

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012419\
 Data File : VX007203.D
 Acq On : 24 Jan 2019 15:02
 Operator : JC/SP
 Sample : K1003-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BU-02-012319

Quant Time: Jan 25 00:03:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	540940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	828226	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	789877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	379248	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	287438	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
35) Dibromofluoromethane	5.51	113	259726	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
50) Toluene-d8	8.71	98	1009879	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
62) 4-Bromofluorobenzene	11.13	95	351956	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	

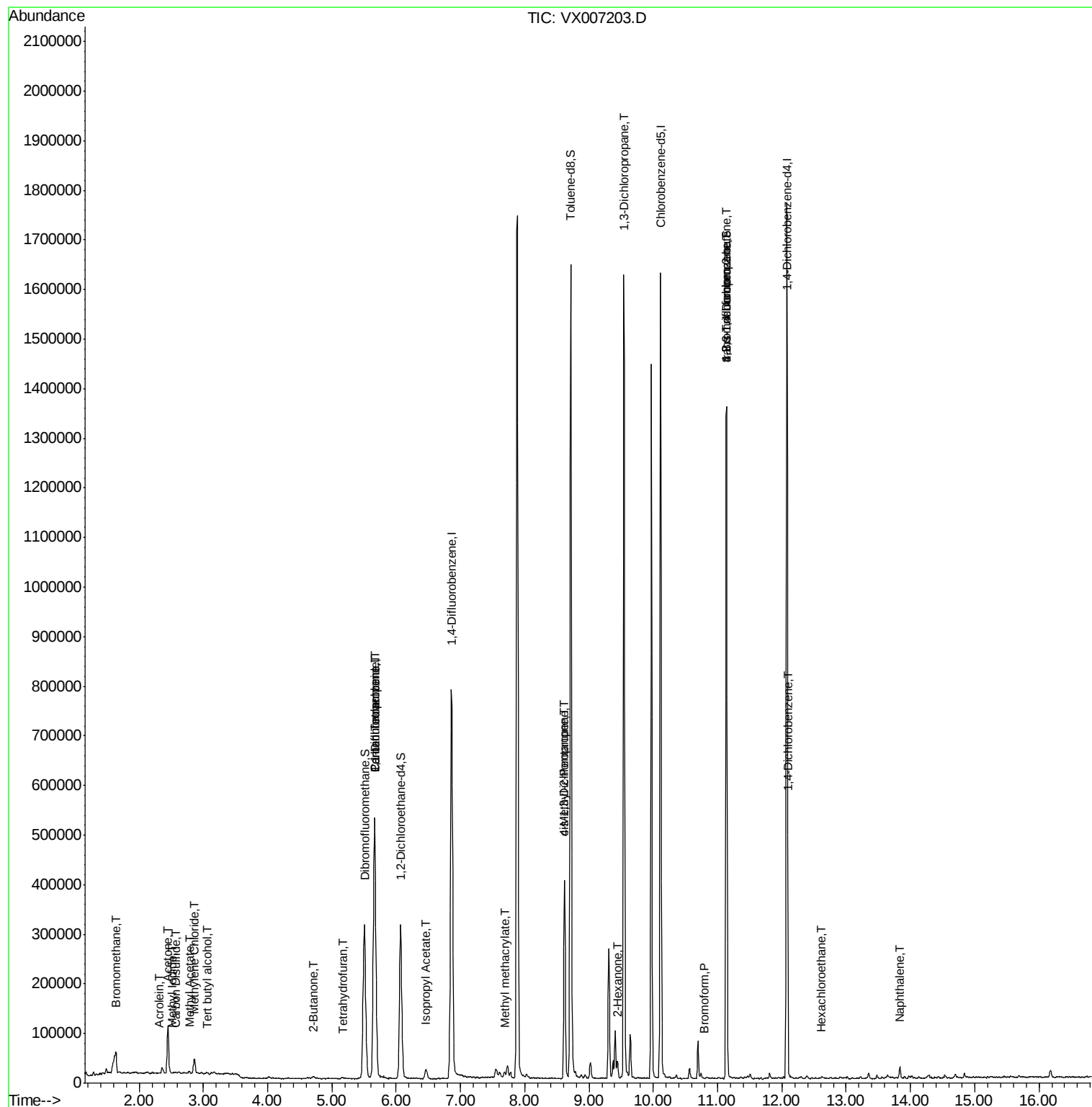
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1764	0.297	ug/l	95
10) Methyl Iodide	2.52	142	1925	0.265	ug/l #	82
11) Tert butyl alcohol	3.07	59	1355	1.016	ug/l #	78
13) Acrolein	2.31	56	843	4.532	ug/l #	80
16) Acetone	2.45	43	106026	37.937	ug/l	98
17) Carbon Disulfide	2.57	76	3316	0.259	ug/l #	92
18) Methyl Acetate	2.78	43	4861	0.601	ug/l #	84
20) Methylene Chloride	2.85	84	15272	2.333	ug/l	99
25) 2-Butanone	4.71	43	7339	1.835	ug/l	98
29) Tetrahydrofuran	5.18	42	1666	0.641	ug/l #	55
36) 1,1-Dichloropropene	5.67	75	34893	4.846	ug/l #	50
38) Carbon Tetrachloride	5.66	117	49041	6.769	ug/l #	14
43) Isopropyl Acetate	6.46	43	25401	2.086	ug/l	96
48) Methyl methacrylate	7.69	41	13960	2.232	ug/l #	13
49) 1,4-Dioxane	7.77	88	412	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	130906	16.728	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	65673	8.116	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	13974	1.509	ug/l #	45
59) 2-Hexanone	9.45	43	20793	3.487	ug/l #	24
71) Bromoform	10.79	173	88	4.743	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	169183	22.014	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	169183	65.191	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1465	0.261	ug/l #	1
90) Hexachloroethane	12.61	117	151	2.946	ug/l #	6
95) Naphthalene	13.83	128	15214	0.557	ug/l	97

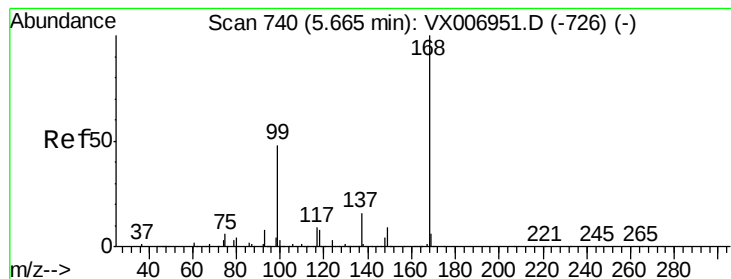
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX012419\
Data File : VX007203.D
Acq On : 24 Jan 2019 15:02
Operator : JC/SP
Sample : K1003-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampled :
BU-02-012319

Quant Time: Jan 25 00:03:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

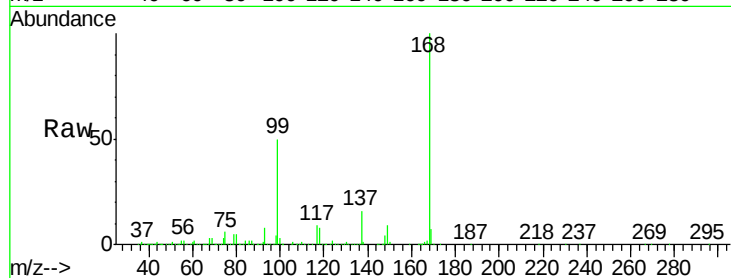
BU-02-012319

Tot Ion:168 Resp: 540940

Ion Ratio Lower Upper

168 100

99 49.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

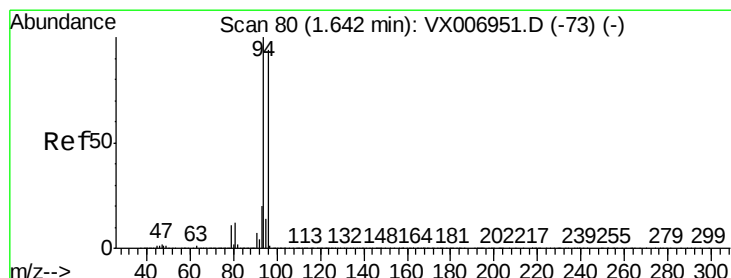
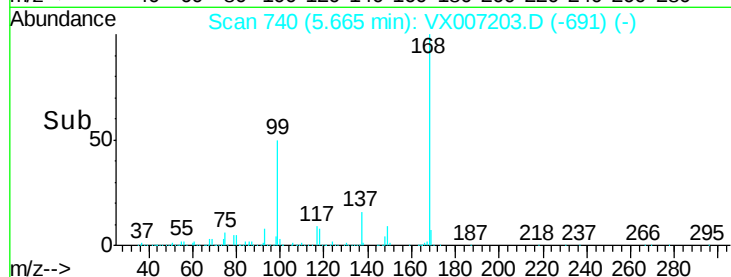
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.297 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX007203.D

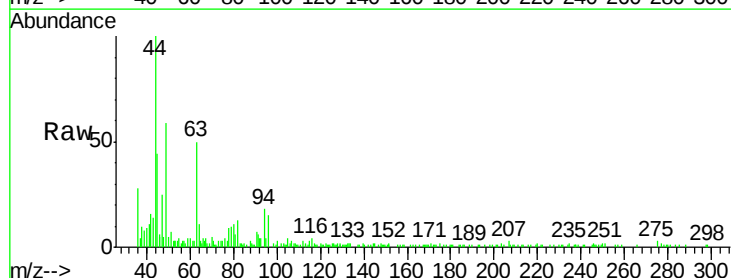
Acq: 24 Jan 2019 15:02

Tgt Ion: 94 Resp: 1764

Ion Ratio Lower Upper

94 100

96 87.3 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

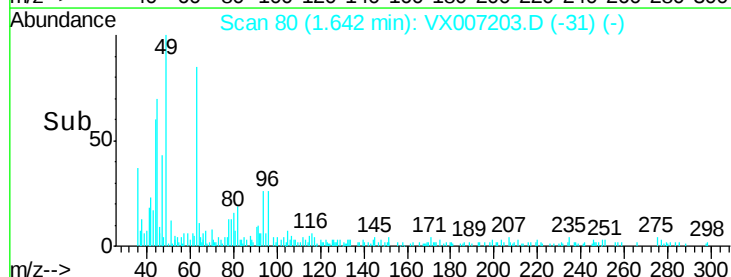
1500

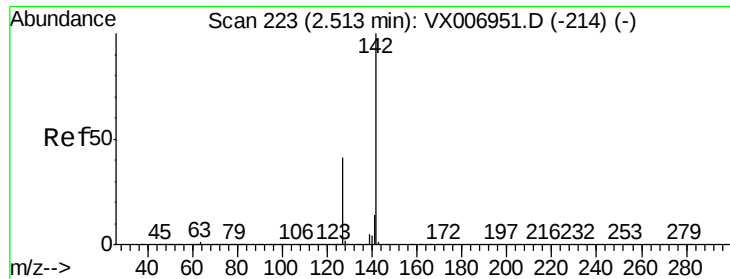
1000

500

0

Time-->

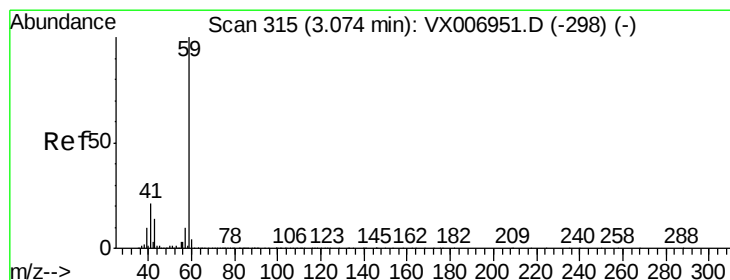
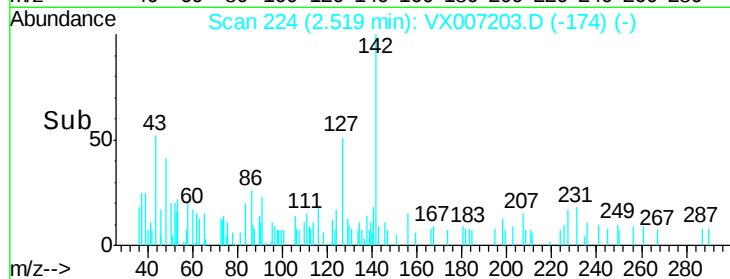
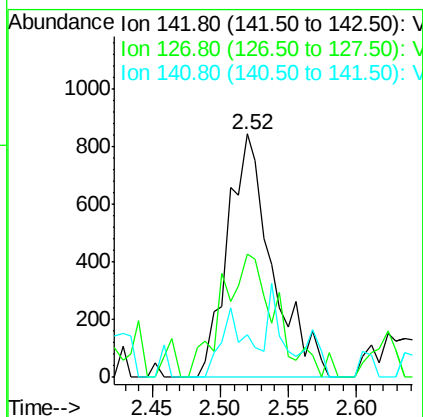
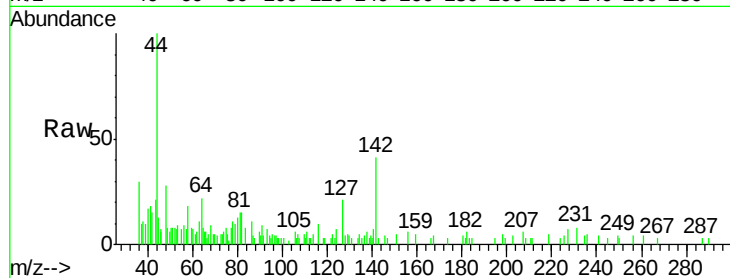




#10
Methvl Iodide
Concen: 0.265 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

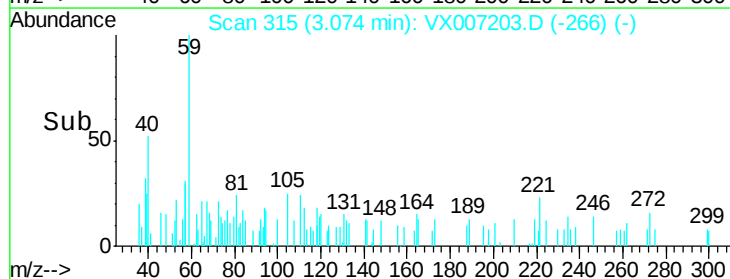
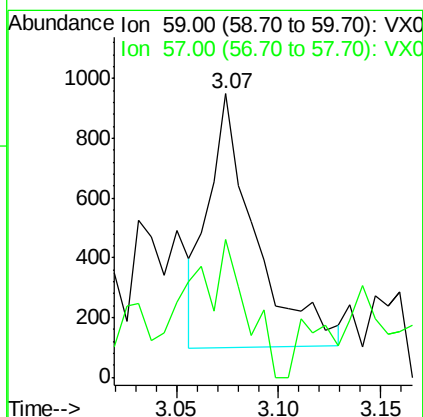
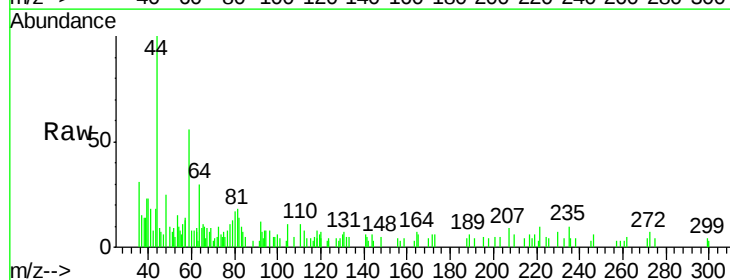
Instrument :
MSVOA_X
ClientSampled :
BU-02-012319

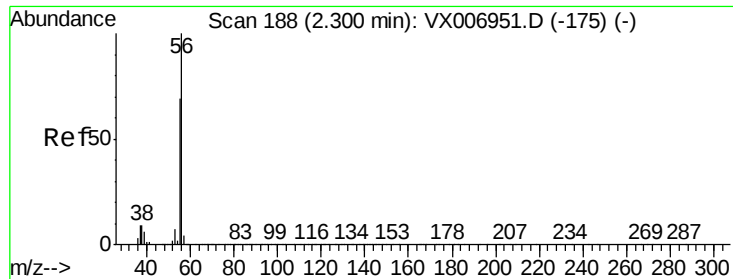
Tot Ion:142 Resp: 1925
Ion Ratio Lower Upper
142 100
127 57.0 33.9 50.9#
141 15.6 11.4 17.0



#11
Tert butyl alcohol
Concen: 1.016 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.00 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

Tgt Ion: 59 Resp: 1355
Ion Ratio Lower Upper
59 100
57 18.9 8.5 12.7#

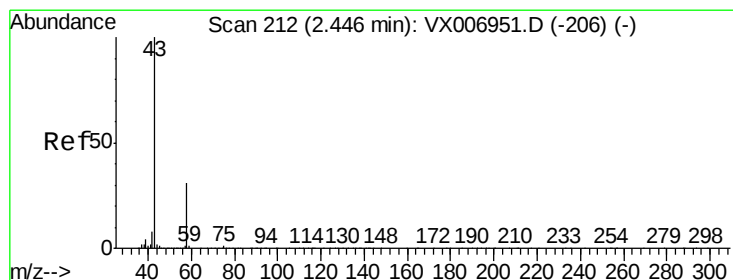
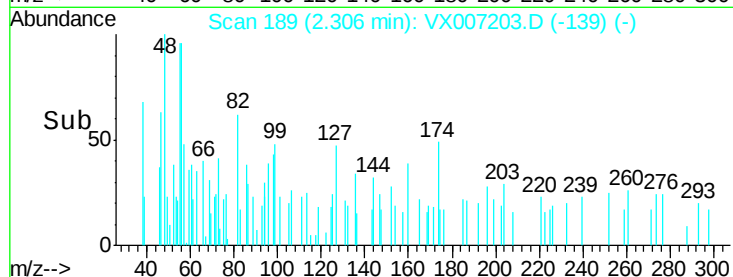
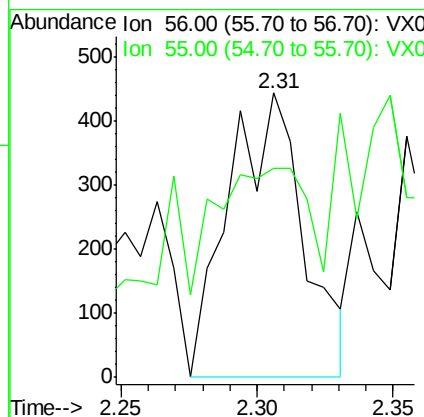
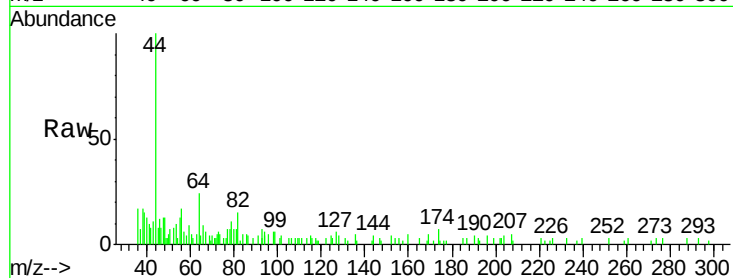




#13
Acrolein
Concen: 4.532 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

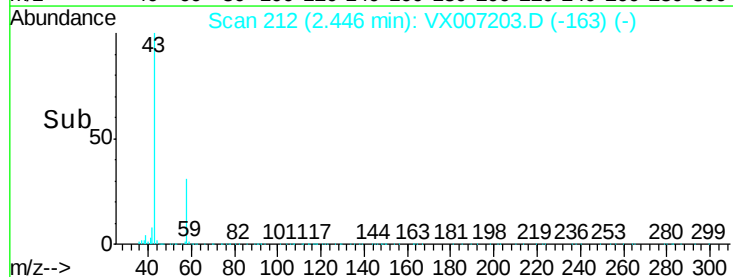
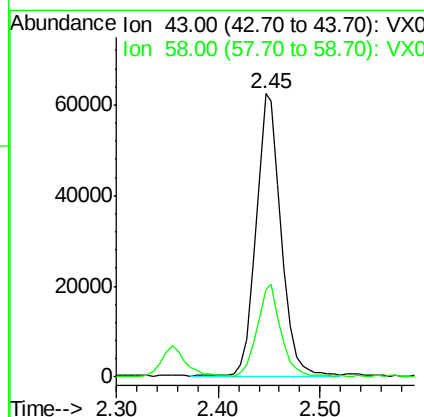
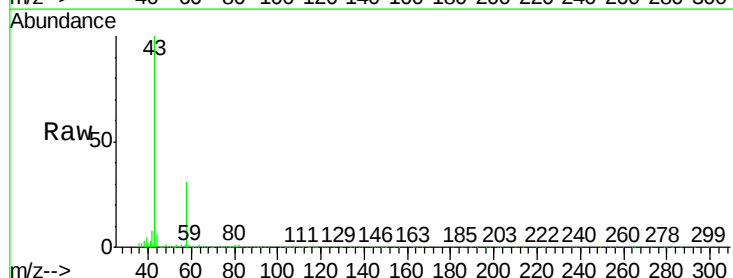
Instrument :
MSVOA_X
ClientSampleId :
BU-02-012319

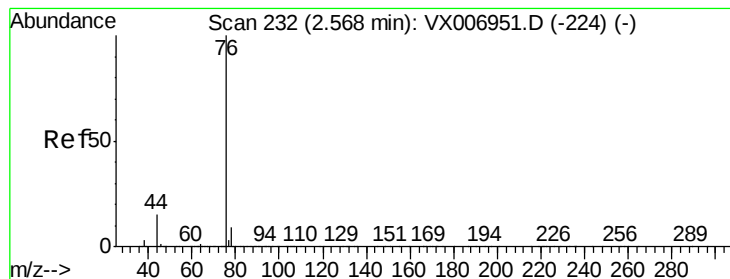
Tot Ion: 56 Resp: 843
Ion Ratio Lower Upper
56 100
55 56.0 58.2 87.4#



#16
Acetone
Concen: 37.937 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

Tgt Ion: 43 Resp: 106026
Ion Ratio Lower Upper
43 100
58 30.2 25.0 37.6





#17

Carbon Disulfide

Concen: 0.259 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

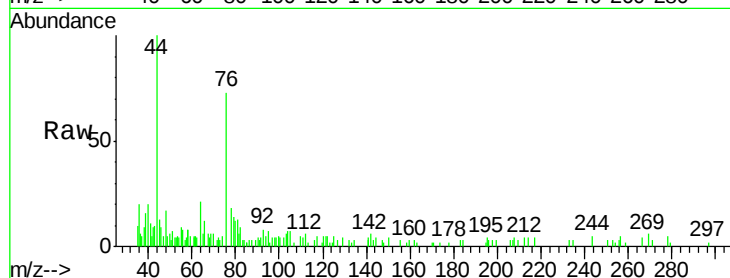
BU-02-012319

Tot Ion: 76 Resp: 3316

Ion Ratio Lower Upper

76 100

78 6.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2000

1500

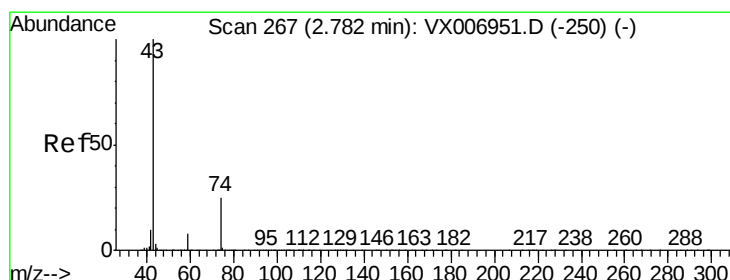
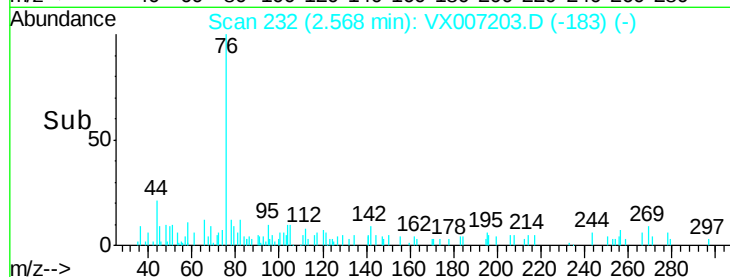
1000

500

0

2.50 2.55 2.60 2.65

Time-->



#18

Methyl Acetate

Concen: 0.601 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007203.D

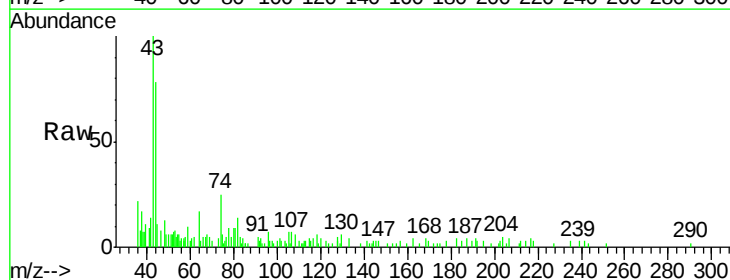
Acq: 24 Jan 2019 15:02

Tgt Ion: 43 Resp: 4861

Ion Ratio Lower Upper

43 100

74 30.9 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

3000

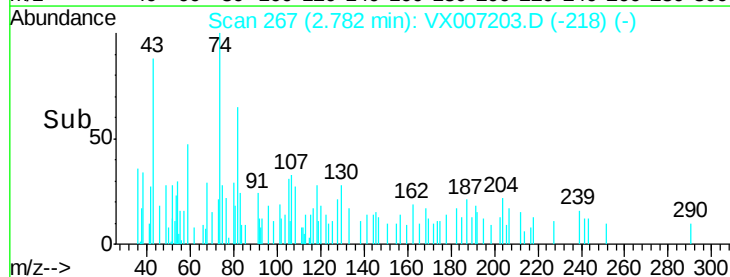
2000

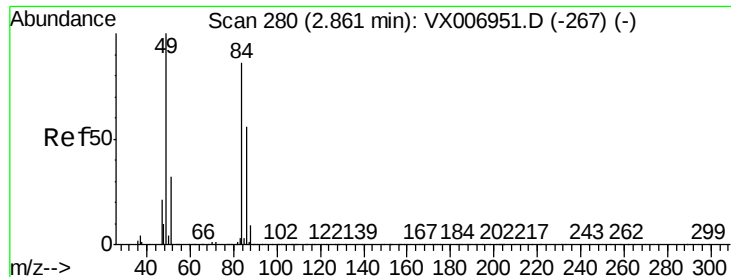
1000

0

2.70 2.75 2.80 2.85

Time-->

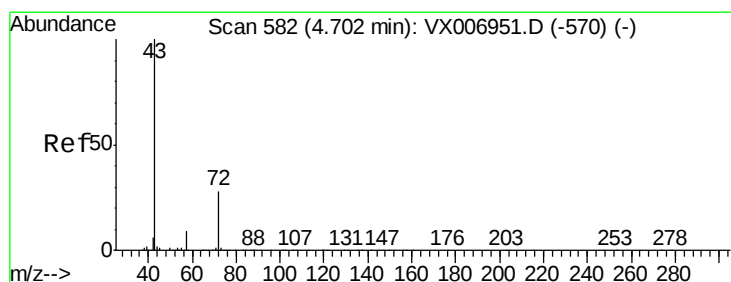
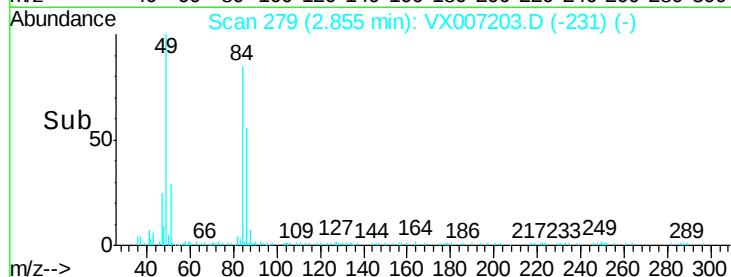
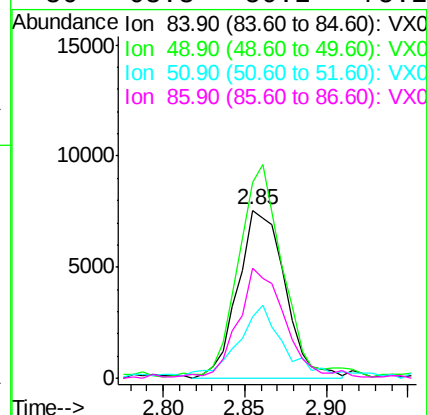
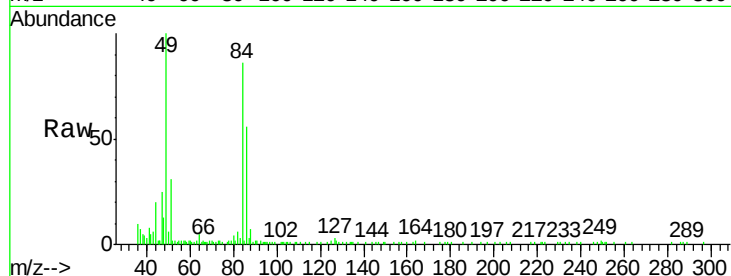




#20
Methvlene Chloride
Concen: 2.333 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

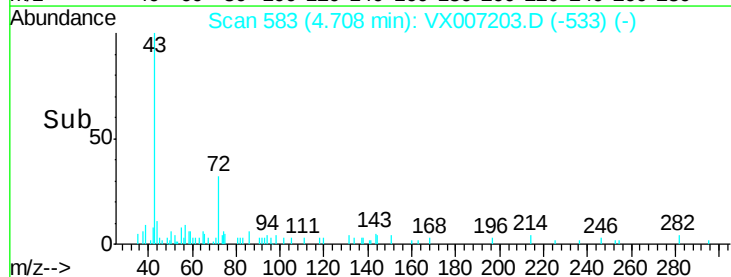
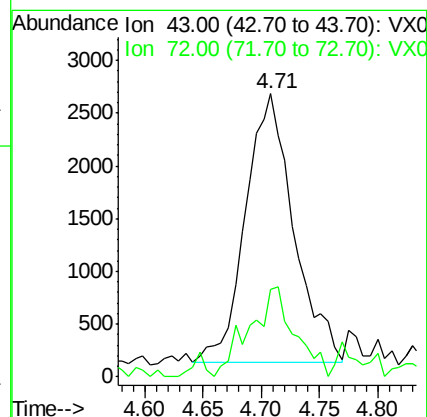
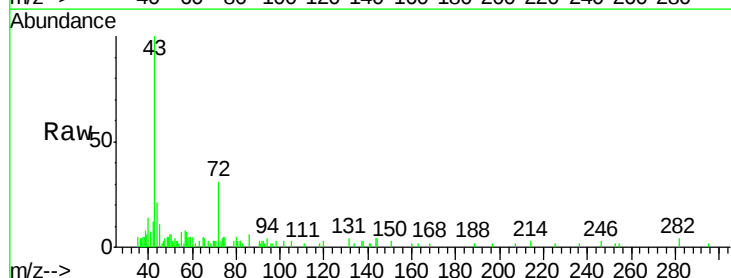
Instrument :
MSVOA_X
ClientSampleId :
BU-02-012319

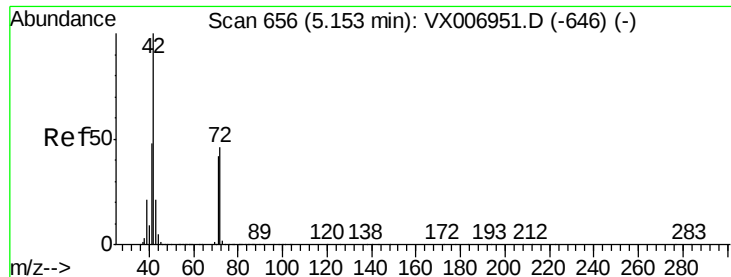
Tot Ion:	84	Resp:	15272
Ion	Ratio	Lower	Upper
84	100		
49	114.5	91.8	137.6
51	32.8	28.5	42.7
86	63.3	50.2	75.2



#25
2-Butanone
Concen: 1.835 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

Tgt Ion:	43	Resp:	7339
Ion	Ratio	Lower	Upper
43	100		
72	29.3	22.4	33.6





#29

Tetrahydrofuran

Concen: 0.641 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampled :

BU-02-012319

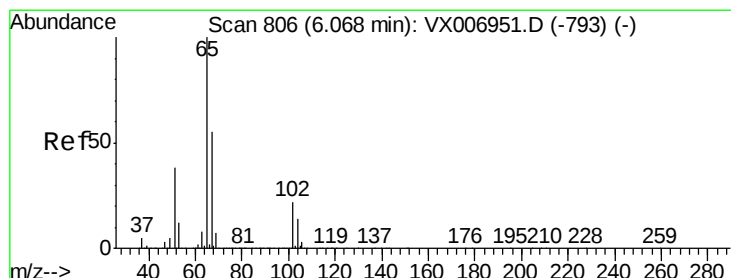
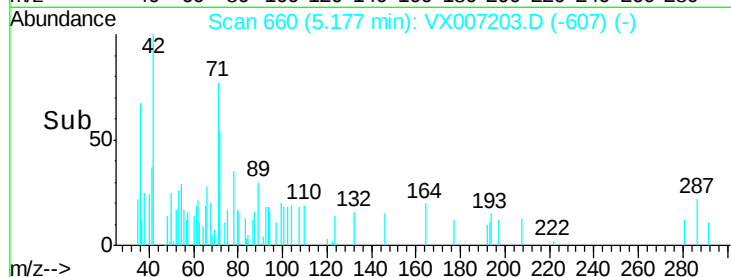
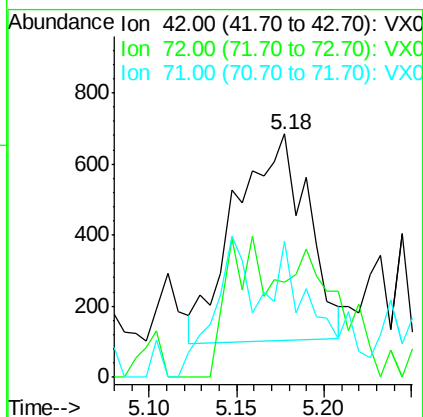
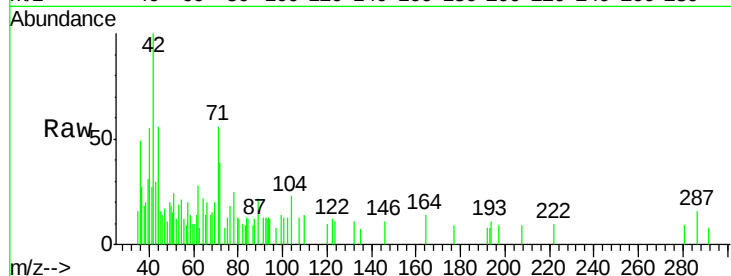
Tot Ion: 42 Resp: 1666

Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

71 34.5 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 50.844 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007203.D

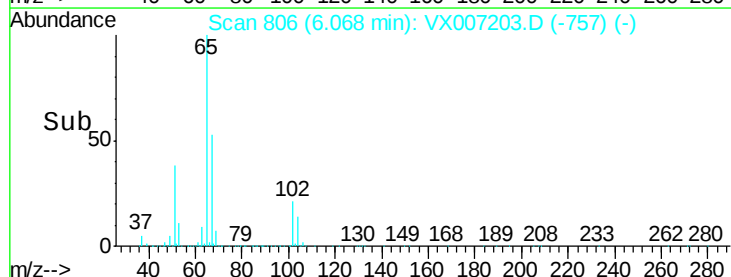
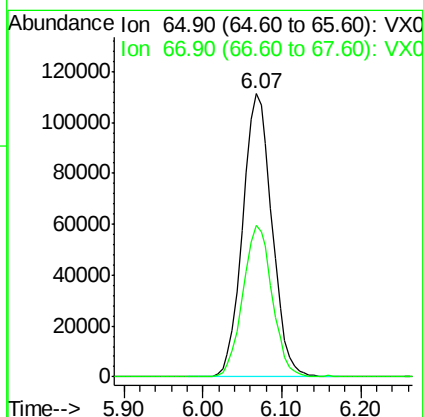
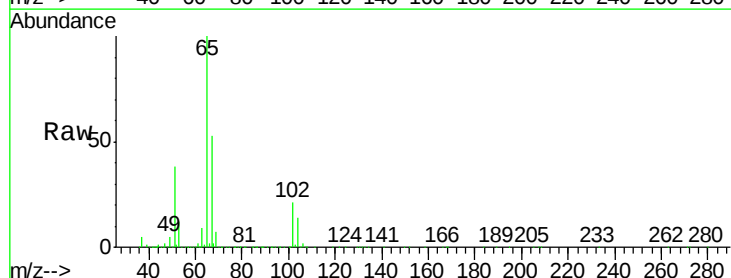
Acq: 24 Jan 2019 15:02

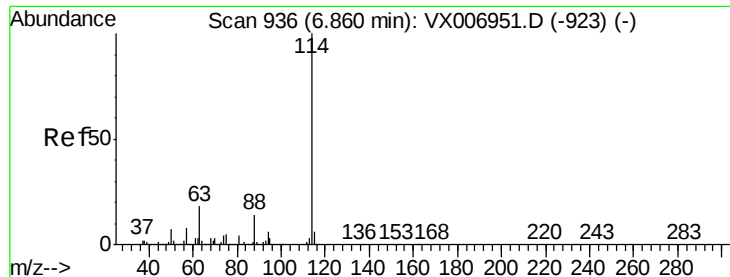
Tgt Ion: 65 Resp: 287438

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

BU-02-012319

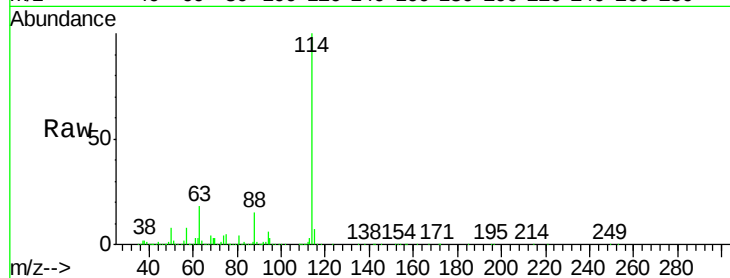
Tot Ion:114 Resp: 828226

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

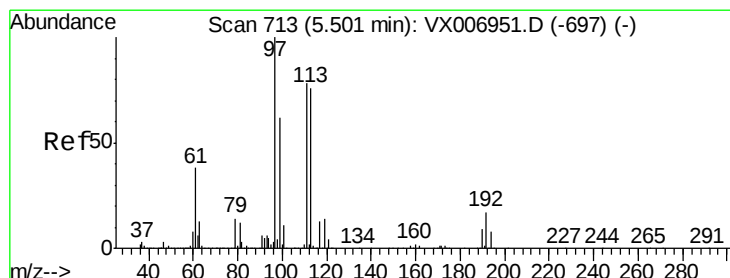
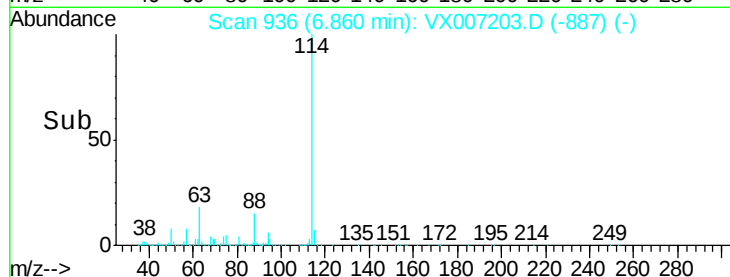
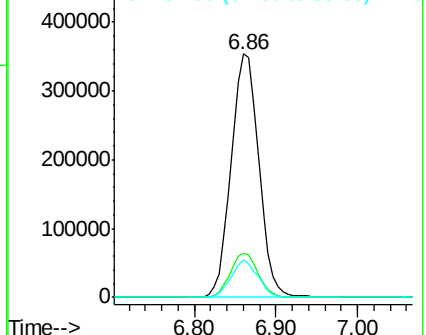
88 15.5 0.0 28.8



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: 48.969 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

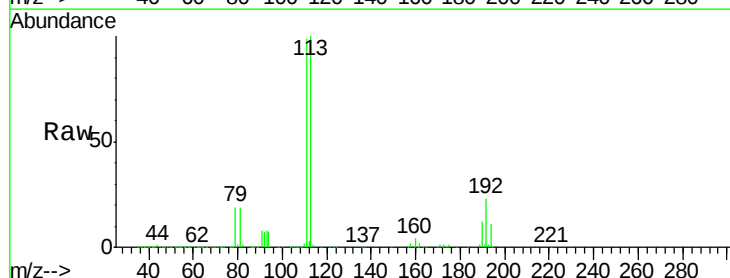
Tgt Ion:113 Resp: 259726

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

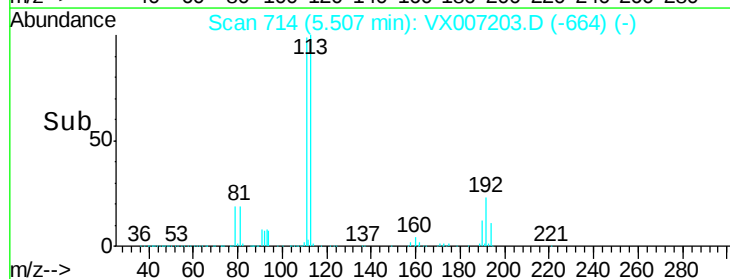
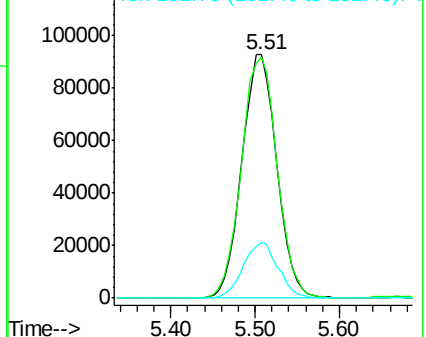
192 22.9 16.7 25.1

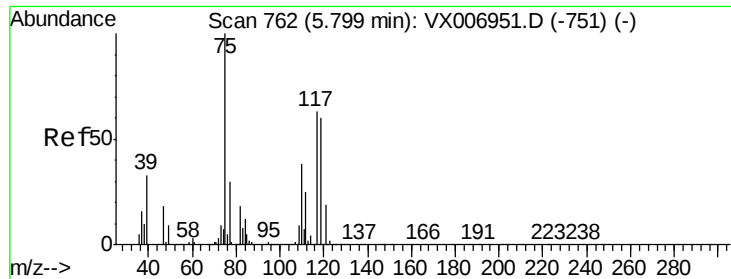


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.846 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

BU-02-012319

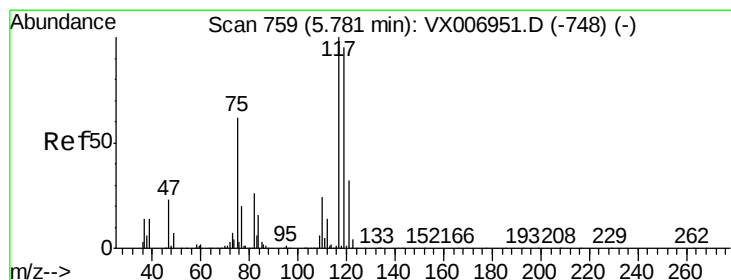
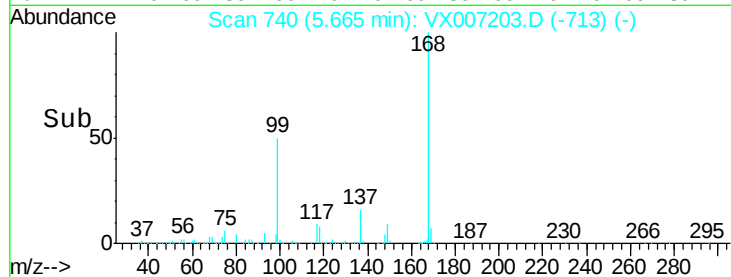
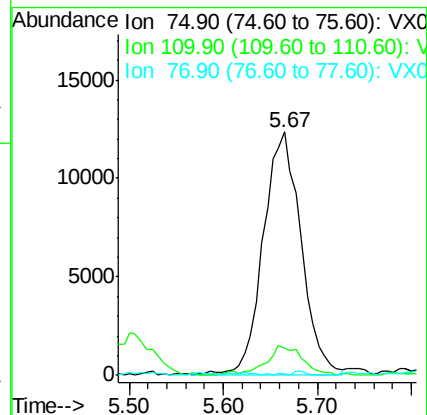
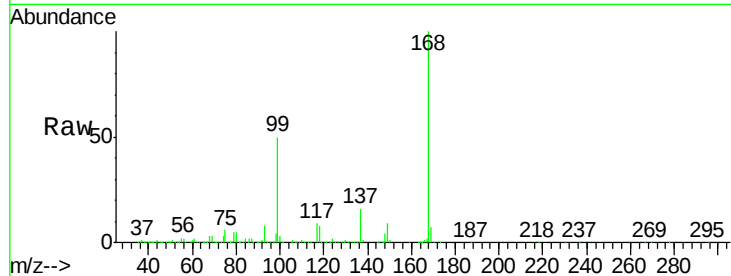
Tot Ion: 75 Resp: 34893

Ion Ratio Lower Upper

75 100

110 11.5 20.2 60.5#

77 0.8 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.769 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

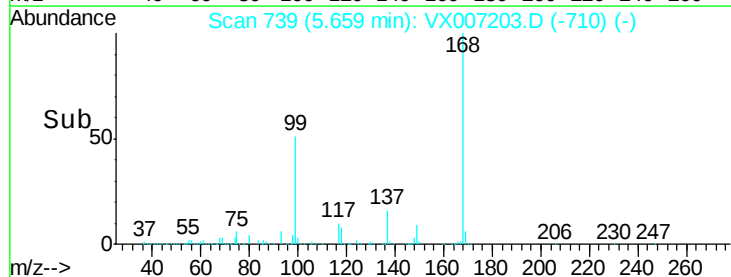
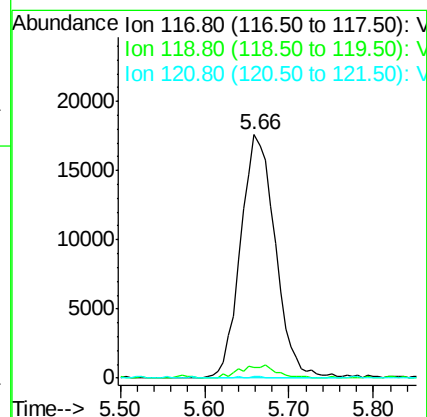
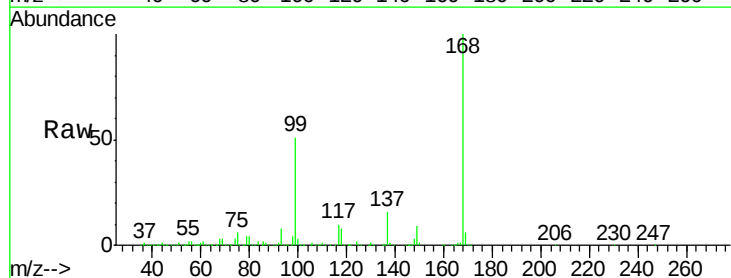
Tgt Ion:117 Resp: 49041

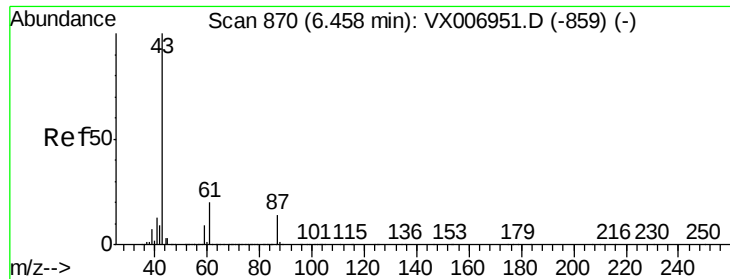
Ion Ratio Lower Upper

117 100

119 4.4 79.4 119.2#

121 0.5 24.0 36.0#



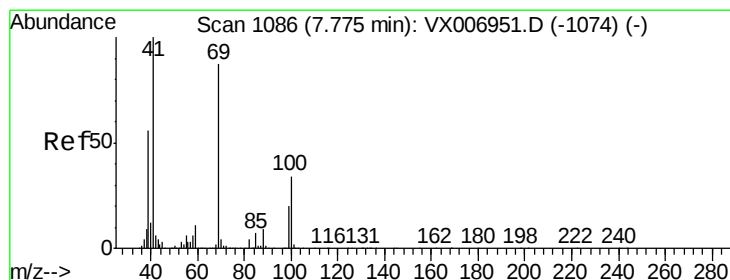
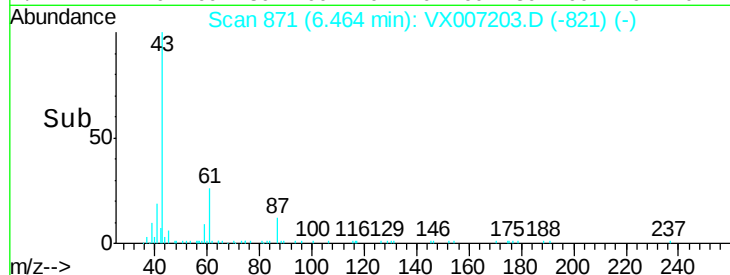
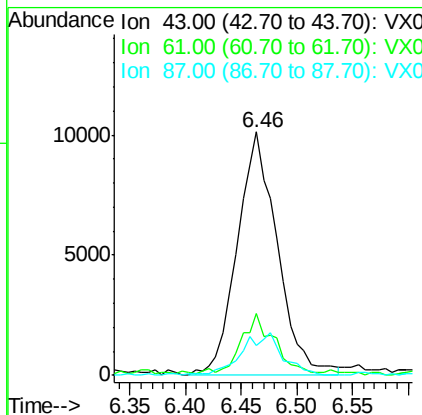
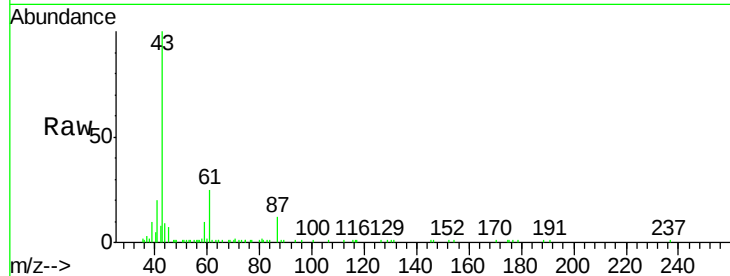


#43

Isopropyl Acetate
 Concen: 2.086 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007203.D
 Acq: 24 Jan 2019 15:02

Instrument :
 MSVOA_X
 ClientSampleId :
 BU-02-012319

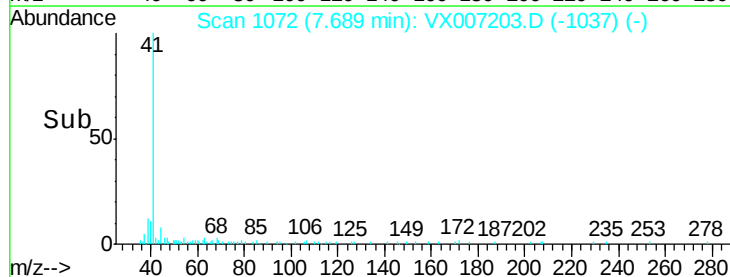
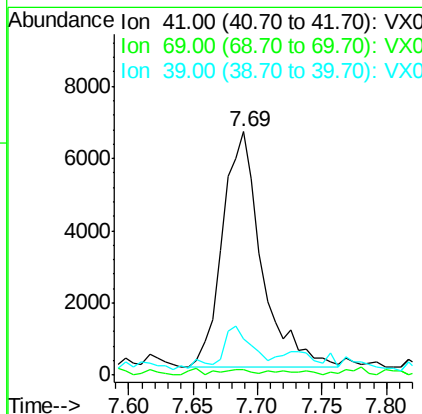
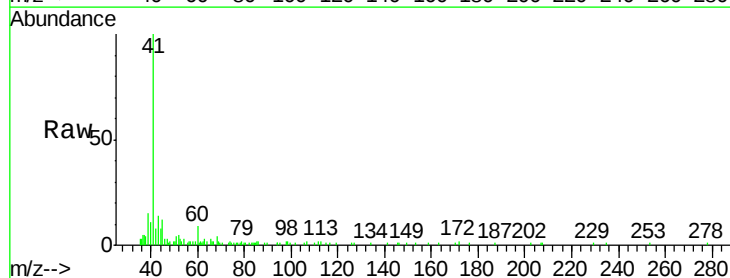
Tot Ion	43	Resp	25401
Ion Ratio	Lower	Upper	
43	100		
61	22.0	16.8	25.2
87	17.9	12.4	18.6

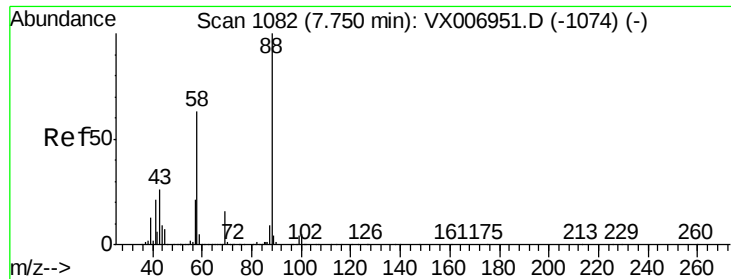


#48

Methyl methacrylate
 Concen: 2.232 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX007203.D
 Acq: 24 Jan 2019 15:02

Tgt Ion	41	Resp	13960
Ion Ratio	Lower	Upper	
41	100		
69	2.2	72.4	108.6#
39	0.0	45.8	68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

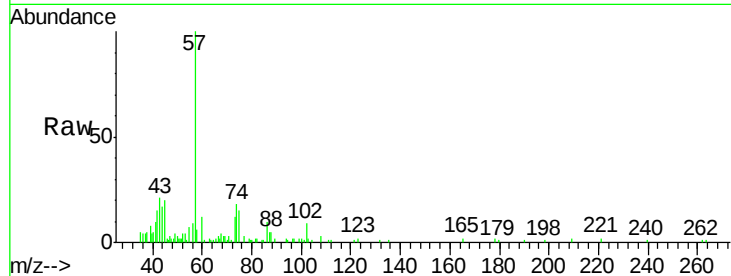
MSVOA_X

ClientSampled :

BU-02-012319

Tot Ion: 88 Resp: 412

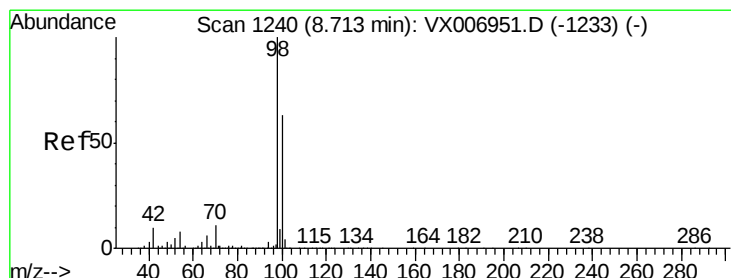
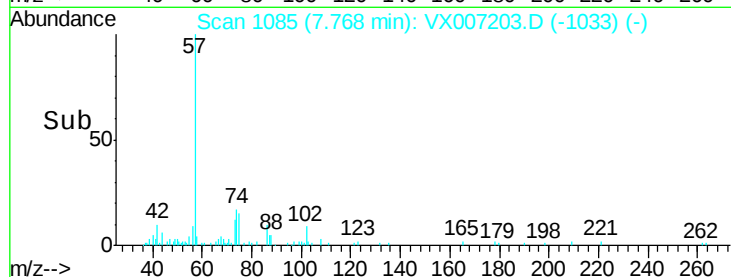
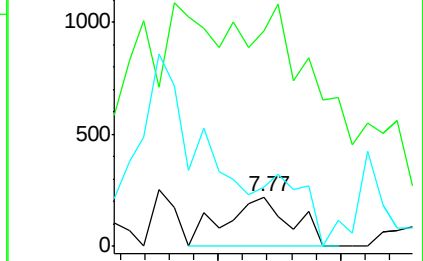
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	0.0	51.0	76.4#



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: 52.018 ug/l

RT: 8.71 min Scan# 1240

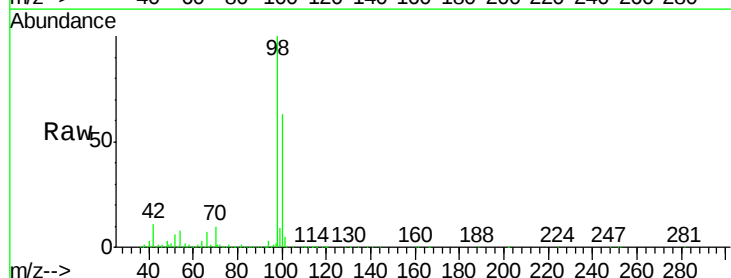
Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

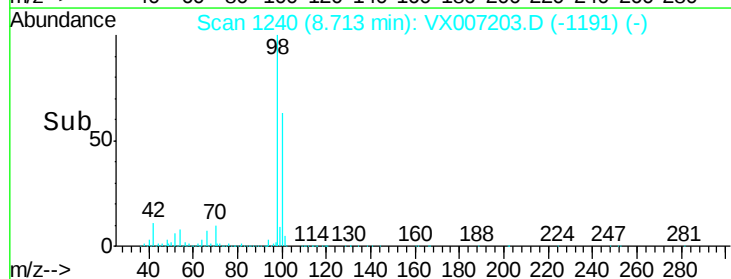
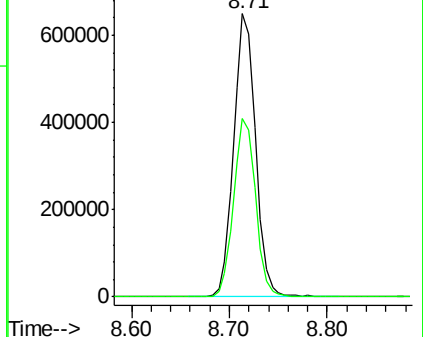
Tgt Ion: 98 Resp: 1009879

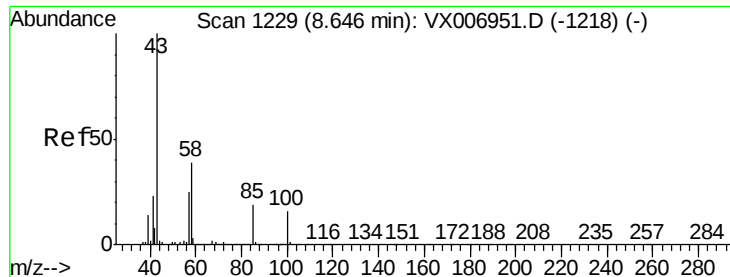
Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.0	78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

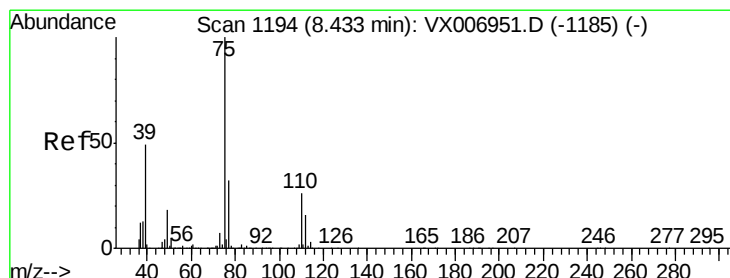
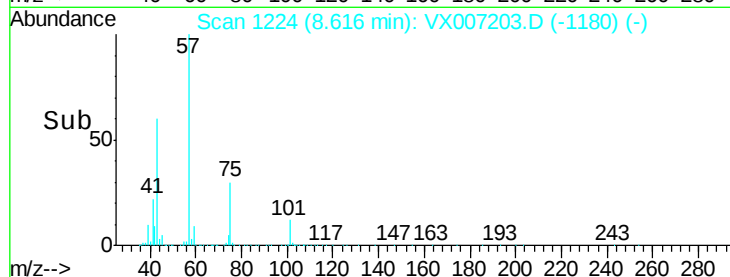
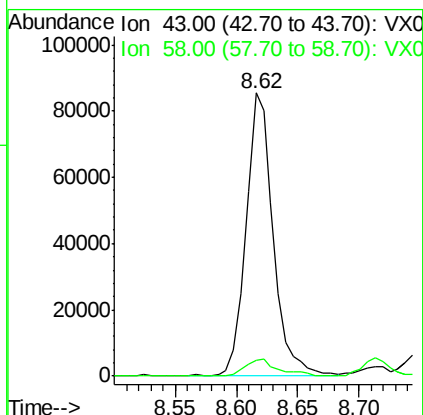
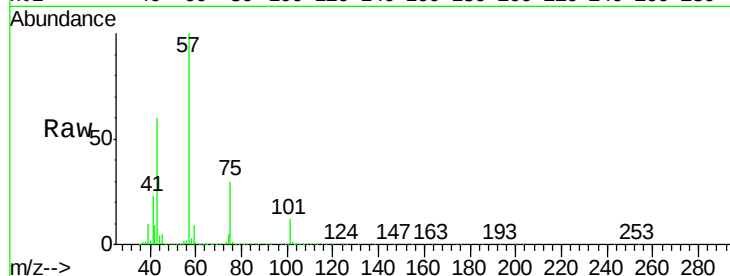




#51
 4-Methyl-2-Pentanone
 Concen: 16.728 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX007203.D
 Acq: 24 Jan 2019 15:02

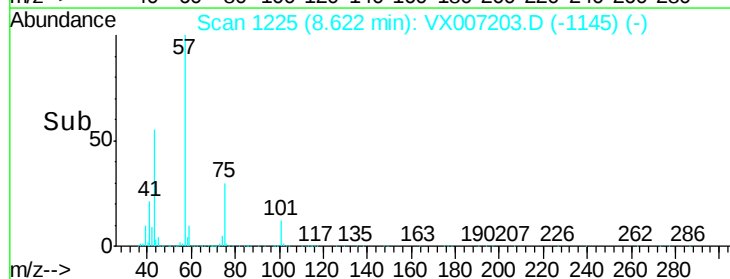
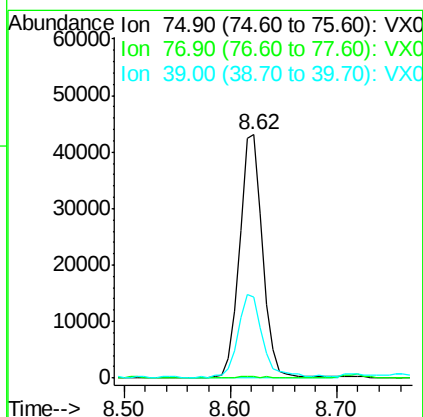
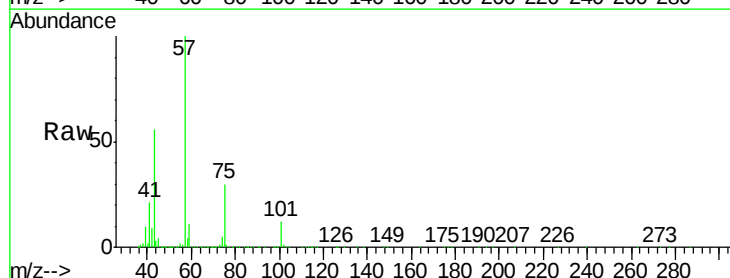
Instrument :
 MSVOA_X
 ClientSampleId :
 BU-02-012319

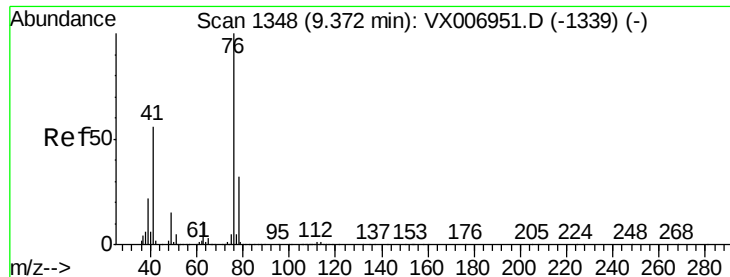
Tot Ion: 43 Resp: 130906
 Ion Ratio Lower Upper
 43 100
 58 7.3 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 8.116 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.19 min
 Lab File: VX007203.D
 Acq: 24 Jan 2019 15:02

Tgt Ion: 75 Resp: 65673
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.2 39.2#
 39 32.7 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.509 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

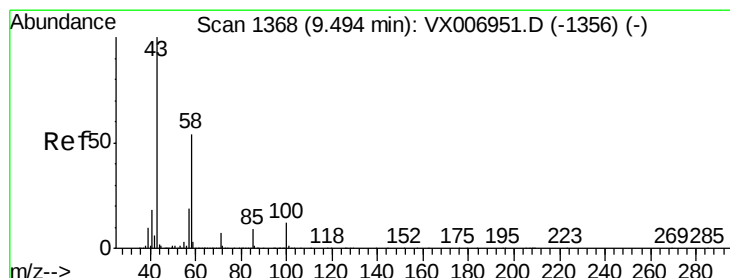
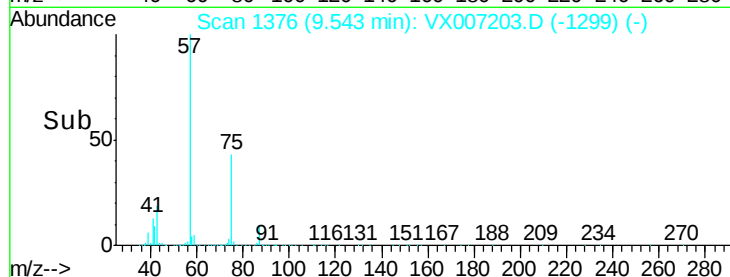
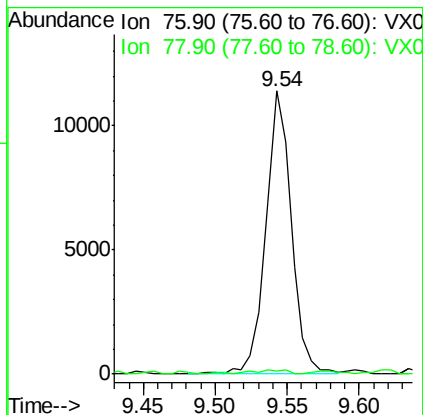
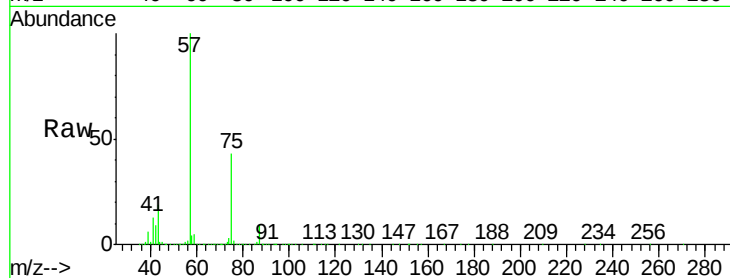
BU-02-012319

Tot Ion: 76 Resp: 13974

Ion Ratio Lower Upper

76 100

78 1.9 26.0 39.0#



#59

2-Hexanone

Concen: 3.487 ug/l

RT: 9.45 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VX007203.D

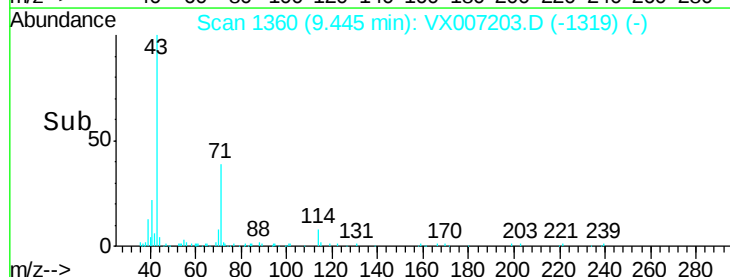
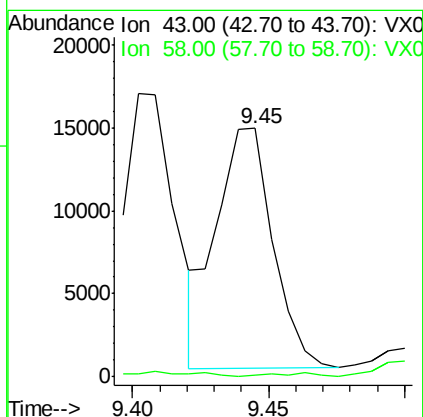
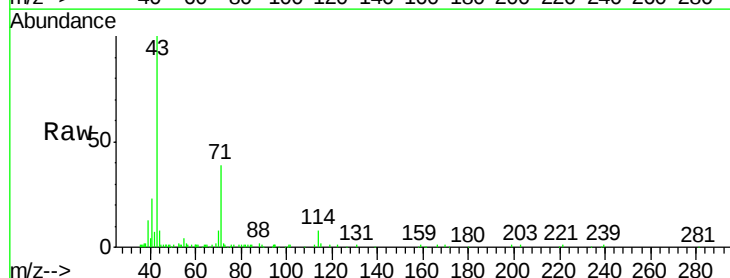
Acq: 24 Jan 2019 15:02

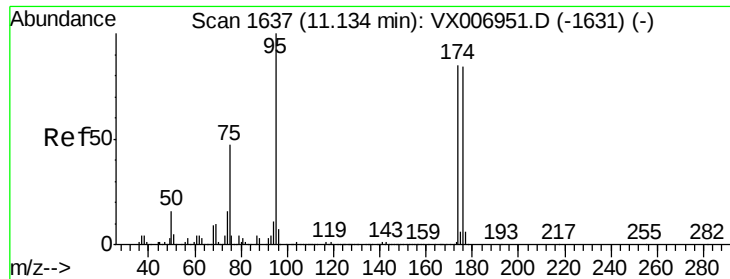
Tgt Ion: 43 Resp: 20793

Ion Ratio Lower Upper

43 100

58 0.0 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 52.002 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

BU-02-012319

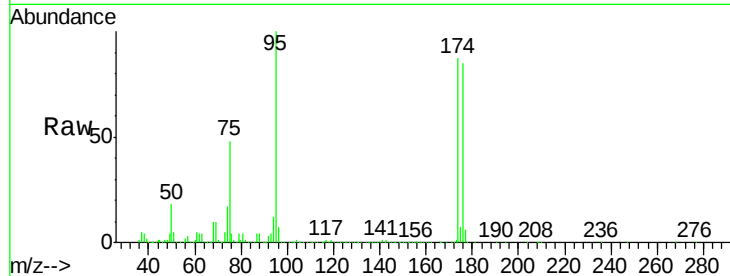
Tot Ion: 95 Resp: 351956

Ion Ratio Lower Upper

95 100

174 94.3 0.0 182.2

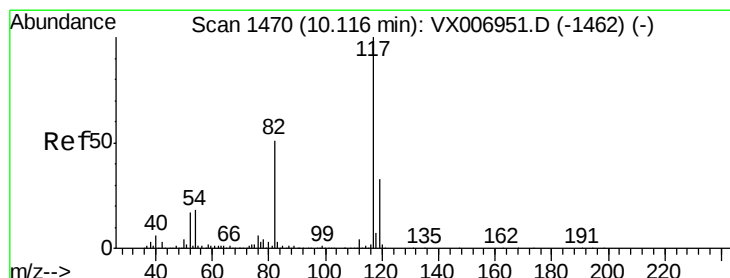
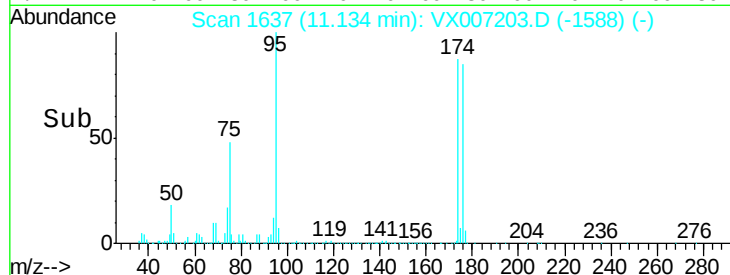
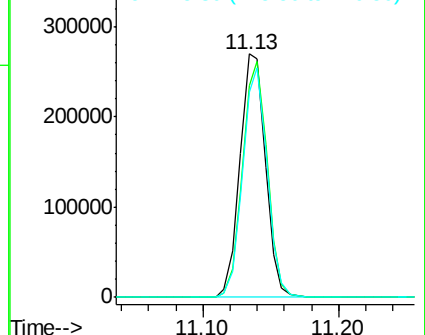
176 90.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

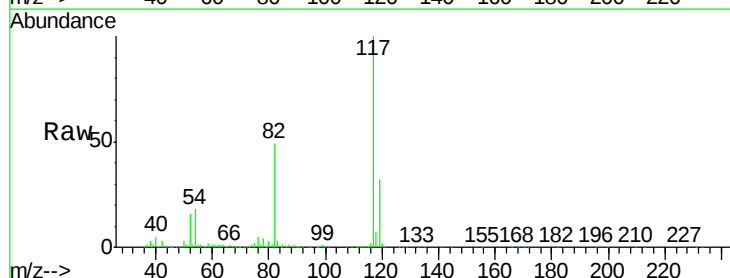
Tgt Ion: 117 Resp: 789877

Ion Ratio Lower Upper

117 100

82 49.0 41.0 61.6

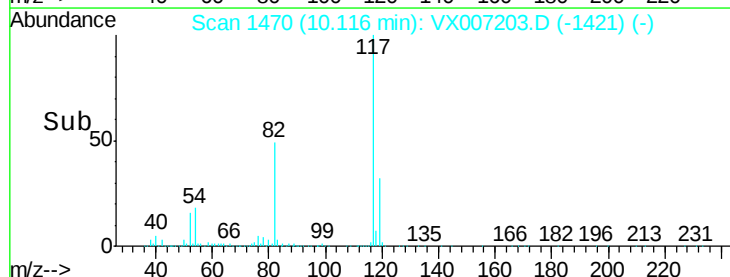
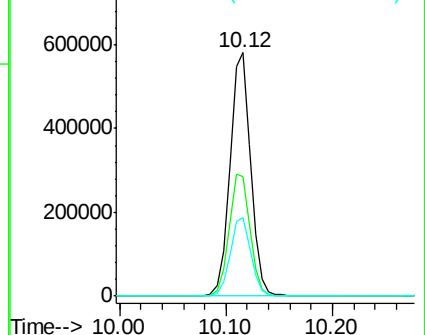
119 32.2 25.4 38.0

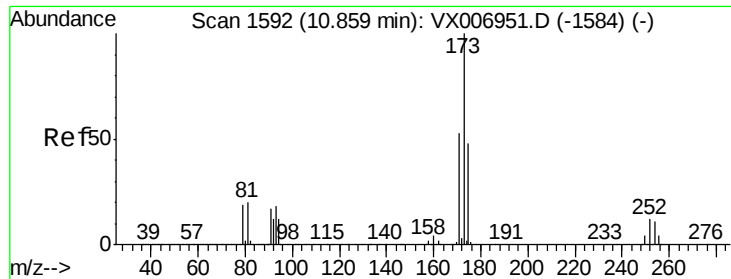


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 4.743 ug/l

RT: 10.79 min Scan# 1580

Delta R.T. -0.07 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

BU-02-012319

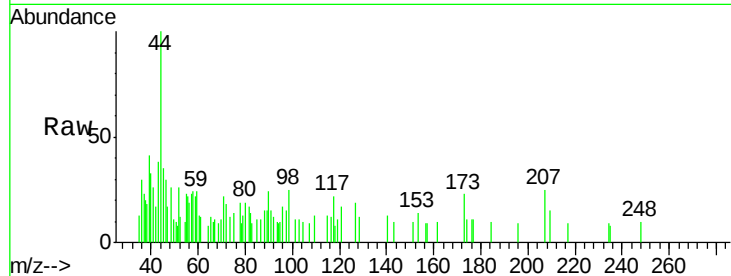
Tot Ion:173 Resp: 88

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

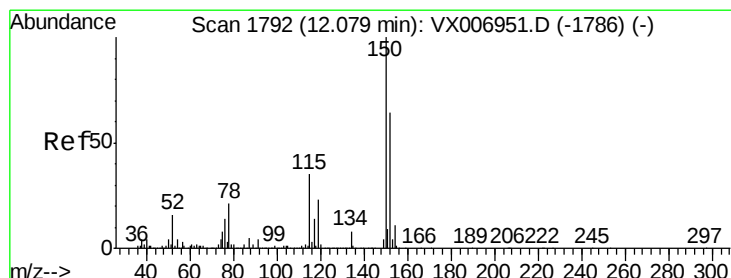
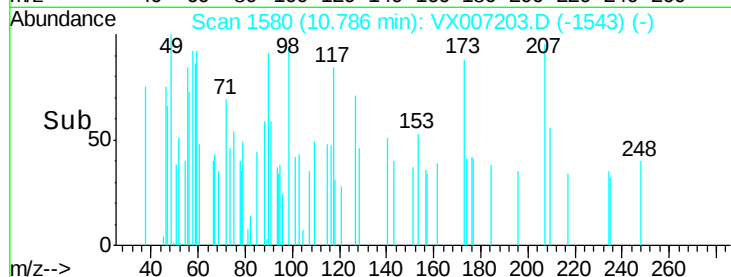
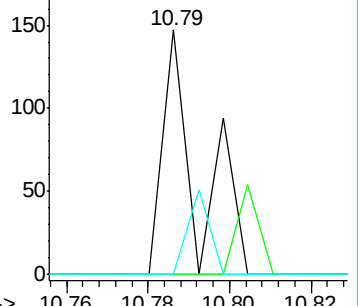
254 21.6 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

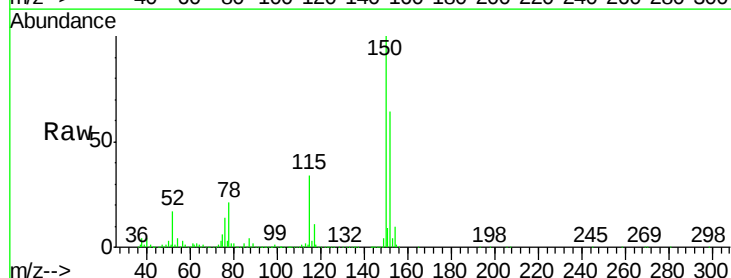
Tgt Ion:152 Resp: 379248

Ion Ratio Lower Upper

152 100

115 54.4 39.1 117.2

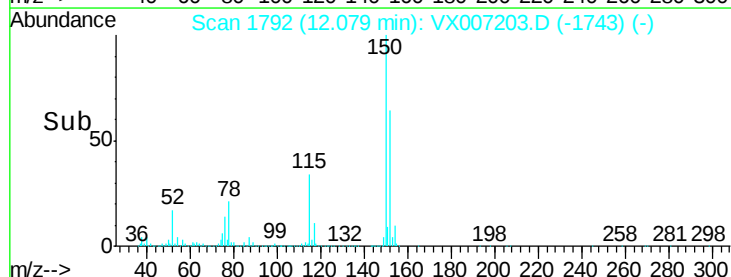
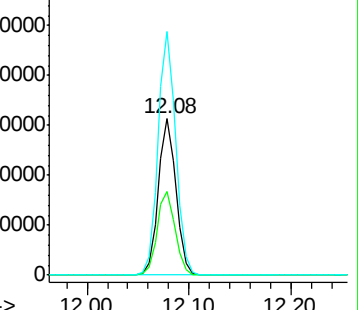
150 155.1 0.0 344.8

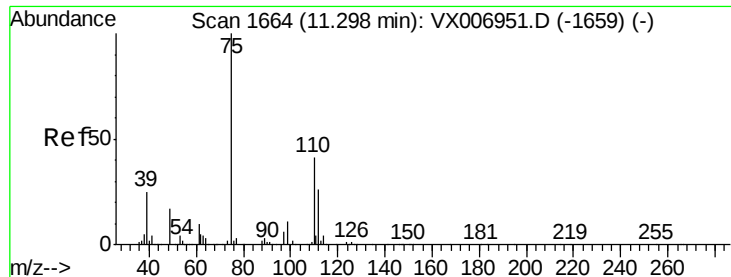


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.014 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampled :

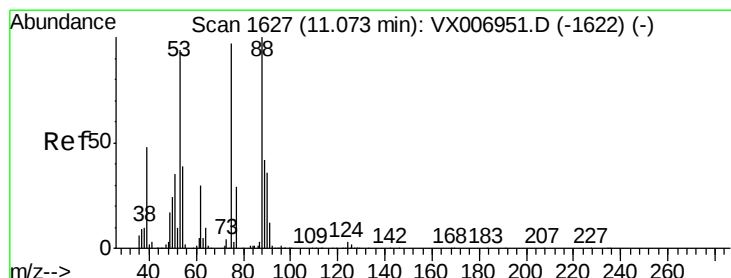
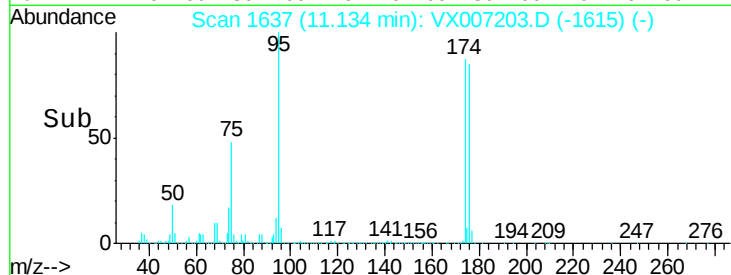
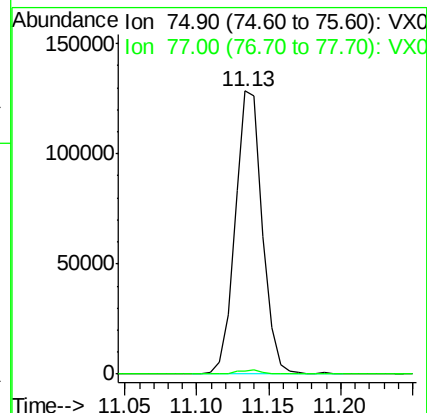
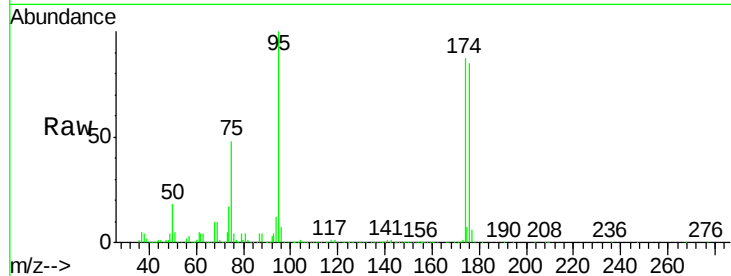
BU-02-012319

Tot Ion: 75 Resp: 169183

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.191 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

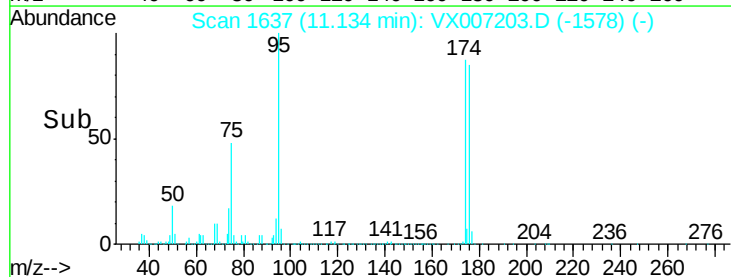
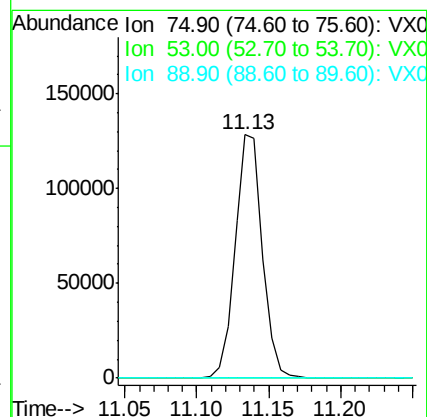
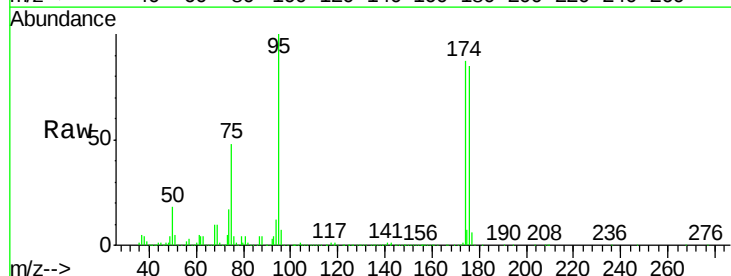
Tgt Ion: 75 Resp: 169183

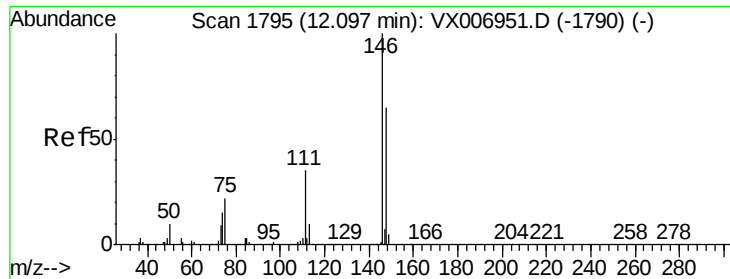
Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#





#88

1,4-Dichlorobenzene

Concen: 0.261 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX007203.D

Acq: 24 Jan 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

BU-02-012319

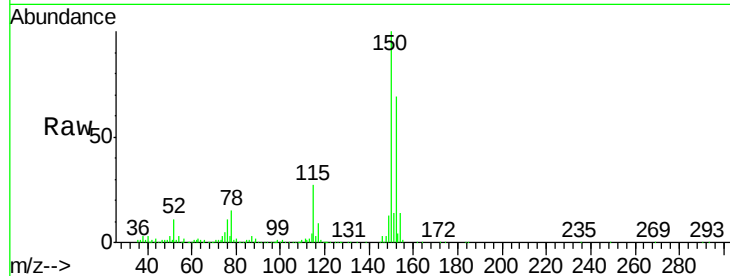
Tot Ion:146 Resp: 1465

Ion Ratio Lower Upper

146 100

111 377.2 18.1 54.1#

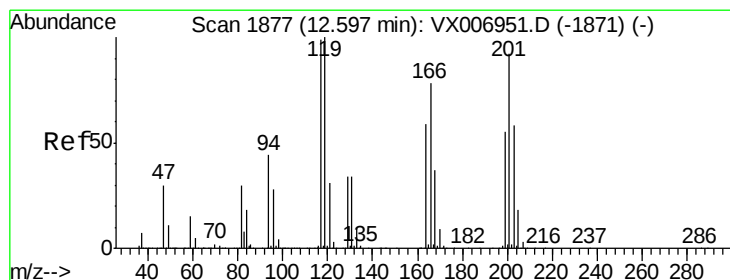
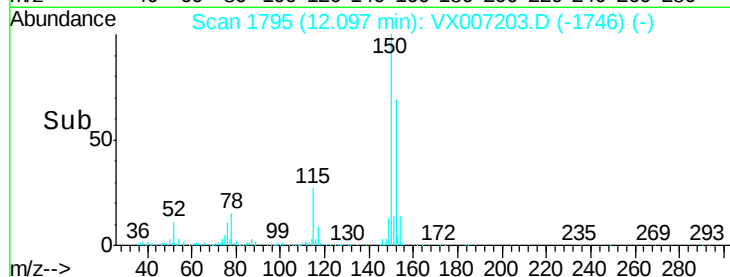
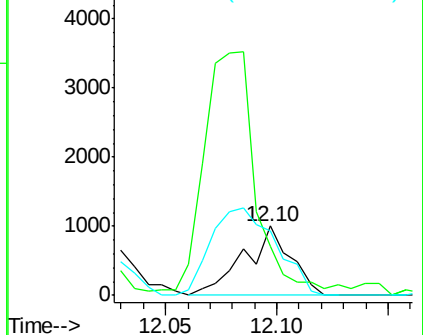
148 175.2 31.9 95.9#



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



#90

Hexachloroethane

Concen: 2.946 ug/l

RT: 12.61 min Scan# 1879

Delta R.T. 0.01 min

Lab File: VX007203.D

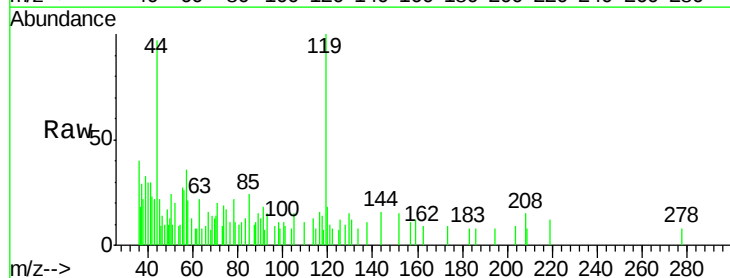
Acq: 24 Jan 2019 15:02

Tgt Ion:117 Resp: 151

Ion Ratio Lower Upper

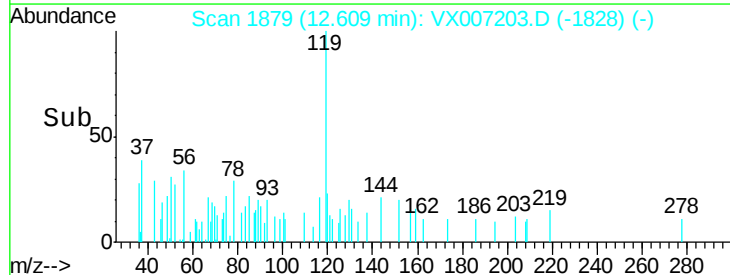
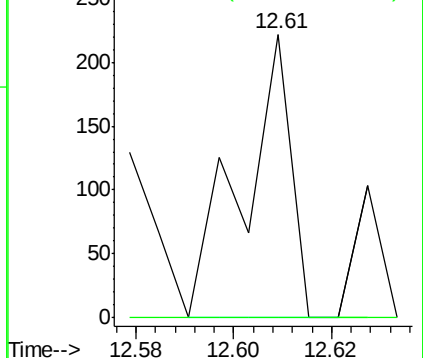
117 100

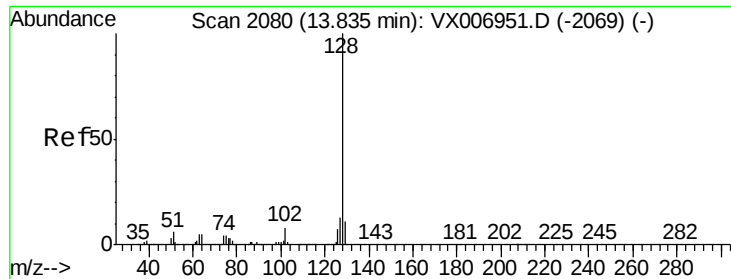
201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 0.557 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX007203.D
Acq: 24 Jan 2019 15:02

Instrument :
MSVOA_X
ClientSampleId :
BU-02-012319

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.1	15.1
129	12.4	8.6	13.0

