

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014224.D
 Acq On : 24 Dec 2019 00:55
 Operator : JC/SP
 Sample : K6401-04 100X
 Misc : 4.58g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C0B38

Quant Time: Dec 24 03:48:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	566712	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	860898	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	774663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	357057	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	310001	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
35) Dibromofluoromethane	5.49	113	253866	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
50) Toluene-d8	8.71	98	1027602	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	11.13	95	357299	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	

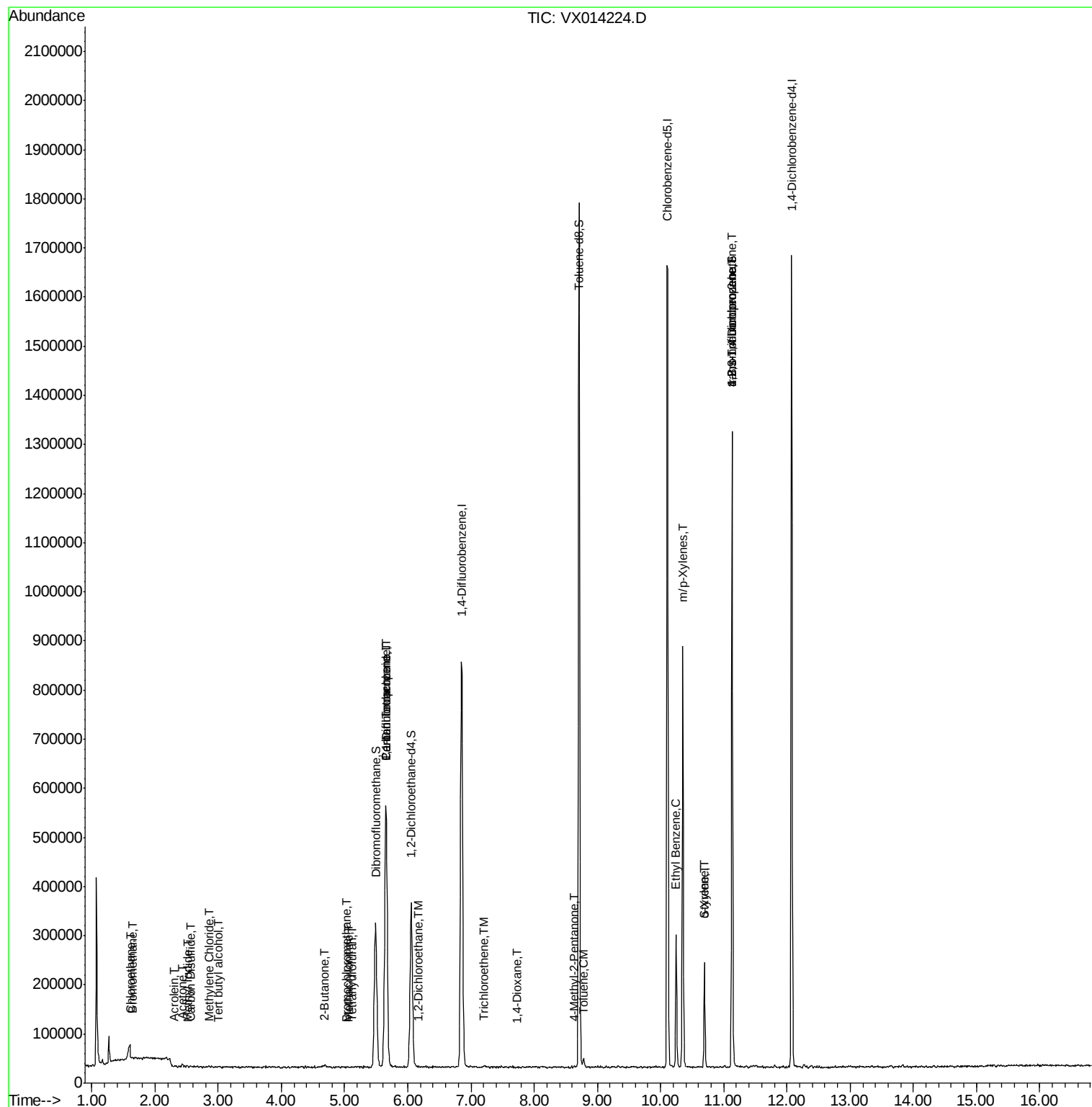
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1237	0.243	ug/l	96
6) Chloroethane	1.62	64	16297	3.678	ug/l #	53
10) Methyl Iodide	2.52	142	1405	2.809	ug/l #	69
11) Tert butyl alcohol	3.00	59	1924	1.386	ug/l #	93
13) Acrolein	2.29	56	409	0.515	ug/l	85
16) Acetone	2.43	43	8599	2.062	ug/l	94
17) Carbon Disulfide	2.56	76	1831	0.869	ug/l #	85
20) Methylene Chloride	2.85	84	1829	0.279	ug/l #	72
25) 2-Butanone	4.68	43	1931	0.376	ug/l	91
28) Bromochloromethane	5.02	49	573	0.591	ug/l #	94
29) Tetrahydrofuran	5.12	42	1026	0.357	ug/l #	84
36) 1,1-Dichloropropene	5.65	75	38288	4.847	ug/l #	51
38) Carbon Tetrachloride	5.66	117	50285	6.988	ug/l #	16
41) Methacrylonitrile	5.05	41	975	0.201	ug/l #	50
42) 1,2-Dichloroethane	6.17	62	2198	0.267	ug/l #	72
44) Trichloroethene	7.21	130	2706	0.403	ug/l	67
49) 1,4-Dioxane	7.73	88	241	1.675	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2495	0.275	ug/l #	70
52) Toluene	8.78	92	6421	0.418	ug/l	100
67) Ethyl Benzene	10.25	91	160362	5.663	ug/l	100
68) m/p-Xylenes	10.35	106	206188	18.931	ug/l	99
69) o-Xylene	10.70	106	49046	4.592	ug/l	97
70) Styrene	10.70	104	3697	0.205	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	172978	22.315	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	172978	62.985	ug/l #	12

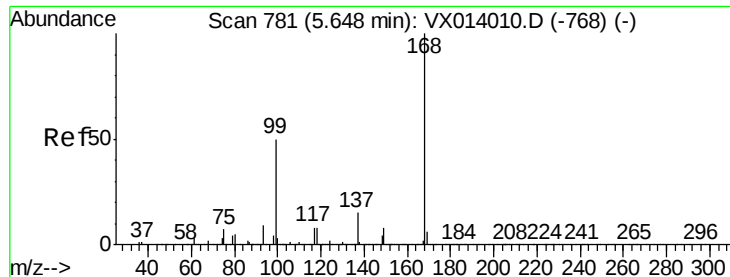
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
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Quant Time: Dec 24 03:48:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

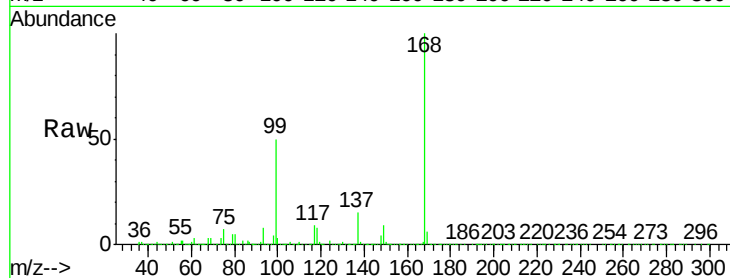
C0B38

Tgt Ion: 168 Resp: 566712

Ion Ratio Lower Upper

168 100

99 50.2 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

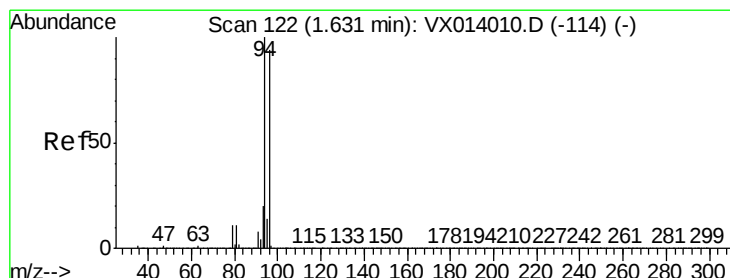
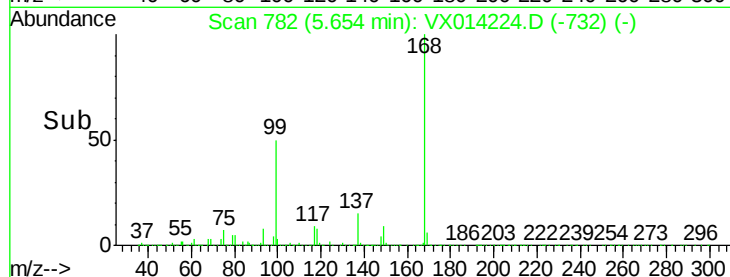
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.243 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014224.D

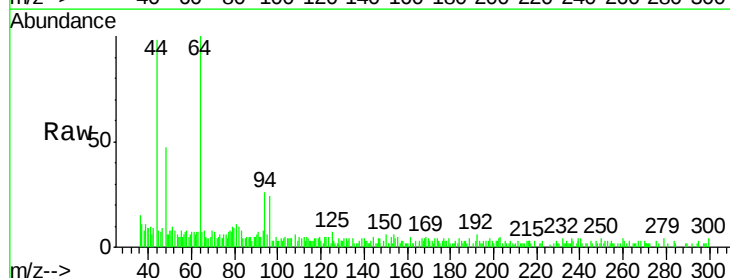
Acq: 24 Dec 2019 00:55

Tgt Ion: 94 Resp: 1237

Ion Ratio Lower Upper

94 100

96 89.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

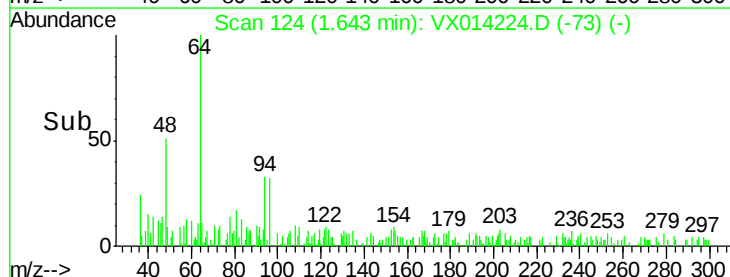
600

400

200

0

Time-->





#6

Chloroethane

Concen: 3.678 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.08 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampled :

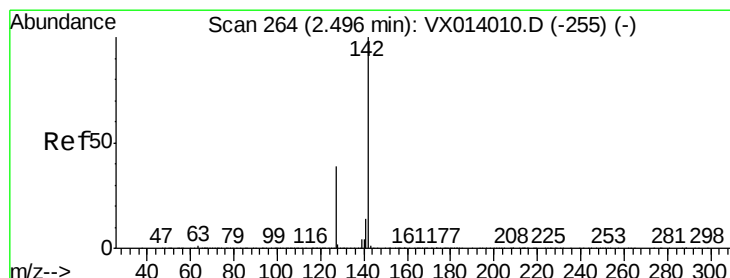
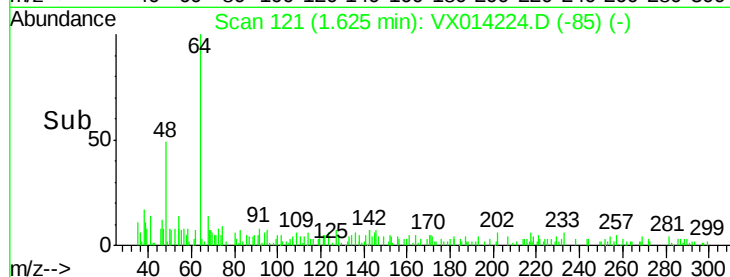
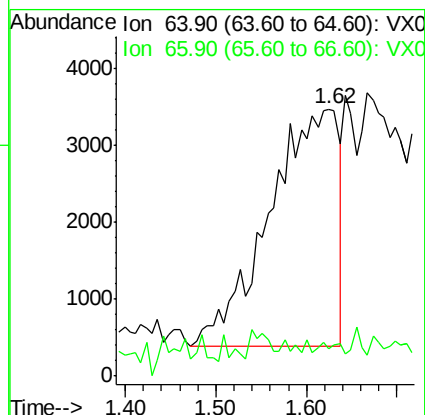
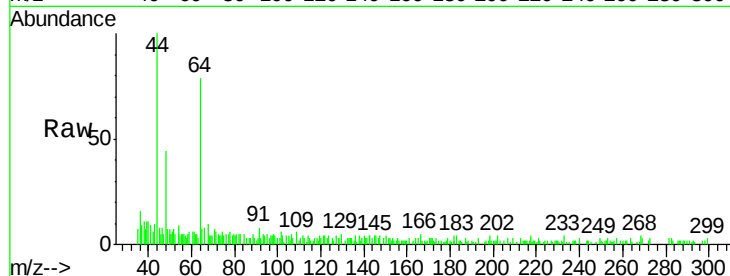
C0B38

Tgt Ion: 64 Resp: 16297

Ion Ratio Lower Upper

64 100

66 4.0 23.4 35.2#



#10

Methyl Iodide

Concen: 2.809 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.02 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

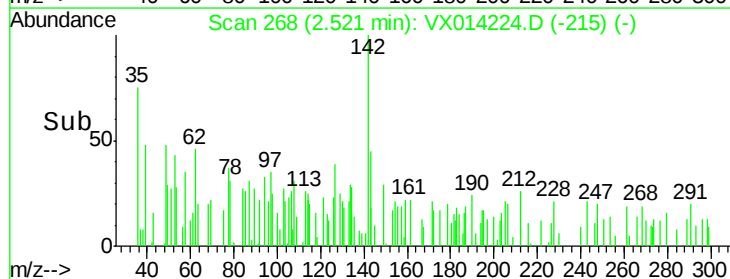
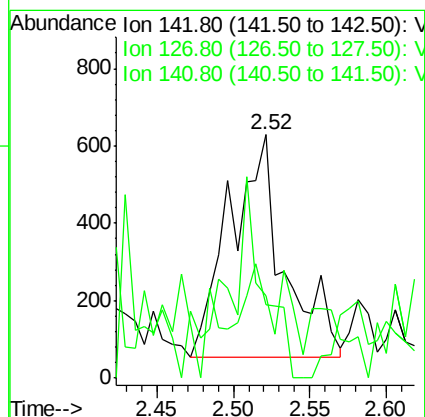
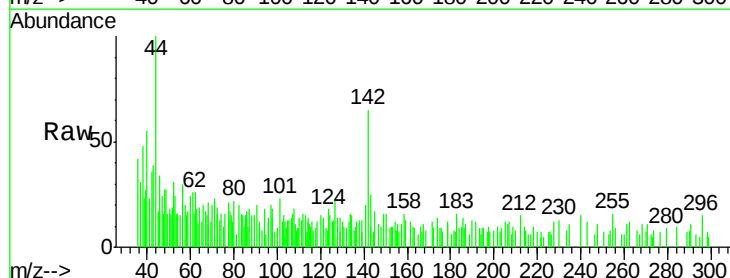
Tgt Ion: 142 Resp: 1405

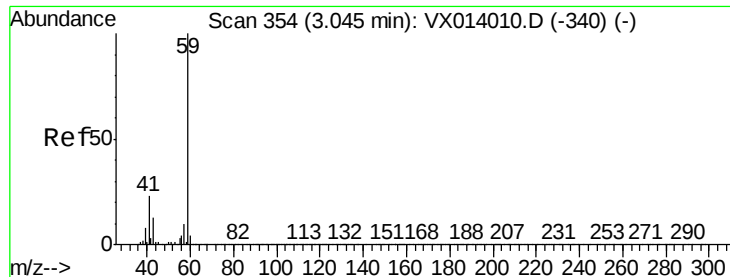
Ion Ratio Lower Upper

142 100

127 55.9 31.6 47.4#

141 31.5 11.6 17.4#



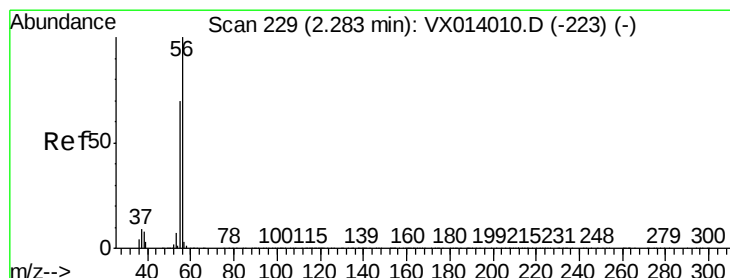
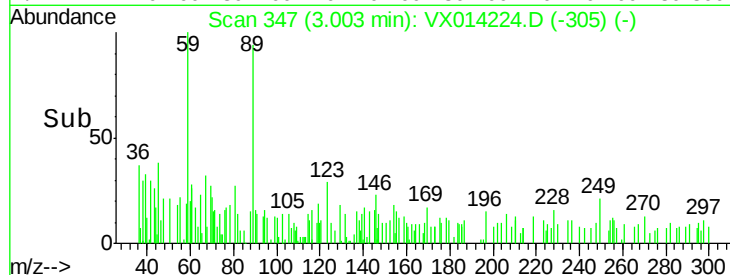
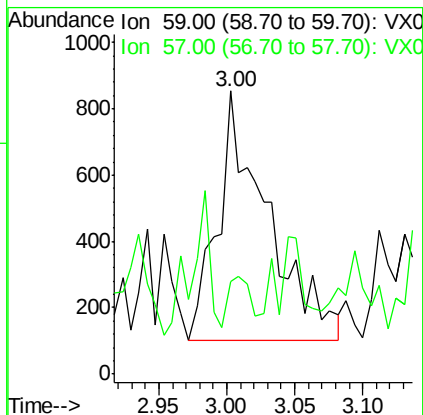
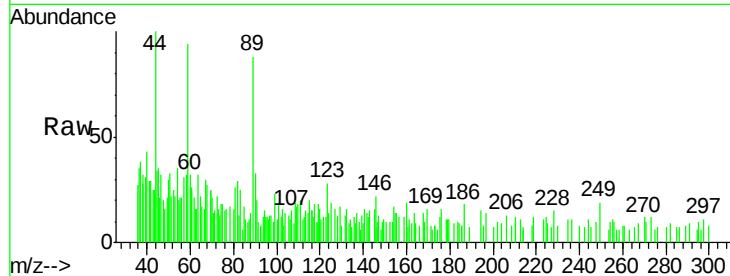


#11

Tert butyl alcohol
 Concen: 1.386 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX014224.D
 Acq: 24 Dec 2019 00:55

Instrument :
 MSVOA_X
 ClientSampled :
 C0B38

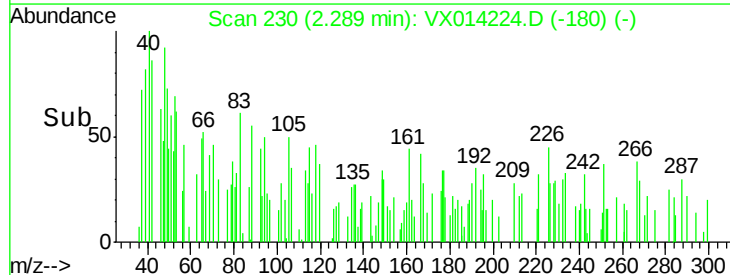
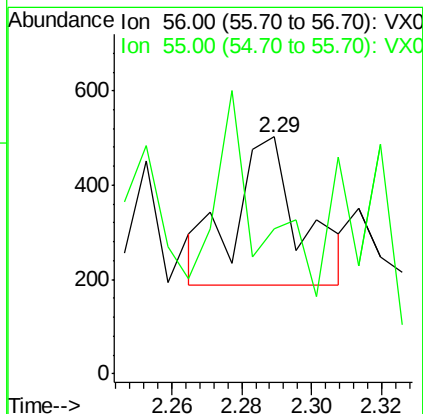
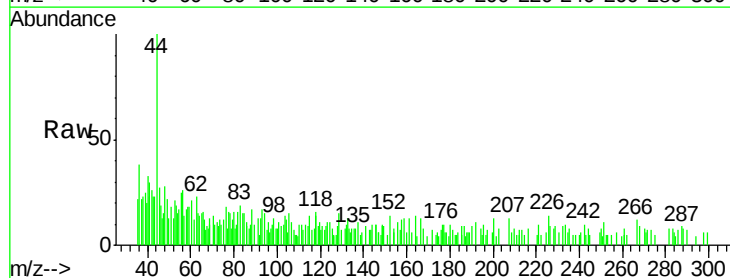
Tgt Ion: 59 Resp: 1924
 Ion Ratio Lower Upper
 59 100
 57 13.1 8.4 12.6#

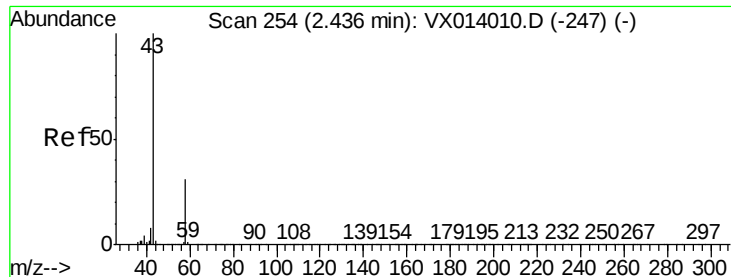


#13

Acrolein
 Concen: 0.515 ug/l
 RT: 2.29 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VX014224.D
 Acq: 24 Dec 2019 00:55

Tgt Ion: 56 Resp: 409
 Ion Ratio Lower Upper
 56 100
 55 58.7 56.9 85.3





#16

Acetone

Concen: 2.062 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

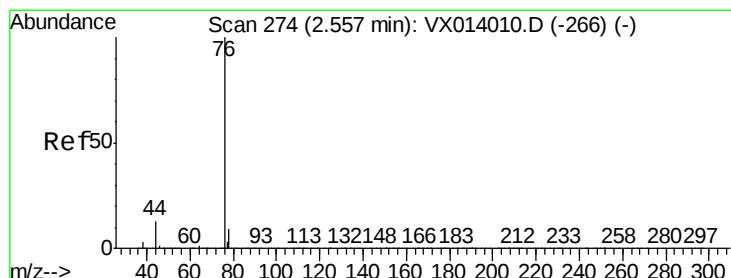
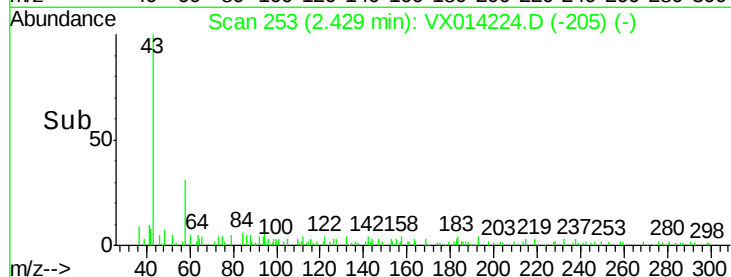
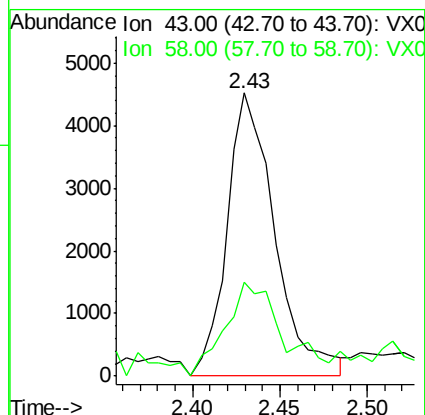
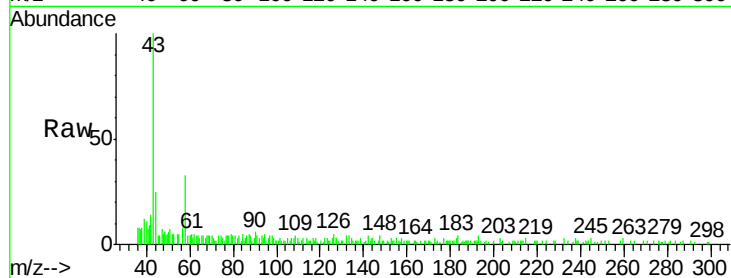
C0B38

Tgt Ion: 43 Resp: 8599

Ion Ratio Lower Upper

43 100

58 28.0 24.9 37.3



#17

Carbon Disulfide

Concen: 0.869 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014224.D

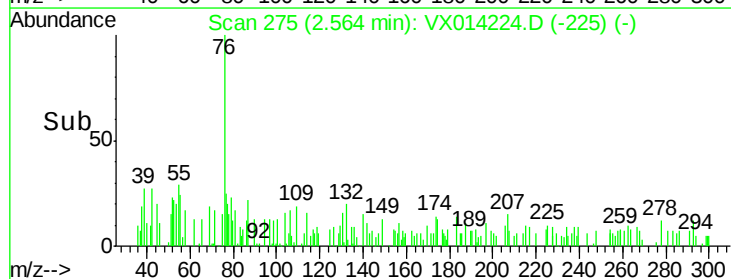
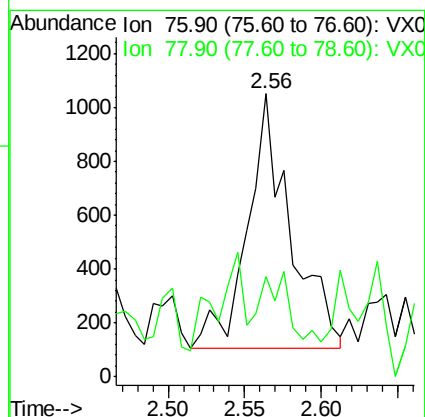
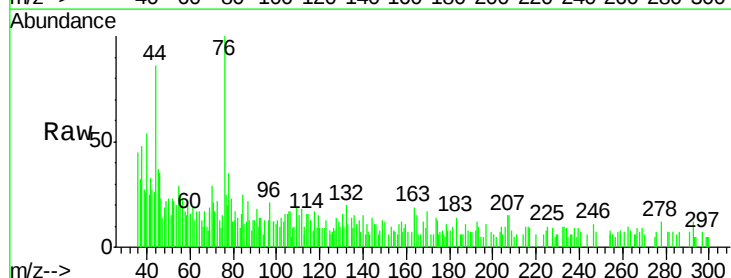
Acq: 24 Dec 2019 00:55

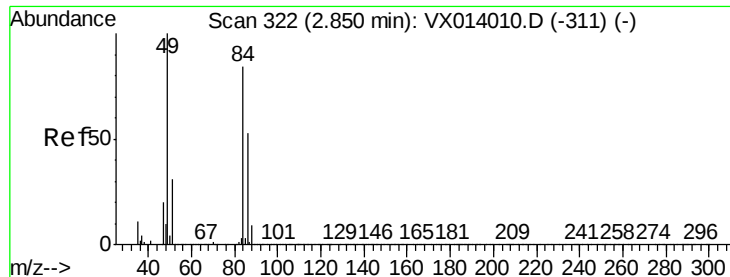
Tgt Ion: 76 Resp: 1831

Ion Ratio Lower Upper

76 100

78 3.6 7.2 10.8#





#20

Methylene Chloride

Concen: 0.279 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

C0B38

Tgt Ion: 84 Resp: 1829

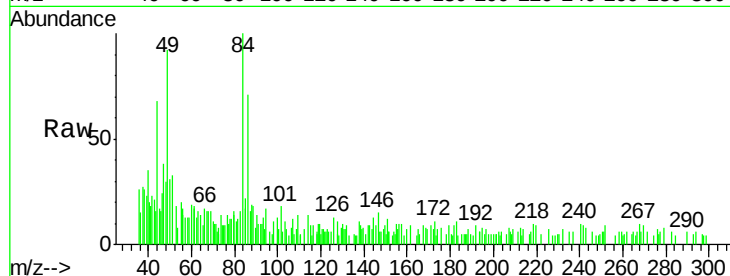
Ion Ratio Lower Upper

84 100

49 82.3 95.8 143.6#

51 9.6 29.8 44.8#

86 67.4 50.8 76.2

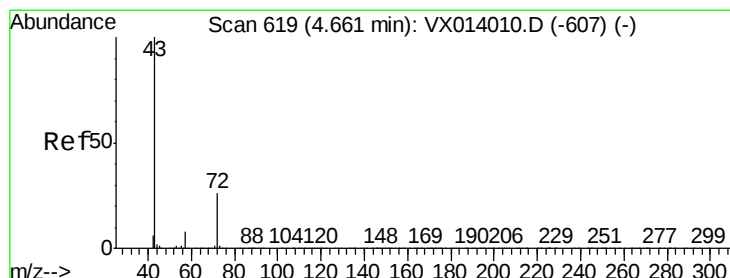
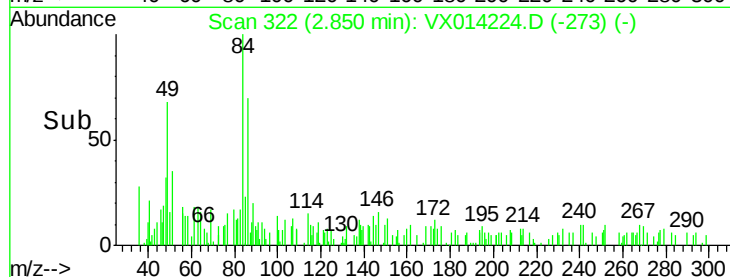
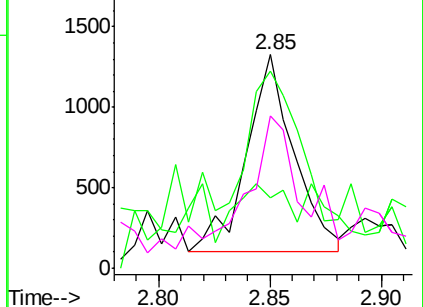


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.376 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014224.D

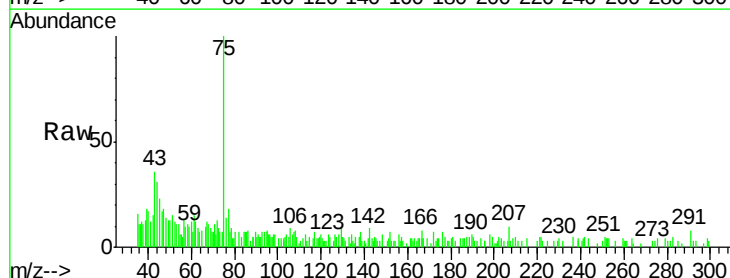
Acq: 24 Dec 2019 00:55

Tgt Ion: 43 Resp: 1931

Ion Ratio Lower Upper

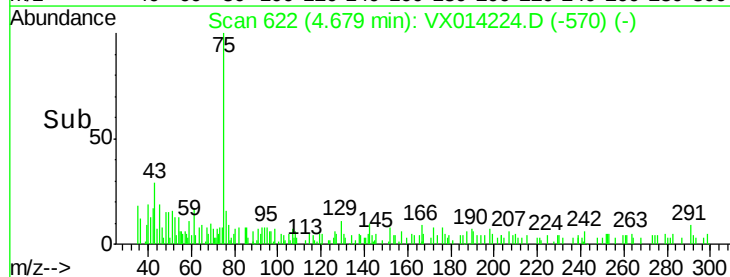
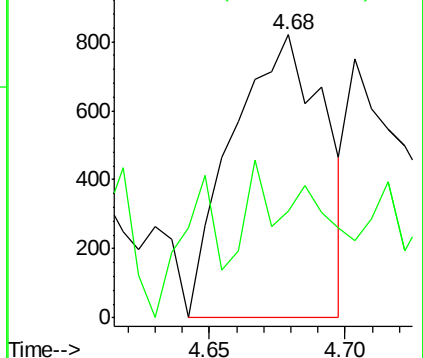
43 100

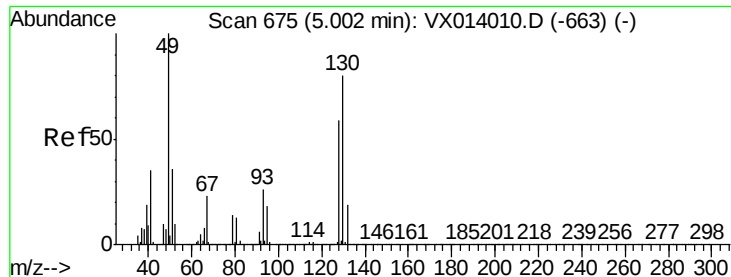
72 30.6 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 0.591 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampled :

C0B38

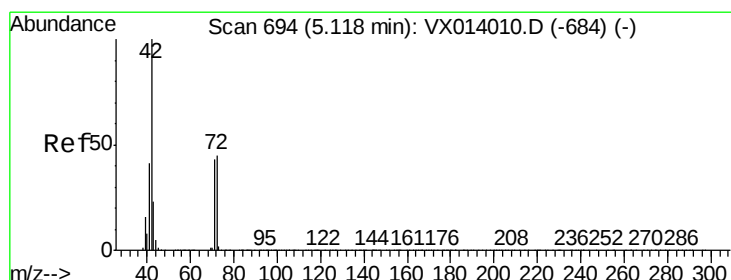
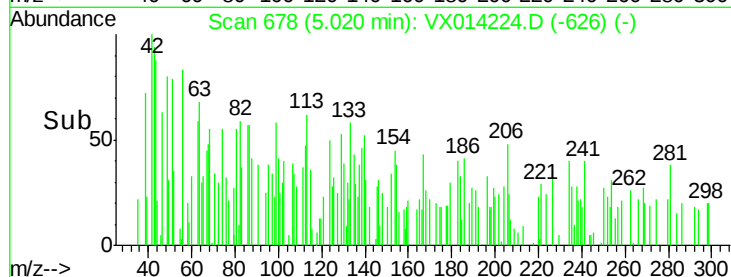
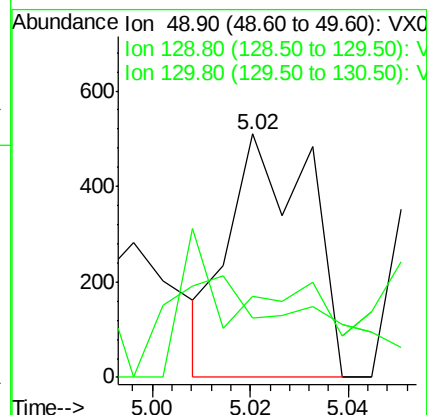
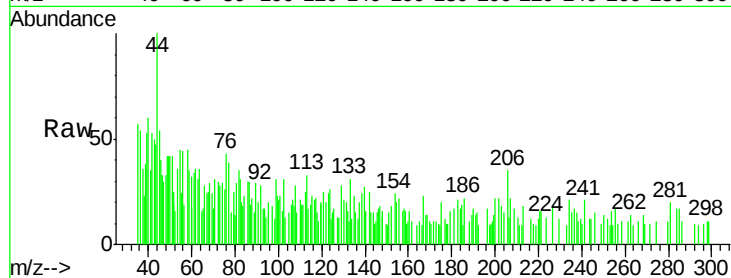
Tgt Ion: 49 Resp: 573

Ion Ratio Lower Upper

49 100

129 47.3 0.0 5.0#

130 78.5 64.6 97.0



#29

Tetrahydrofuran

Concen: 0.357 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

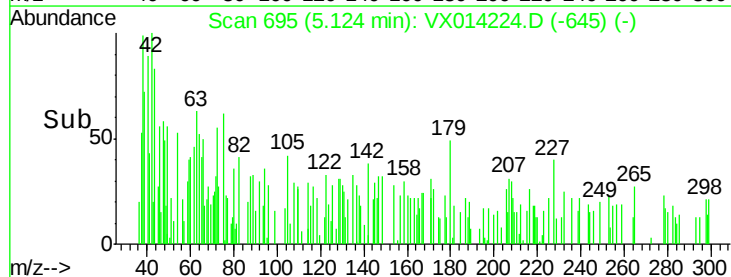
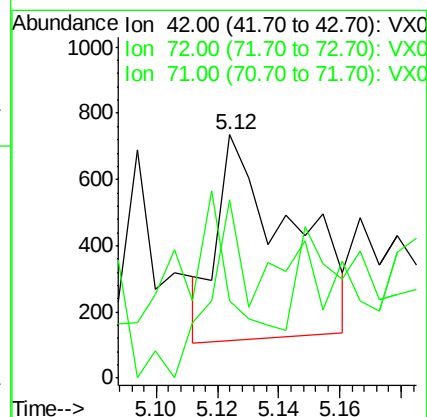
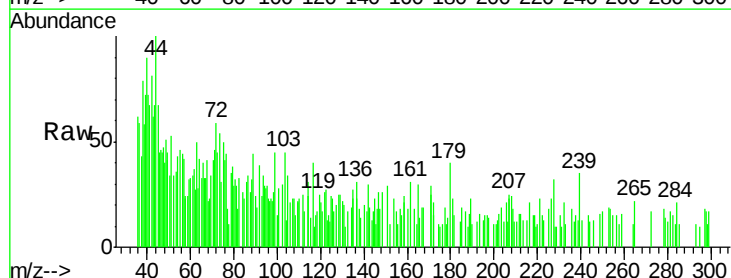
Tgt Ion: 42 Resp: 1026

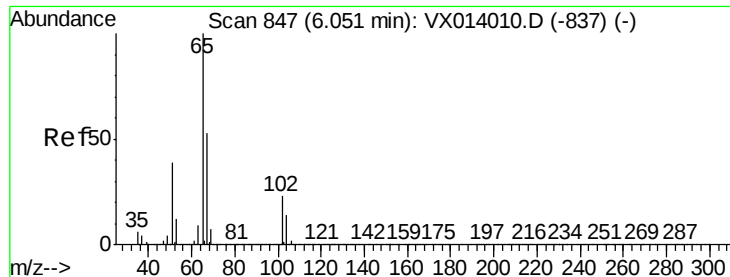
Ion Ratio Lower Upper

42 100

72 41.0 35.8 53.8

71 59.1 33.6 50.4#





#33

1,2-Dichloroethane-d4

Concen: 48.265 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

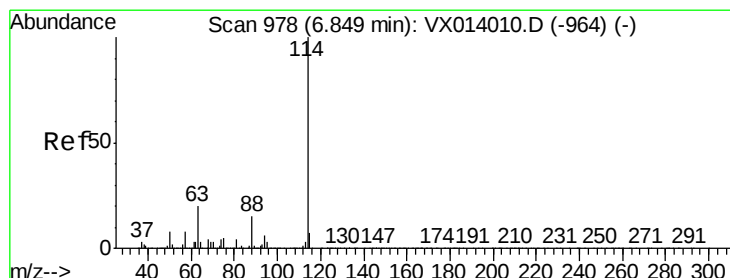
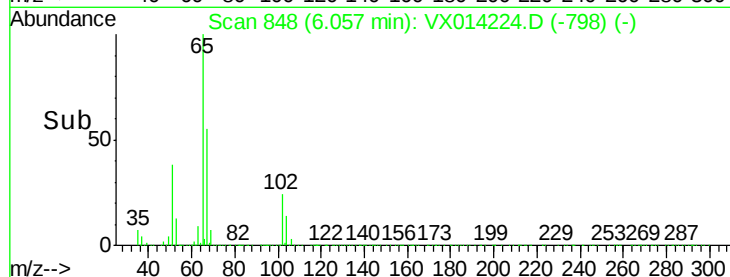
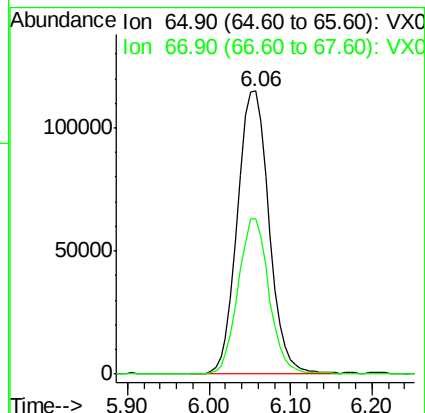
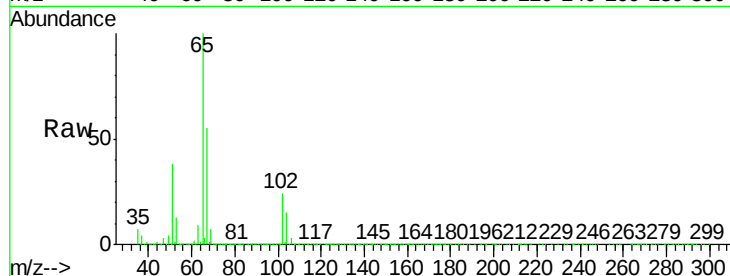
C0B38

Tgt Ion: 65 Resp: 310001

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

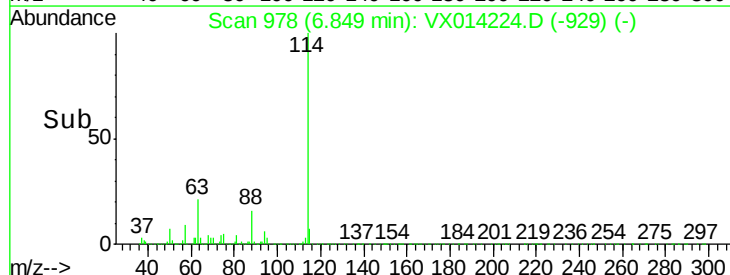
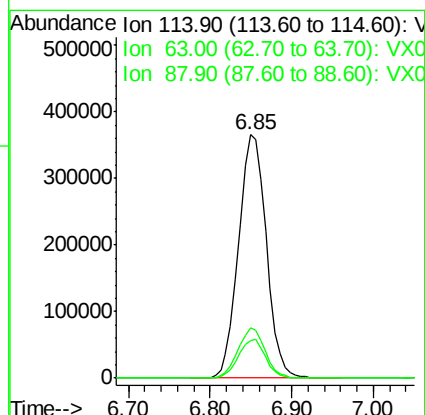
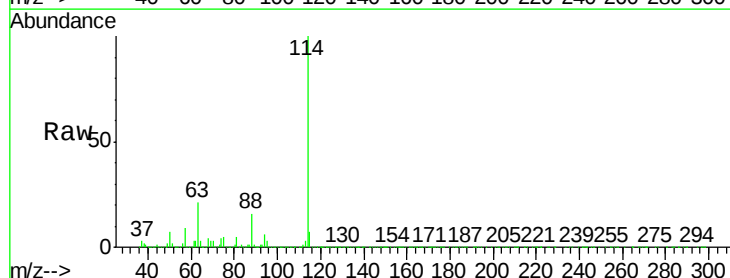
Tgt Ion: 114 Resp: 860898

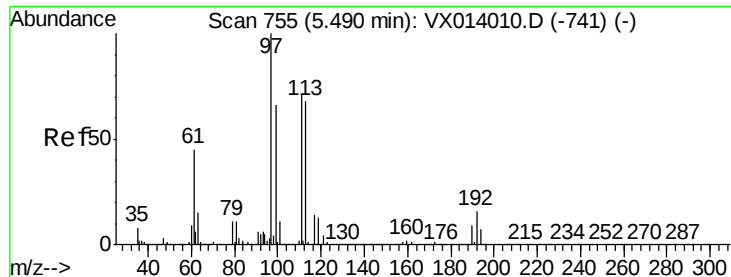
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 15.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.510 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

C0B38

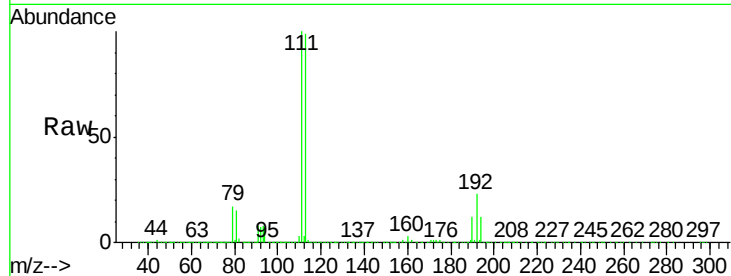
Tgt Ion:113 Resp: 253866

Ion Ratio Lower Upper

113 100

111 101.7 82.0 123.0

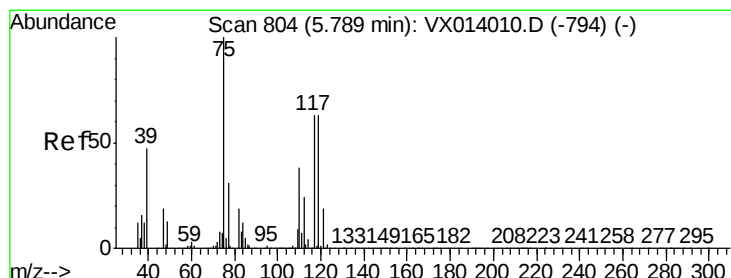
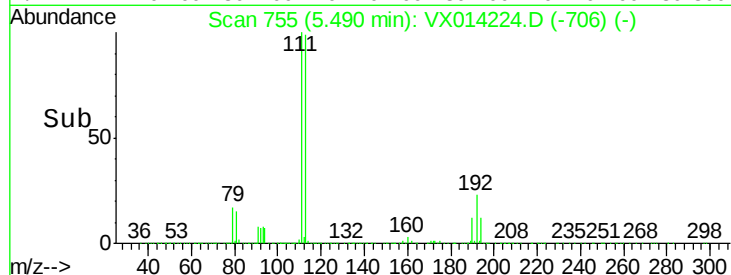
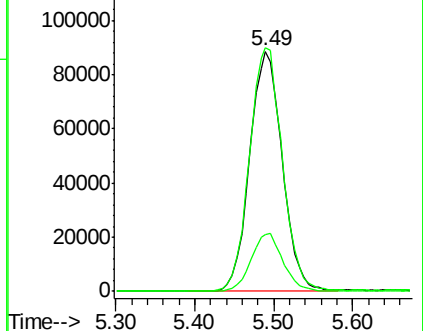
192 23.8 19.3 28.9



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: 4.847 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

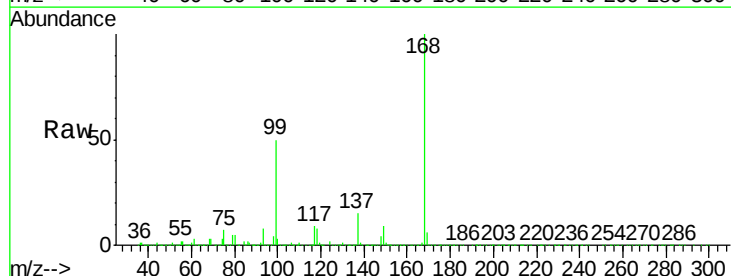
Tgt Ion: 75 Resp: 38288

Ion Ratio Lower Upper

75 100

110 10.6 18.3 54.9#

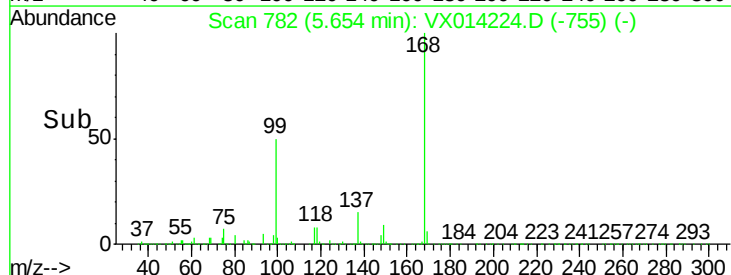
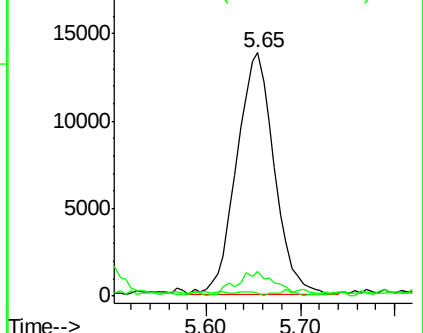
77 0.9 24.8 37.2#

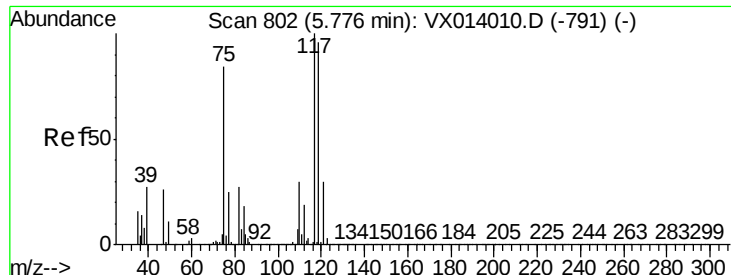


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.988 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.12 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

C0B38

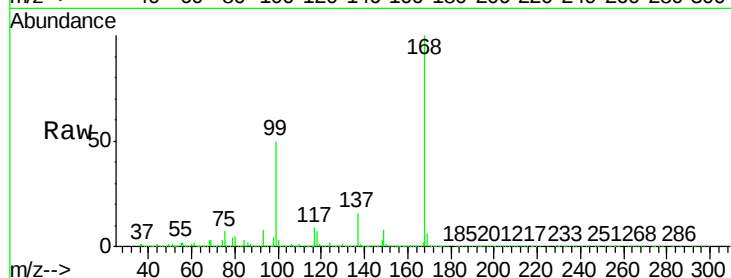
Tgt Ion: 117 Resp: 50285

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.4#

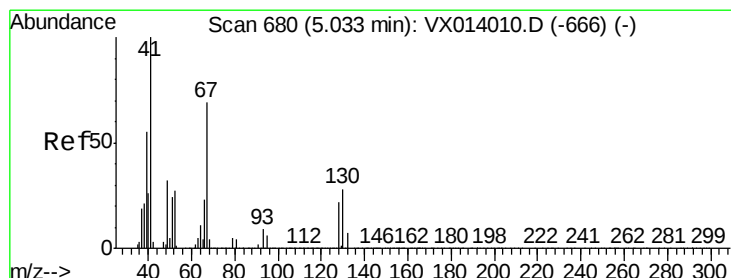
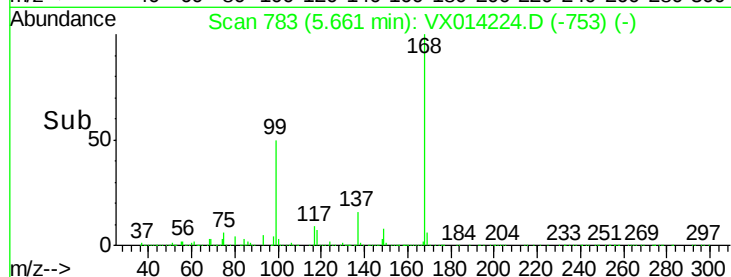
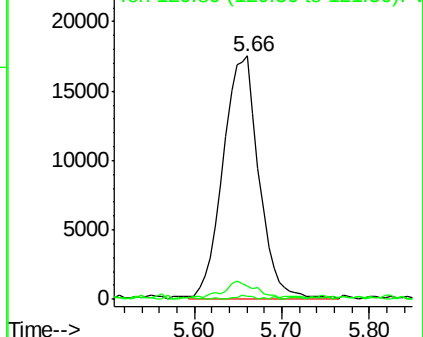
121 0.9 23.6 35.4#



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



#41

Methacrylonitrile

Concen: 0.201 ug/l

RT: 5.05 min Scan# 683

Delta R.T. 0.02 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Tgt Ion: 41 Resp: 975

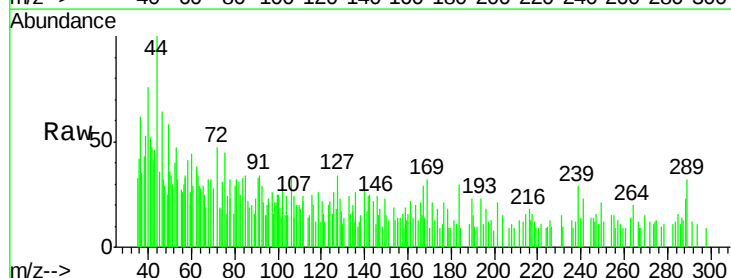
Ion Ratio Lower Upper

41 100

39 63.0 44.5 66.7

67 0.0 57.4 86.0#

52 49.0 23.0 34.4#

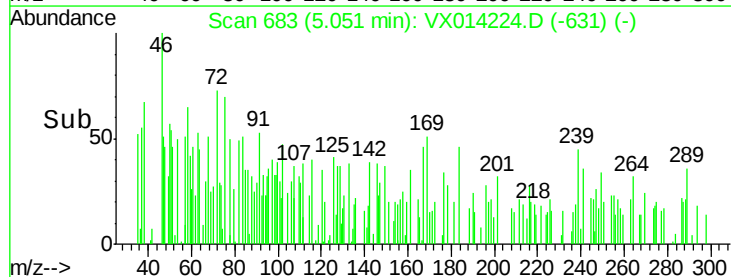
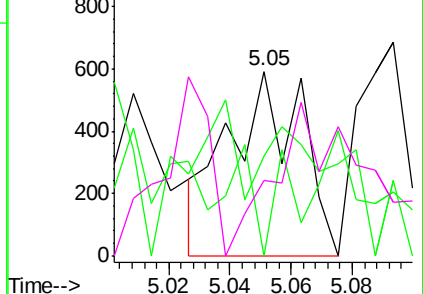


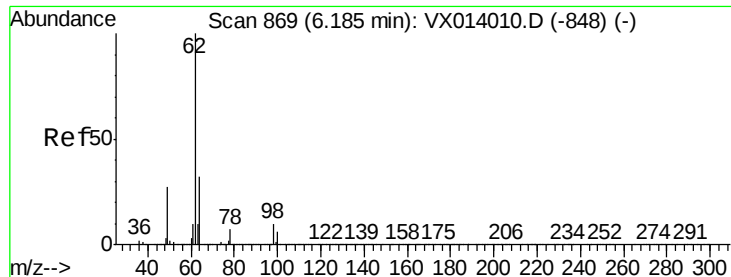
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#42

1,2-Dichloroethane

Concen: 0.267 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

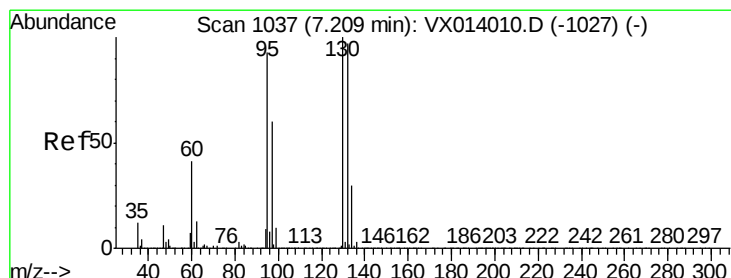
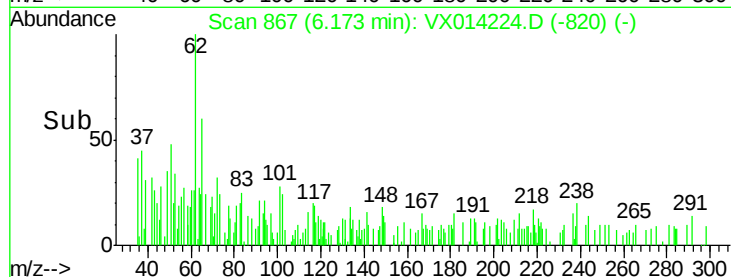
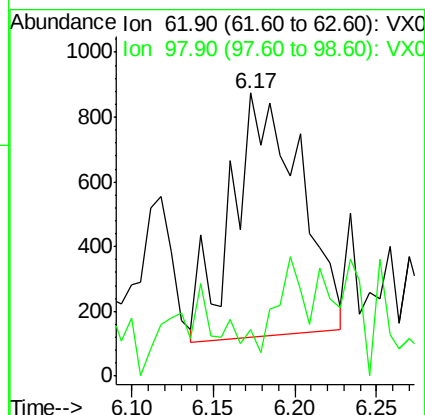
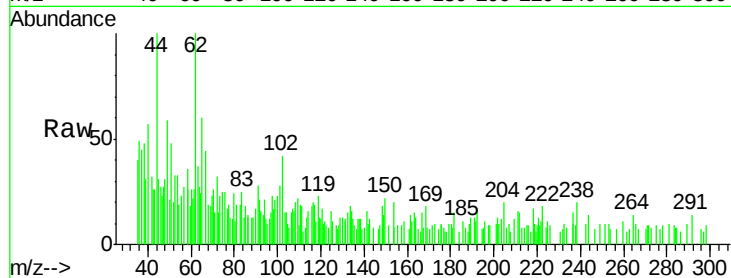
C0B38

Tgt Ion: 62 Resp: 2198

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.0



#44

Trichloroethene

Concen: 0.403 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014224.D

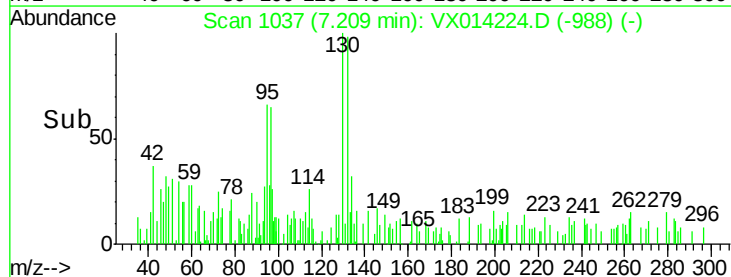
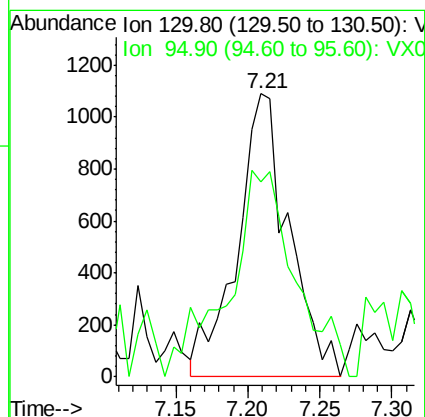
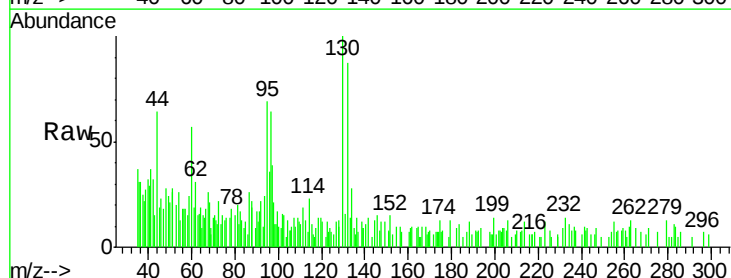
Acq: 24 Dec 2019 00:55

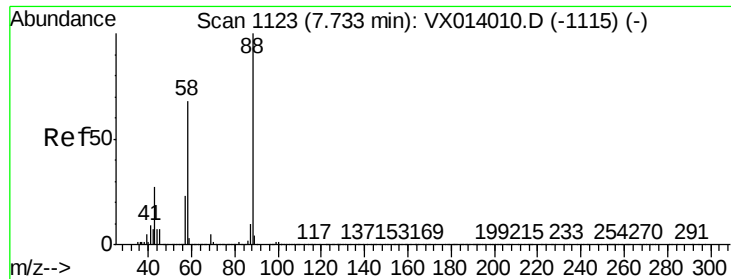
Tgt Ion: 130 Resp: 2706

Ion Ratio Lower Upper

130 100

95 61.5 0.0 185.6





#49

1,4-Dioxane

Concen: 1.675 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampled :

C0B38

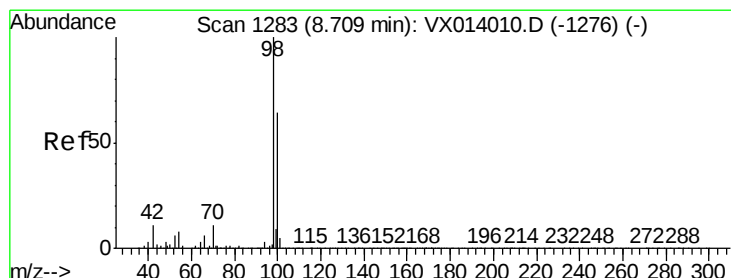
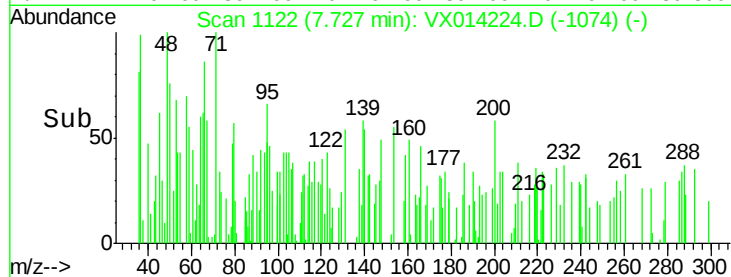
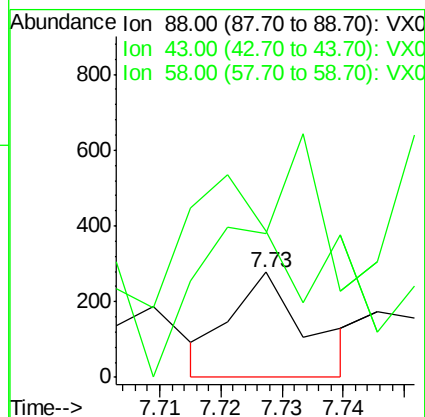
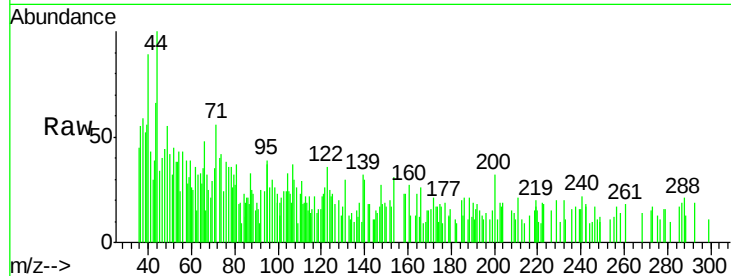
Tgt Ion: 88 Resp: 241

Ion Ratio Lower Upper

88 100

43 288.4 26.5 39.7#

58 181.3 56.8 85.2#



#50

Toluene-d8

Concen: 50.436 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014224.D

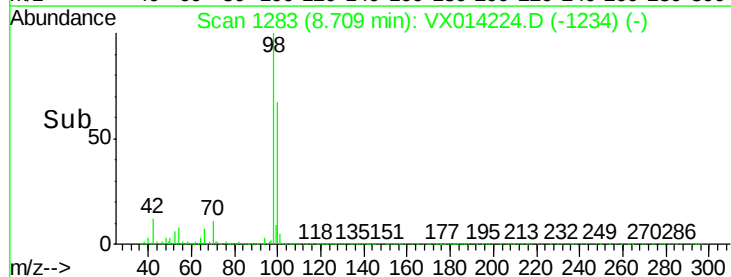
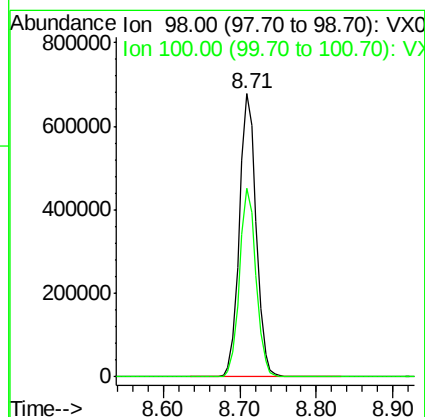
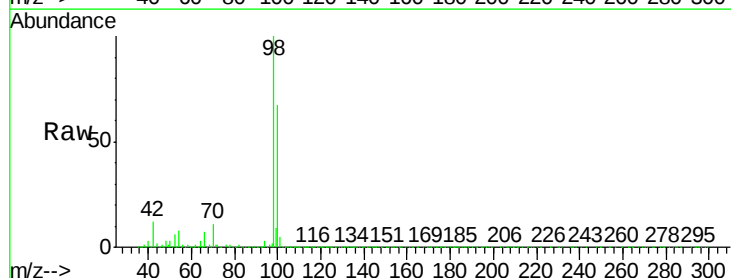
Acq: 24 Dec 2019 00:55

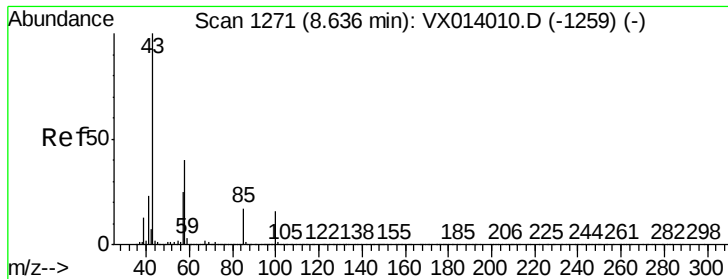
Tgt Ion: 98 Resp: 1027602

Ion Ratio Lower Upper

98 100

100 65.4 52.9 79.3

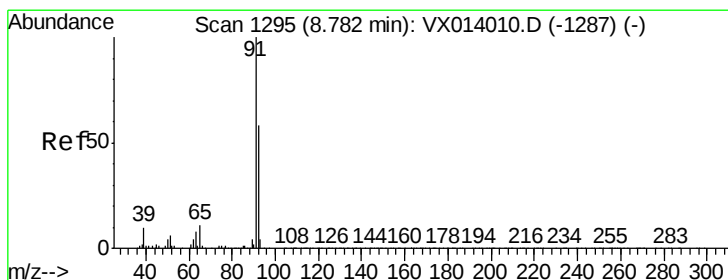
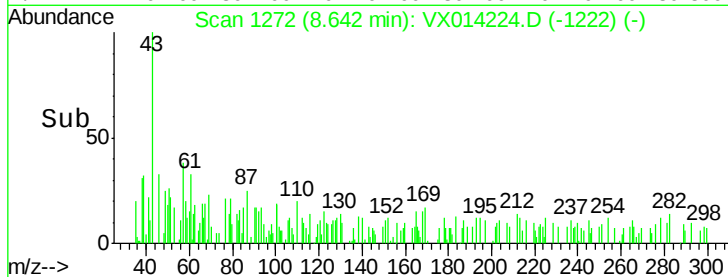
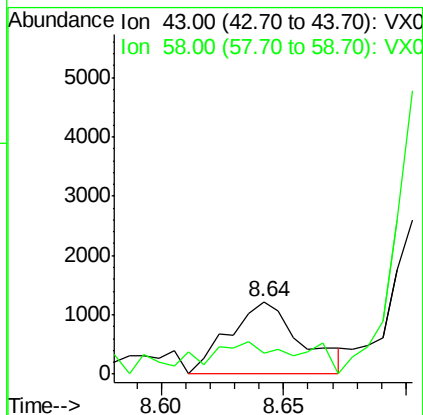
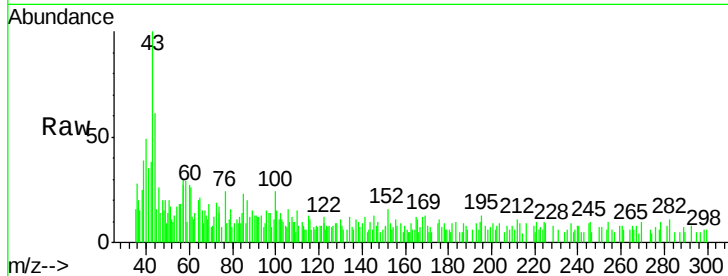




#51
4-Methyl-2-Pentanone
Concen: 0.275 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

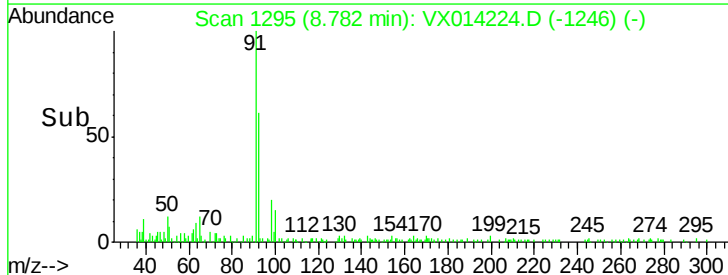
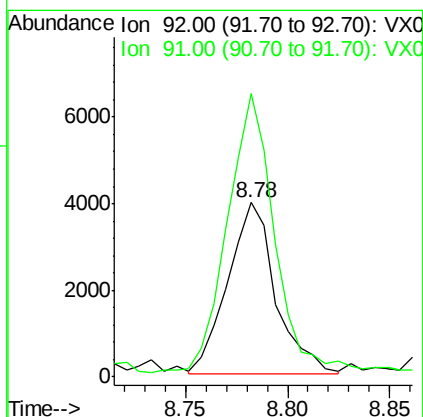
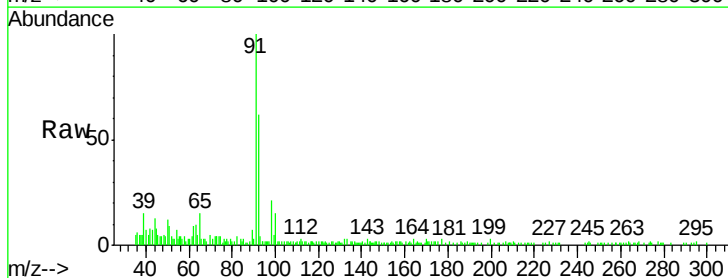
Instrument :
MSVOA_X
ClientSampled :
C0B38

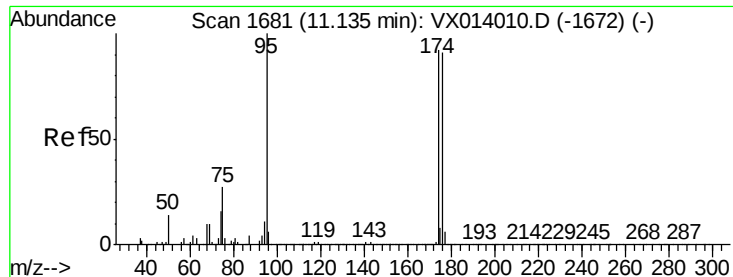
Tgt Ion: 43 Resp: 2495
Ion Ratio Lower Upper
43 100
58 58.6 32.2 48.2#



#52
Toluene
Concen: 0.418 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

Tgt Ion: 92 Resp: 6421
Ion Ratio Lower Upper
92 100
91 170.1 136.2 204.4

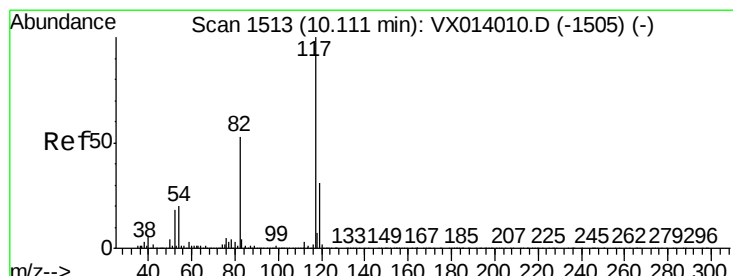
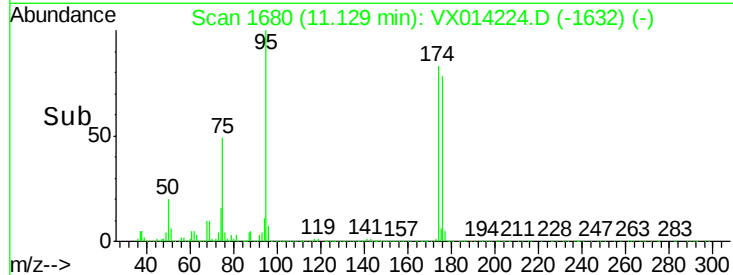
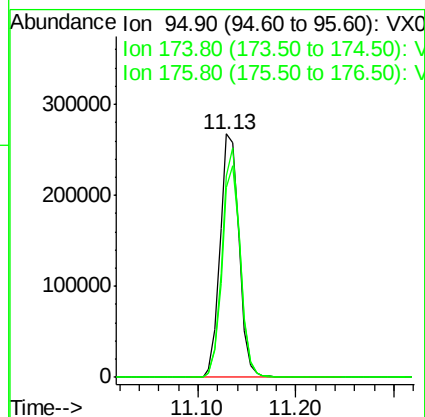
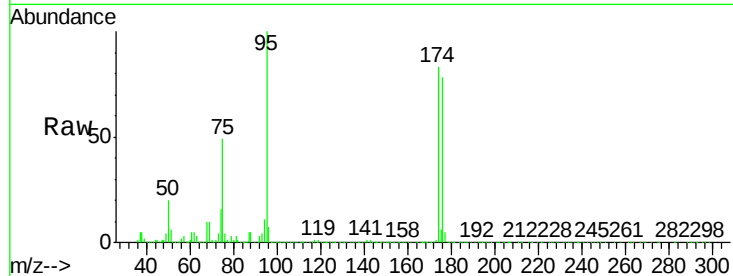




#62
4-Bromofluorobenzene
Concen: 47.974 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

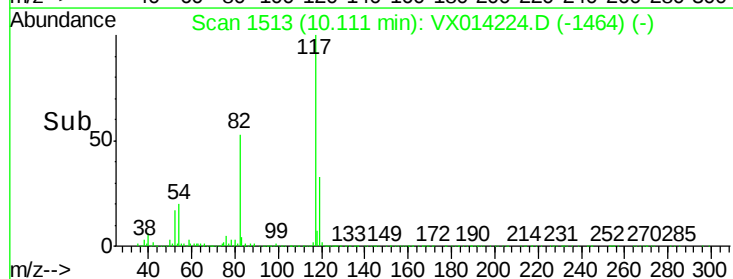
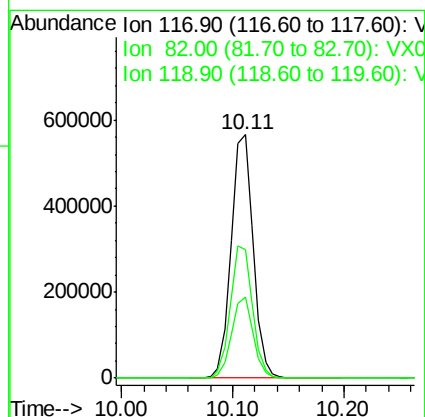
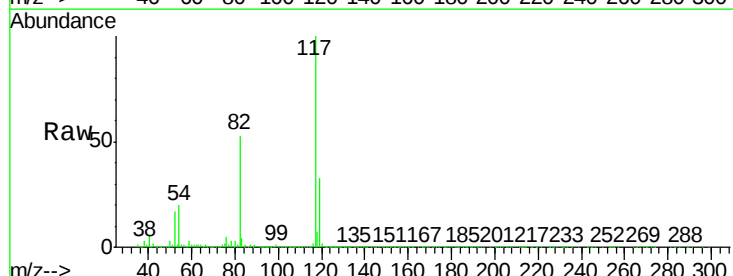
Instrument :
MSVOA_X
ClientSampleId :
C0B38

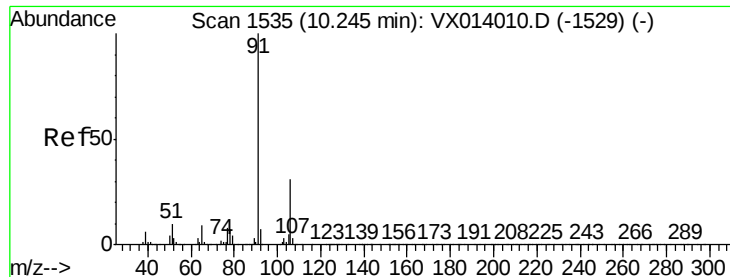
Tgt Ion: 95 Resp: 357299
Ion Ratio Lower Upper
95 100
174 89.4 0.0 175.8
176 84.8 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

Tgt Ion: 117 Resp: 774663
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 33.3 25.1 37.7





#67

Ethyl Benzene

Concen: 5.663 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

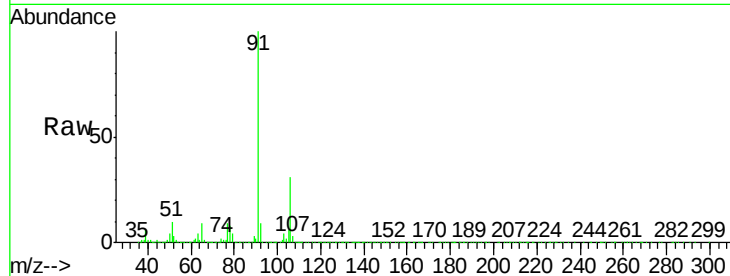
C0B38

Tgt Ion: 91 Resp: 160362

Ion Ratio Lower Upper

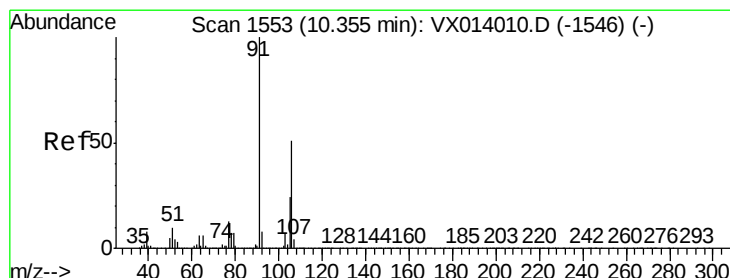
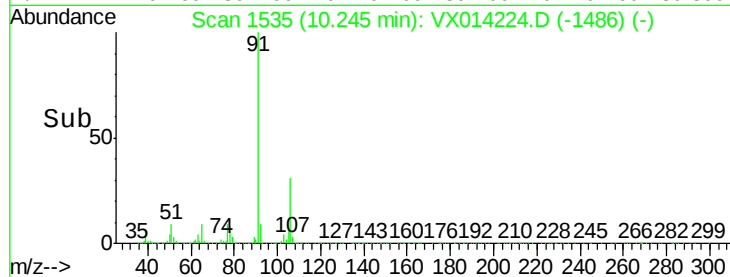
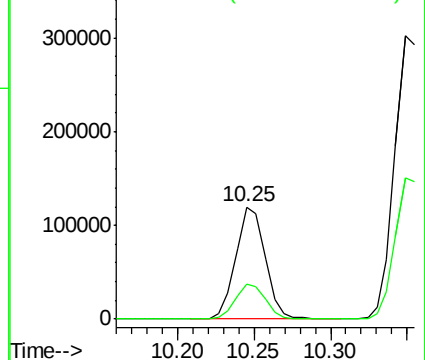
91 100

106 31.2 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 18.931 ug/l

RT: 10.35 min Scan# 1552

Delta R.T. -0.01 min

Lab File: VX014224.D

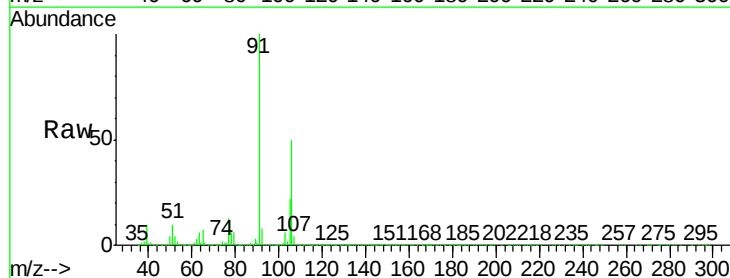
Acq: 24 Dec 2019 00:55

Tgt Ion: 106 Resp: 206188

Ion Ratio Lower Upper

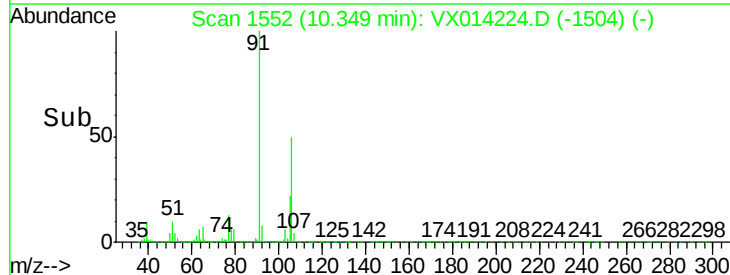
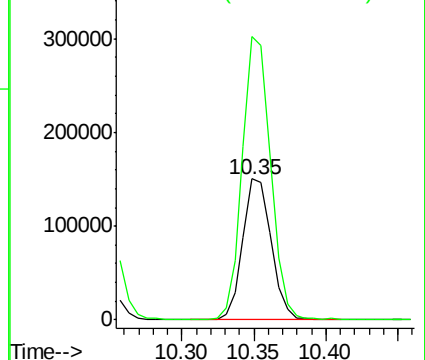
106 100

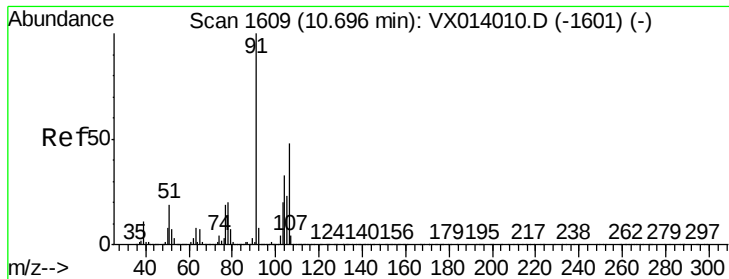
91 200.5 158.6 238.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

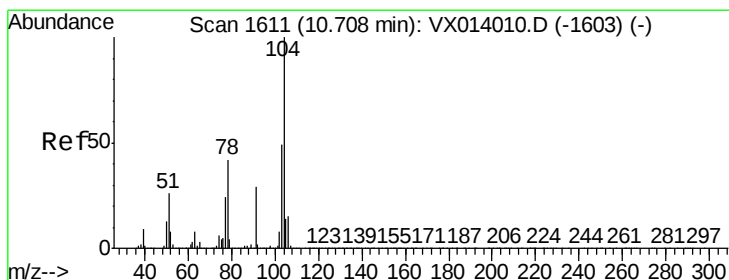
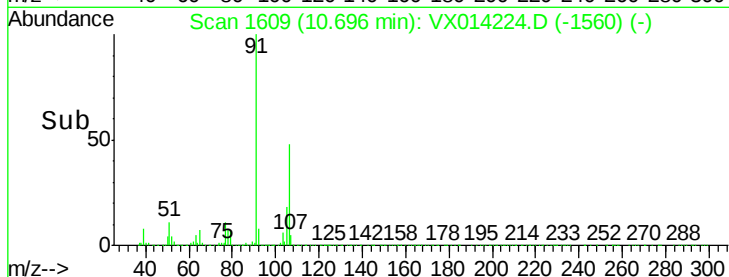
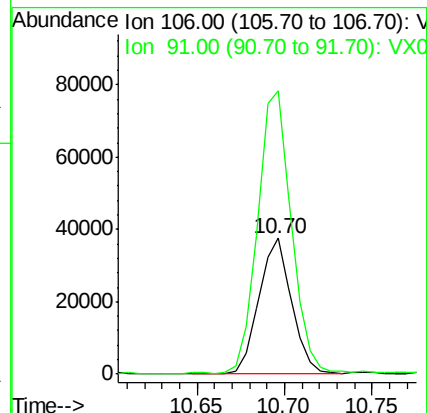
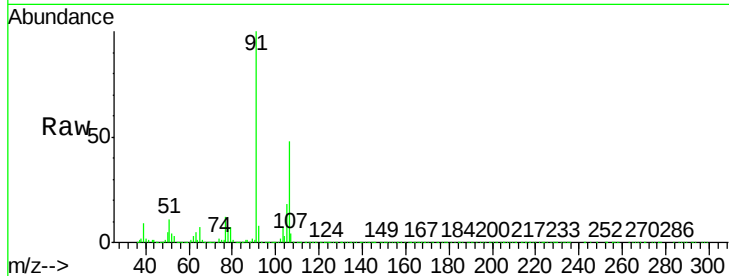




#69
o-Xylene
Concen: 4.592 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

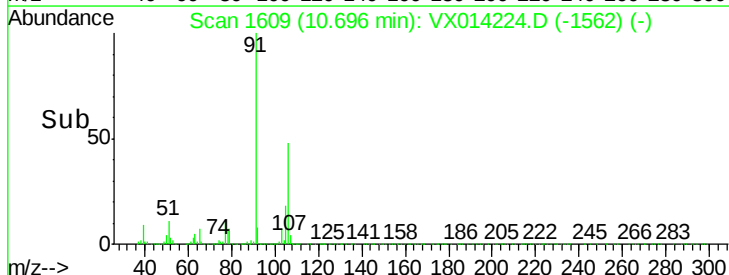
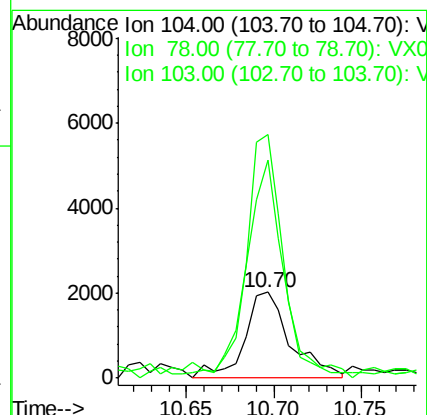
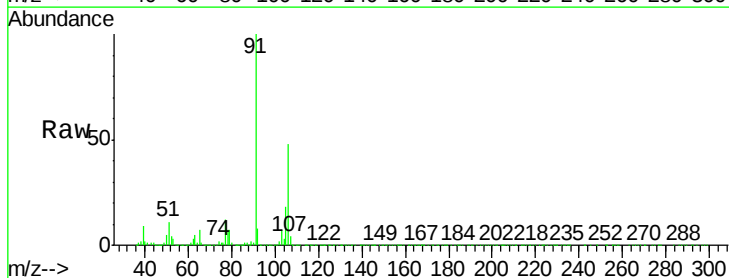
Instrument :
MSVOA_X
ClientSampleId :
C0B38

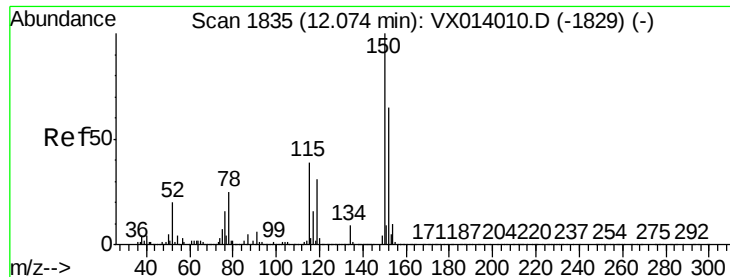
Tgt Ion:106 Resp: 49046
Ion Ratio Lower Upper
106 100
91 213.3 104.2 312.6



#70
Styrene
Concen: 0.205 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.01 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

Tgt Ion:104 Resp: 3697
Ion Ratio Lower Upper
104 100
78 226.6 38.5 57.7#
103 199.8 42.9 64.3#



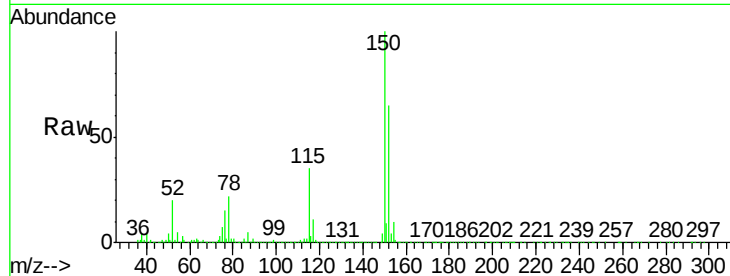


#72

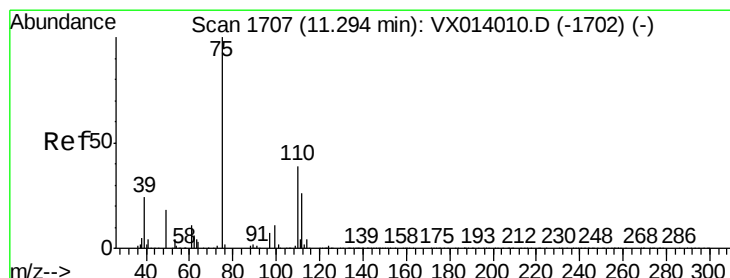
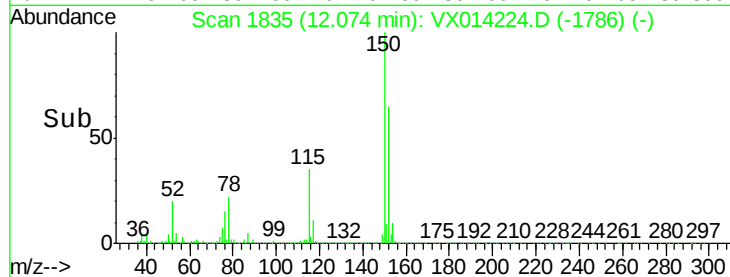
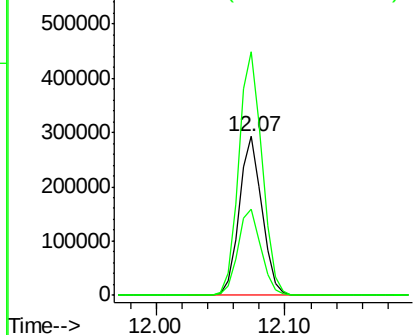
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

Instrument :
MSVOA_X
ClientSampleId :
C0B38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	38.3	114.9
150	158.0	0.0	345.4



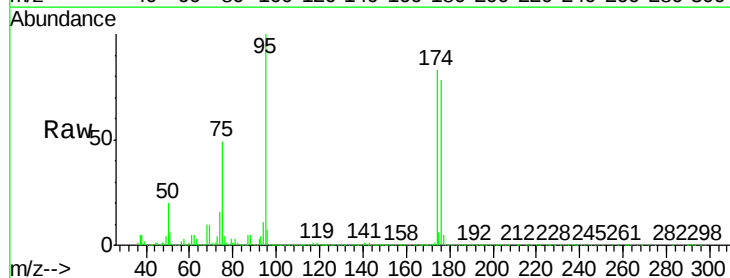
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



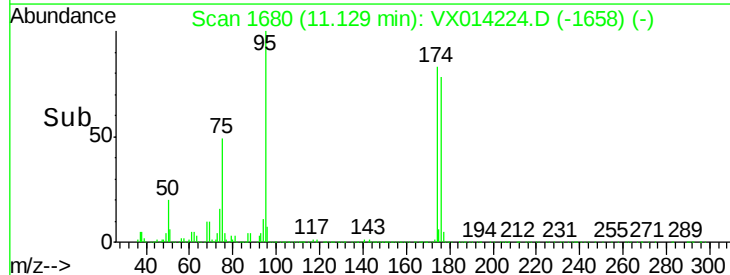
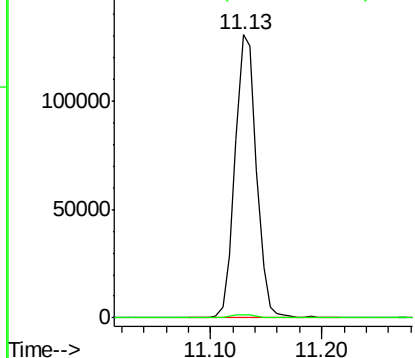
#76

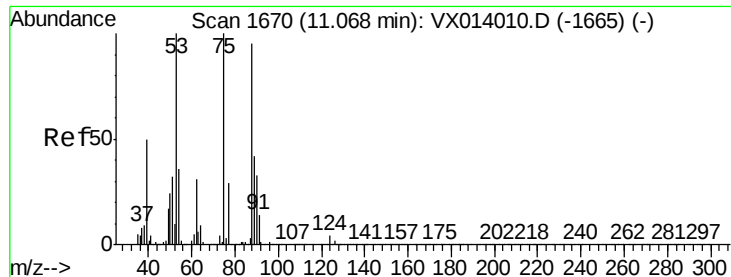
1,2,3-Trichloropropane
Concen: 22.315 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014224.D
Acq: 24 Dec 2019 00:55

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.8	19.3	57.8#



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: 62.985 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014224.D

Acq: 24 Dec 2019 00:55

Instrument :

MSVOA_X

ClientSampleId :

C0B38

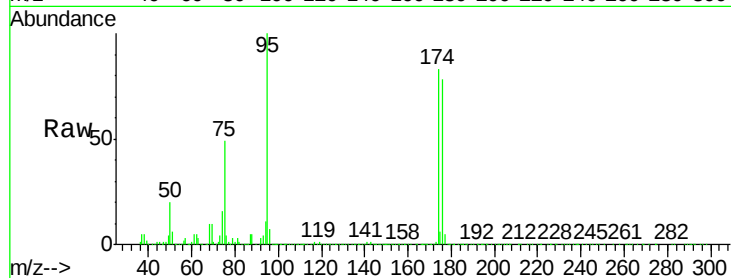
Tgt Ion: 75 Resp: 172978

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.1 34.6 51.8#



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

