

Data File : VX009710.D
Acq On : 18 May 2019 11:20
Operator : JC/SP
Sample : K2901-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 64 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-04A_R2

Quant Time: May 20 04:18:33 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	170352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	274624	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	100398	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	116932	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
35) Dibromofluoromethane	5.50	113	85269	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	8.71	98	346846	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.13	95	112706	44.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.00%	

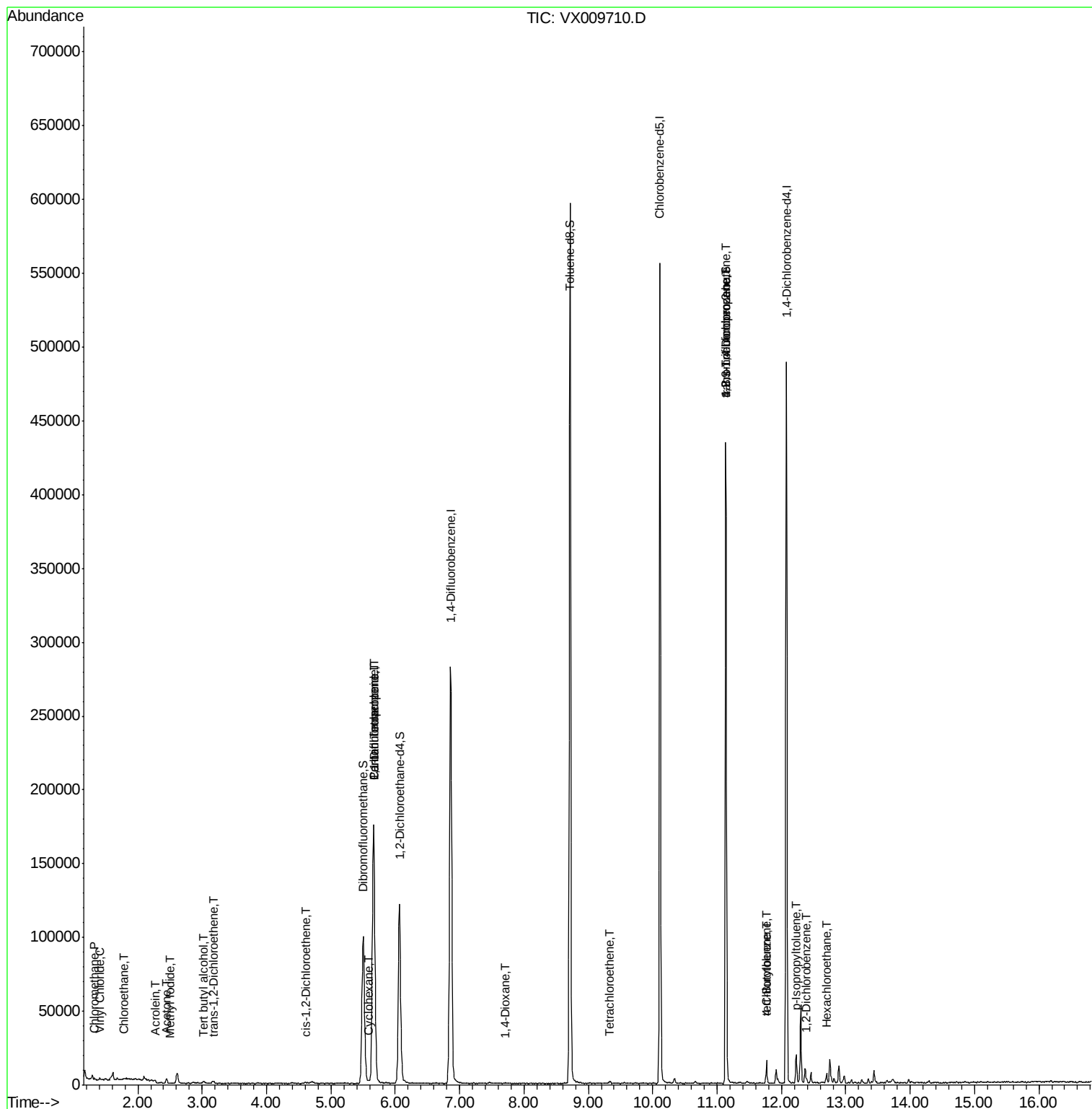
Target Compounds				Qvalue		
3) Chloromethane	1.33	50	755	0.352	ug/l	90
4) Vinyl Chloride	1.41	62	753	0.360	ug/l #	75
6) Chloroethane	1.79	64	1863	1.388	ug/l #	43
10) Methyl Iodide	2.51	142	49	4.618	ug/l #	42
11) Tert butyl alcohol	3.02	59	1268	2.356	ug/l #	87
13) Acrolein	2.28	56	130	0.267	ug/l #	18
16) Acetone	2.45	43	3587	2.873	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	600	0.346	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	472	0.228	ug/l	60
28) Bromochloromethane	4.99	49	27	Below Cal	#	20
31) Cyclohexane	5.59	56	965	0.281	ug/l #	76
36) 1,1-Dichloropropene	5.66	75	13366	5.237	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15616	6.735	ug/l #	16
49) 1,4-Dioxane	7.70	88	21	0.367	ug/l #	1
64) Tetrachloroethene	9.33	164	334	0.203	ug/l #	78
76) 1,2,3-Trichloropropane	11.13	75	57132	24.532	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	57132	62.769	ug/l #	10
82) 4-Chlorotoluene	11.77	91	3422	0.589	ug/l #	46
83) tert-Butylbenzene	11.77	119	5015	0.839	ug/l	87
86) p-Isopropyltoluene	12.23	119	7757	1.217	ug/l	97
90) Hexachloroethane	12.69	117	2041	1.880	ug/l #	7
91) 1,2-Dichlorobenzene	12.39	146	886	0.269	ug/l	86

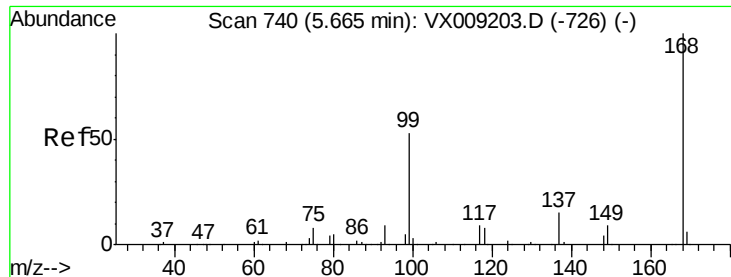
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampleId :

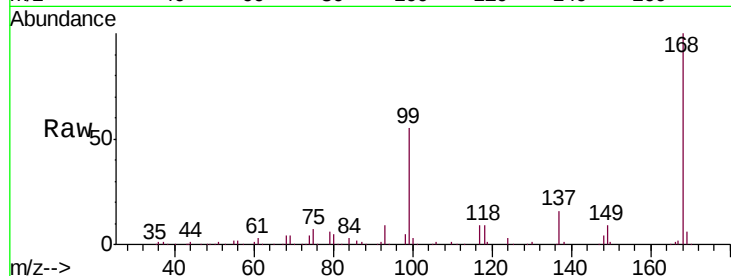
MW-04A_R2

Tgt Ion:168 Resp: 170352

Ion Ratio Lower Upper

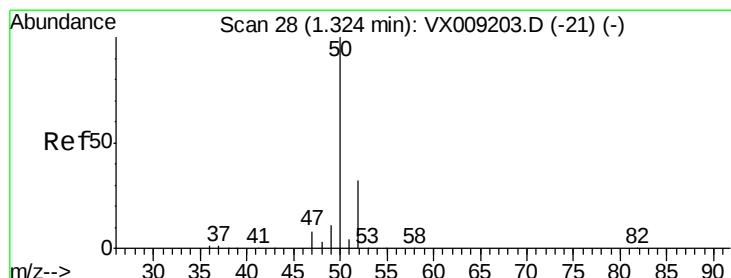
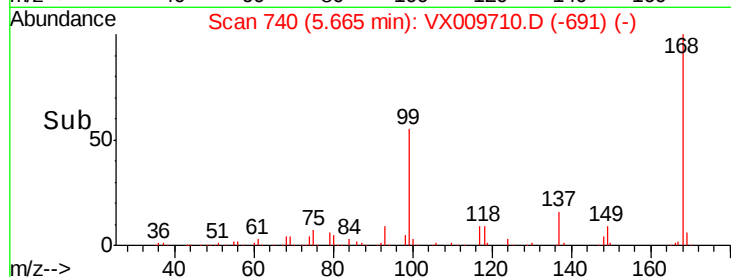
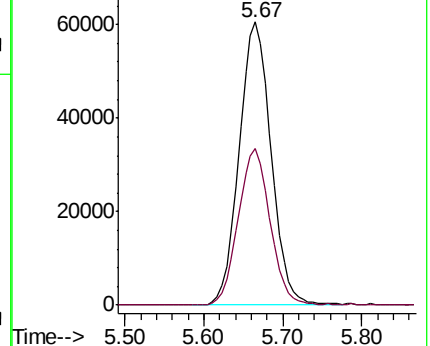
168 100

99 55.4 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: 0.352 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009710.D

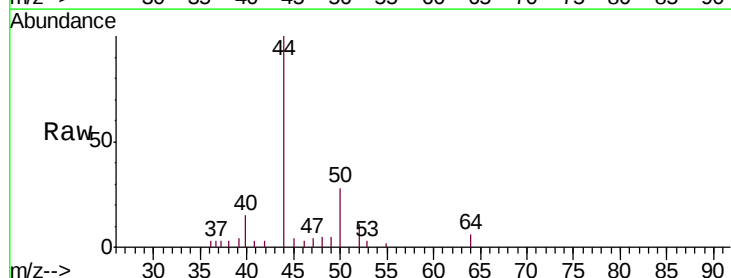
Acq: 18 May 2019 11:20

Tgt Ion: 50 Resp: 755

Ion Ratio Lower Upper

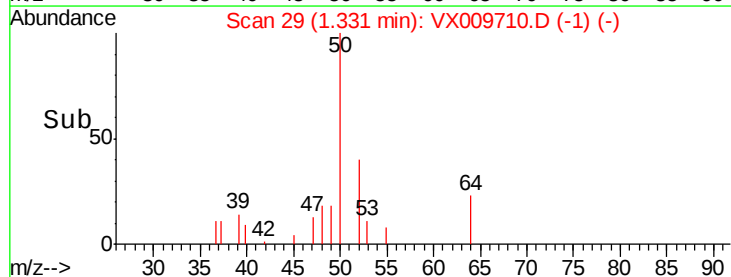
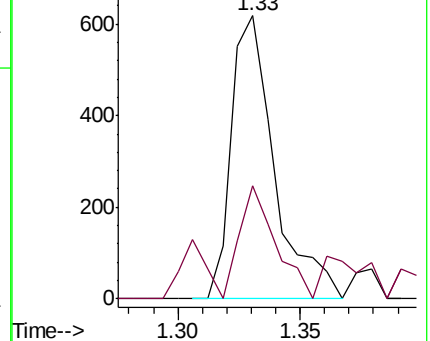
50 100

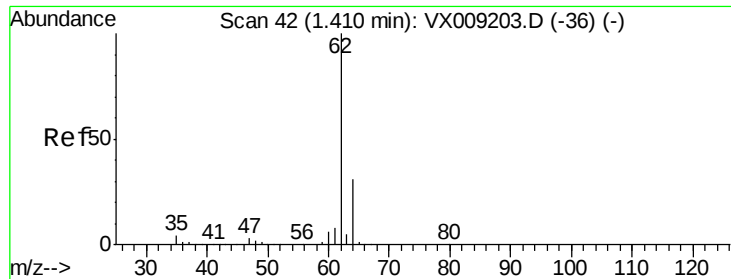
52 26.5 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.360 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampled :

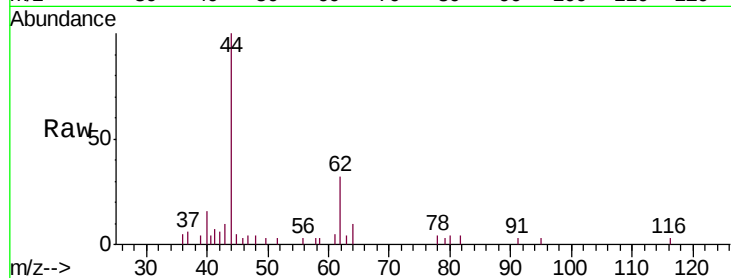
MW-04A_R2

Tgt Ion: 62 Resp: 753

Ion Ratio Lower Upper

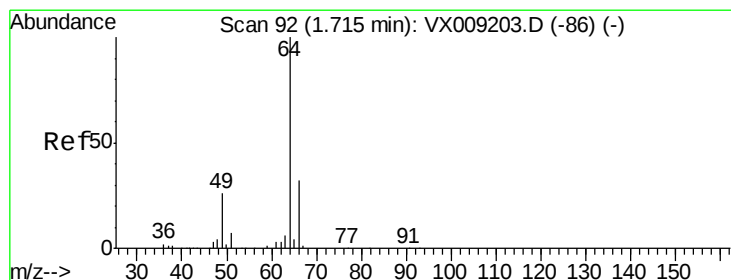
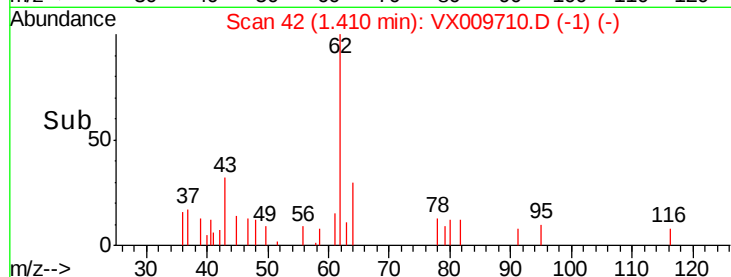
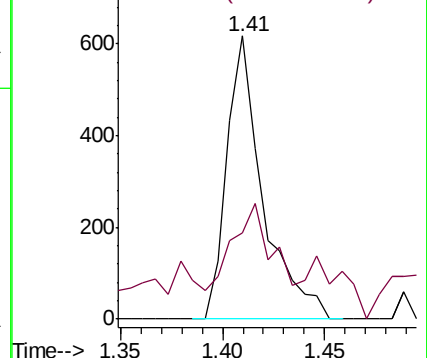
62 100

64 16.9 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 1.388 ug/l

RT: 1.79 min Scan# 104

Delta R.T. 0.07 min

Lab File: VX009710.D

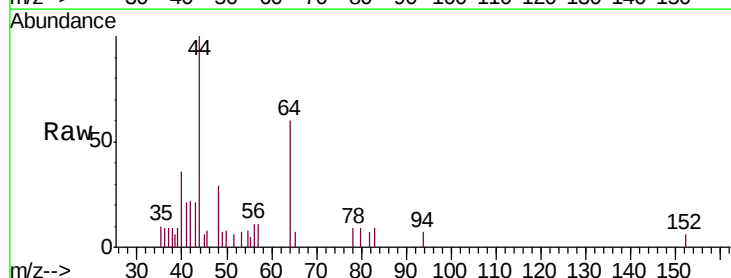
Acq: 18 May 2019 11:20

Tgt Ion: 64 Resp: 1863

Ion Ratio Lower Upper

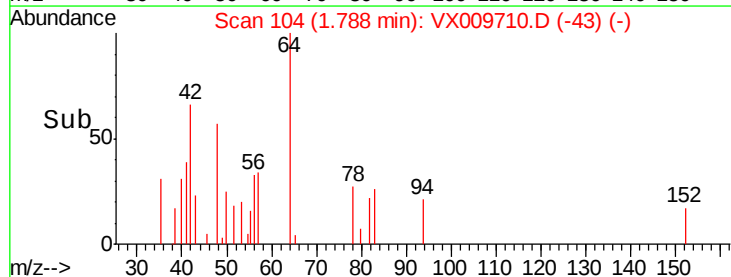
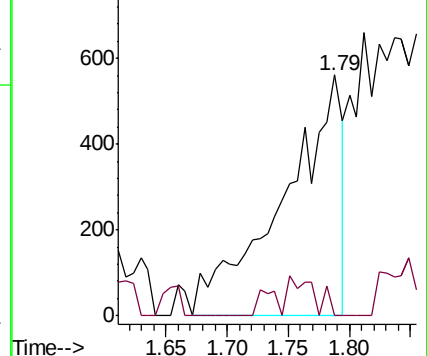
64 100

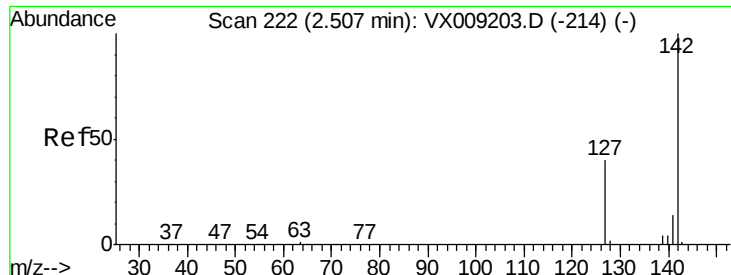
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

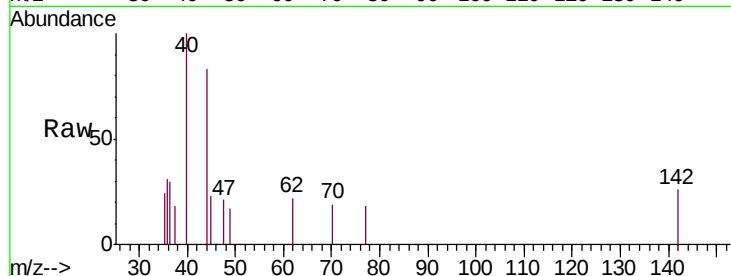




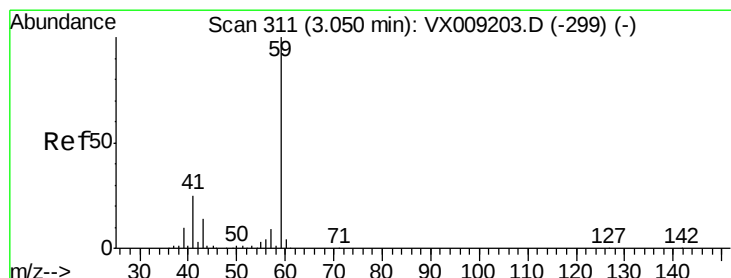
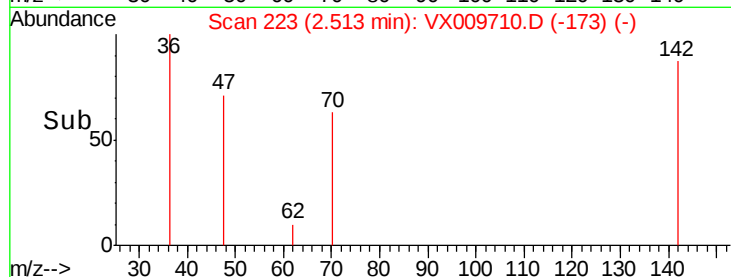
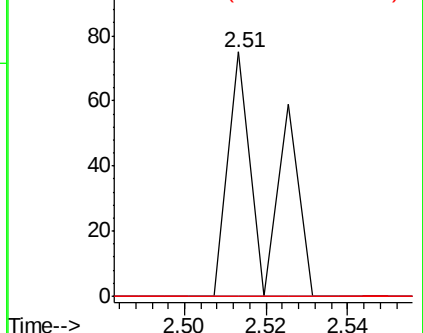
#10
Methyl Iodide
Concen: 4.618 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Instrument :
MSVOA_X
ClientSampleId :
MW-04A_R2

Tgt Ion: 142 Resp: 49
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

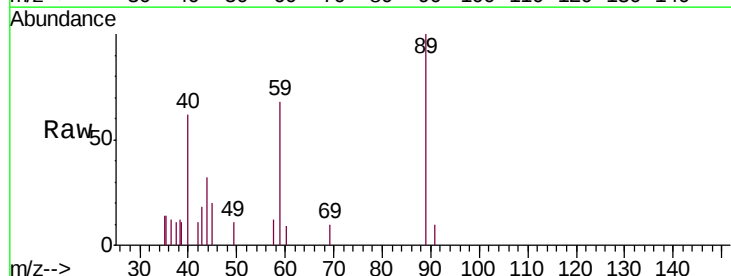


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

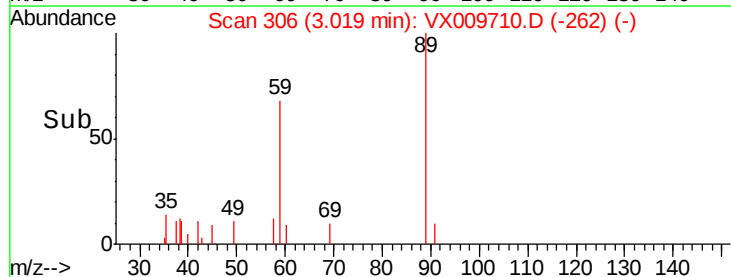
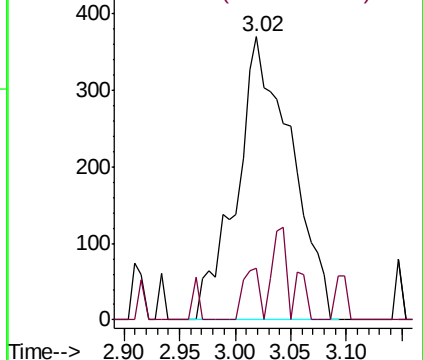


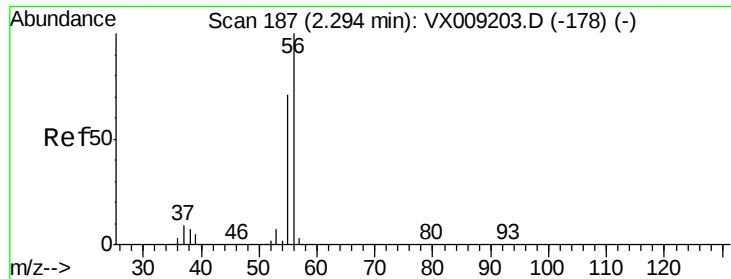
#11
Tert butyl alcohol
Concen: 2.356 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Tgt Ion: 59 Resp: 1268
Ion Ratio Lower Upper
59 100
57 5.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.267 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampleId :

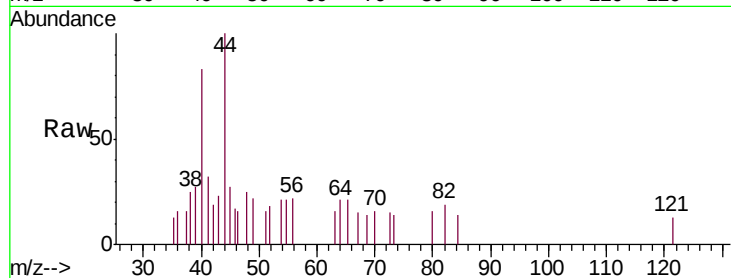
MW-04A_R2

Tgt Ion: 56 Resp: 130

Ion Ratio Lower Upper

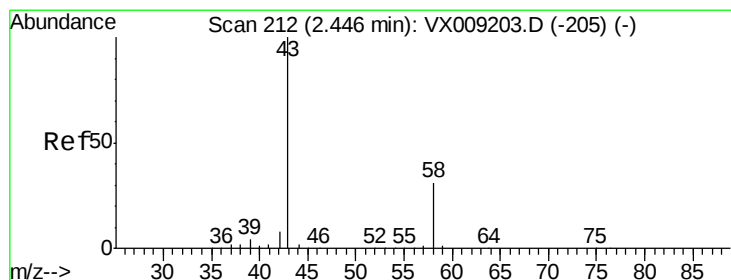
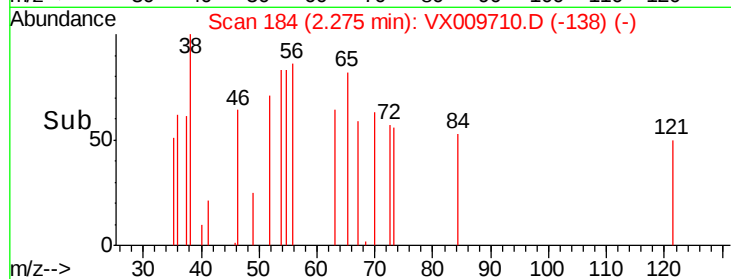
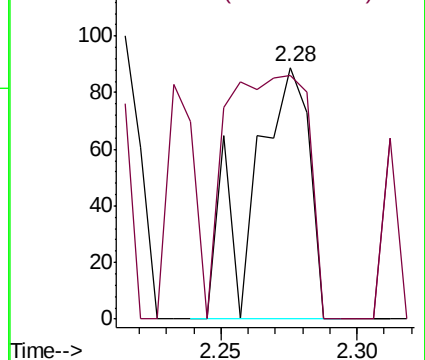
56 100

55 138.5 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.873 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009710.D

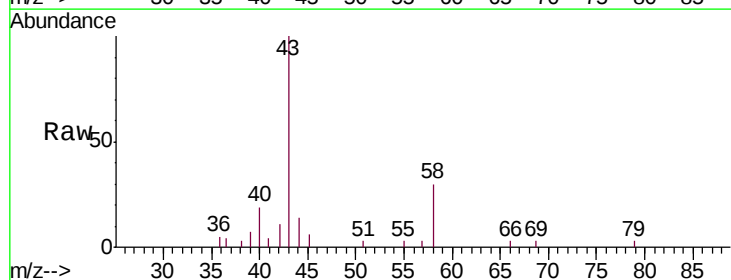
Acq: 18 May 2019 11:20

Tgt Ion: 43 Resp: 3587

Ion Ratio Lower Upper

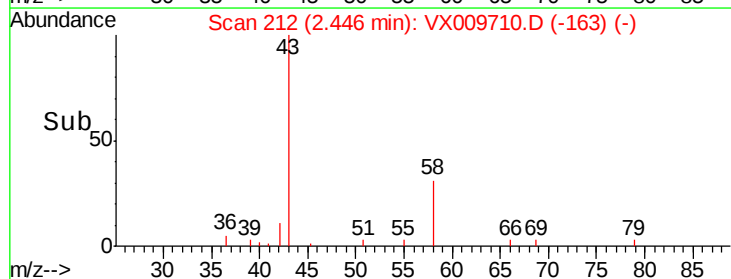
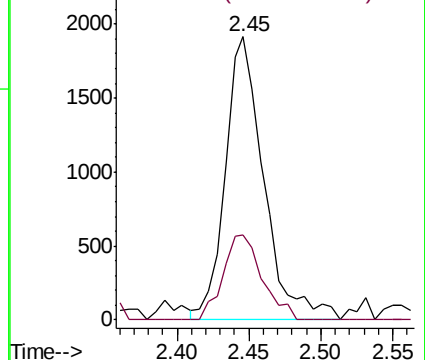
43 100

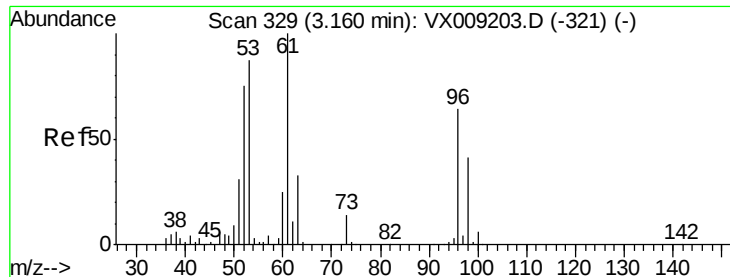
58 29.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.346 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampled :

MW-04A_R2

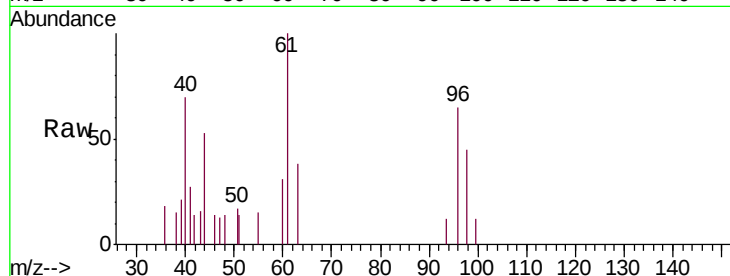
Tgt Ion: 96 Resp: 600

Ion Ratio Lower Upper

96 100

61 154.7 124.5 186.7

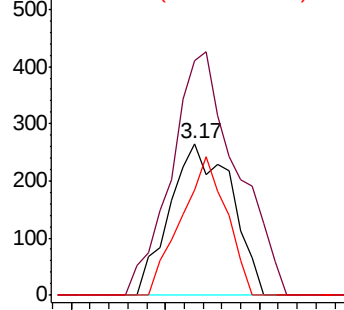
98 69.8 50.4 75.6



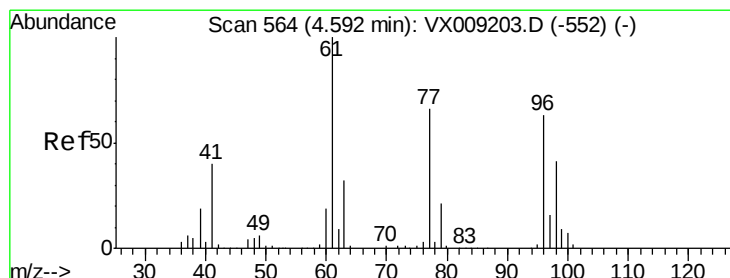
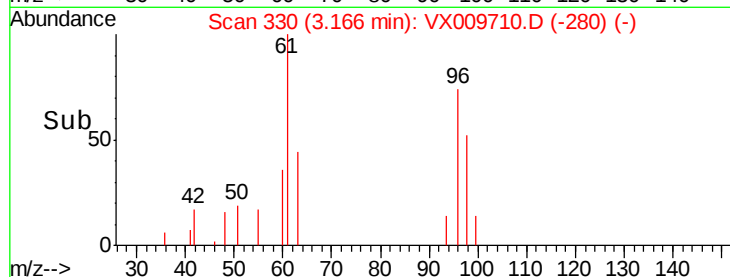
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.228 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

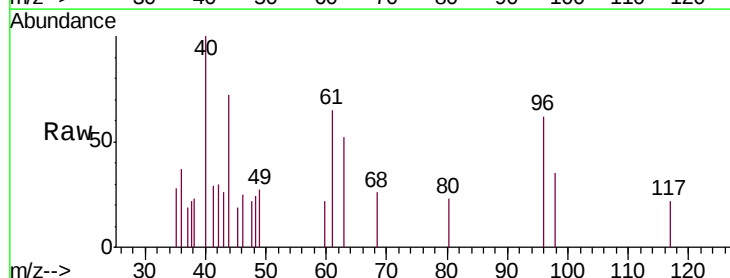
Tgt Ion: 96 Resp: 472

Ion Ratio Lower Upper

96 100

61 104.7 0.0 324.0

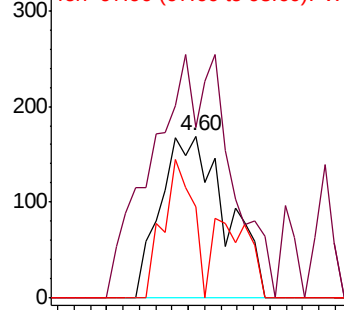
98 38.8 0.0 130.4



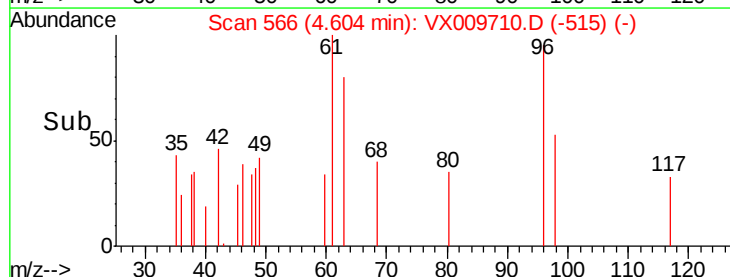
Abundance Ion 95.90 (95.60 to 96.60): VX0

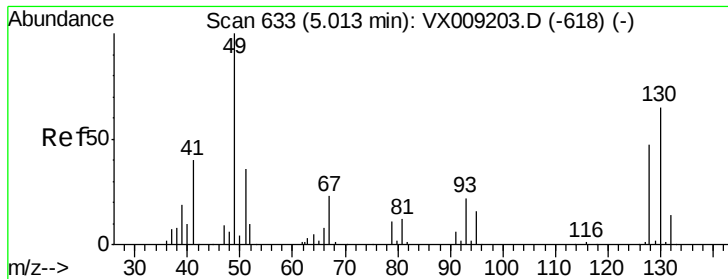
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 629

Delta R.T. -0.02 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

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ClientSampleId :

MW-04A_R2

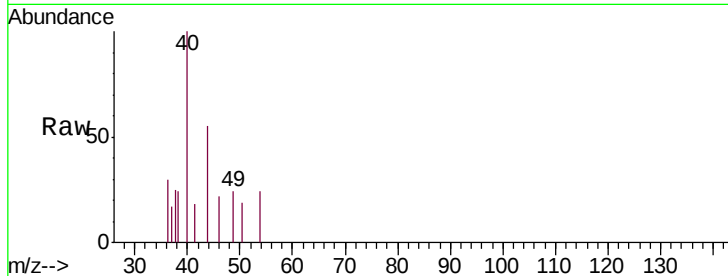
Tgt Ion: 49 Resp: 27

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

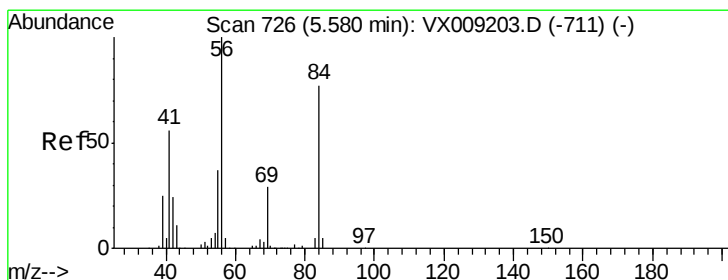
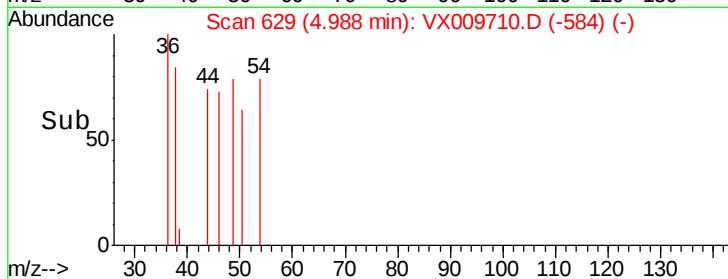
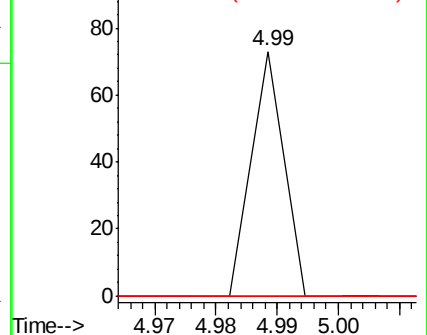
130 0.0 51.2 76.8#



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



#31

Cyclohexane

Concen: 0.281 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

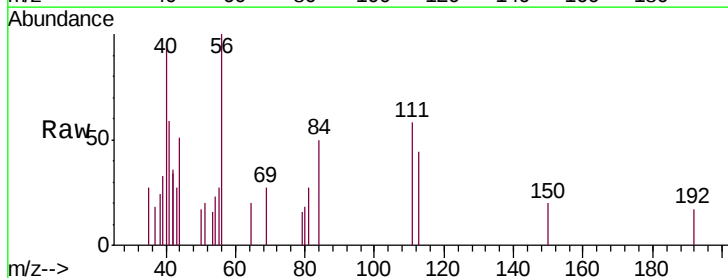
Tgt Ion: 56 Resp: 965

Ion Ratio Lower Upper

56 100

69 27.5 23.4 35.0

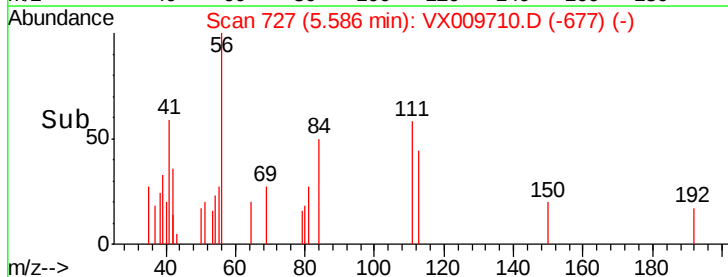
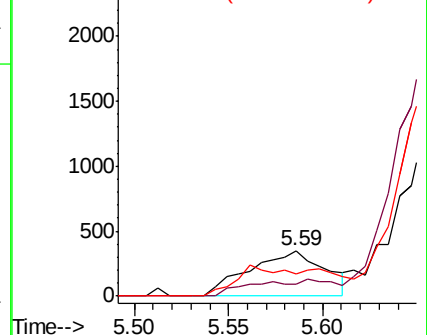
84 49.6 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.282 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampleId :

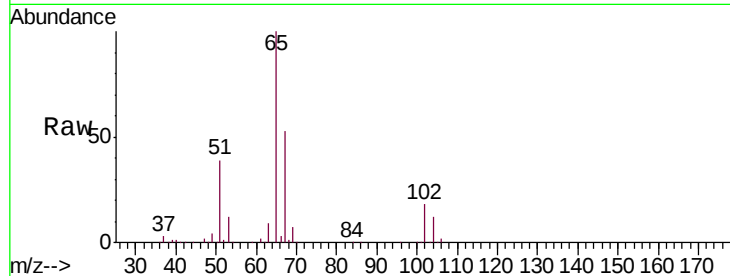
MW-04A_R2

Tgt Ion: 65 Resp: 116932

Ion Ratio Lower Upper

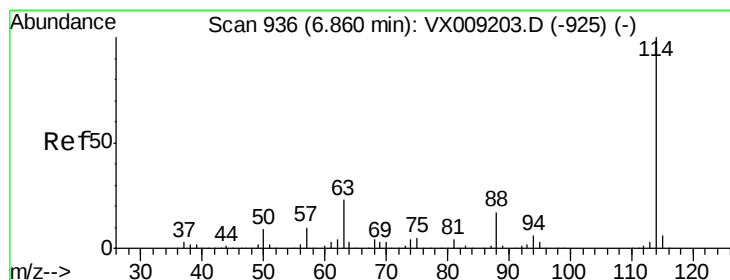
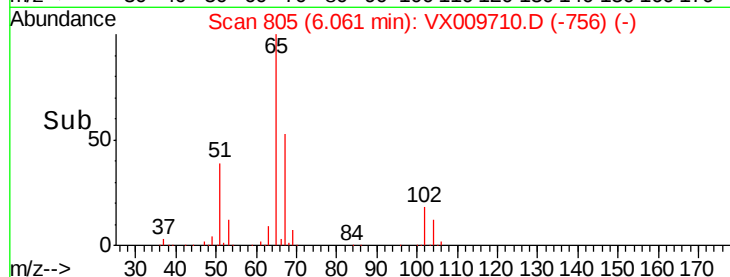
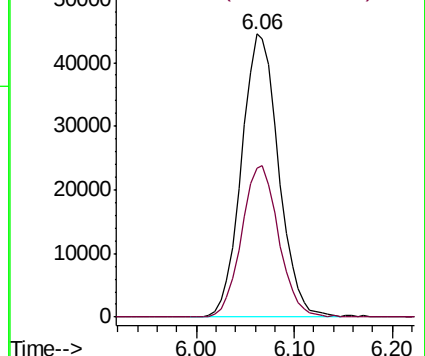
65 100

67 53.5 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: VX009710.D

Acq: 18 May 2019 11:20

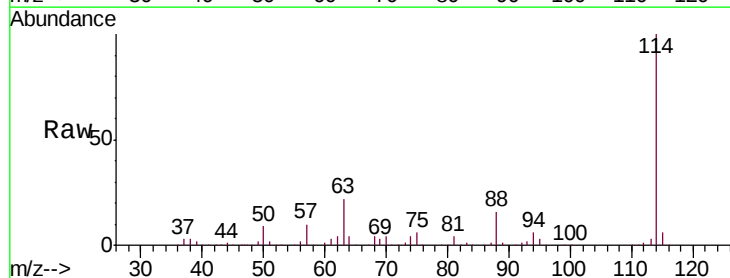
Tgt Ion: 114 Resp: 274624

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.6

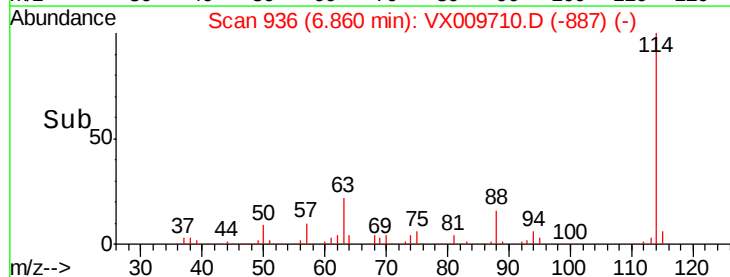
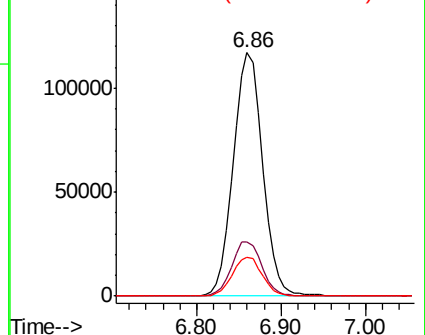
88 16.1 0.0 33.2

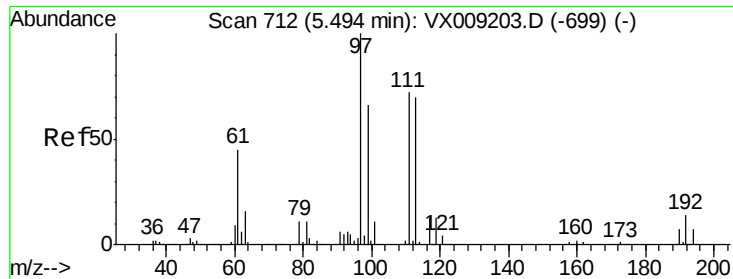


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

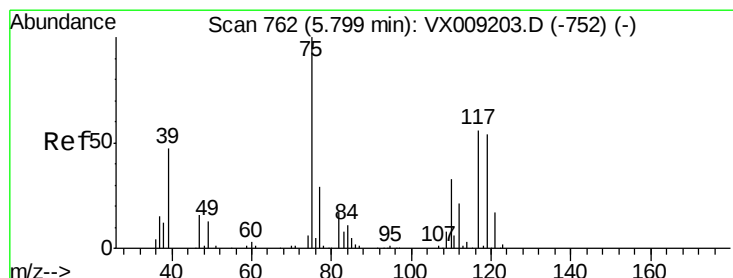
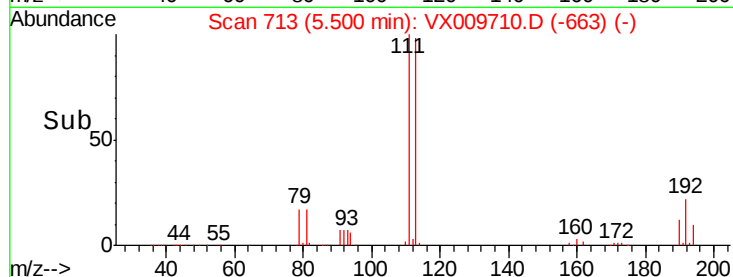
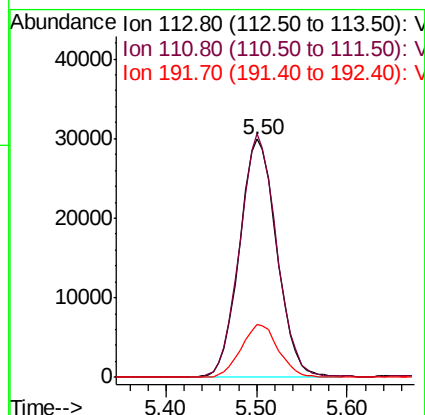
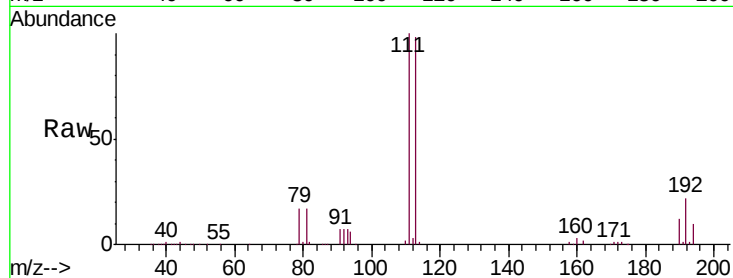




#35
 Dibromofluoromethane
 Concen: 49.391 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009710.D
 Acq: 18 May 2019 11:20

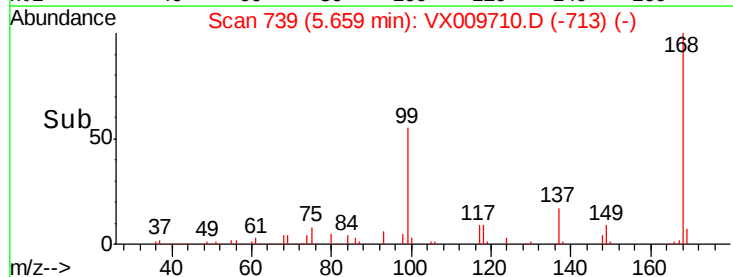
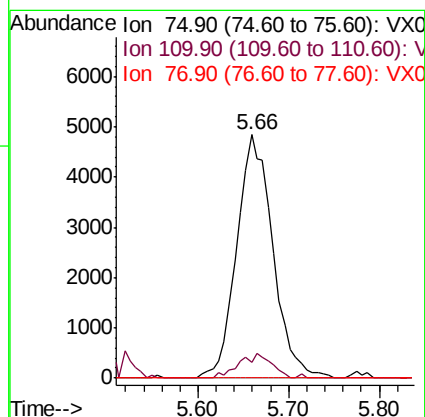
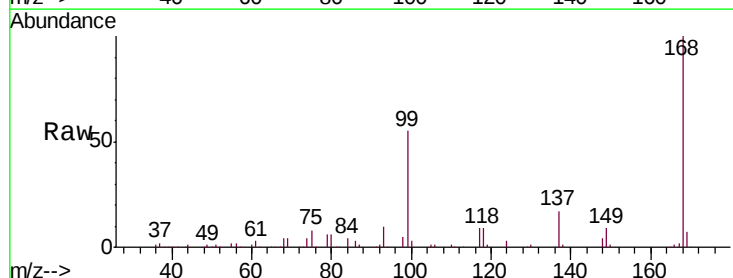
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-04A_R2

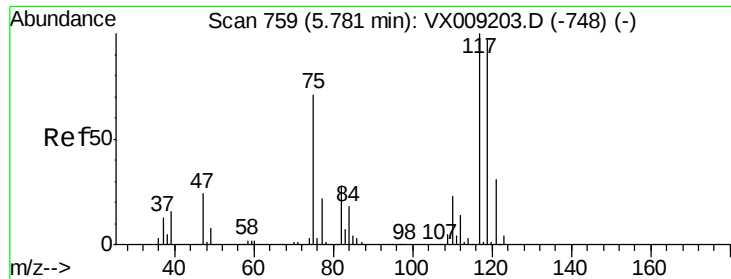
Tgt Ion:113 Resp: 85269
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.8 124.2
 192 22.1 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.237 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009710.D
 Acq: 18 May 2019 11:20

Tgt Ion: 75 Resp: 13366
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.9 50.6#
 77 0.0 24.8 37.2#

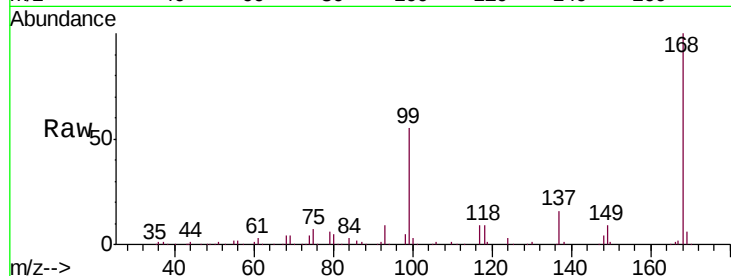




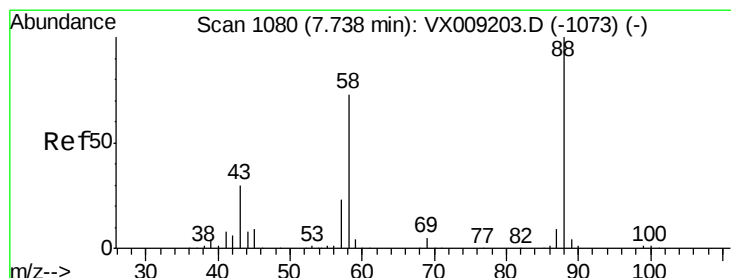
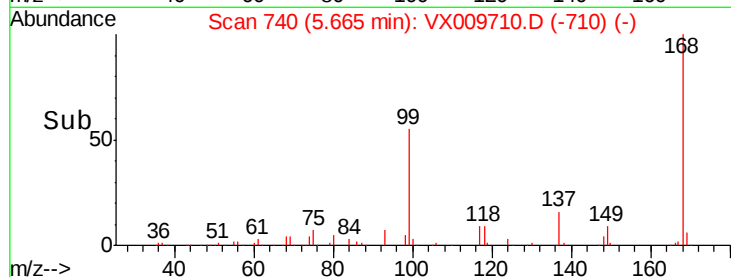
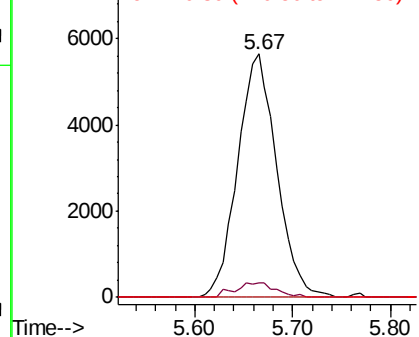
#38
Carbon Tetrachloride
Concen: 6.735 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Instrument :
MSVOA_X
ClientSampled :
MW-04A_R2

Tgt Ion: 117 Resp: 15616
Ion Ratio Lower Upper
117 100
119 5.7 77.5 116.3#
121 0.0 24.7 37.1#

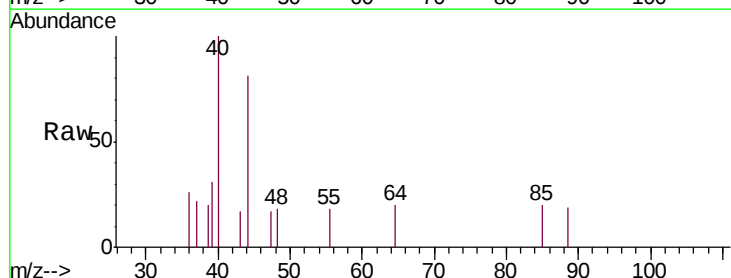


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

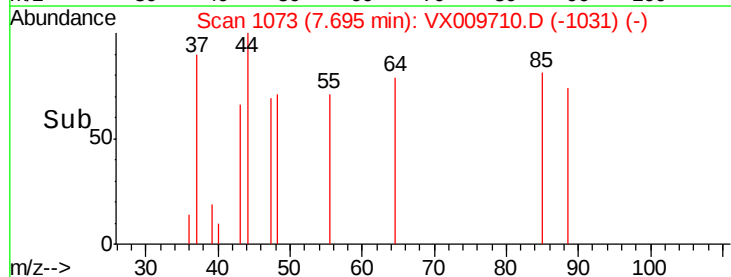
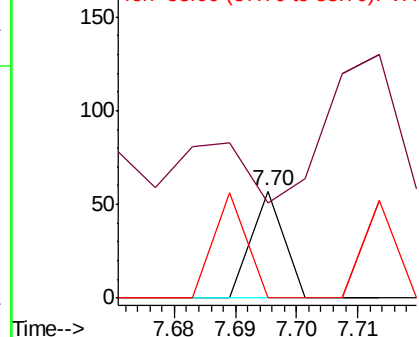


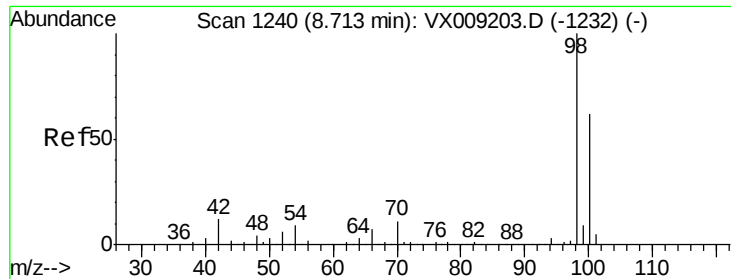
#49
1,4-Dioxane
Concen: 0.367 ug/l
RT: 7.70 min Scan# 1073
Delta R.T. -0.04 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 919.0 28.6 42.8#
58 95.2 61.7 92.5#



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

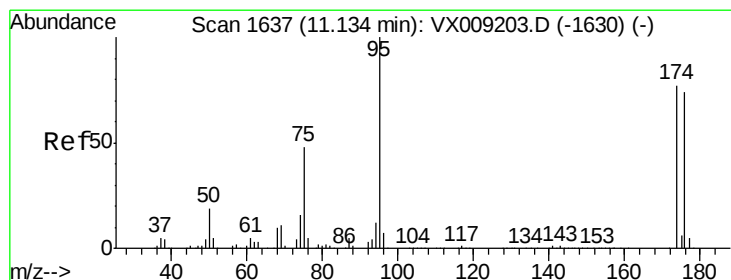
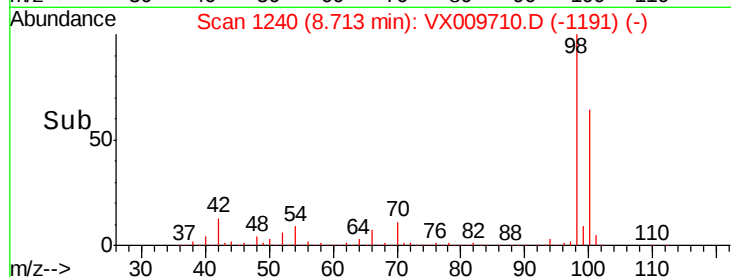
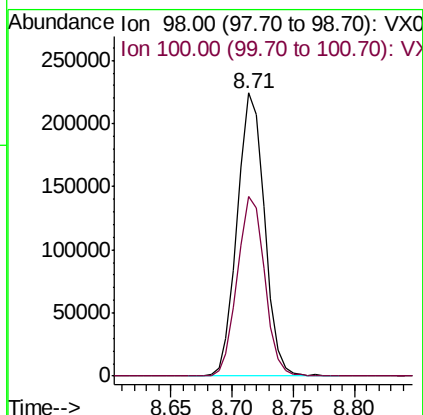
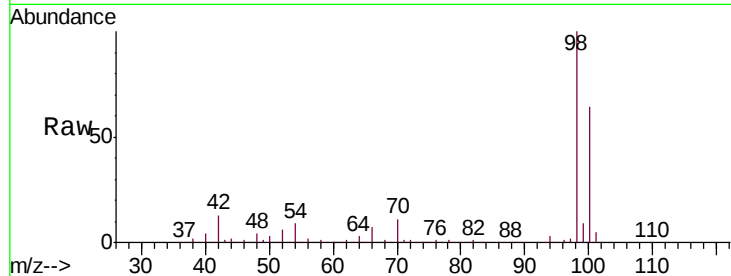




#50
Toluene-d8
Concen: 49.763 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

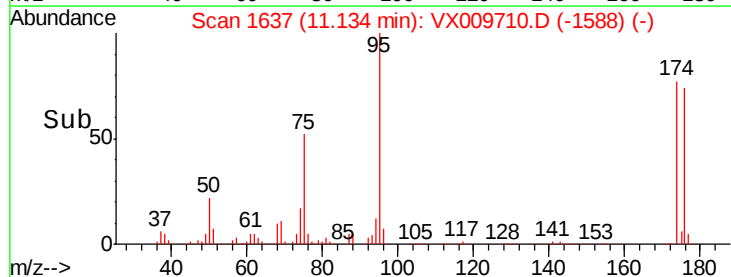
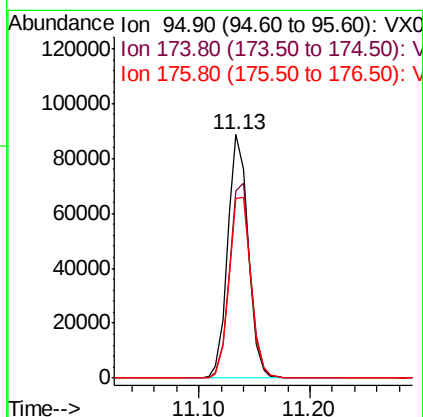
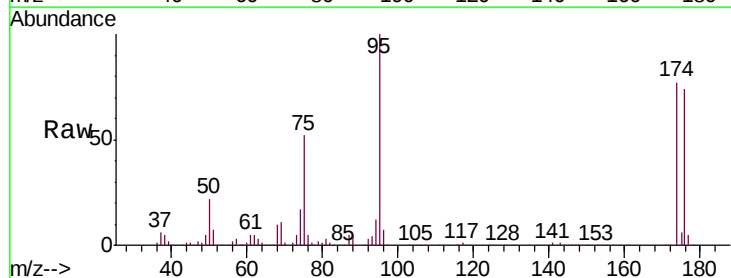
Instrument :
MSVOA_X
ClientSampleId :
MW-04A_R2

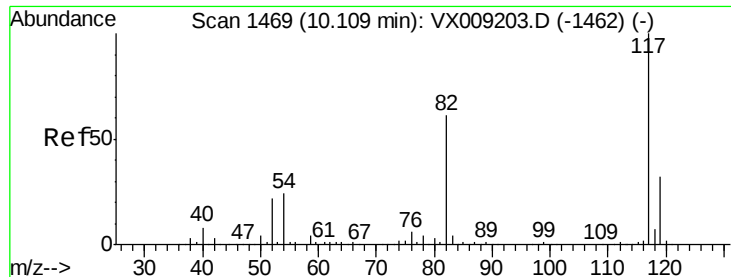
Tgt Ion: 98 Resp: 346846
Ion Ratio Lower Upper
98 100
100 63.8 51.2 76.8



#62
4-Bromofluorobenzene
Concen: 44.502 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Tgt Ion: 95 Resp: 112706
Ion Ratio Lower Upper
95 100
174 82.8 0.0 161.6
176 79.0 0.0 159.2

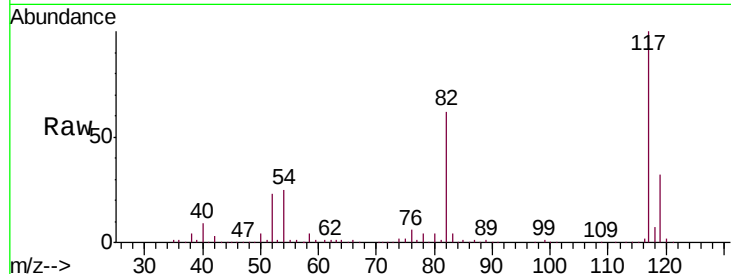




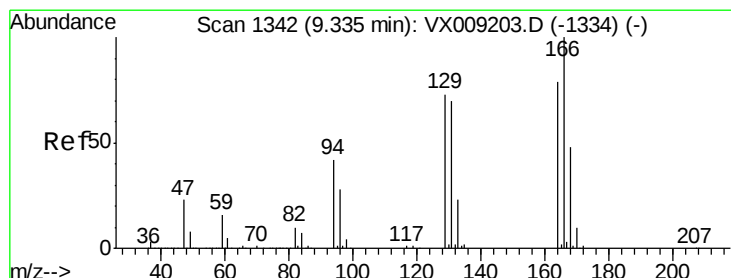
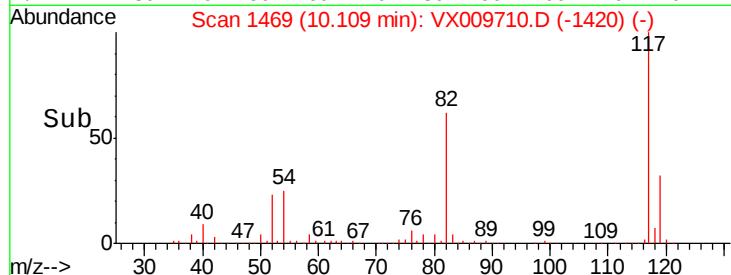
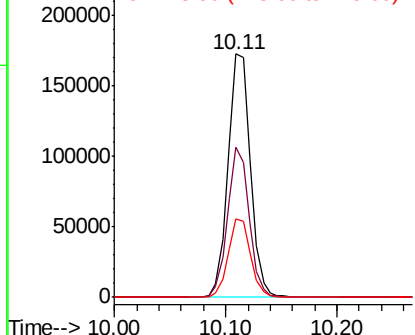
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Instrument :
MSVOA_X
ClientSampleId :
MW-04A_R2

Tgt Ion:117 Resp: 240437
Ion Ratio Lower Upper
117 100
82 61.7 48.8 73.2
119 32.4 25.8 38.6

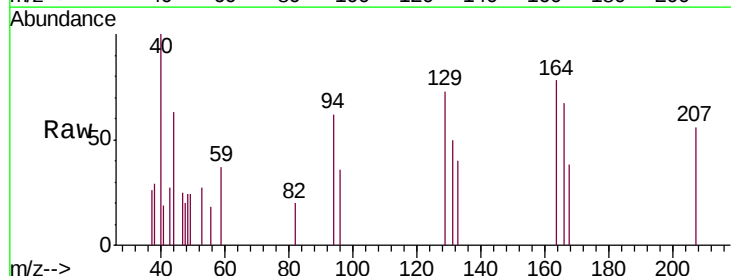


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

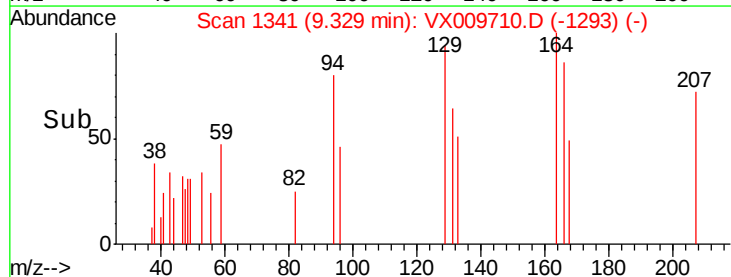
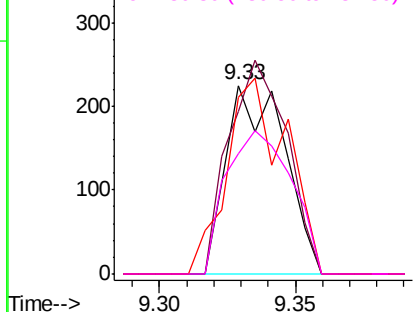


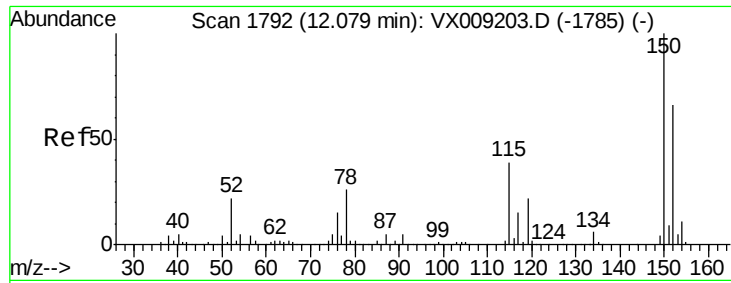
#64
Tetrachloroethene
Concen: 0.203 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Tgt Ion:164 Resp: 334
Ion Ratio Lower Upper
164 100
166 86.2 101.2 151.8#
129 93.8 74.3 111.5
131 64.0 71.0 106.6#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampleId :

MW-04A_R2

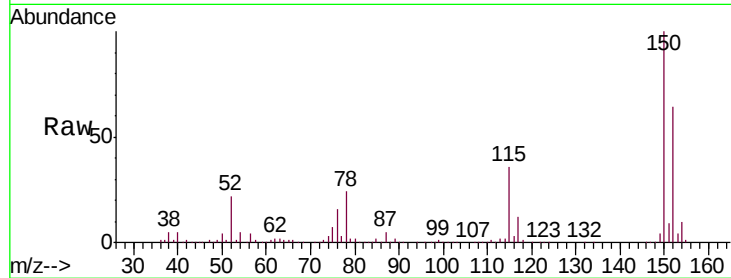
Tgt Ion:152 Resp: 100398

Ion Ratio Lower Upper

152 100

115 58.8 41.2 123.6

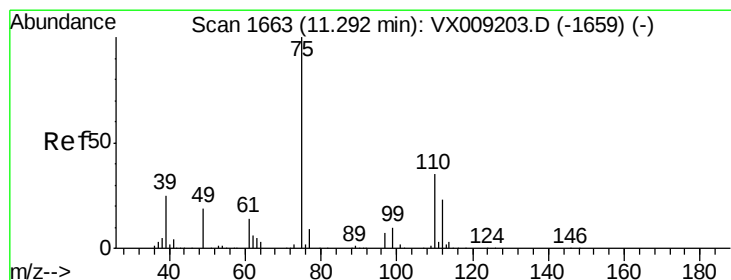
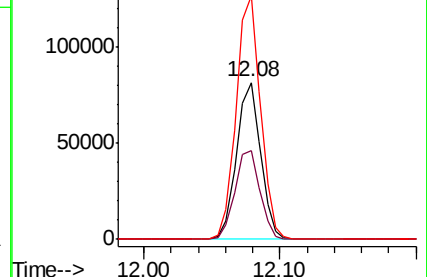
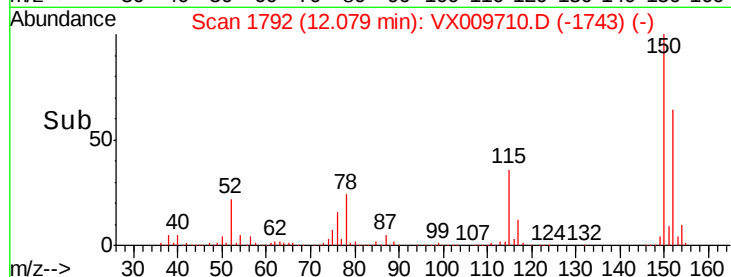
150 156.3 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 24.532 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009710.D

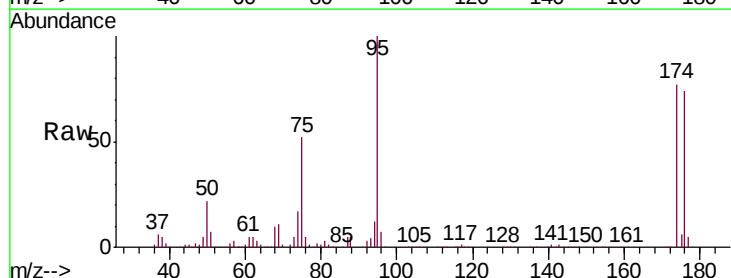
Acq: 18 May 2019 11:20

Tgt Ion: 75 Resp: 57132

Ion Ratio Lower Upper

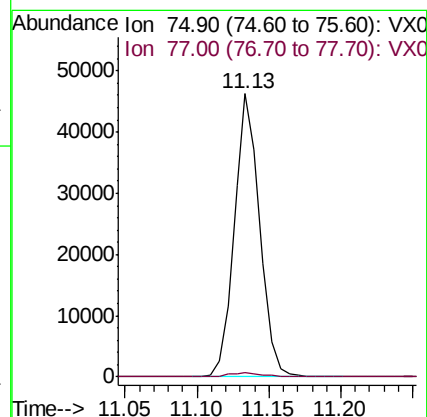
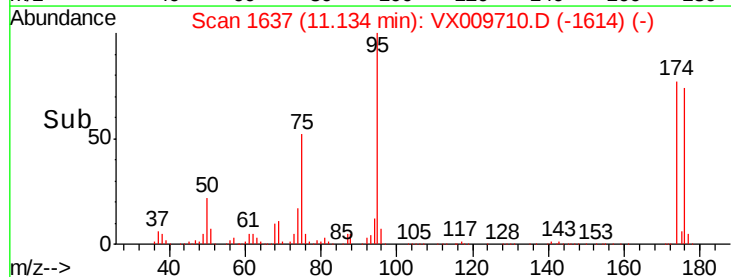
75 100

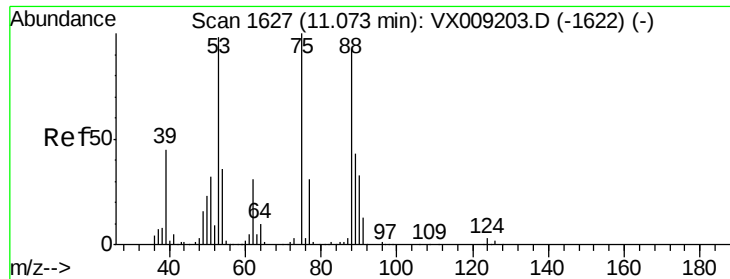
77 1.8 22.1 66.1#



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: 62.769 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampleId :

MW-04A_R2

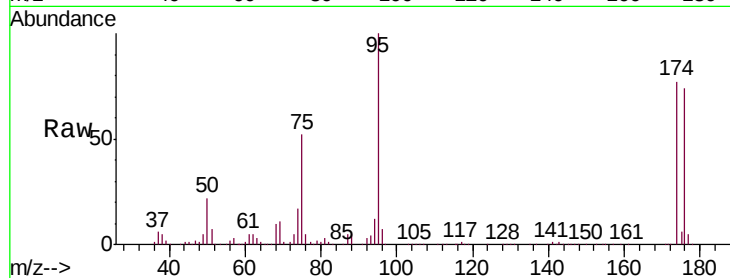
Tgt Ion: 75 Resp: 57132

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

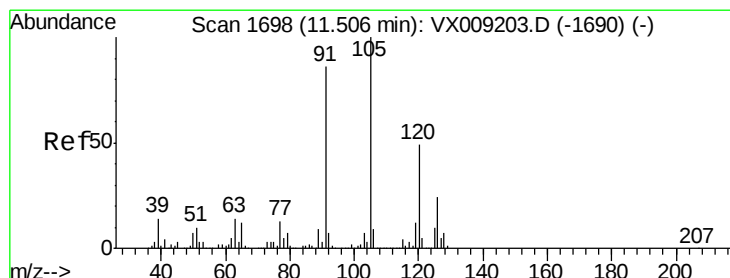
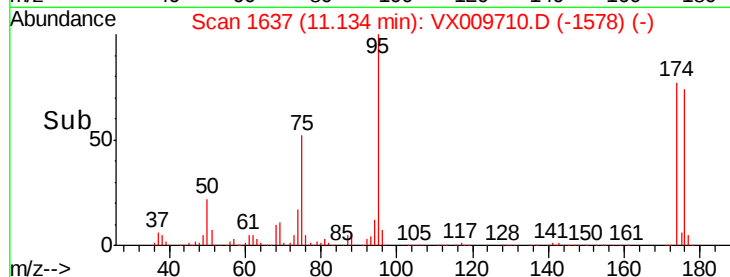
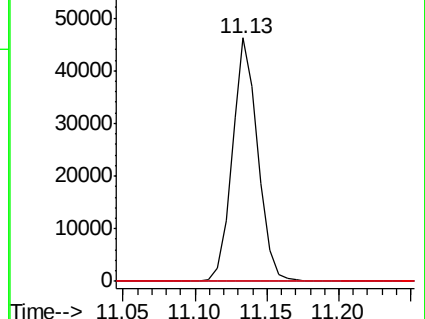
89 0.0 34.7 52.1#



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



#82

4-Chlorotoluene

Concen: 0.589 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.26 min

Lab File: VX009710.D

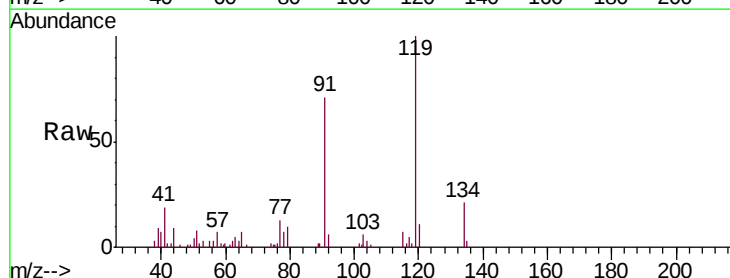
Acq: 18 May 2019 11:20

Tgt Ion: 91 Resp: 3422

Ion Ratio Lower Upper

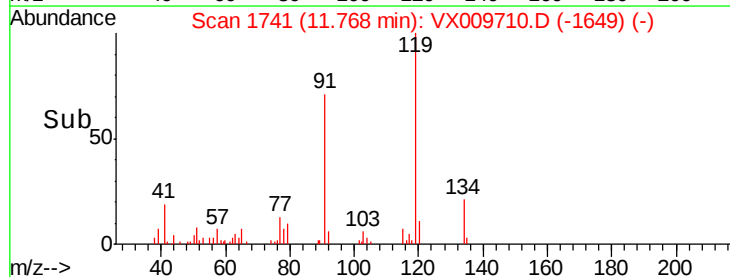
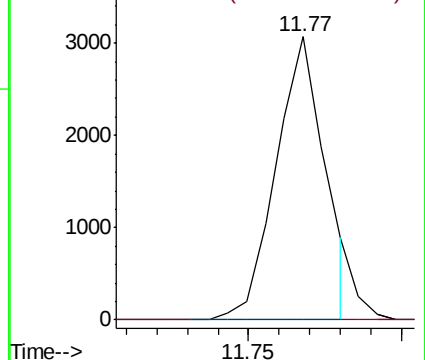
91 100

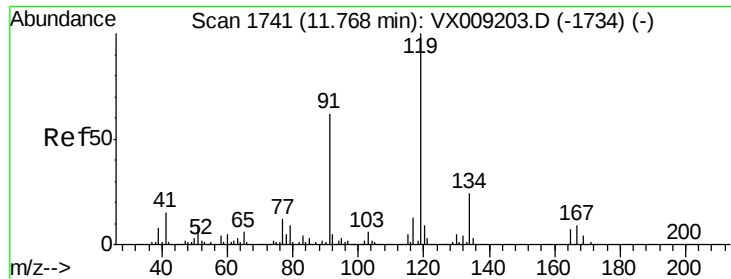
126 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

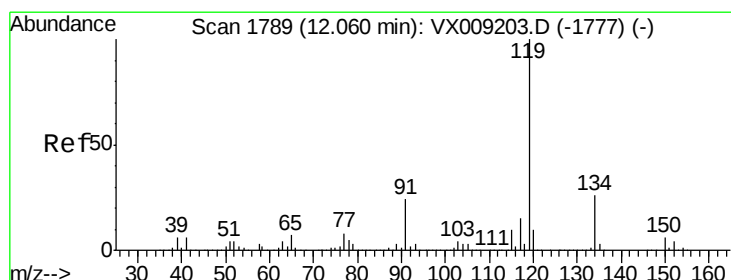
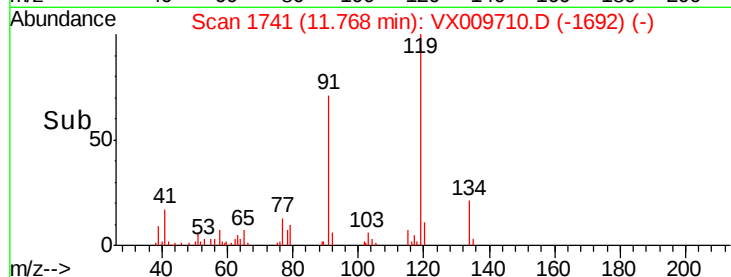
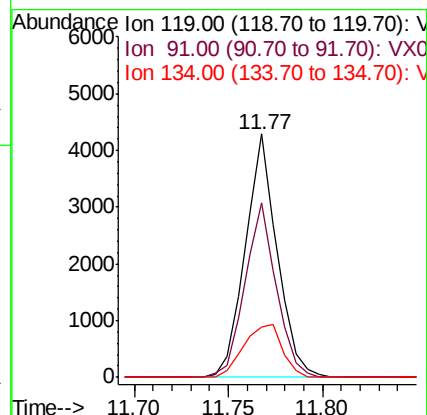
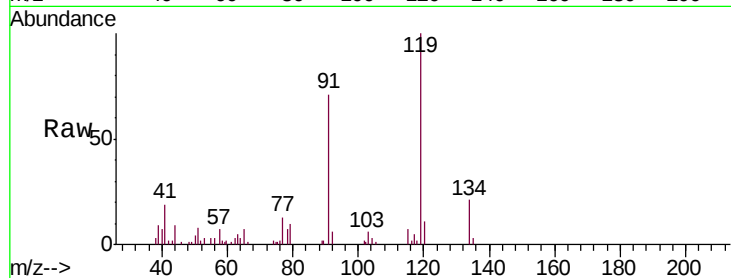




#83
tert-Butylbenzene
Concen: 0.839 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

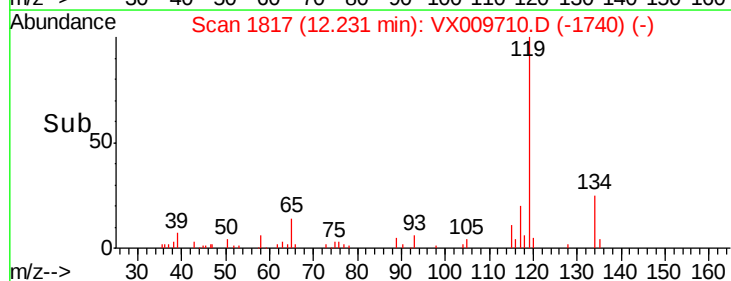
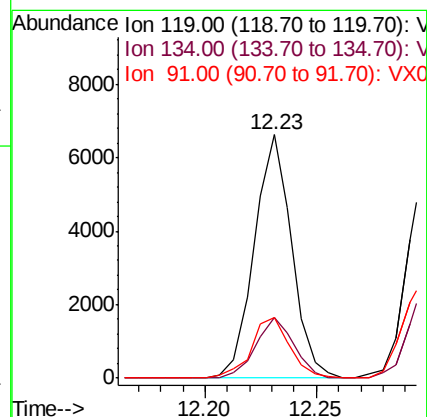
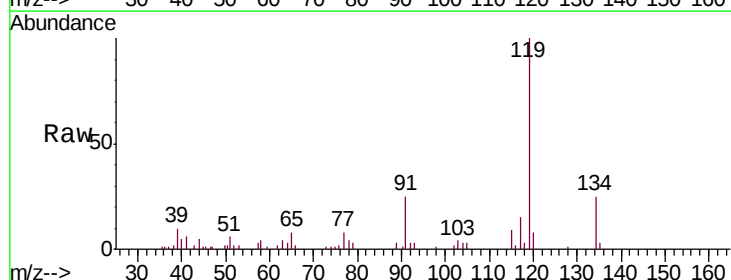
Instrument :
MSVOA_X
ClientSampleId :
MW-04A_R2

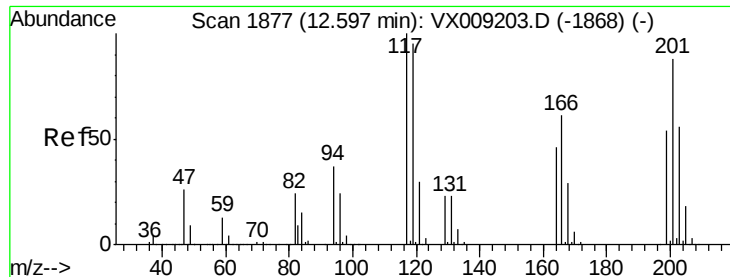
Tgt Ion	Ratio	Lower	Upper
119	100		
91	70.6	29.5	88.5
134	26.5	11.4	34.1



#86
p-Isopropyltoluene
Concen: 1.217 ug/l
RT: 12.23 min Scan# 1817
Delta R.T. 0.17 min
Lab File: VX009710.D
Acq: 18 May 2019 11:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.9	38.7
91	25.8	11.8	35.4





#90

Hexachloroethane

Concen: 1.880 ug/l

RT: 12.69 min Scan# 1893

Delta R.T. 0.10 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

Instrument :

MSVOA_X

ClientSampled :

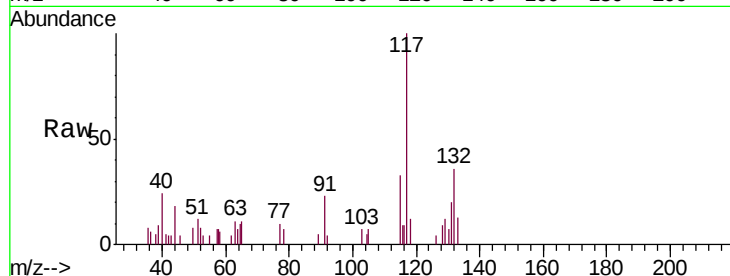
MW-04A_R2

Tgt Ion:117 Resp: 2041

Ion Ratio Lower Upper

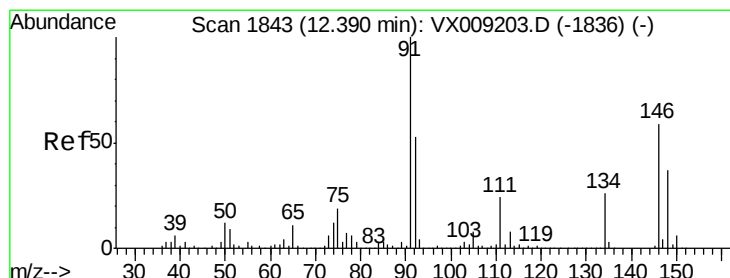
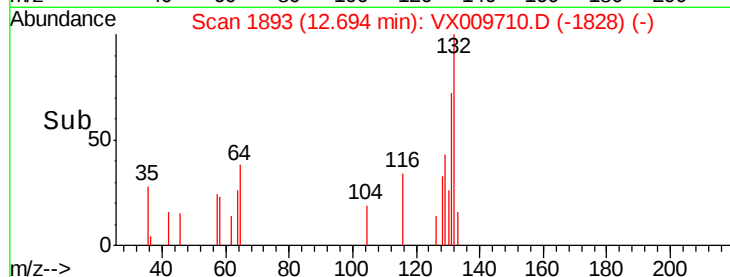
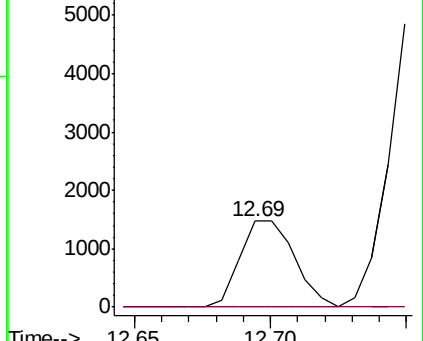
117 100

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



#91

1,2-Dichlorobenzene

Concen: 0.269 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX009710.D

Acq: 18 May 2019 11:20

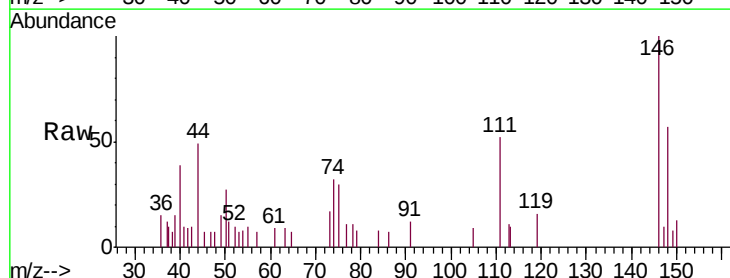
Tgt Ion:146 Resp: 886

Ion Ratio Lower Upper

146 100

111 52.6 20.8 62.4

148 73.5 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

