

Data File : VX009709.D
Acq On : 18 May 2019 10:56
Operator : JC/SP
Sample : K2901-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 63 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-02A_R2

Quant Time: May 20 04:18:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	167585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	272138	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240085	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	102311	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	115373	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
35) Dibromofluoromethane	5.50	113	83322	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	
50) Toluene-d8	8.71	98	338667	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.13	95	115912	46.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.38%	

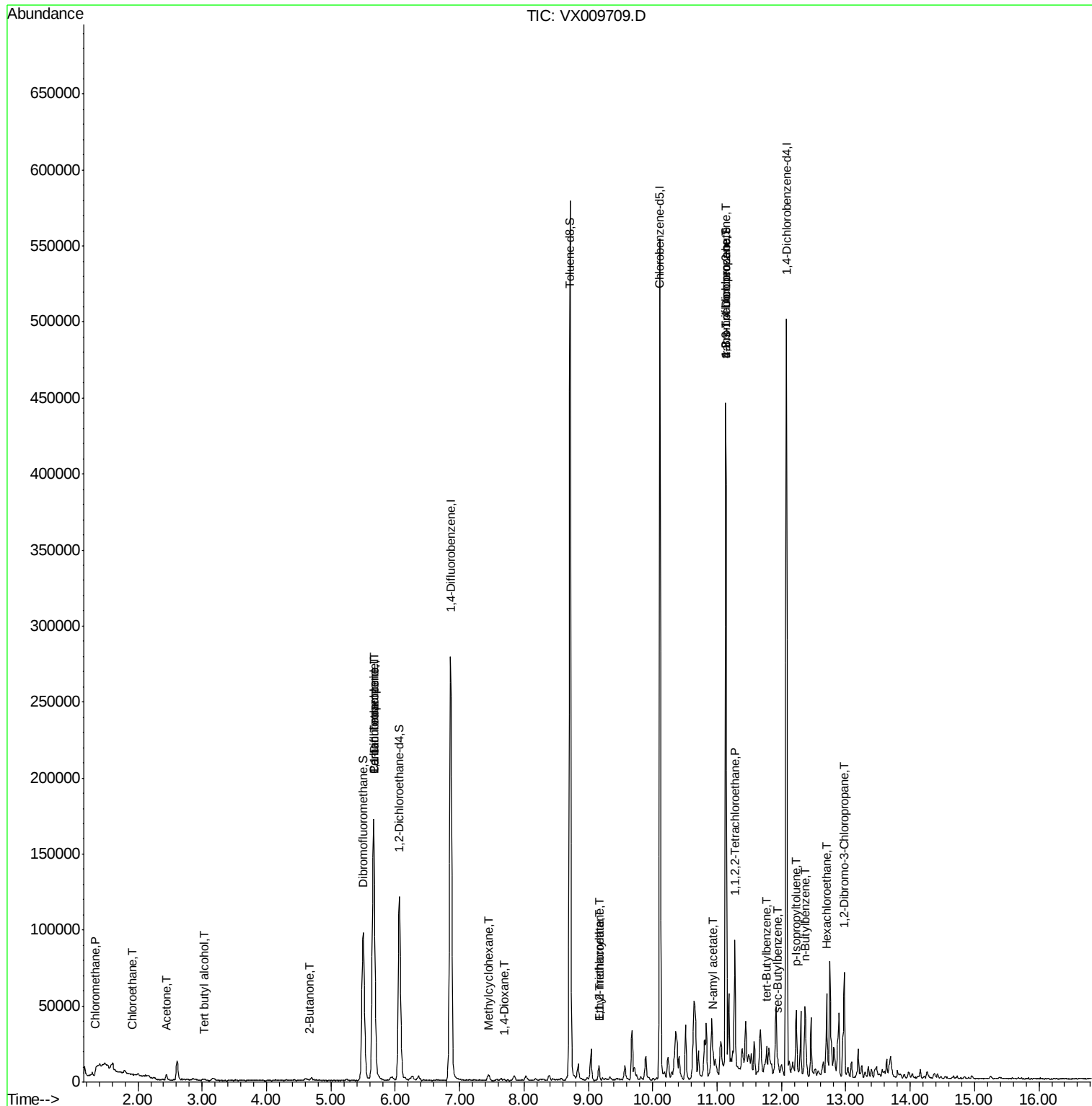
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	560	0.266	ug/l #	87
6) Chloroethane	1.92	64	269	0.204	ug/l #	68
11) Tert butyl alcohol	3.03	59	1063	2.007	ug/l #	90
16) Acetone	2.45	43	3816	3.106	ug/l	100
25) 2-Butanone	4.67	43	465	0.244	ug/l #	62
28) Bromochloromethane	4.99	49	61	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	13075	5.170	ug/l #	50
38) Carbon Tetrachloride	5.66	117	15891	6.916	ug/l #	17
39) Methylcyclohexane	7.45	83	919	0.296	ug/l #	59
49) 1,4-Dioxane	7.70	88	19	0.335	ug/l #	20
55) 1,1,2-Trichloroethane	9.16	97	2999	1.545	ug/l #	21
56) Ethyl methacrylate	9.16	69	977	0.282	ug/l #	52
74) N-ethyl acetate	10.94	43	3265	0.753	ug/l #	72
75) 1,1,2,2-Tetrachloroethane	11.27	83	4803	1.732	ug/l #	37
76) 1,2,3-Trichloropropane	11.13	75	58547	24.670	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	58547	63.121	ug/l #	10
83) tert-Butylbenzene	11.77	119	4856	0.797	ug/l	73
85) sec-Butylbenzene	11.94	105	2317	0.321	ug/l #	57
86) p-Isopropyltoluene	12.23	119	16784	2.584	ug/l	96
89) n-Butylbenzene	12.37	91	1709	0.291	ug/l #	33
90) Hexachloroethane	12.70	117	15817	14.294	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.97	75	378	0.608	ug/l #	2

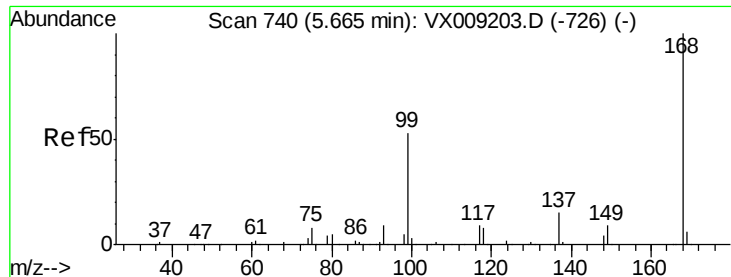
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampleId :

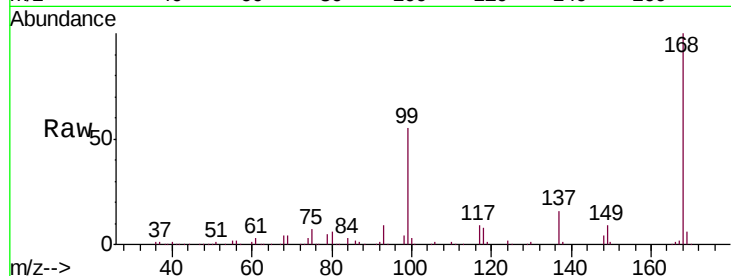
MW-02A_R2

Tgt Ion:168 Resp: 167585

Ion Ratio Lower Upper

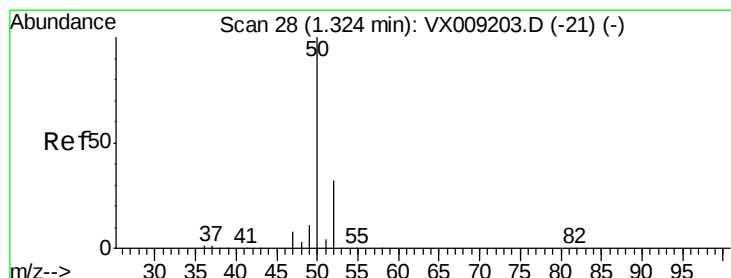
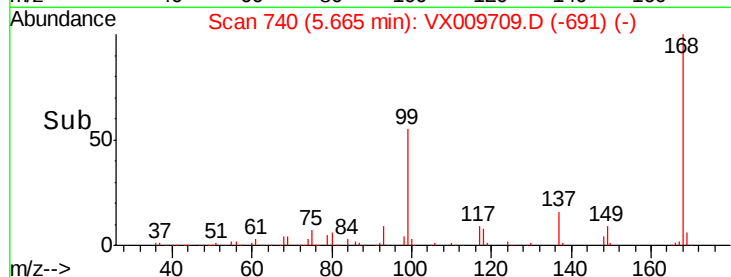
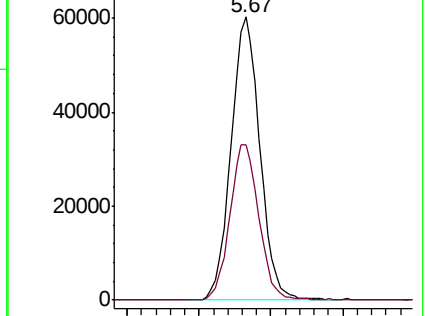
168 100

99 54.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009709.D

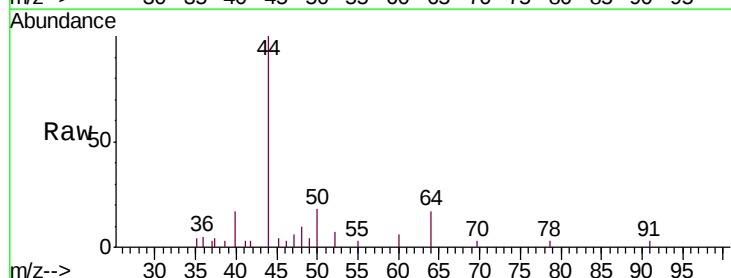
Acq: 18 May 2019 10:56

Tgt Ion: 50 Resp: 560

Ion Ratio Lower Upper

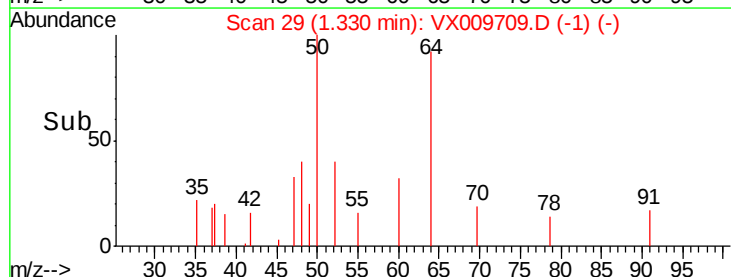
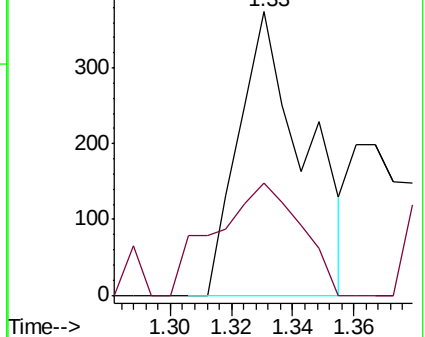
50 100

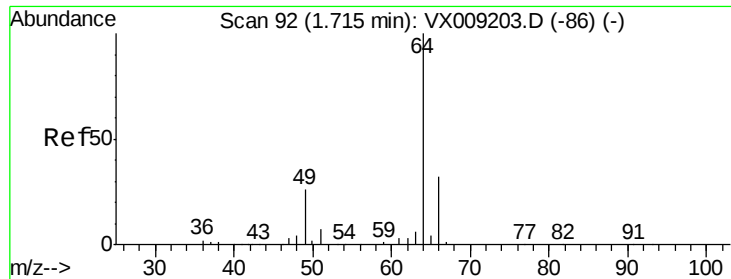
52 39.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.204 ug/l

RT: 1.92 min Scan# 126

Delta R.T. 0.21 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampled :

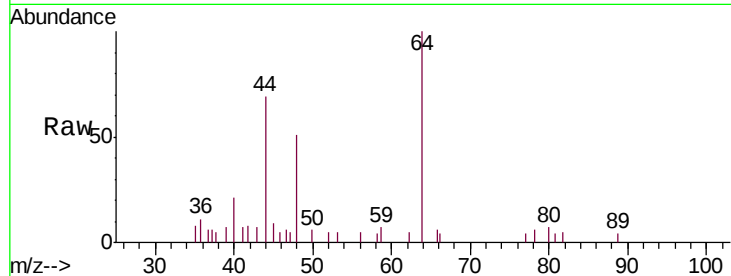
MW-02A_R2

Tgt Ion: 64 Resp: 269

Ion Ratio Lower Upper

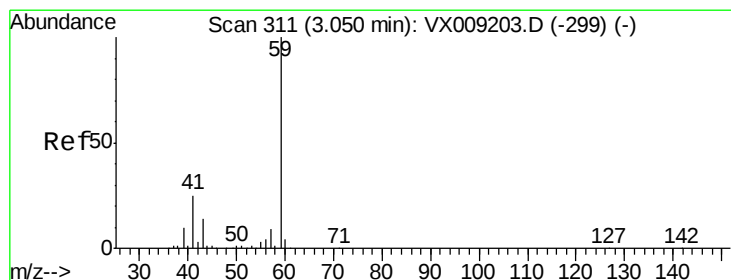
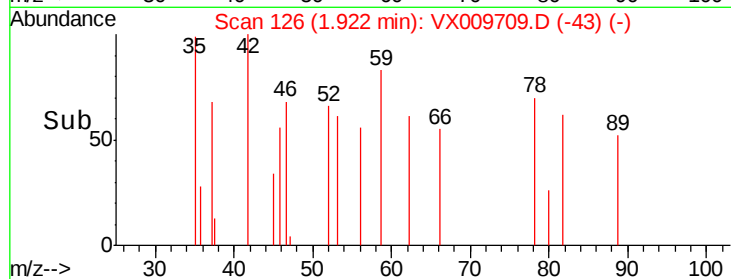
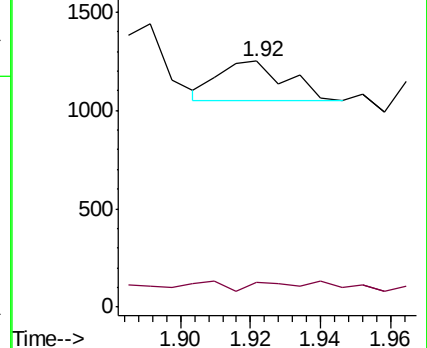
64 100

66 14.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.007 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX009709.D

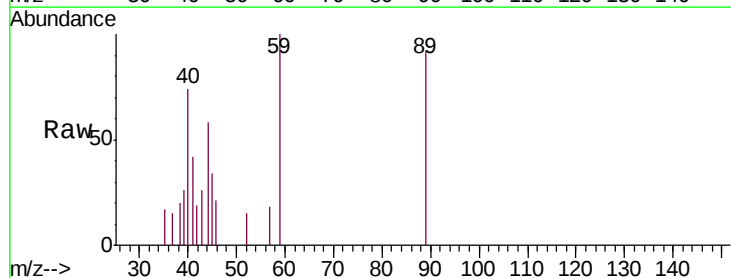
Acq: 18 May 2019 10:56

Tgt Ion: 59 Resp: 1063

Ion Ratio Lower Upper

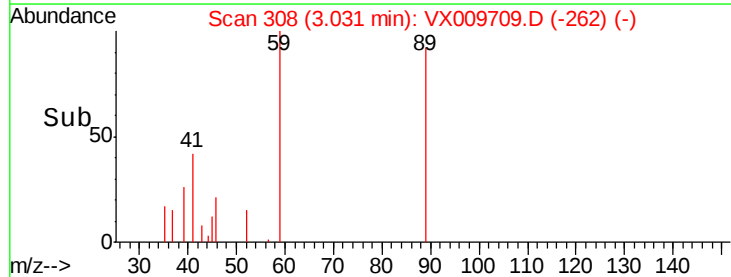
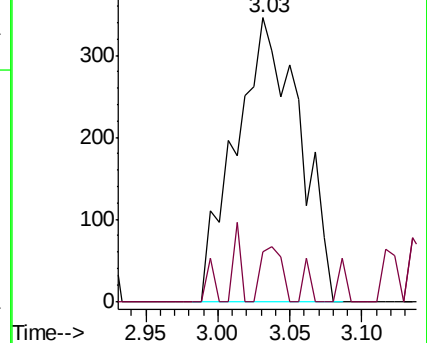
59 100

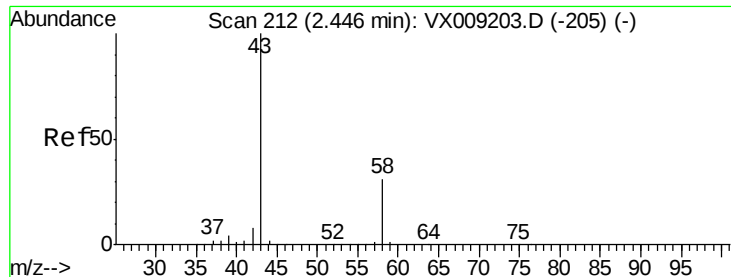
57 6.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 3.106 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampleId :

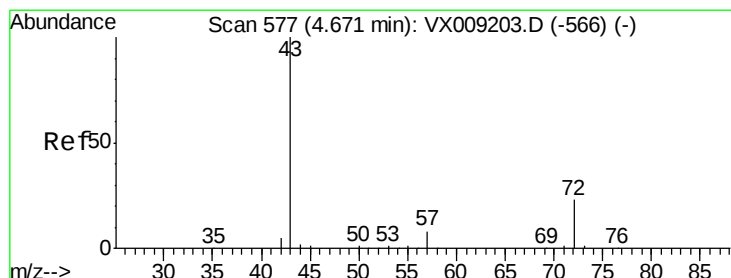
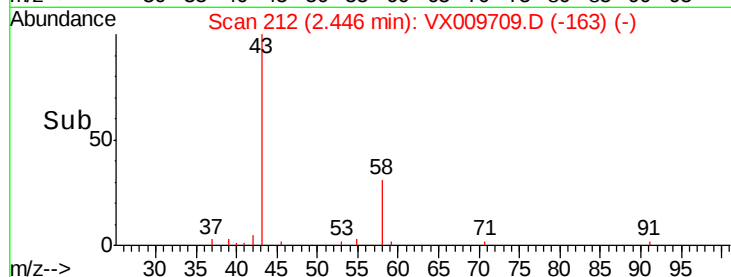
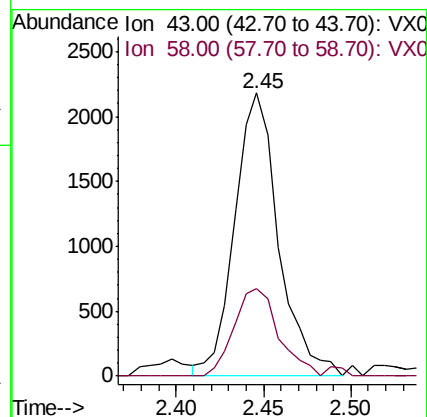
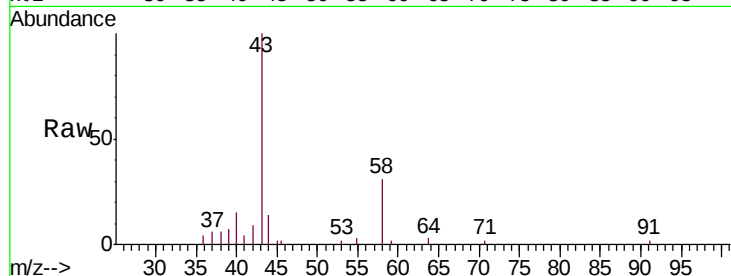
MW-02A_R2

Tgt Ion: 43 Resp: 3816

Ion Ratio Lower Upper

43 100

58 31.1 24.9 37.3



#25

2-Butanone

Concen: 0.244 ug/l

RT: 4.67 min Scan# 577

Delta R.T. -0.00 min

Lab File: VX009709.D

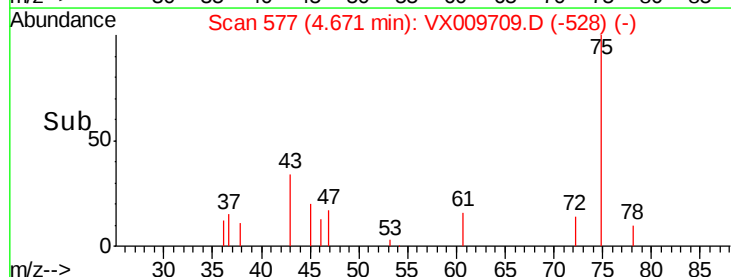
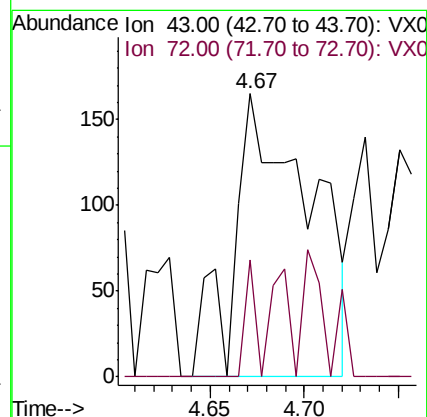
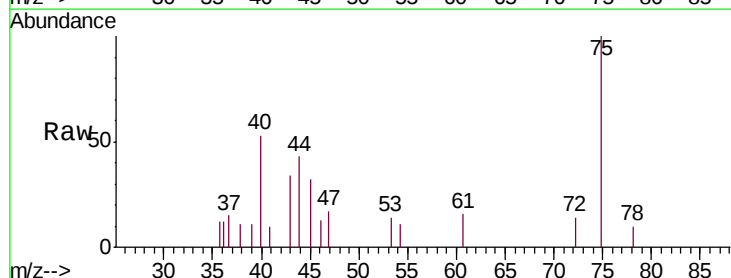
Acq: 18 May 2019 10:56

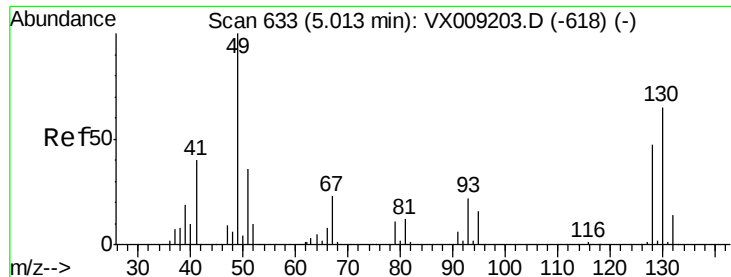
Tgt Ion: 43 Resp: 465

Ion Ratio Lower Upper

43 100

72 41.2 18.2 27.2#





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampleId :

MW-02A_R2

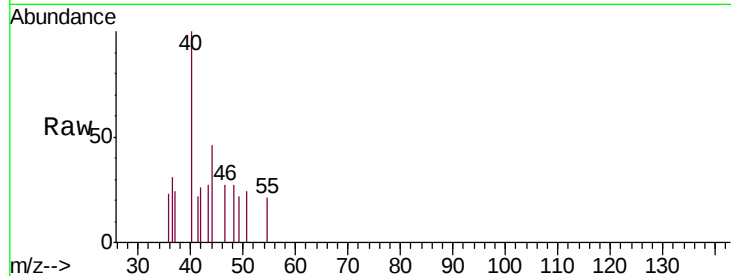
Tgt Ion: 49 Resp: 61

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

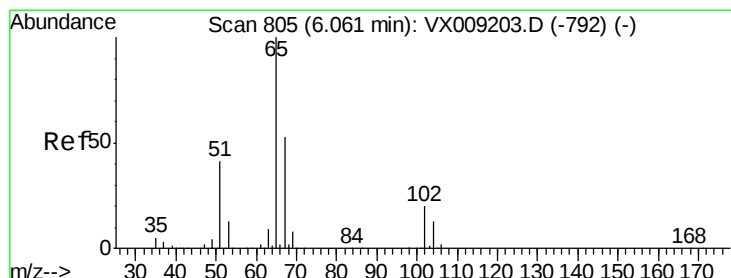
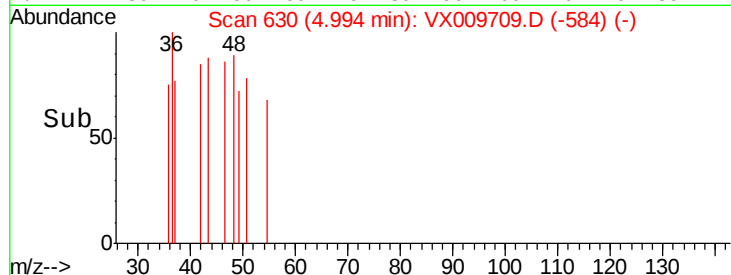
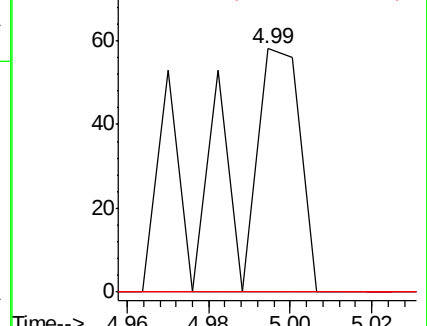
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 50.431 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009709.D

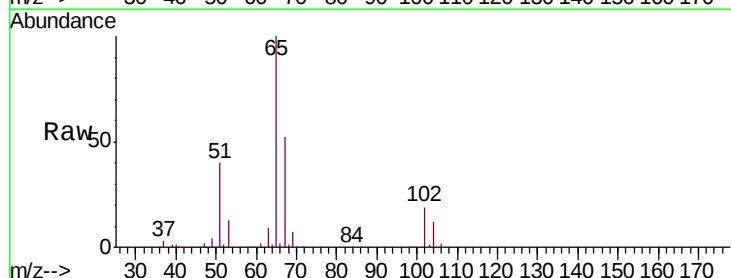
Acq: 18 May 2019 10:56

Tgt Ion: 65 Resp: 115373

Ion Ratio Lower Upper

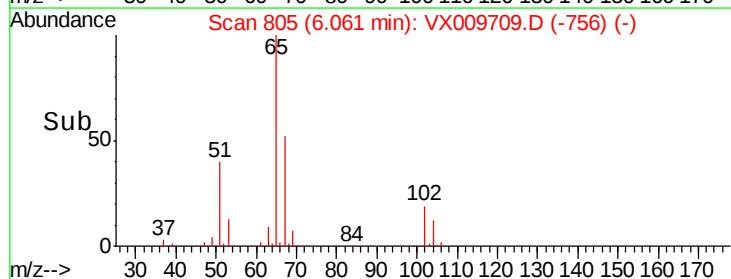
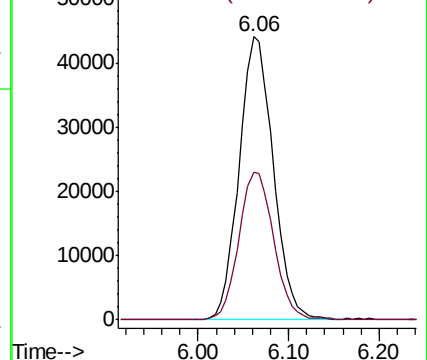
65 100

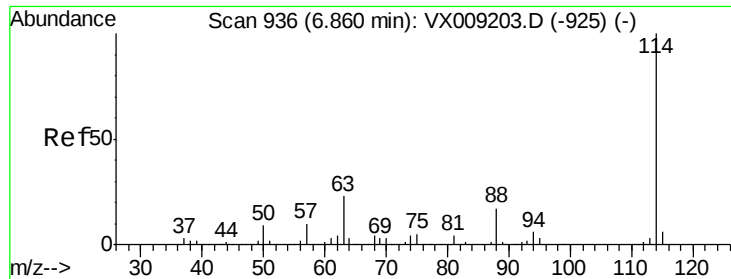
67 53.3 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

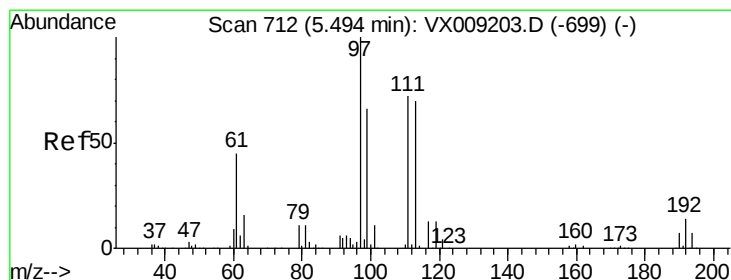
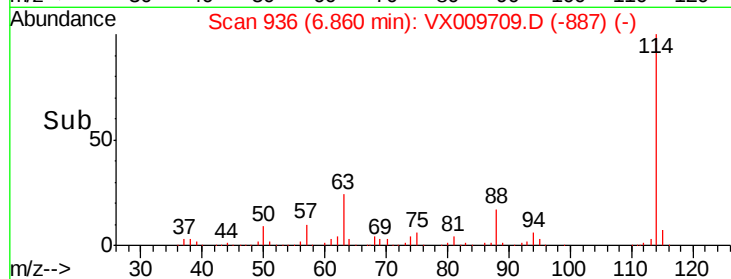
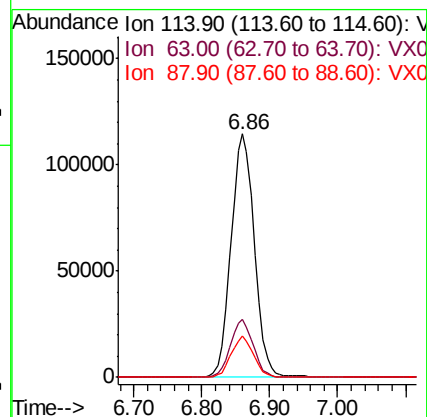
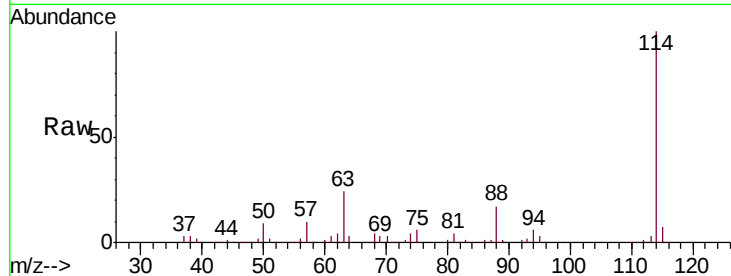




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009709.D
 Acq: 18 May 2019 10:56

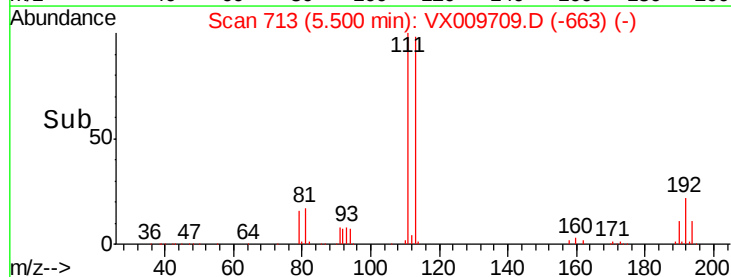
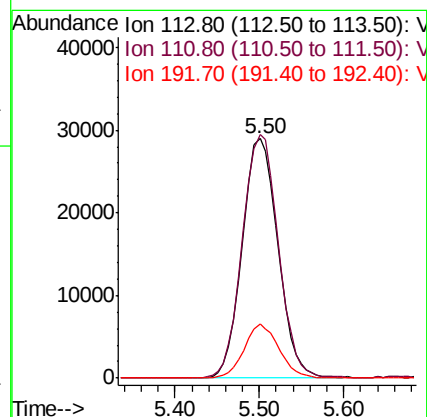
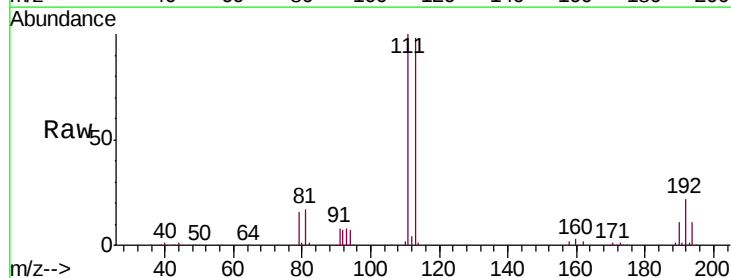
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-02A_R2

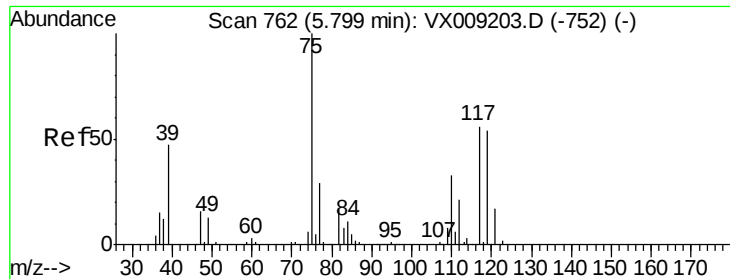
Tgt Ion:114 Resp: 272138
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 45.6
 88 17.0 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.704 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009709.D
 Acq: 18 May 2019 10:56

Tgt Ion:113 Resp: 83322
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 22.1 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.170 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampleId :

MW-02A_R2

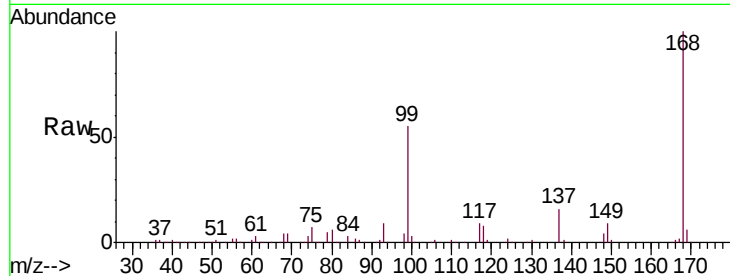
Tgt Ion: 75 Resp: 13075

Ion Ratio Lower Upper

75 100

110 8.4 16.9 50.6#

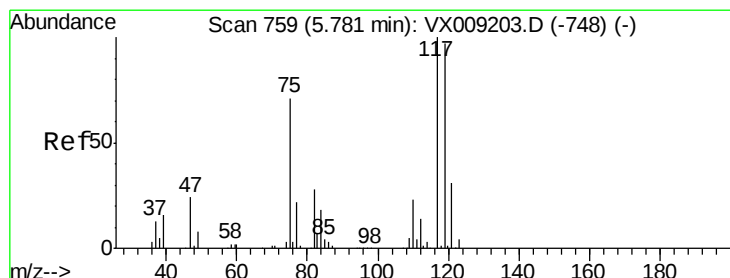
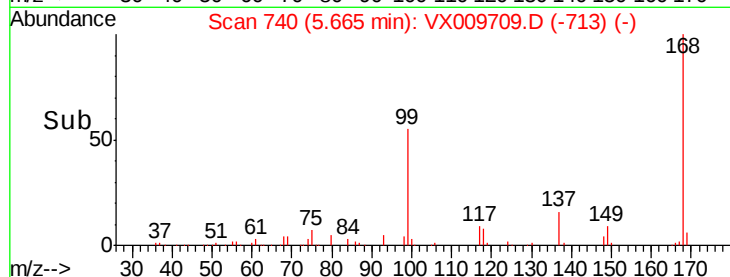
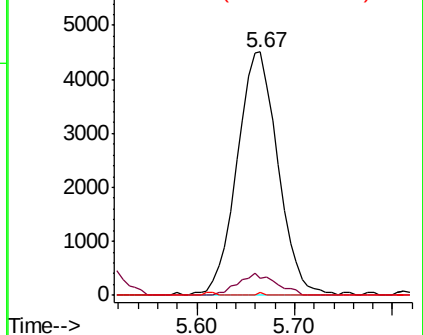
77 0.2 24.8 37.2#



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: 6.916 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

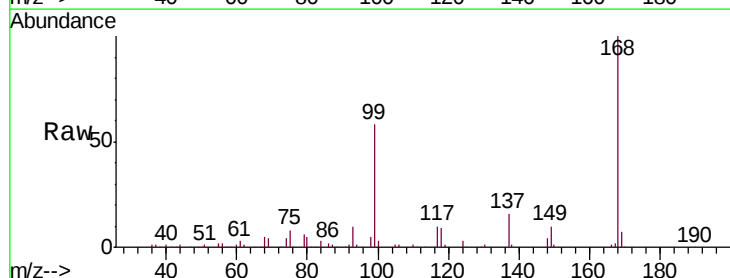
Tgt Ion: 117 Resp: 15891

Ion Ratio Lower Upper

117 100

119 7.3 77.5 116.3#

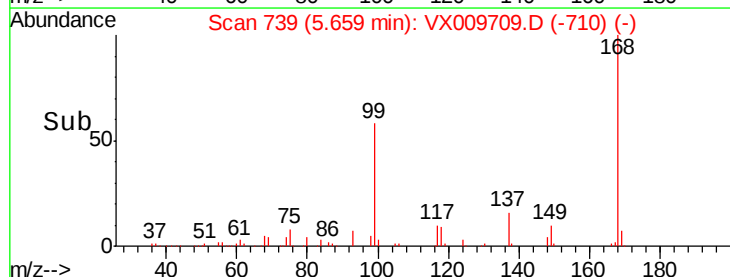
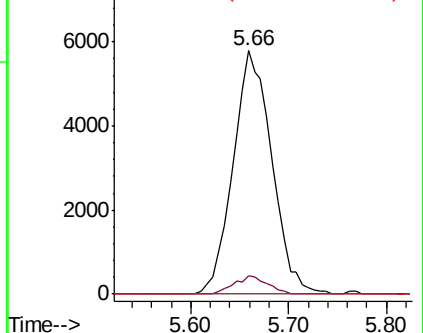
121 0.0 24.7 37.1#

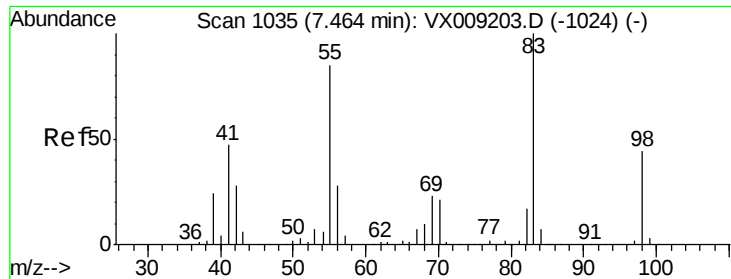


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

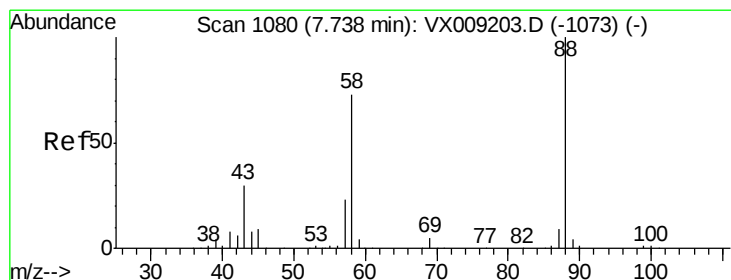
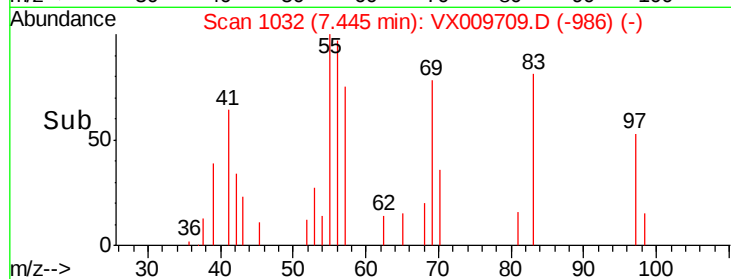
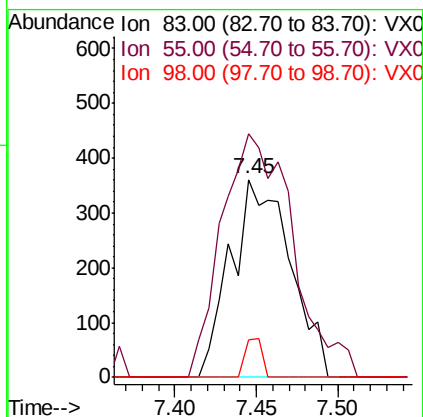
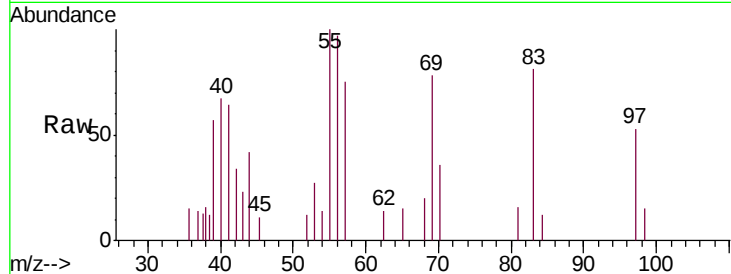




#39
Methylcyclohexane
Concen: 0.296 ug/l
RT: 7.45 min Scan# 1032
Delta R.T. -0.02 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

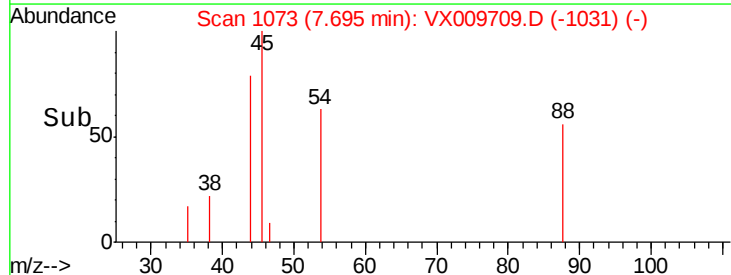
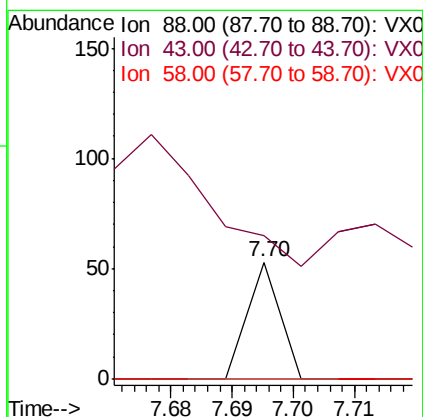
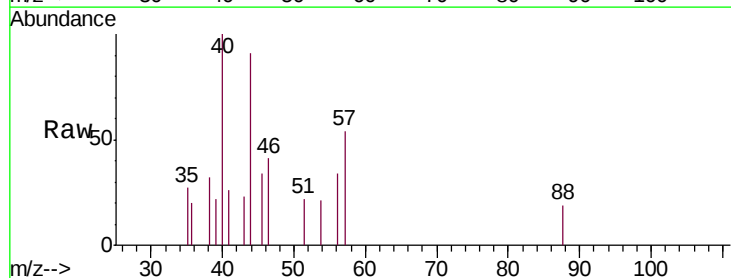
Instrument :
MSVOA_X
ClientSampleId :
MW-02A_R2

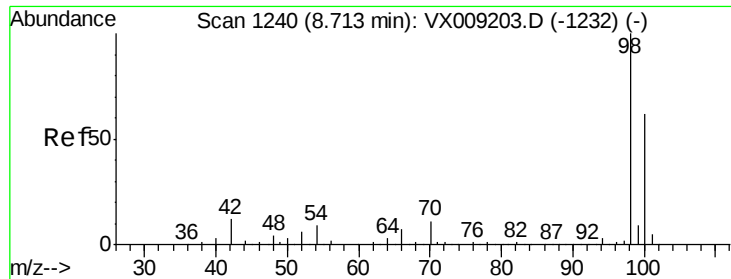
Tgt Ion: 83 Resp: 919
Ion Ratio Lower Upper
83 100
55 123.0 67.7 101.5#
98 18.8 35.5 53.3#



#49
1,4-Dioxane
Concen: 0.335 ug/l
RT: 7.70 min Scan# 1073
Delta R.T. -0.04 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 0.0 61.7 92.5#





#50

Toluene-d8

Concen: 49.034 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampleId :

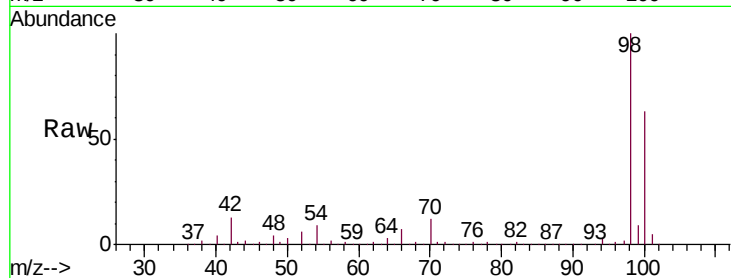
MW-02A_R2

Tgt Ion: 98 Resp: 338667

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

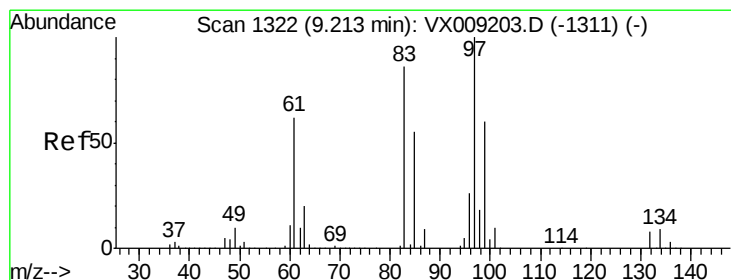
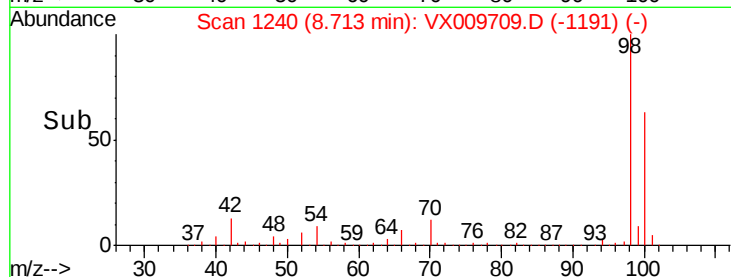
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#55

1,1,2-Trichloroethane

Concen: 1.545 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Tgt Ion: 97 Resp: 2999

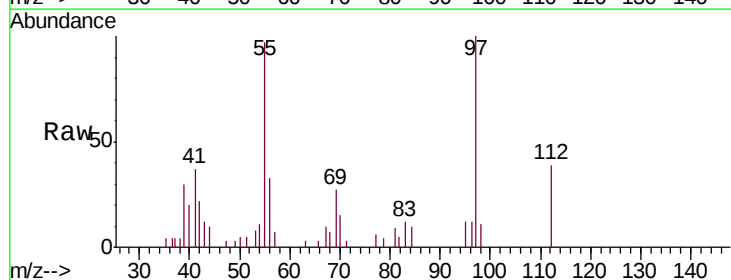
Ion Ratio Lower Upper

97 100

83 11.8 68.9 103.3#

85 0.0 43.8 65.6#

99 0.0 48.2 72.2#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

2500

2000

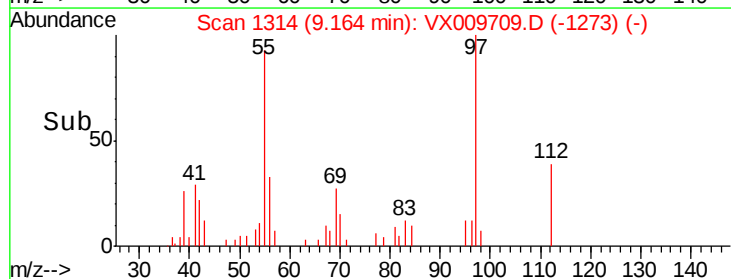
1500

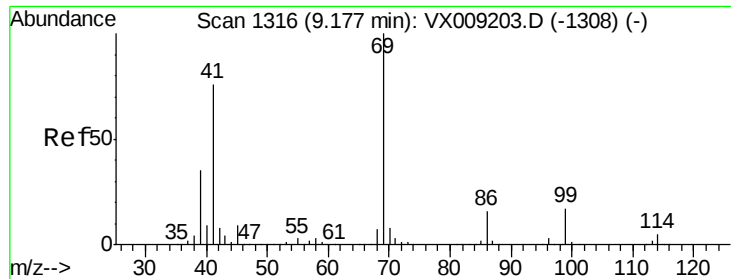
1000

500

0

Time--> 9.10 9.15 9.20

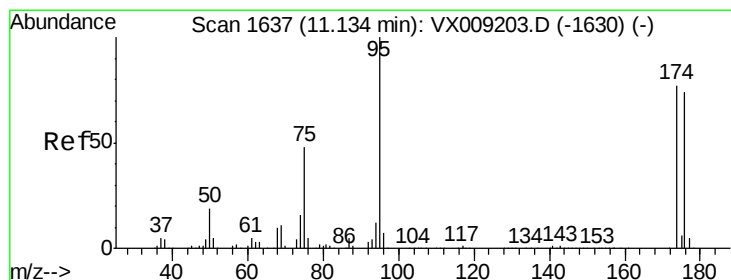
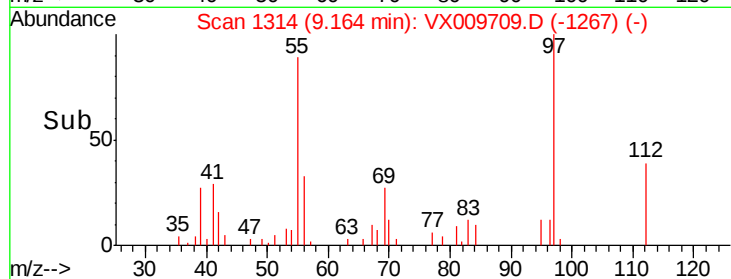
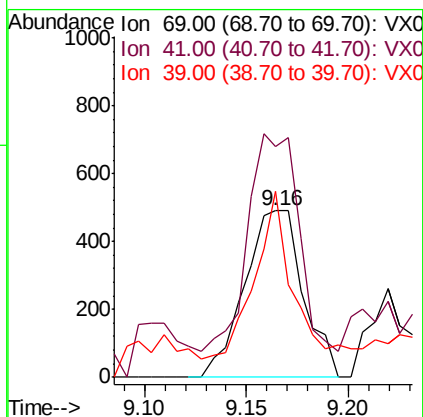
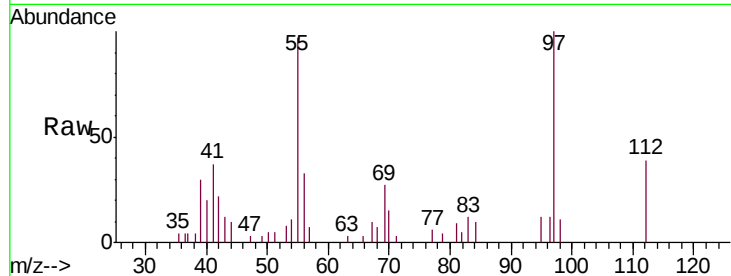




#56
Ethyl methacrylate
Concen: 0.282 ug/l
RT: 9.16 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

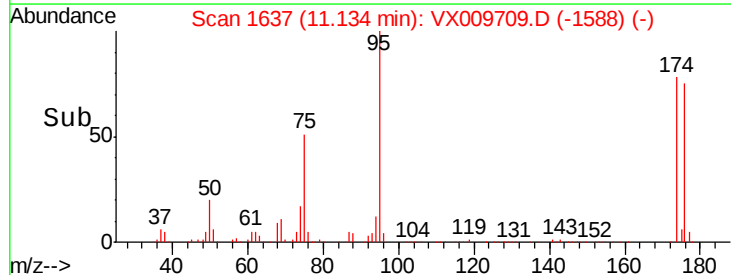
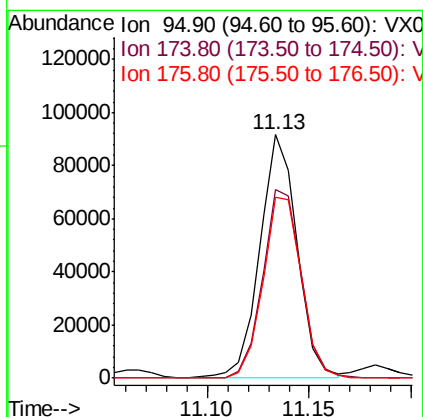
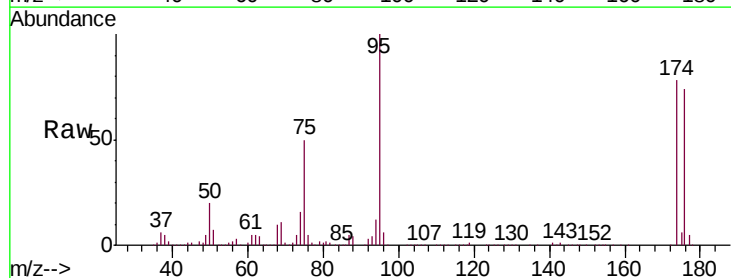
Instrument :
MSVOA_X
ClientSampleId :
MW-02A_R2

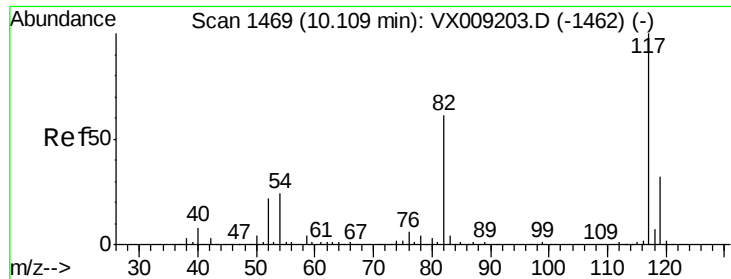
Tgt Ion: 69 Resp: 977
Ion Ratio Lower Upper
69 100
41 111.7 60.6 90.8#
39 71.6 28.2 42.4#



#62
4-Bromofluorobenzene
Concen: 46.186 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

Tgt Ion: 95 Resp: 115912
Ion Ratio Lower Upper
95 100
174 80.4 0.0 161.6
176 77.6 0.0 159.2

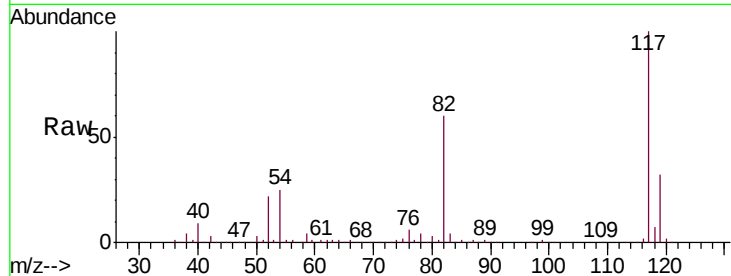




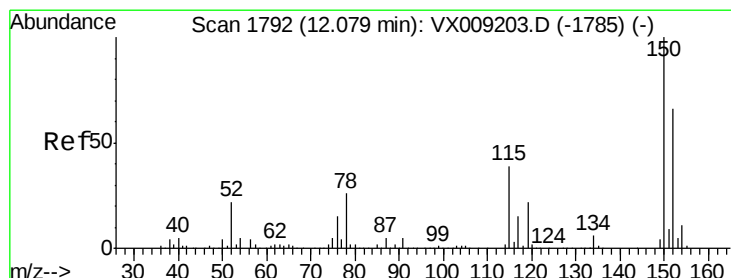
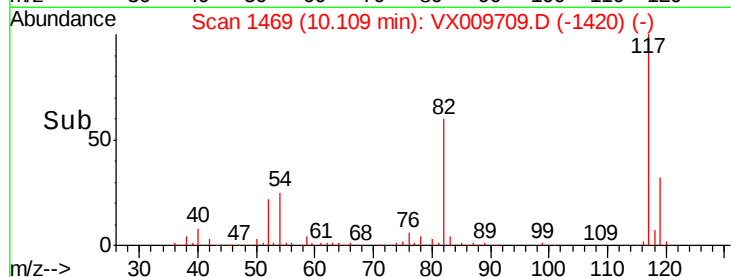
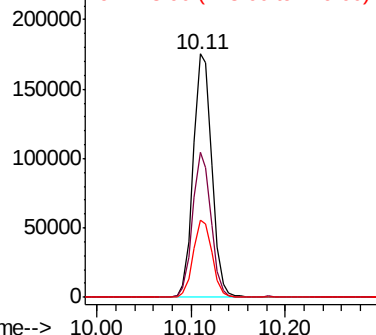
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

Instrument :
MSVOA_X
ClientSampleId :
MW-02A_R2

Tgt Ion:117 Resp: 240085
Ion Ratio Lower Upper
117 100
82 59.8 48.8 73.2
119 31.5 25.8 38.6

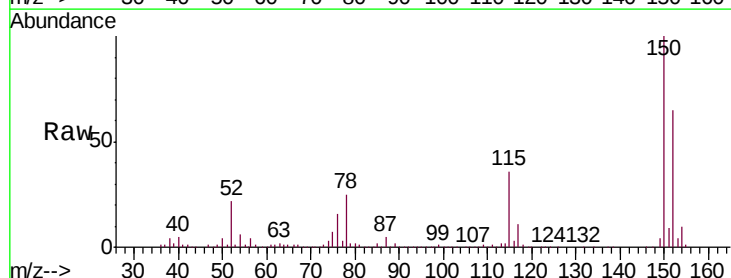


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

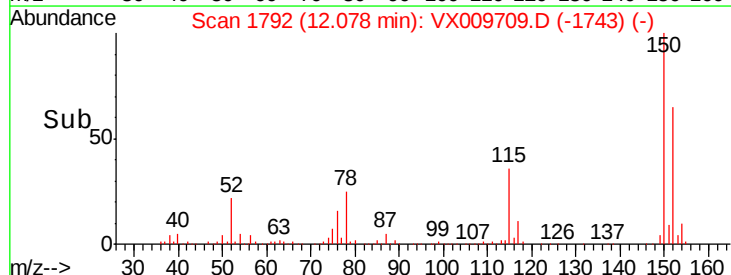
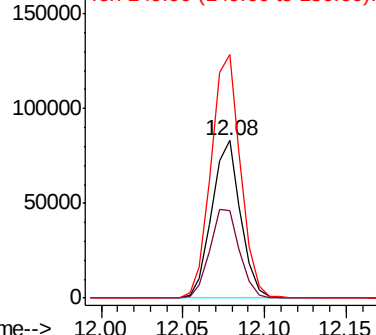


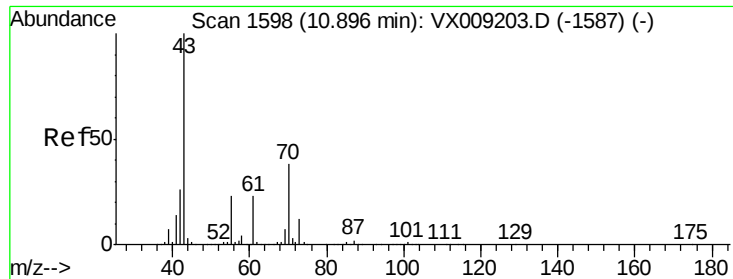
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

Tgt Ion:152 Resp: 102311
Ion Ratio Lower Upper
152 100
115 58.8 41.2 123.6
150 158.2 0.0 346.4



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





#74

N-ethyl acetate

Concen: 0.753 ug/l

RT: 10.94 min Scan# 1606

Delta R.T. 0.05 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

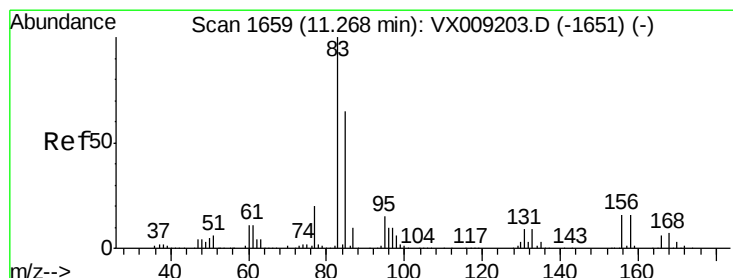
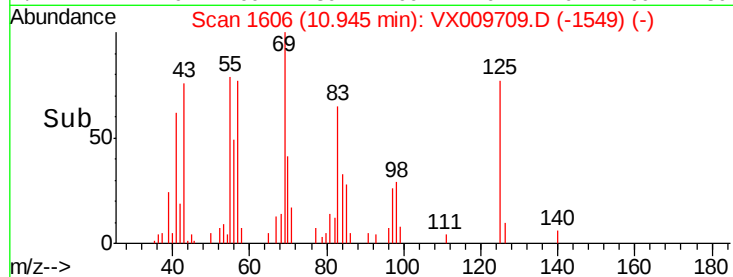
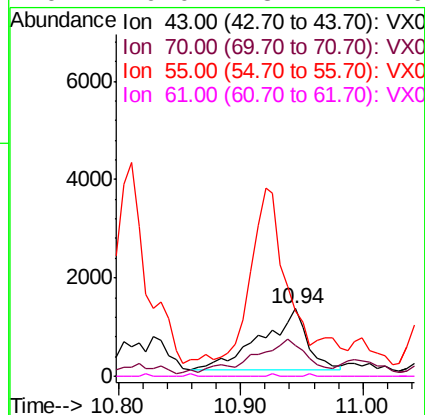
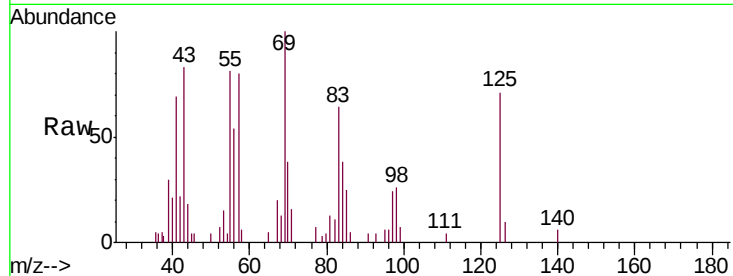
Instrument :

MSVOA_X

ClientSampled :

MW-02A_R2

Tgt Ion:	43	Resp:	3265
Ion	Ratio	Lower	Upper
43	100		
70	40.1	30.0	45.0
55	0.0	17.9	26.9#
61	0.0	18.4	27.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.732 ug/l

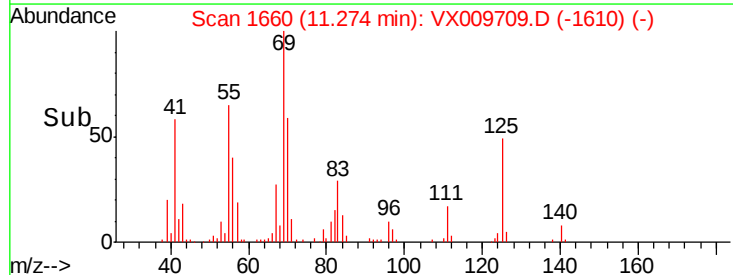
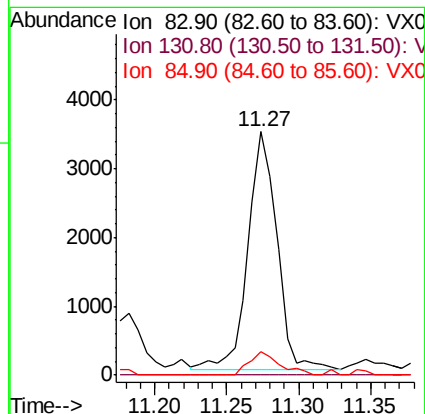
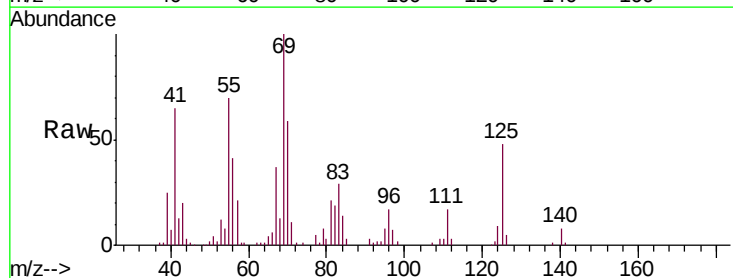
RT: 11.27 min Scan# 1660

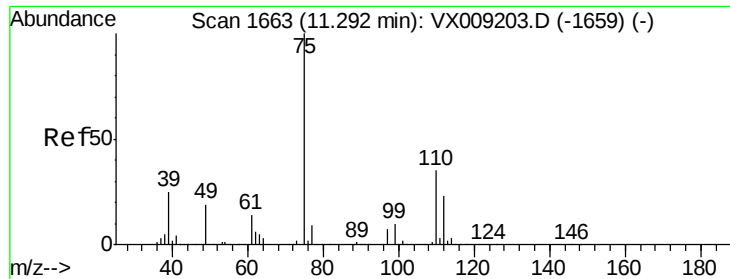
Delta R.T. 0.01 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Tgt Ion:	83	Resp:	4803
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.6	13.8#
85	10.4	32.0	96.2#

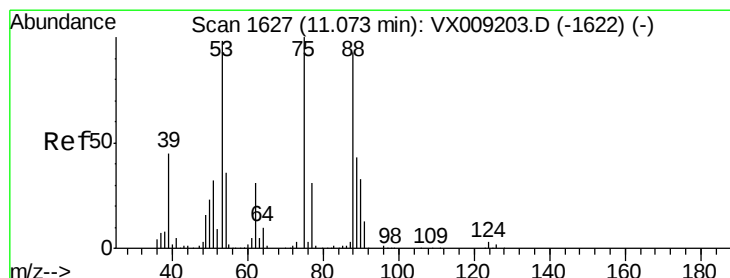
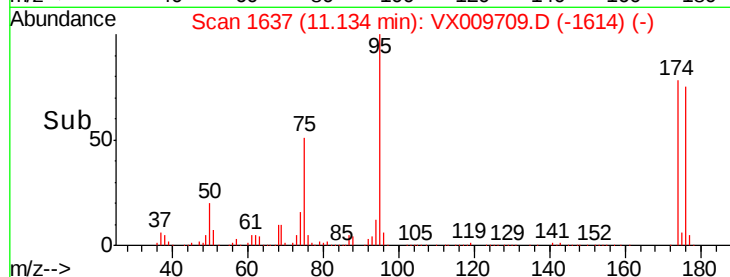
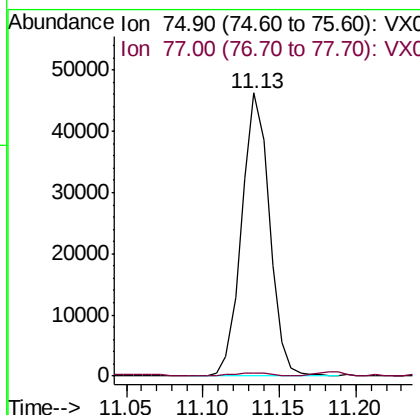
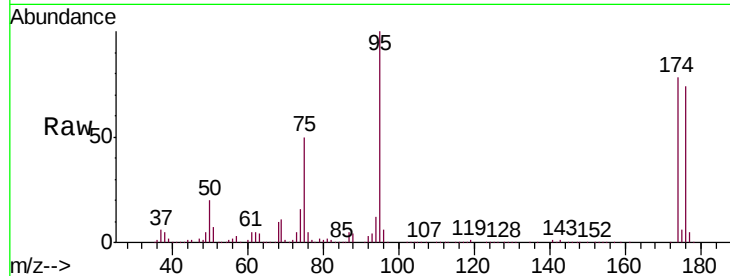




#76
 1,2,3-Trichloropropane
 Concen: 24.670 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009709.D
 Acq: 18 May 2019 10:56

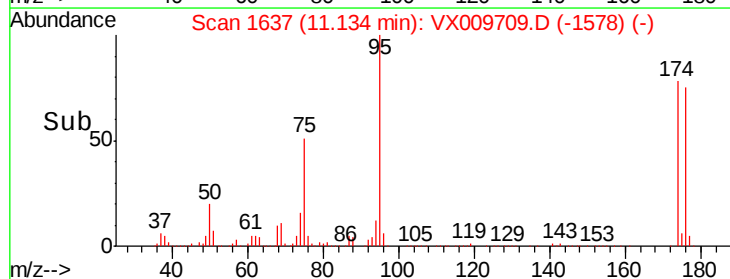
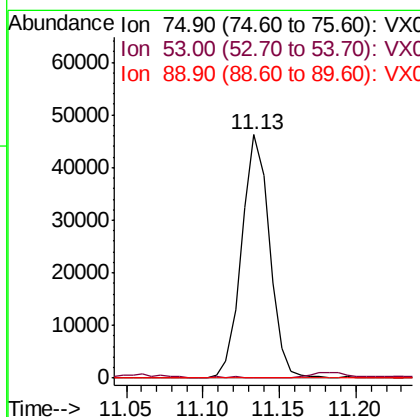
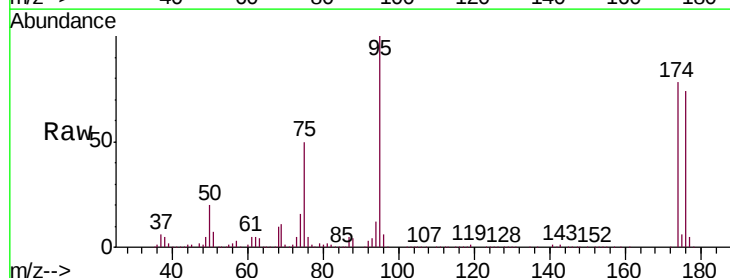
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-02A_R2

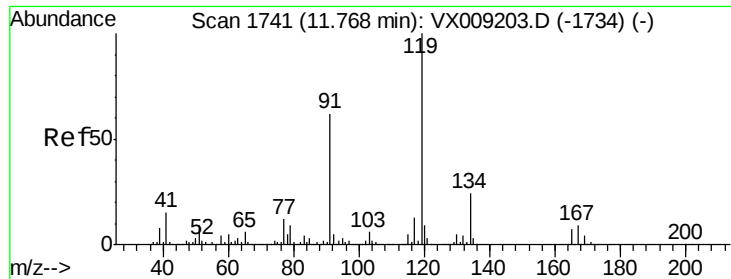
Tgt Ion: 75 Resp: 58547
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.121 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009709.D
 Acq: 18 May 2019 10:56

Tgt Ion: 75 Resp: 58547
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.0 118.6#
 89 0.0 34.7 52.1#

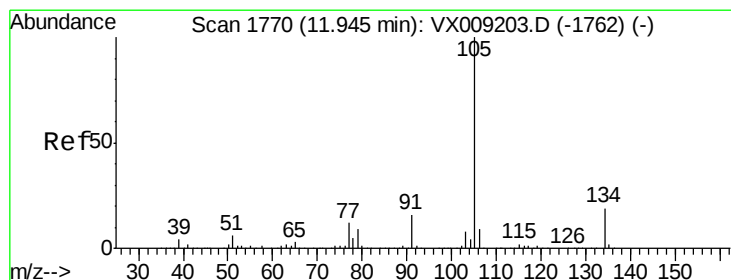
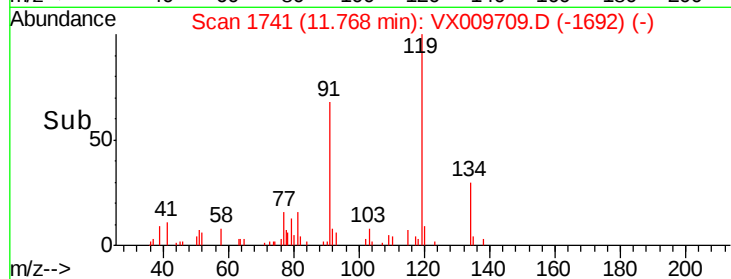
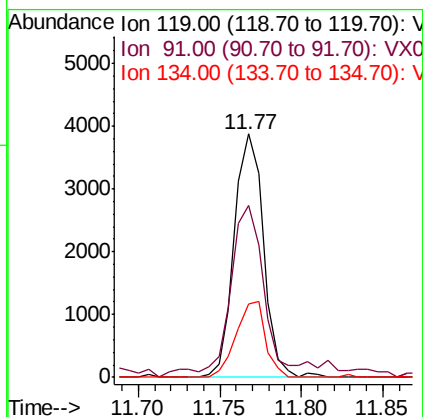
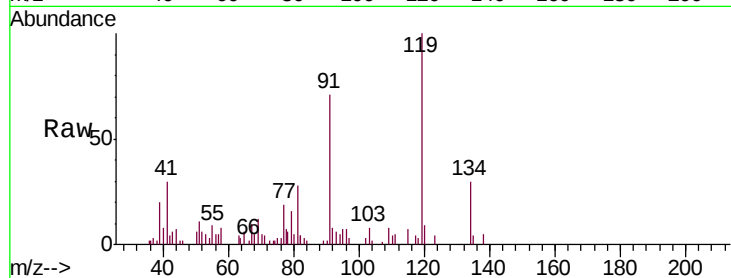




#83
tert-Butylbenzene
Concen: 0.797 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

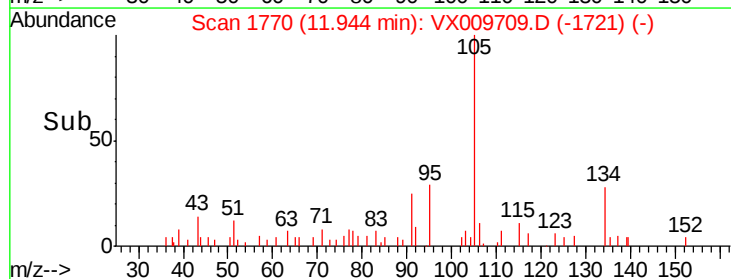
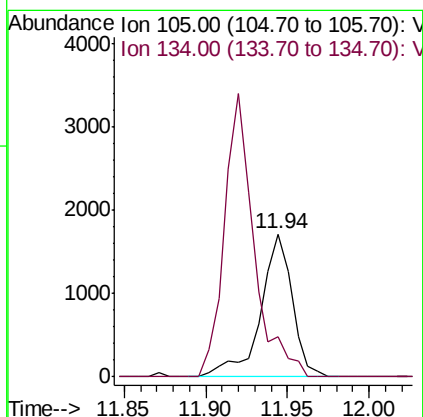
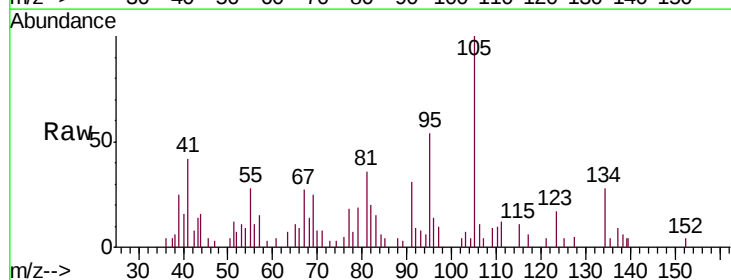
Instrument :
MSVOA_X
ClientSampled :
MW-02A_R2

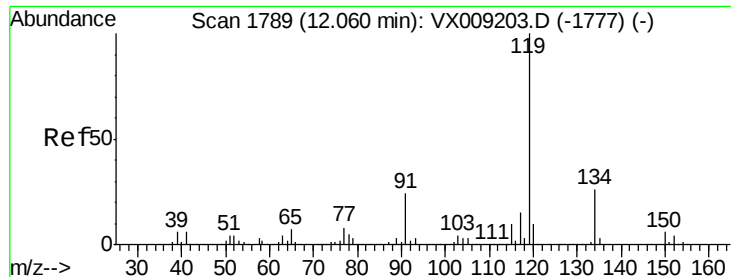
Tgt Ion	Ratio	Lower	Upper
119	100		
91	82.4	29.5	88.5
134	31.3	11.4	34.1



#85
sec-Butylbenzene
Concen: 0.321 ug/l
RT: 11.94 min Scan# 1770
Delta R.T. -0.00 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	9.7	28.9#

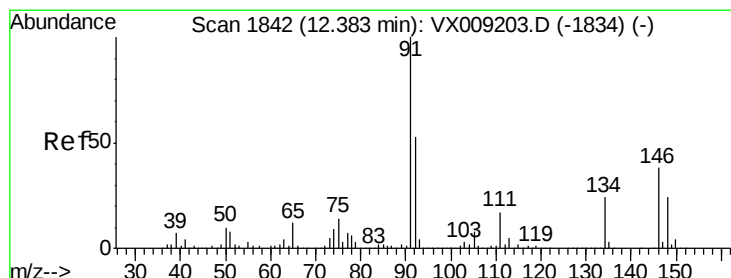
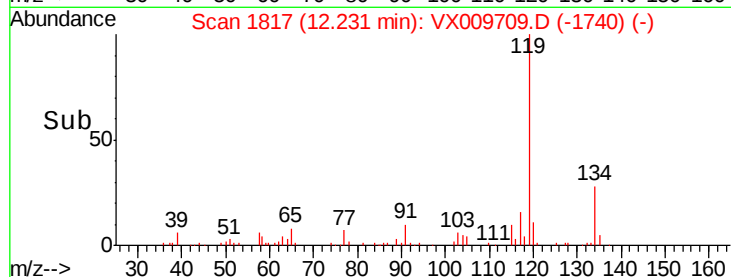
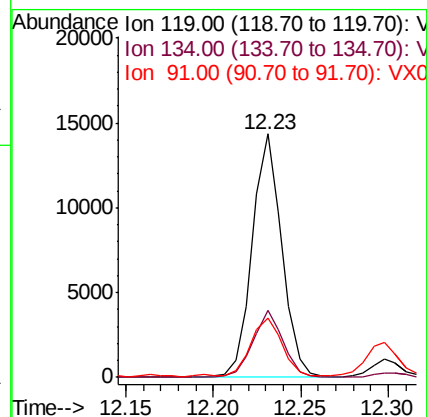
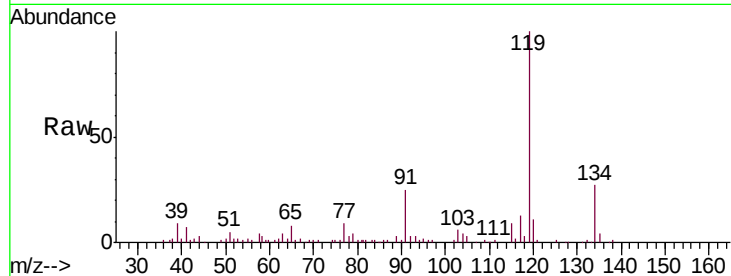




#86
p-Isopropyltoluene
Concen: 2.584 ug/l
RT: 12.23 min Scan# 1817
Delta R.T. 0.17 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

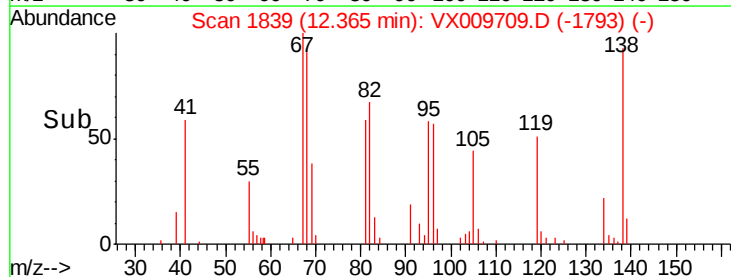
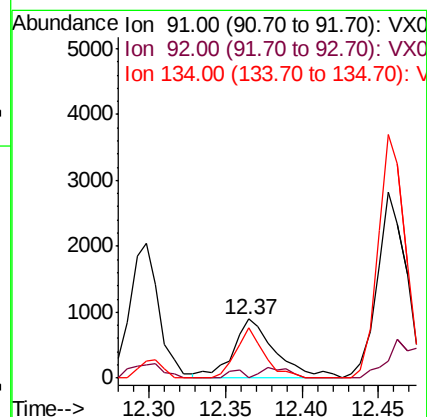
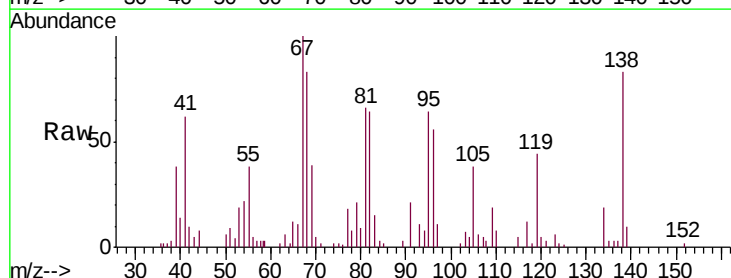
Instrument :
MSVOA_X
ClientSampleId :
MW-02A_R2

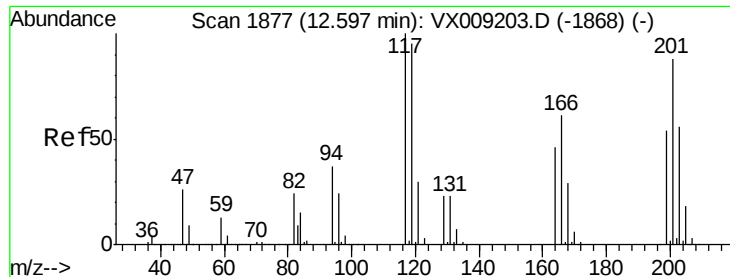
Tgt Ion: 119 Resp: 16784
Ion Ratio Lower Upper
119 100
134 27.9 12.9 38.7
91 25.4 11.8 35.4



#89
n-Butylbenzene
Concen: 0.291 ug/l
RT: 12.37 min Scan# 1839
Delta R.T. -0.02 min
Lab File: VX009709.D
Acq: 18 May 2019 10:56

Tgt Ion: 91 Resp: 1709
Ion Ratio Lower Upper
91 100
92 4.7 26.5 79.5#
134 57.1 12.4 37.2#





#90

Hexachloroethane

Concen: 14.294 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

Instrument :

MSVOA_X

ClientSampled :

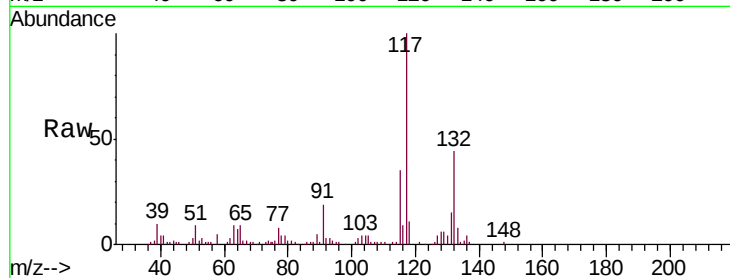
MW-02A_R2

Tgt Ion:117 Resp: 15817

Ion Ratio Lower Upper

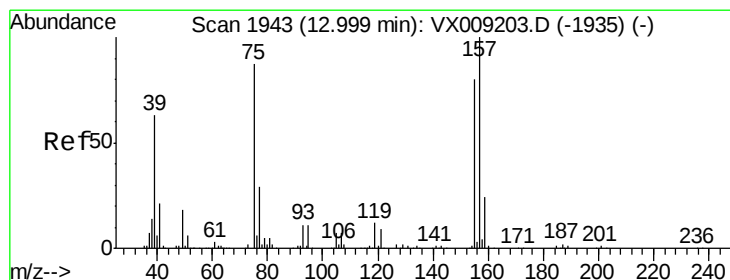
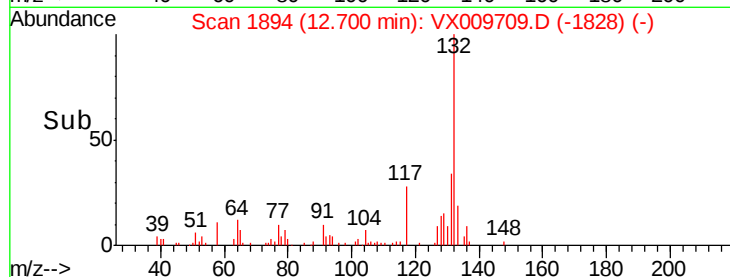
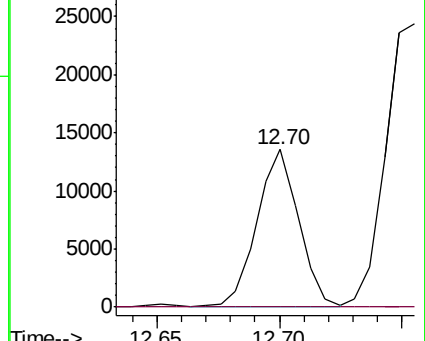
117 100

201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.608 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX009709.D

Acq: 18 May 2019 10:56

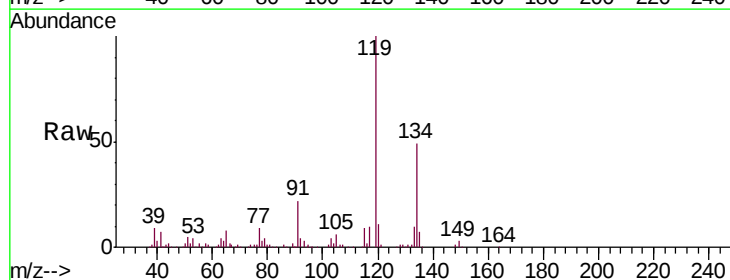
Tgt Ion: 75 Resp: 378

Ion Ratio Lower Upper

75 100

155 0.0 42.0 126.0#

157 0.0 53.2 159.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

