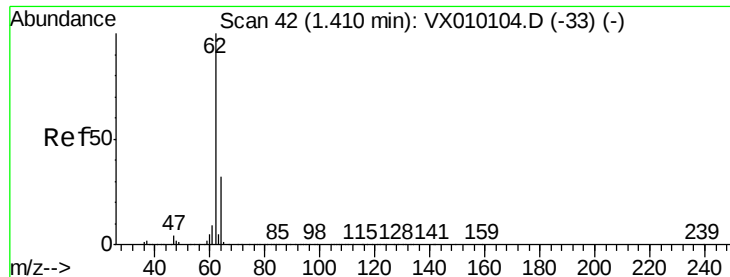
400

200

0

Time--> 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 51.123 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

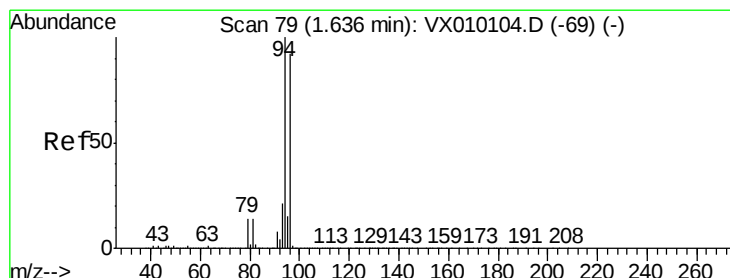
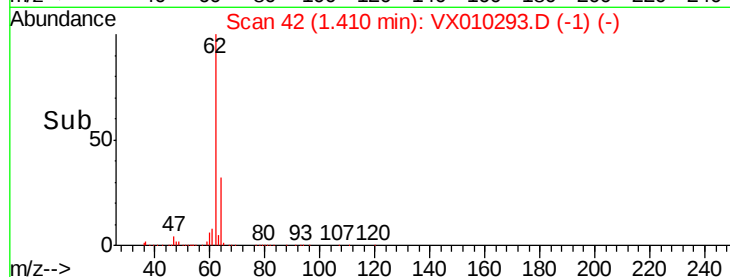
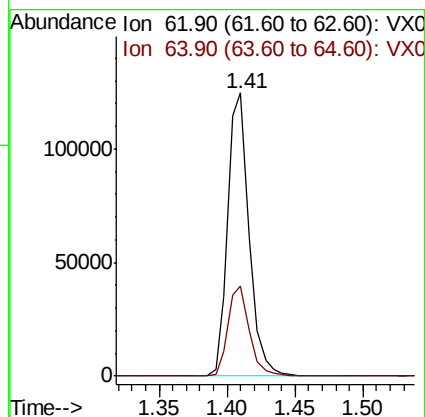
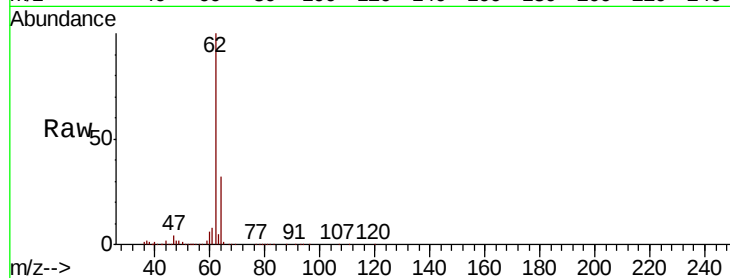
LF001MW001-190610DL2

Tot Ion: 62 Resp: 135854

Ion Ratio Lower Upper

62 100

64 31.8 25.7 38.5



#5

Bromomethane

Concen: 0.602 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010293.D

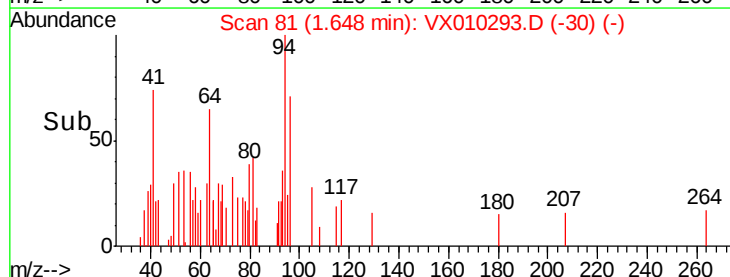
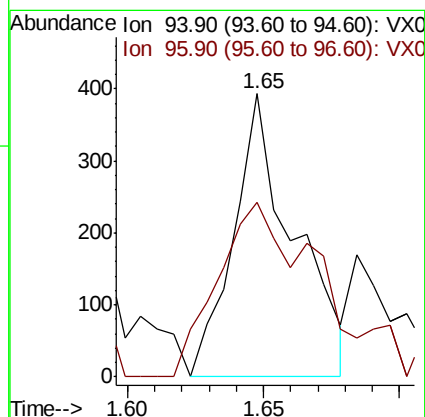
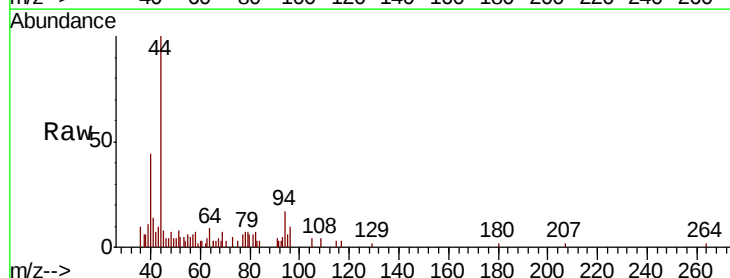
Acq: 14 Jun 2019 12:22

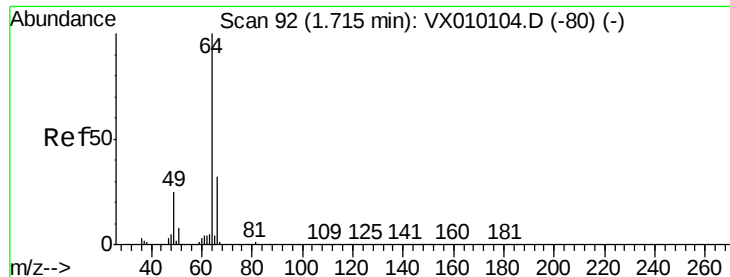
Tgt Ion: 94 Resp: 604

Ion Ratio Lower Upper

94 100

96 45.0 76.2 114.4#





#6

Chloroethane

Concen: 1.120 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

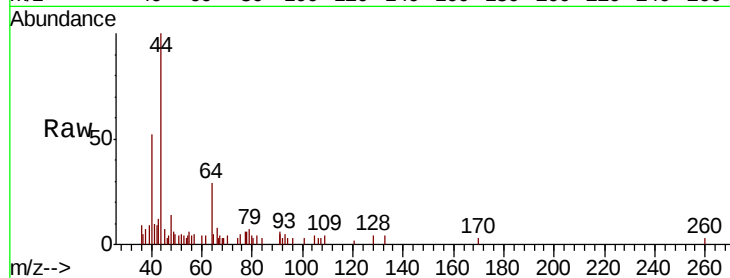
LF001MW001-190610DL2

Tot Ion: 64 Resp: 1501

Ion Ratio Lower Upper

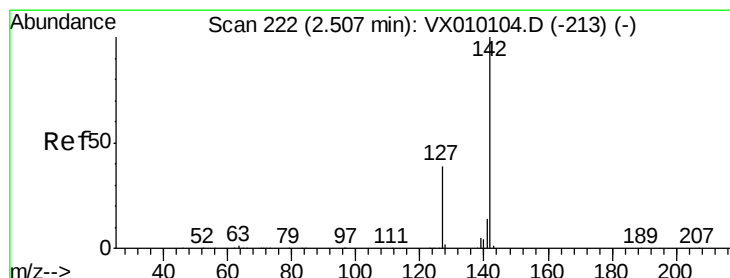
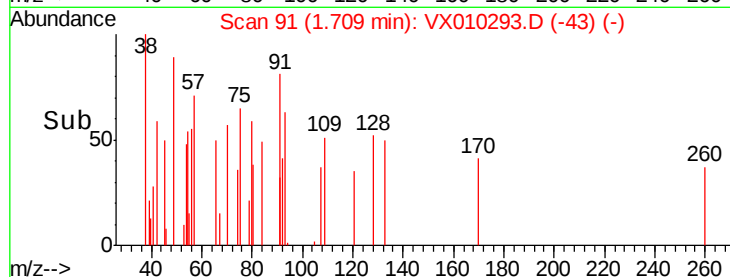
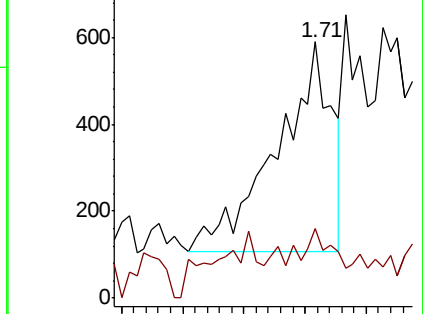
64 100

66 14.9 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.346 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

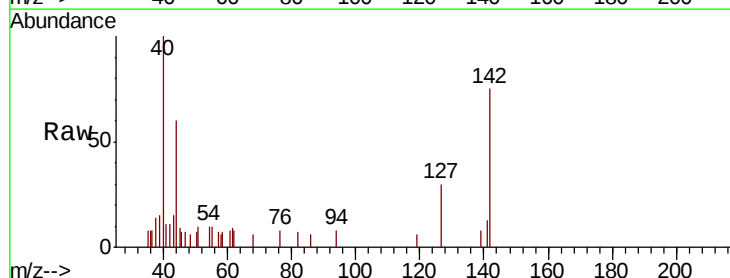
Tgt Ion: 142 Resp: 1460

Ion Ratio Lower Upper

142 100

127 38.2 33.0 49.4

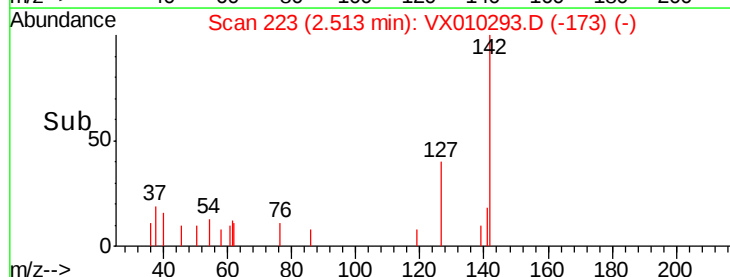
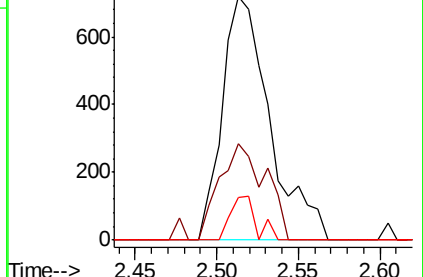
141 9.6 11.4 17.0#

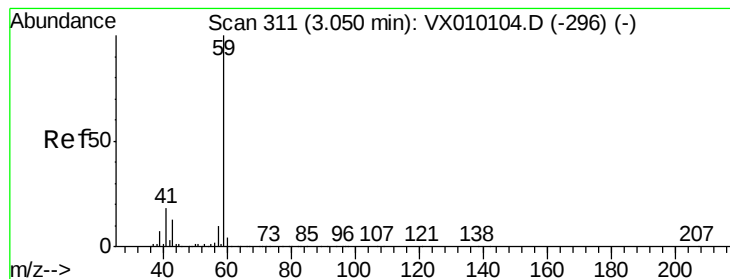


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



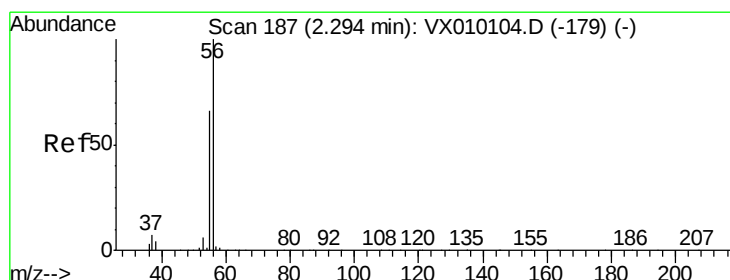
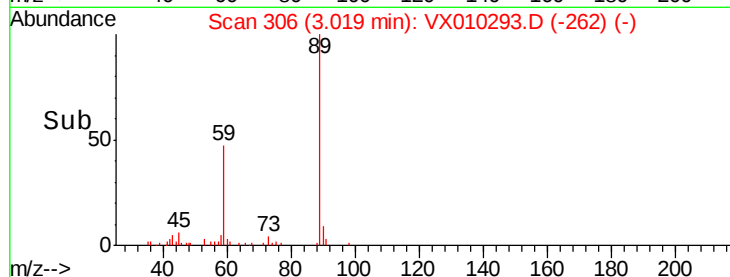
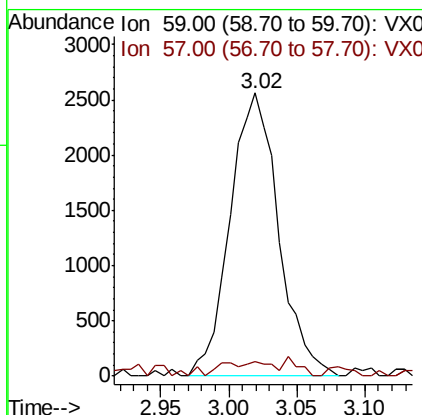
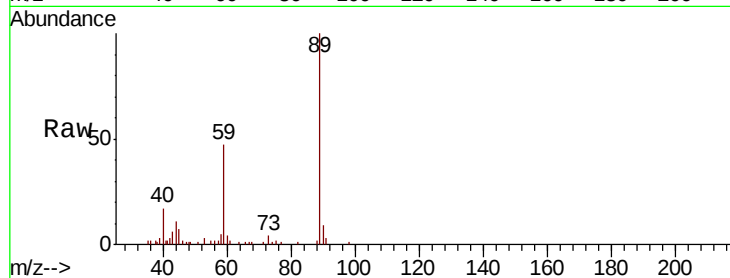


#11

Tert butyl alcohol
 Concen: 8.616 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW001-190610DL2

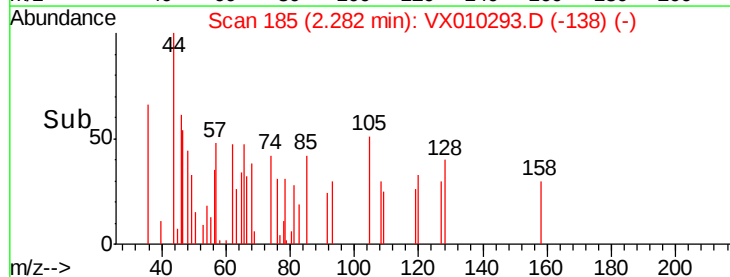
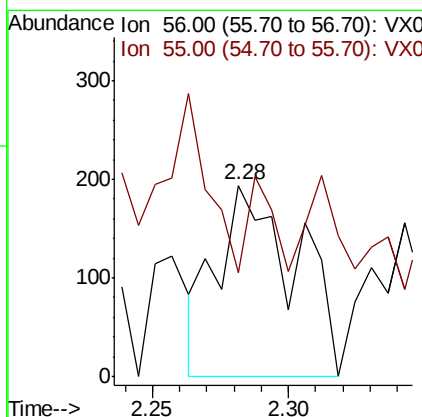
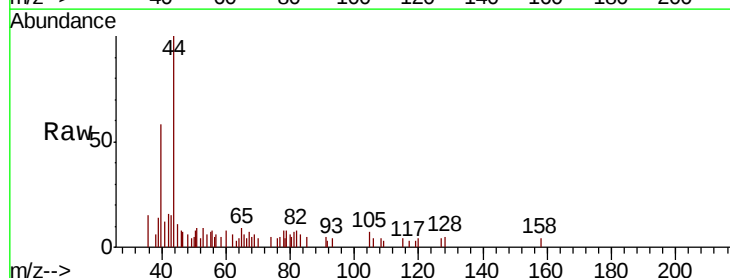
Tot Ion: 59 Resp: 6375
 Ion Ratio Lower Upper
 59 100
 57 2.7 8.2 12.2#

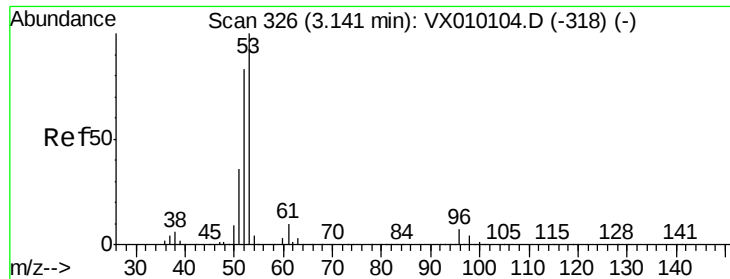


#13

Acrolein
 Concen: 2.891 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

Tgt Ion: 56 Resp: 390
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.327 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

LF001MW001-190610DL2

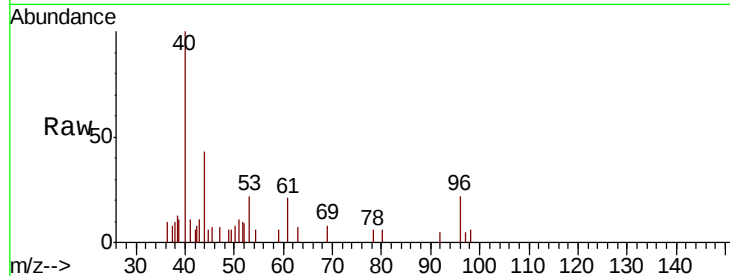
Tot Ion: 53 Resp: 495

Ion Ratio Lower Upper

53 100

52 49.7 66.7 100.1#

51 23.6 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

3.16

250

200

150

100

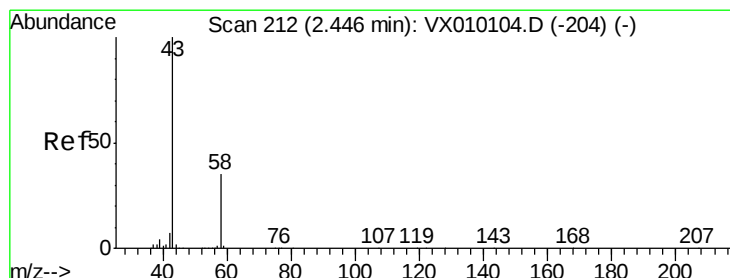
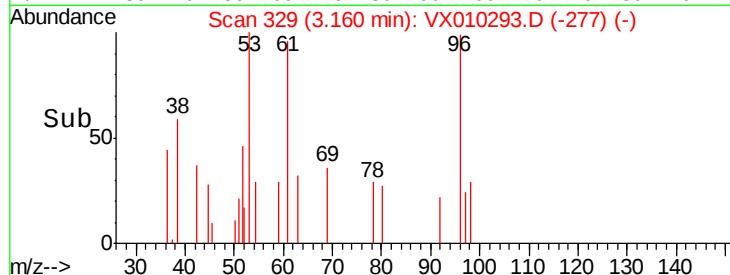
50

0

3.10

3.15

Time-->



#16

Acetone

Concen: 1.351 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010293.D

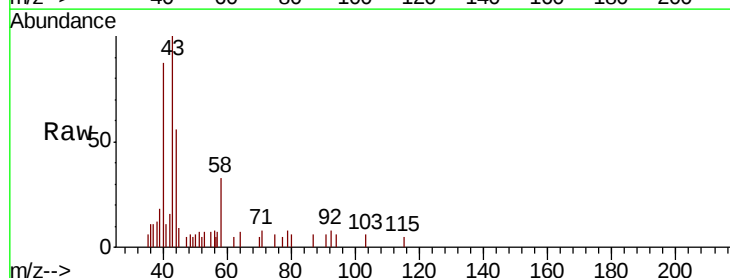
Acq: 14 Jun 2019 12:22

Tgt Ion: 43 Resp: 1919

Ion Ratio Lower Upper

43 100

58 34.9 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

1000

500

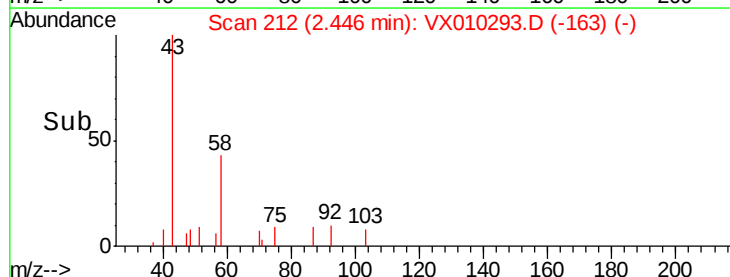
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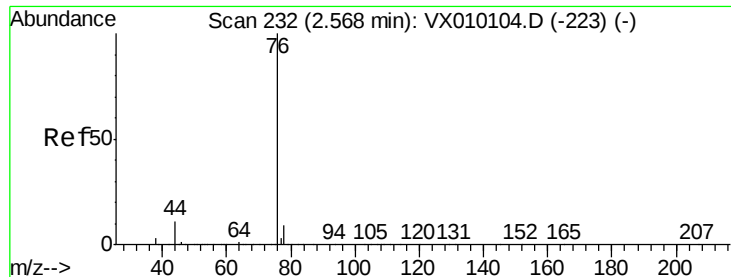
2.40

2.45

2.50

Time-->

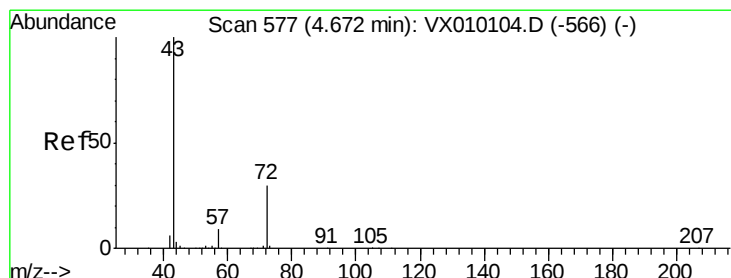
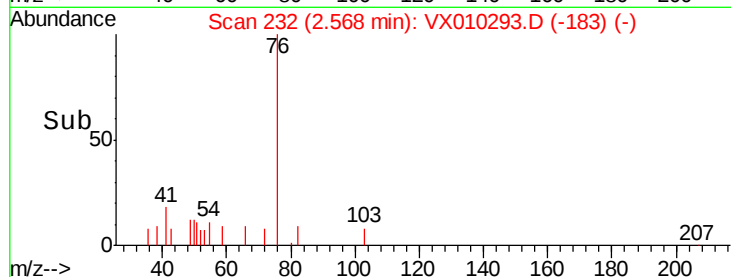
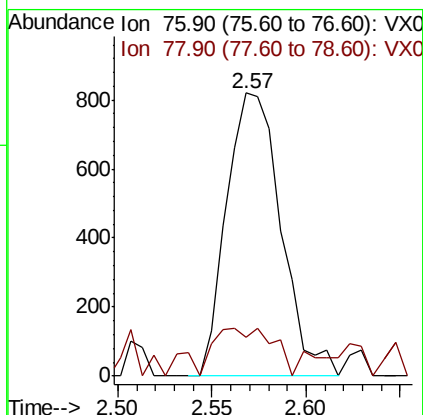
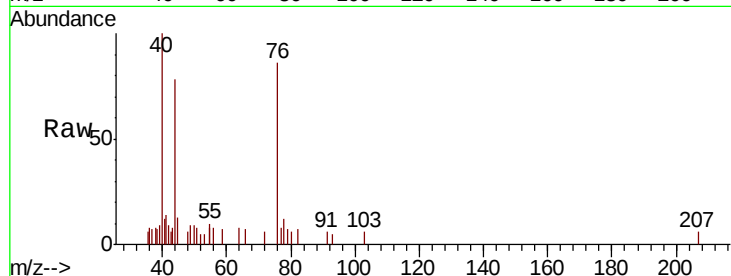




#17
Carbon Disulfide
Concen: 0.204 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

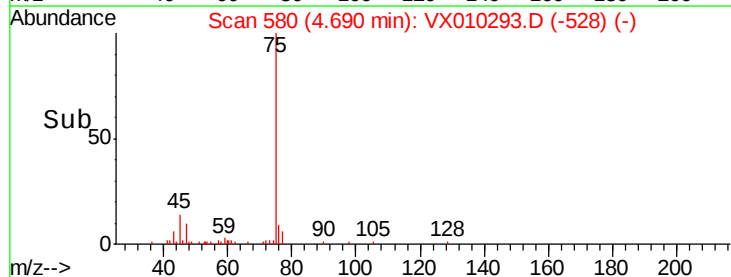
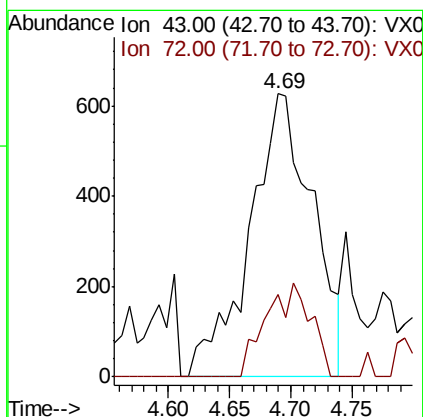
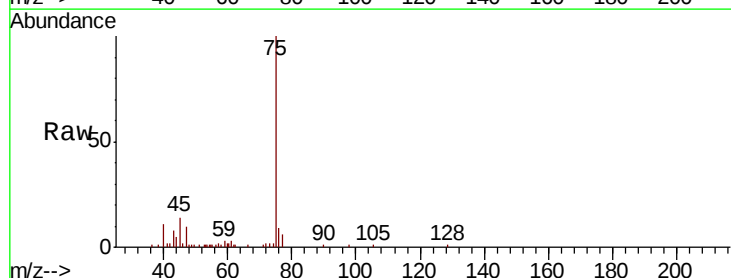
Instrument :
MSVOA_X
ClientSampleId :
LF001MW001-190610DL2

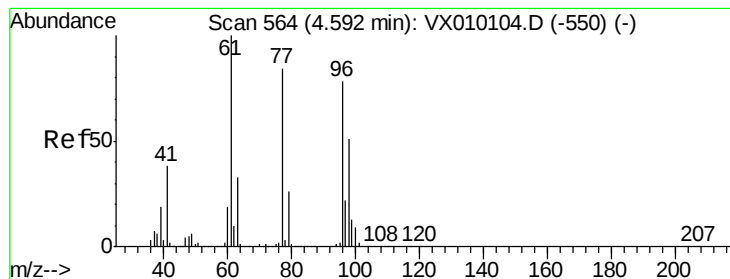
Tot Ion: 76 Resp: 1639
Ion Ratio Lower Upper
76 100
78 7.1 7.0 10.6



#25
2-Butanone
Concen: 1.057 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

Tgt Ion: 43 Resp: 2236
Ion Ratio Lower Upper
43 100
72 28.9 17.5 26.3#



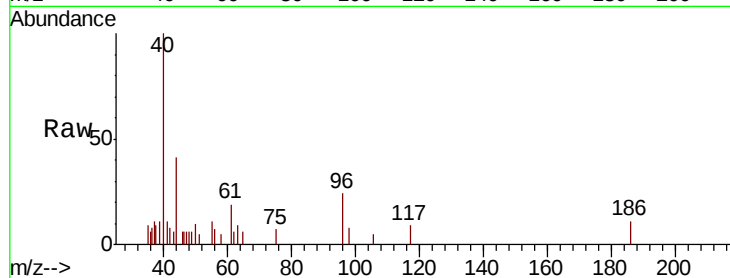


#27

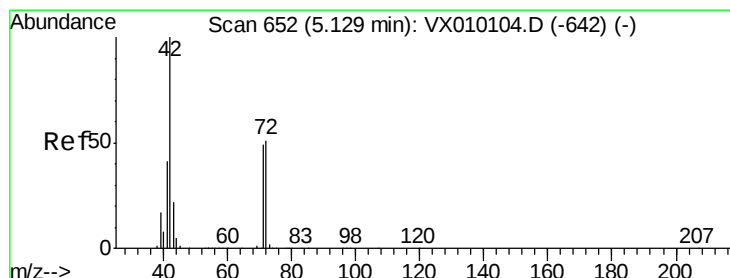
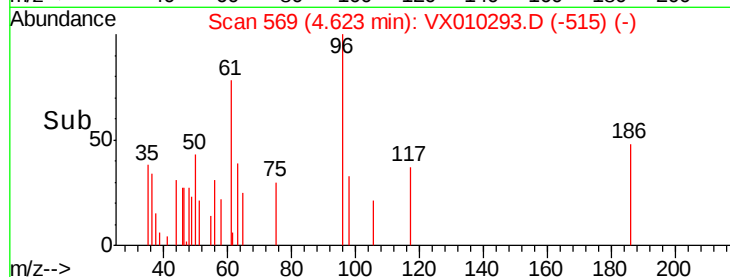
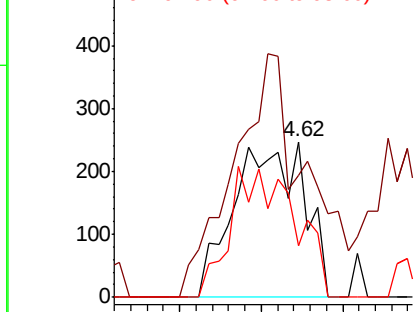
cis-1,2-Dichloroethene
Concen: 0.213 ug/l
RT: 4.62 min Scan# 569
Delta R.T. 0.03 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

Instrument :
MSVOA_X
ClientSampleId :
LF001MW001-190610DL2

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	334.0
98	0.0	0.0	131.6



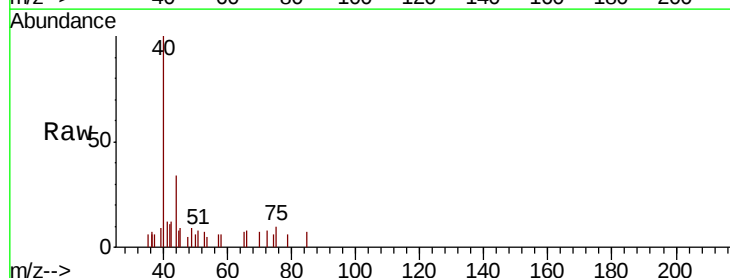
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



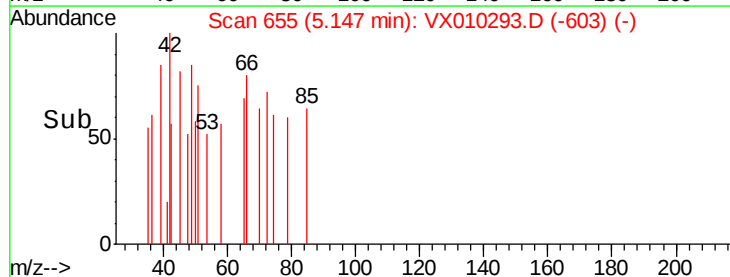
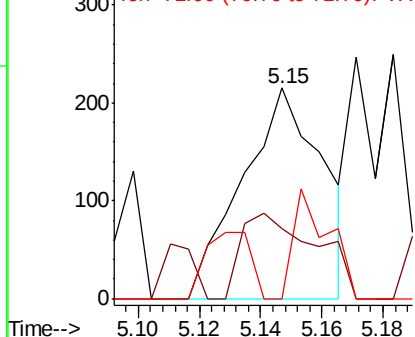
#29

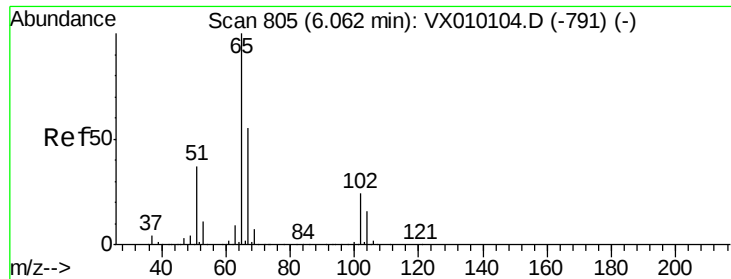
Tetrahydrofuran
Concen: 0.295 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.8	29.2	43.8
71	23.0	27.6	41.4#



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

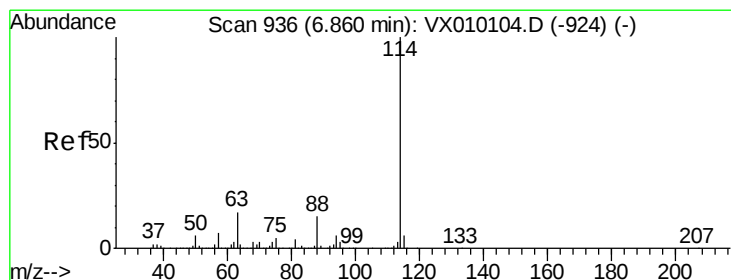
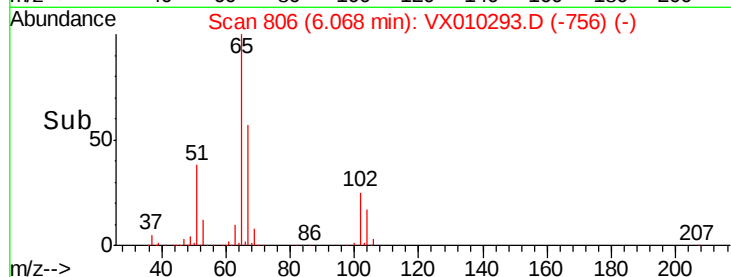
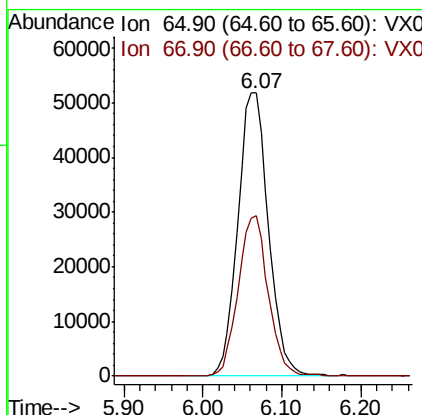
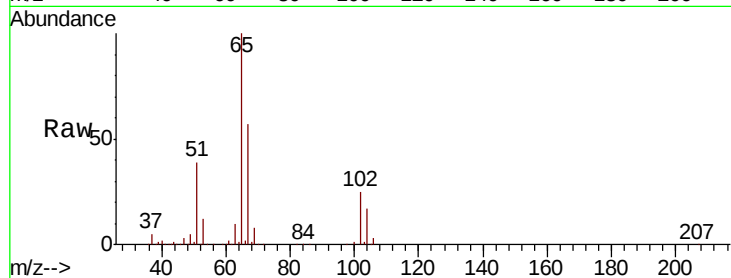




#33
 1,2-Dichloroethane-d4
 Concen: 46.359 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

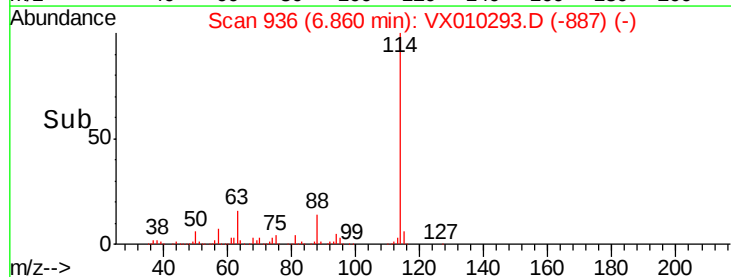
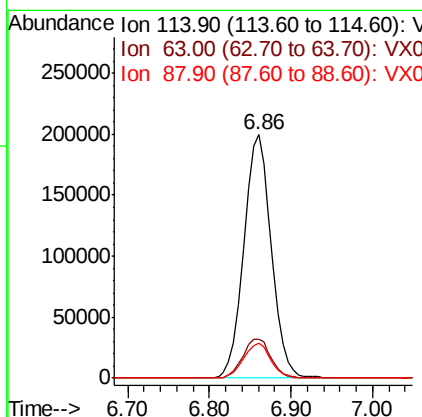
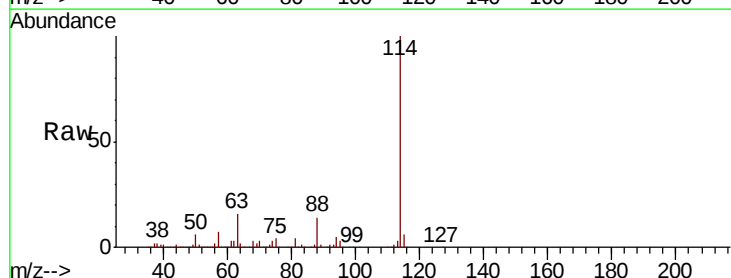
Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW001-190610DL2

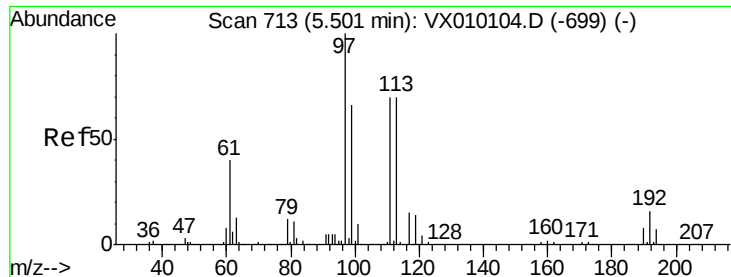
Tot Ion: 65 Resp: 140014
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

Tgt Ion: 114 Resp: 466376
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 47.4
 88 14.4 0.0 33.0

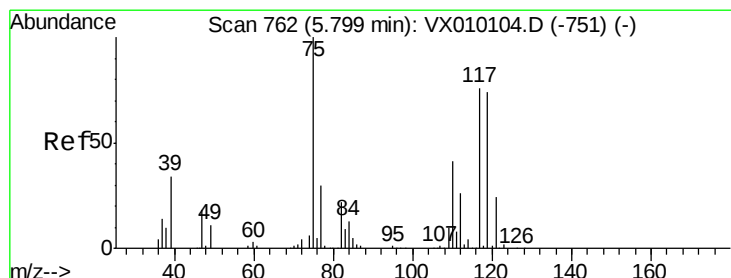
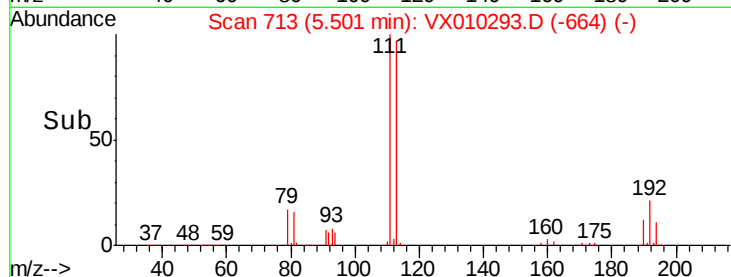
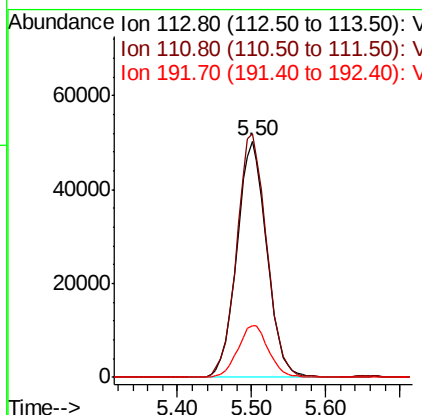
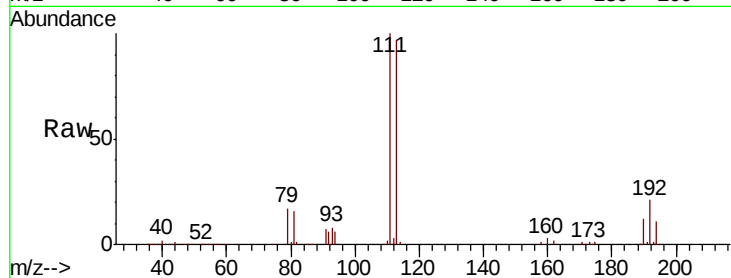




#35
 Dibromofluoromethane
 Concen: 49.218 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

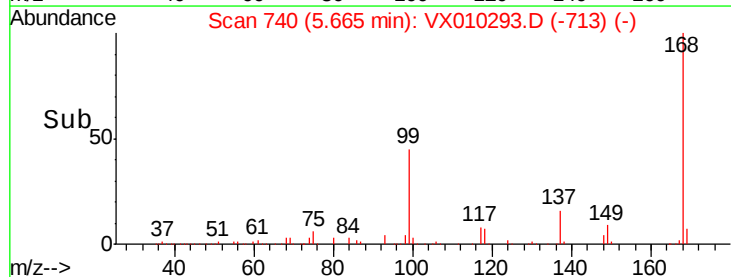
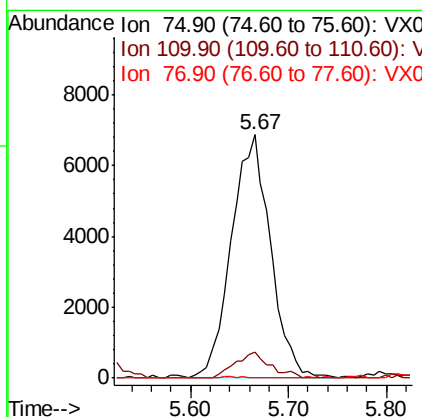
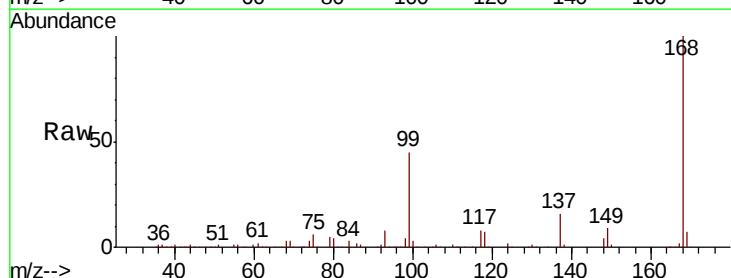
Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW001-190610DL2

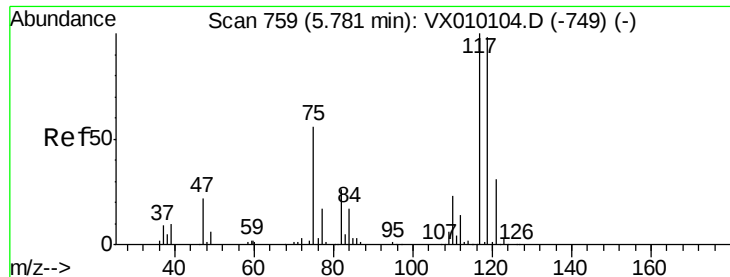
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.2
192	22.4	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.998 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.7	50.1#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.046 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

LF001MW001-190610DL2

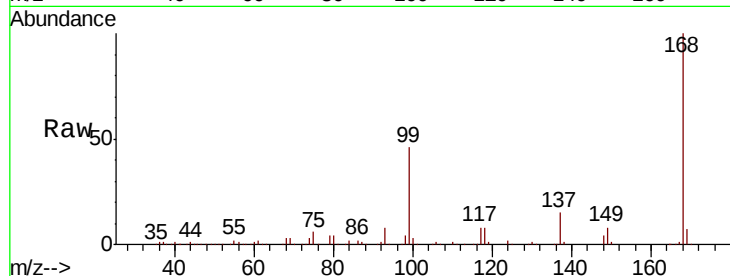
Tot Ion:117 Resp: 26039

Ion Ratio Lower Upper

117 100

119 6.2 77.3 115.9#

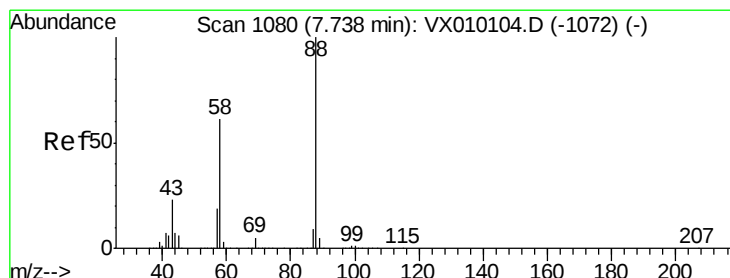
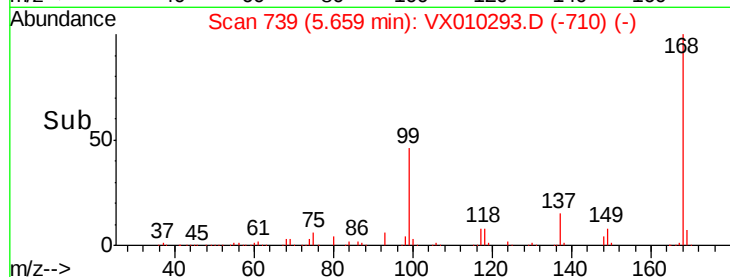
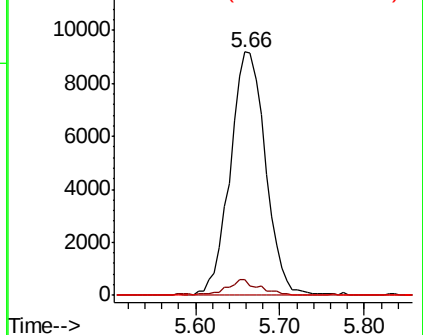
121 0.0 25.4 38.0#



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: 0.215 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

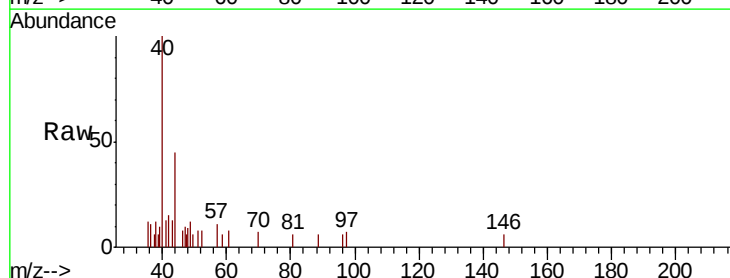
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 710.5 30.2 45.4#

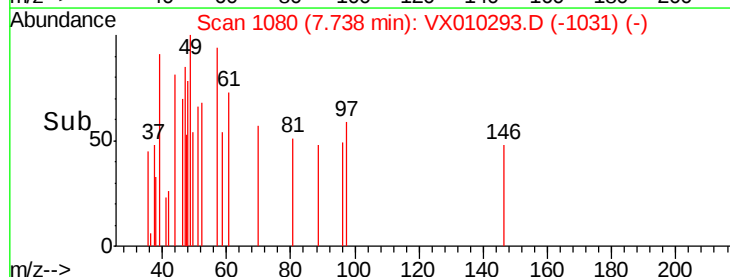
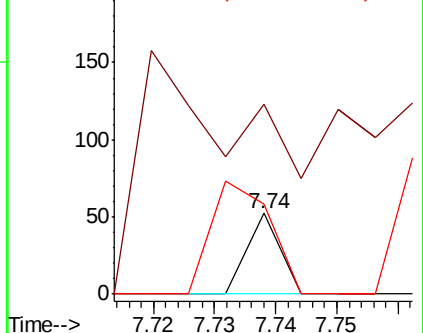
58 252.6 64.0 96.0#

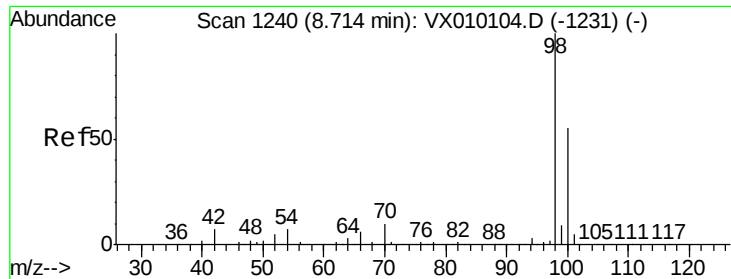


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.446 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

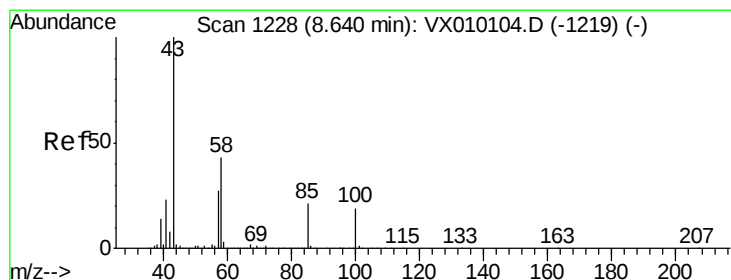
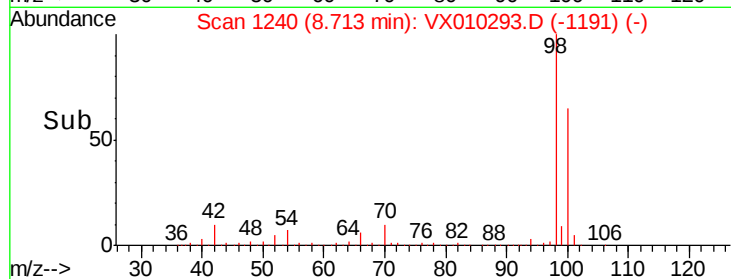
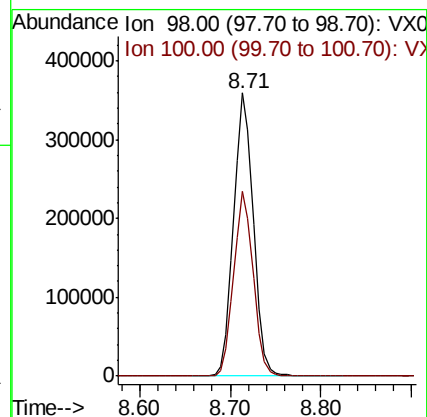
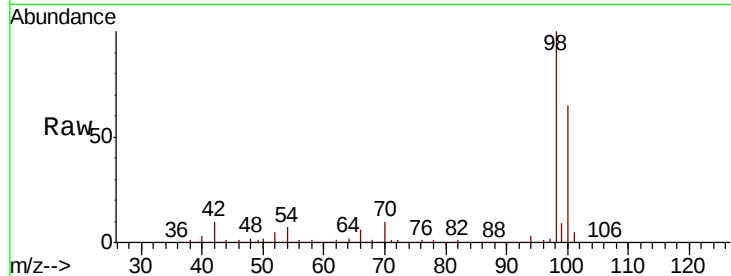
LF001MW001-190610DL2

Tot Ion: 98 Resp: 543882

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 2.228 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX010293.D

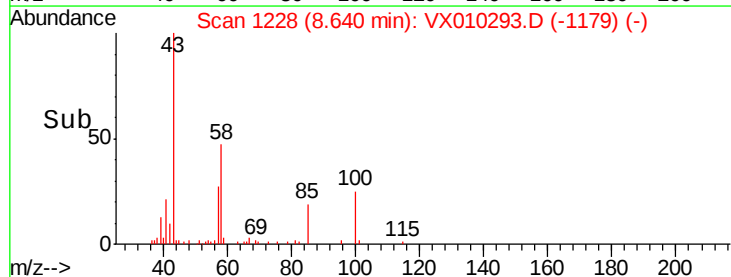
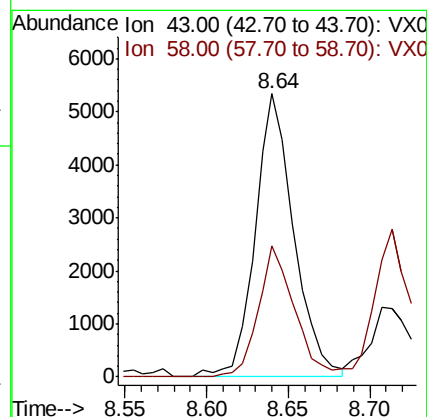
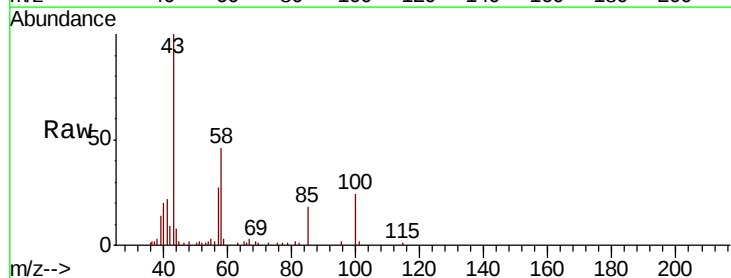
Acq: 14 Jun 2019 12:22

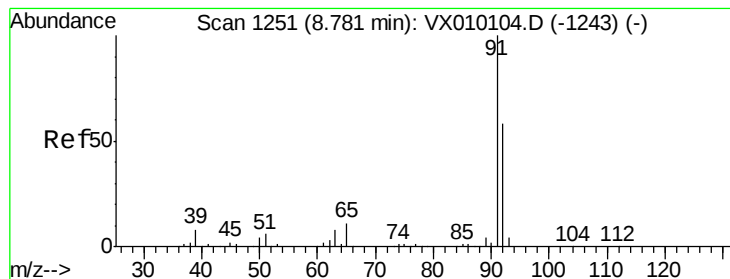
Tgt Ion: 43 Resp: 8812

Ion Ratio Lower Upper

43 100

58 42.8 28.8 43.2





#52

Toluene

Concen: 1.239 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

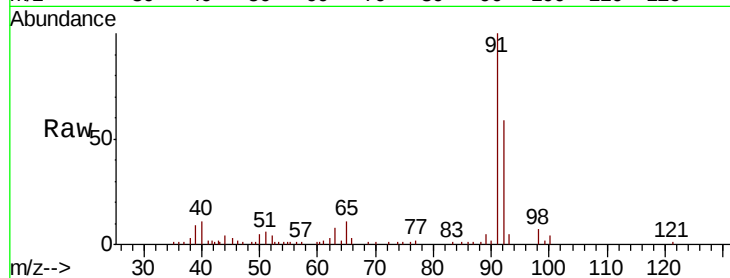
LF001MW001-190610DL2

Tot Ion: 92 Resp: 9584

Ion Ratio Lower Upper

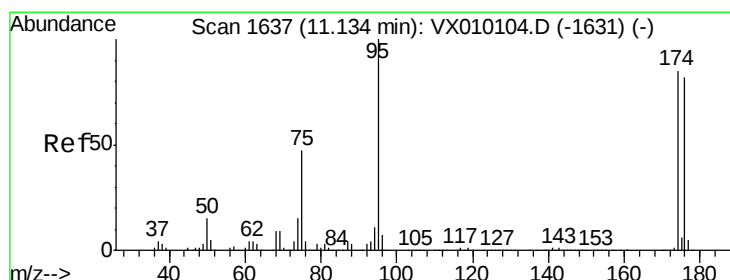
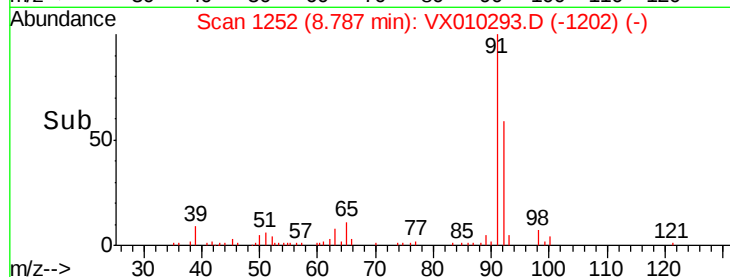
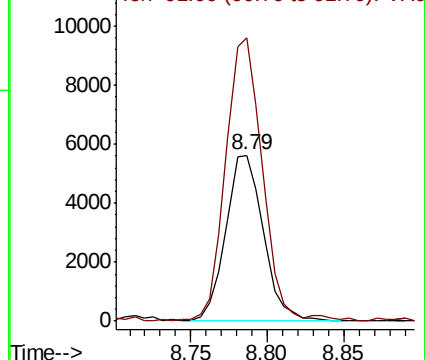
92 100

91 167.7 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

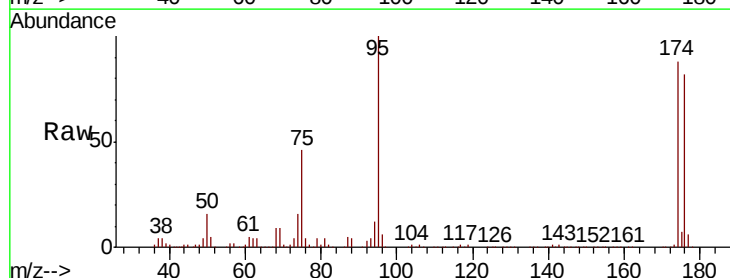
Tgt Ion: 95 Resp: 184072

Ion Ratio Lower Upper

95 100

174 94.3 0.0 160.4

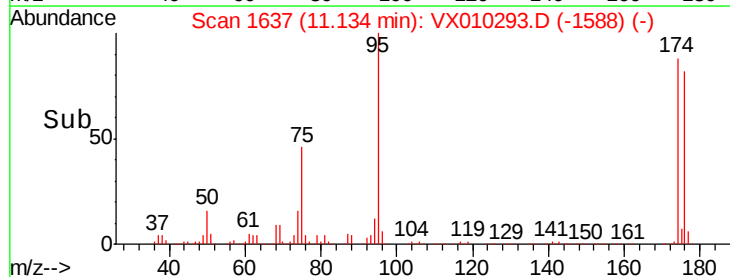
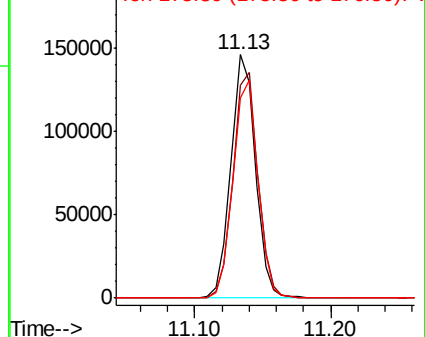
176 91.2 0.0 154.6

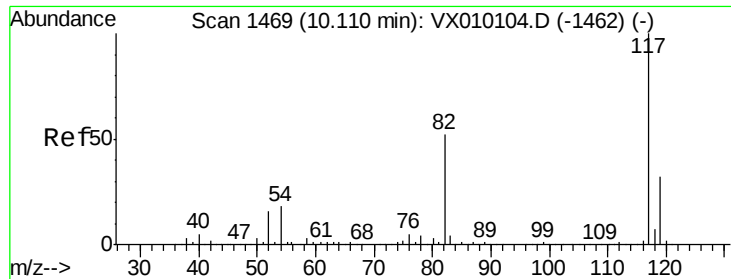


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

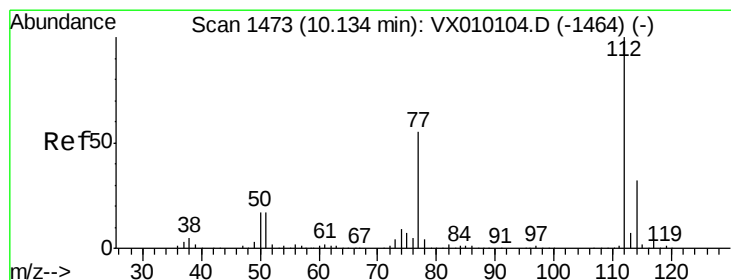
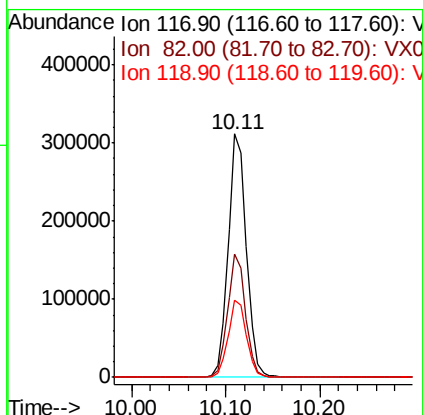
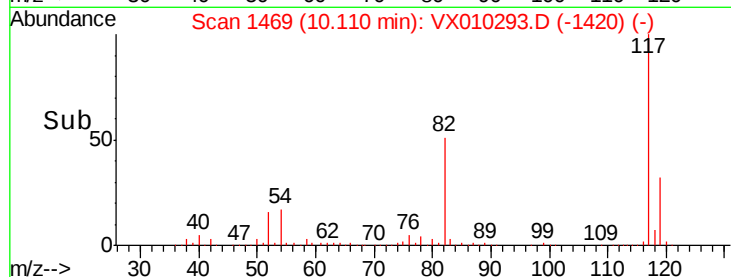
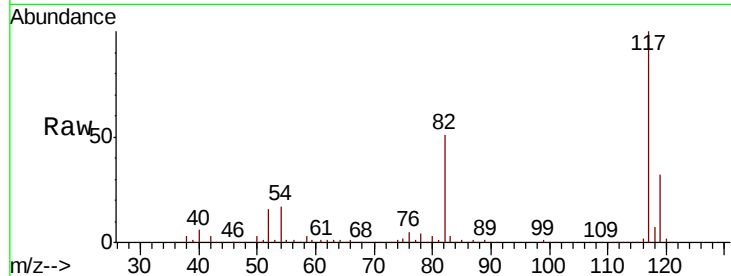




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

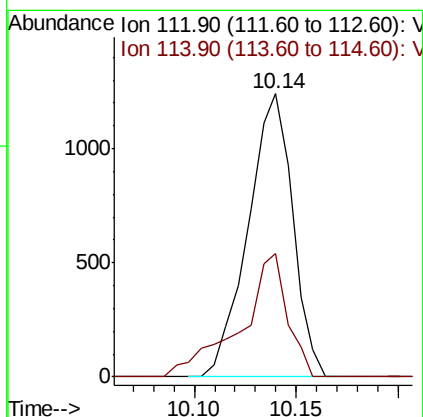
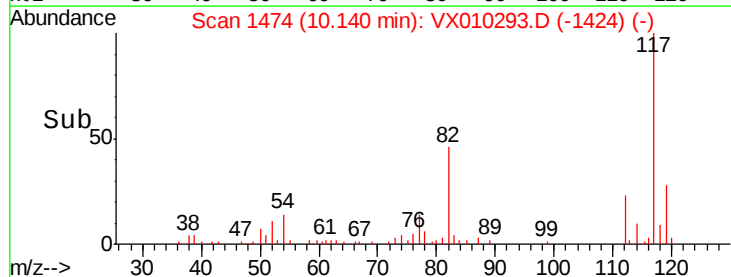
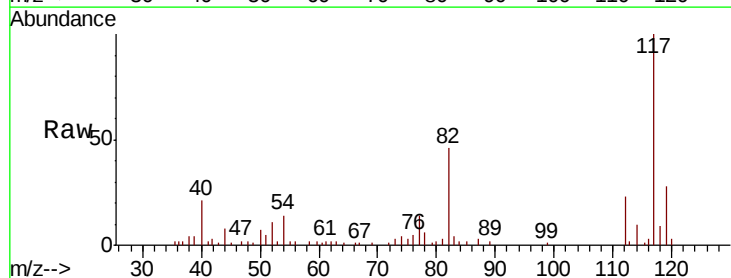
Instrument :
MSVOA_X
ClientSampleId :
LF001MW001-190610DL2

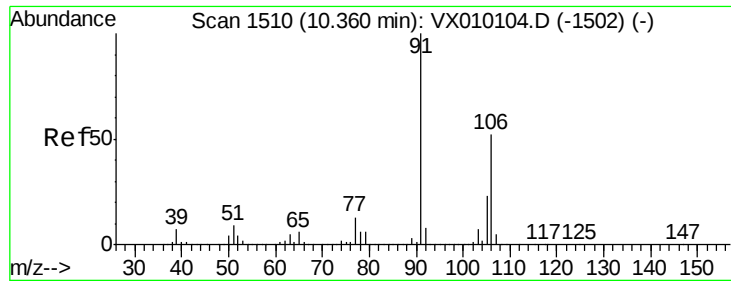
Tot Ion:117 Resp: 417323
Ion Ratio Lower Upper
117 100
82 50.8 49.2 73.8
119 32.0 25.2 37.8



#65
Chlorobenzene
Concen: 0.220 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

Tgt Ion:112 Resp: 1891
Ion Ratio Lower Upper
112 100
114 43.6 25.8 38.8#

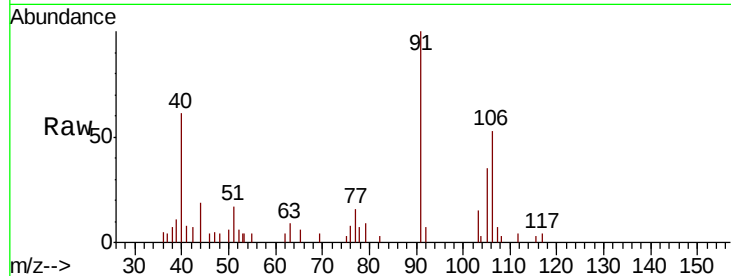




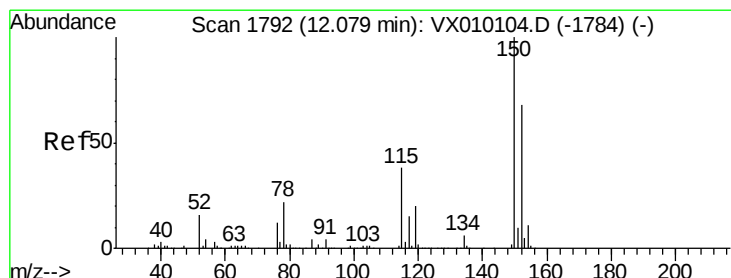
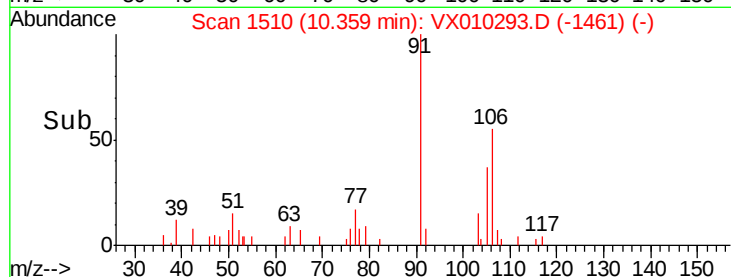
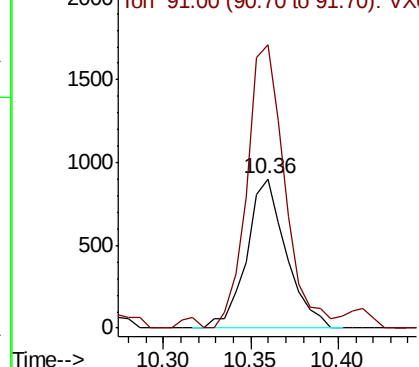
#68
m/p-Xvlenes
Concen: 0.251 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

Instrument :
MSVOA_X
ClientSampleId :
LF001MW001-190610DL2

Tot Ion:106 Resp: 1426
Ion Ratio Lower Upper
106 100
91 181.1 167.3 250.9

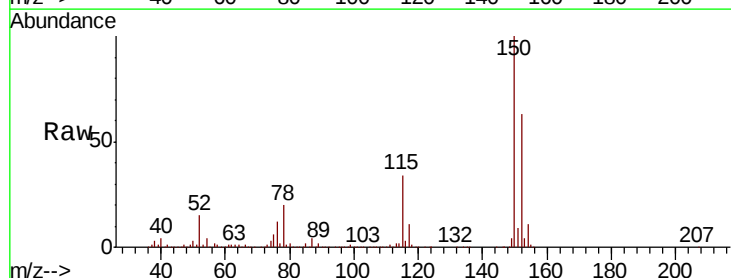


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

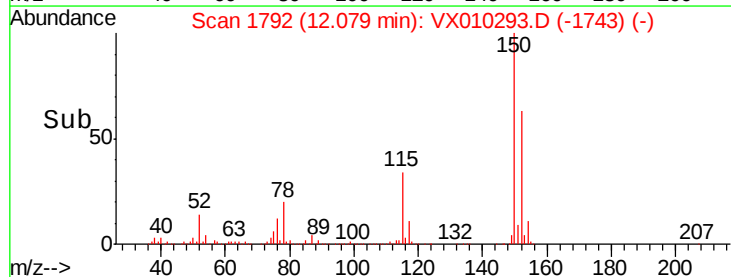
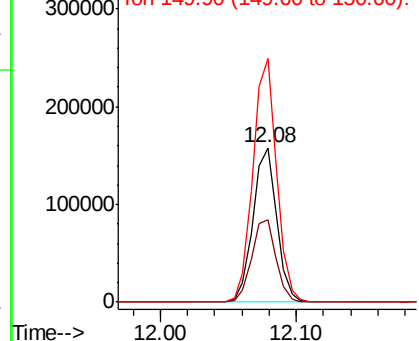


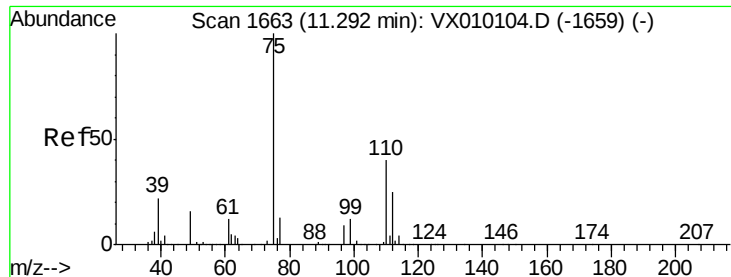
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010293.D
Acq: 14 Jun 2019 12:22

Tgt Ion:152 Resp: 193115
Ion Ratio Lower Upper
152 100
115 55.3 41.4 124.2
150 158.2 0.0 345.2



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: 21.888 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

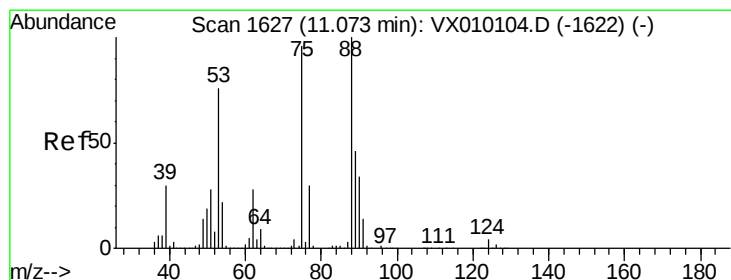
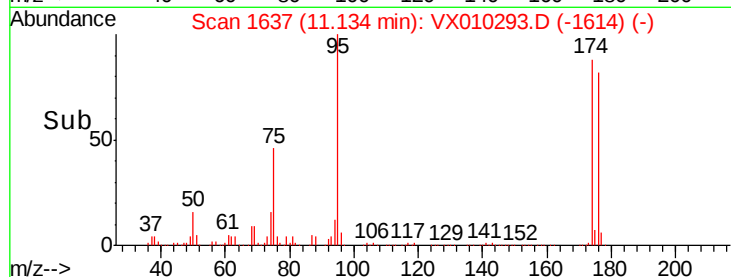
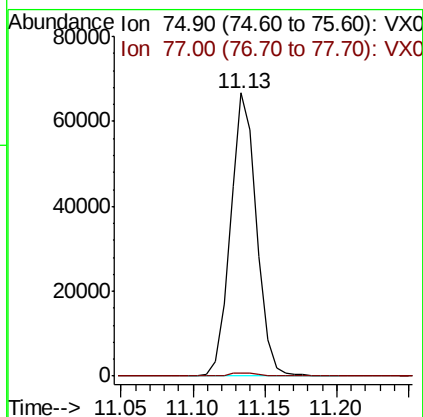
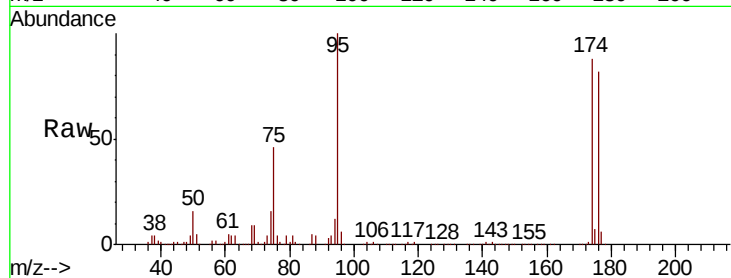
LF001MW001-190610DL2

Tot Ion: 75 Resp: 84545

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.359 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010293.D

Acq: 14 Jun 2019 12:22

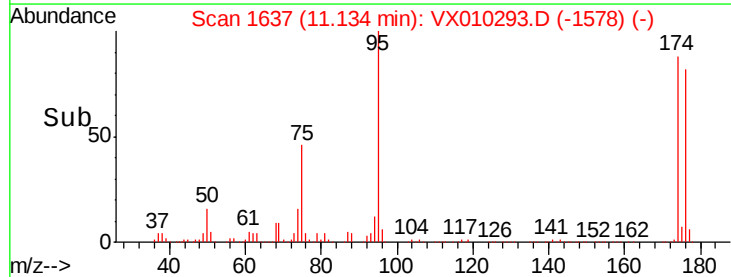
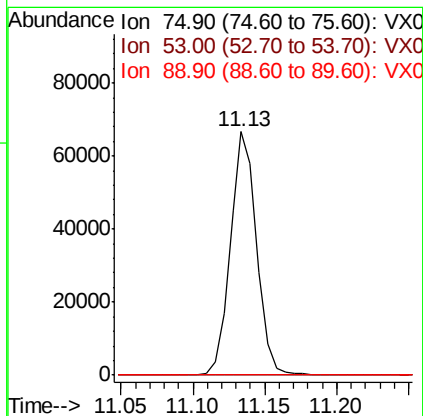
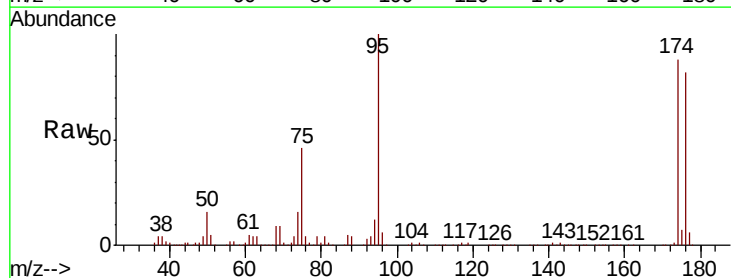
Tgt Ion: 75 Resp: 84545

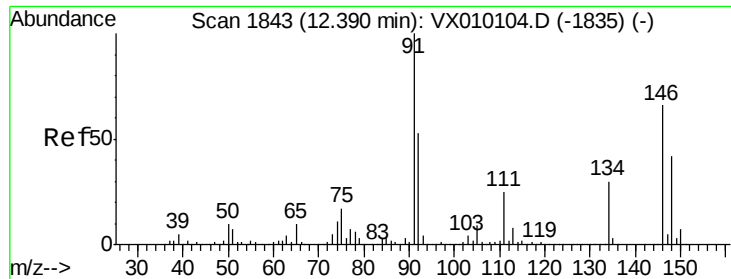
Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#

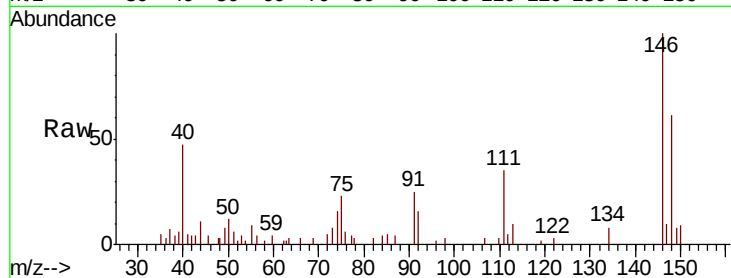




#91
 1,2-Dichlorobenzene
 Concen: 0.451 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX010293.D
 Acq: 14 Jun 2019 12:22

Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW001-190610DL2

Tot Ion:146 Resp: 2863
 Ion Ratio Lower Upper
 146 100
 111 39.3 21.1 63.1
 148 63.7 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

