

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009330.D
 Acq On : 03 May 2019 23:17
 Operator : JC/SP
 Sample : K2687-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4-TB02-190502

Quant Time: May 04 00:51:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	190274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	312482	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	270016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	115862	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	128337	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	5.50	113	95131	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.71	98	388292	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	11.13	95	127604	44.28	ug/l	0.00
Spiked Amount			Recovery	=	88.56%	

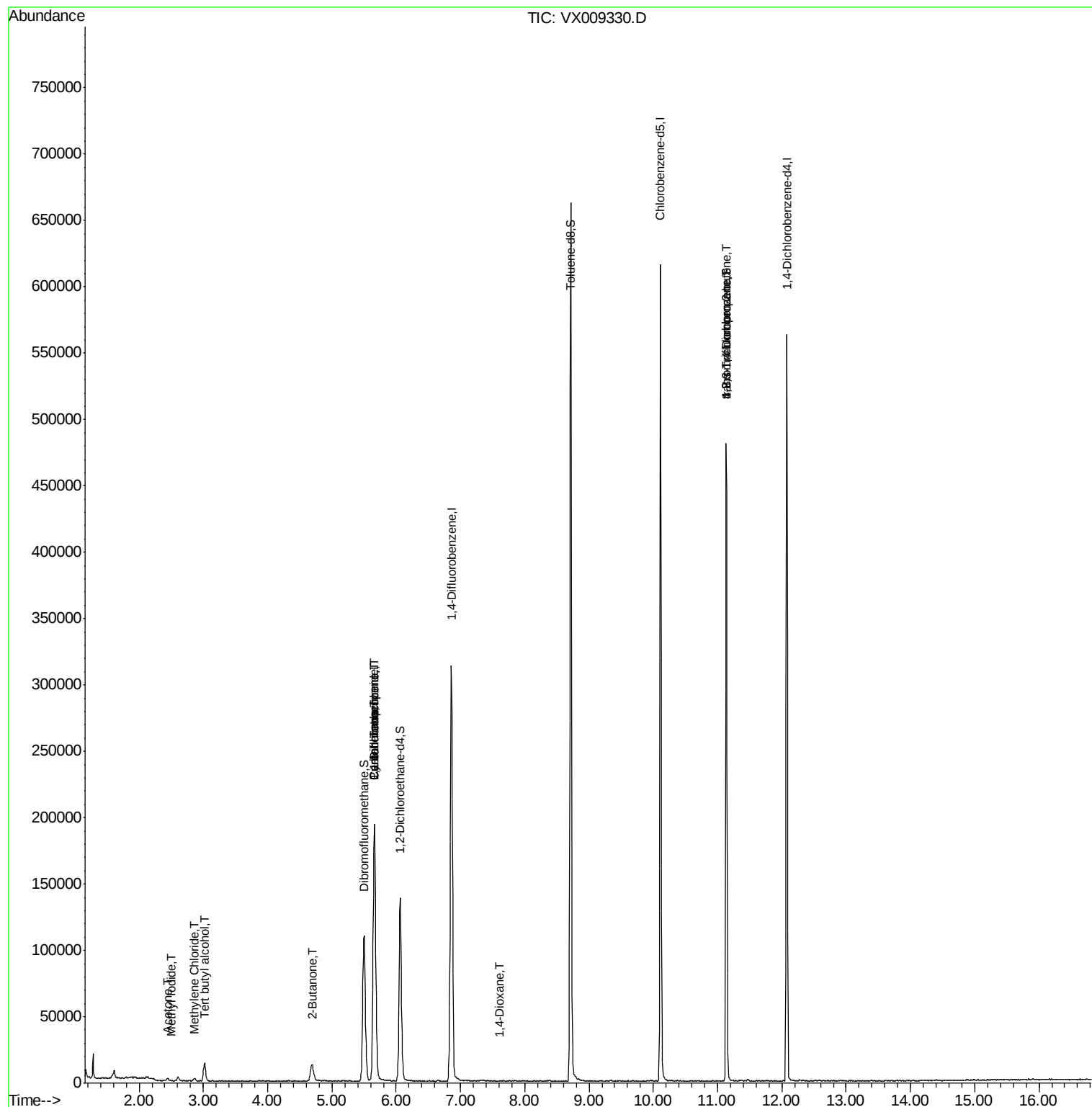
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	19	4.602	ug/l #	42
11) Tert butyl alcohol	3.02	59	8465	14.079	ug/l #	83
16) Acetone	2.44	43	2563	1.838	ug/l #	87
20) Methylene Chloride	2.86	84	867	0.384	ug/l #	80
25) 2-Butanone	4.70	43	1303	0.601	ug/l #	53
28) Bromochloromethane	5.04	49	47	Below Cal	#	20
31) Cyclohexane	5.66	56	4184	1.090	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15157	5.219	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17660	6.693	ug/l #	16
49) 1,4-Dioxane	7.60	88	23	0.353	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	64084	23.844	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64084	61.009	ug/l #	10

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:03:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

Instrument :

MSVOA_X

ClientSampleId :

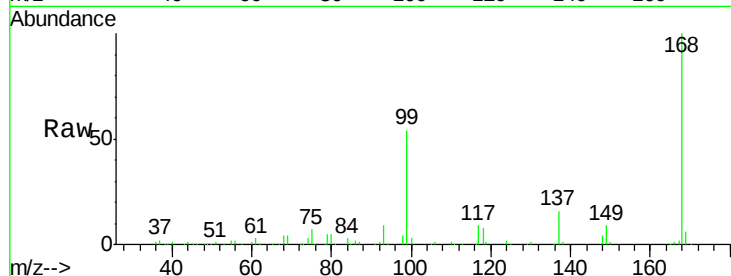
Z4-TB02-190502

Tot Ion:168 Resp: 190274

Ion Ratio Lower Upper

168 100

99 53.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

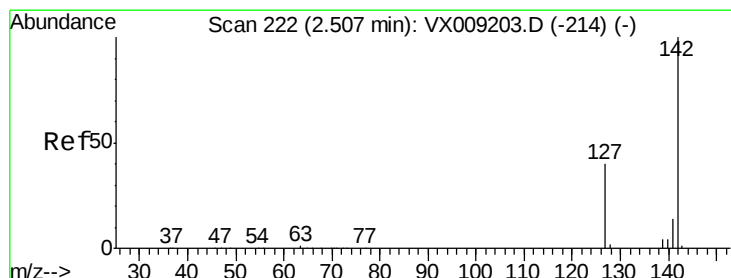
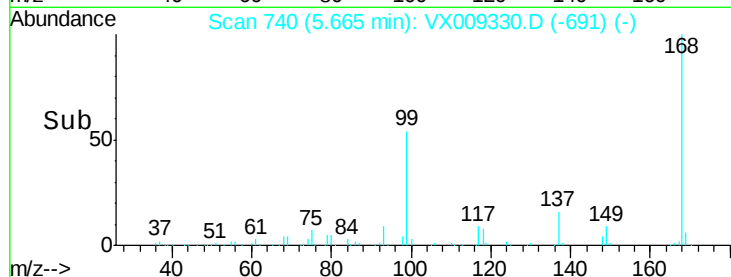
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 4.602 ug/l

RT: 2.51 min Scan# 222

Delta R.T. -0.00 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

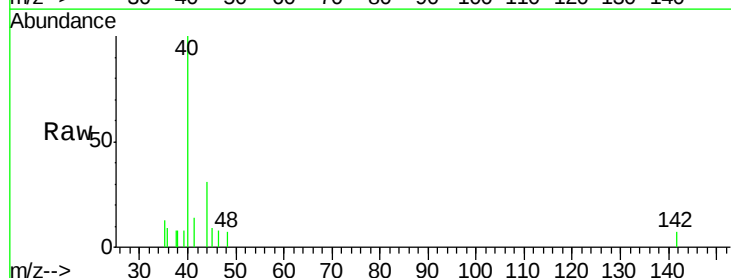
Tgt Ion:142 Resp: 19

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

2.51

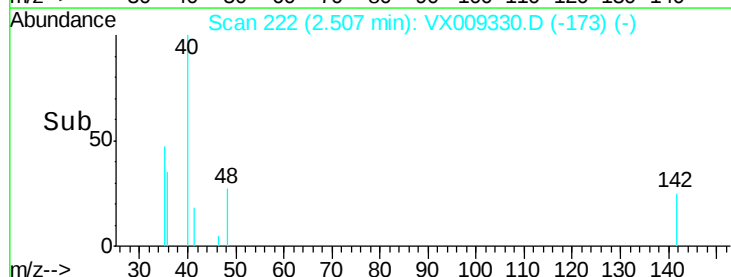
60

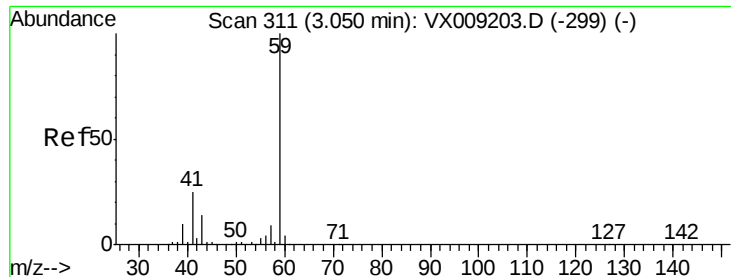
40

20

0

Time--> 2.49 2.50 2.51 2.52



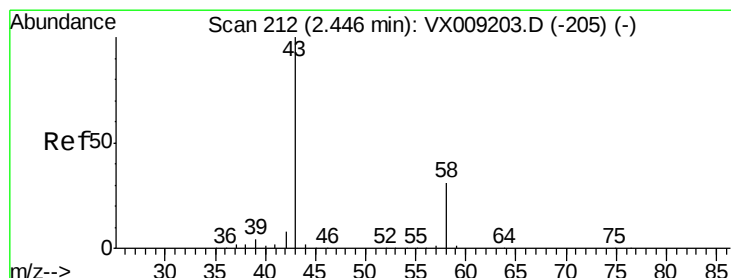
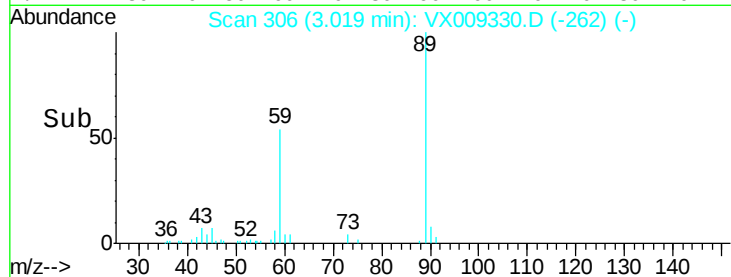
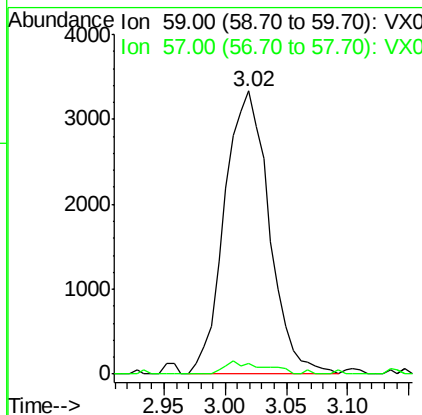
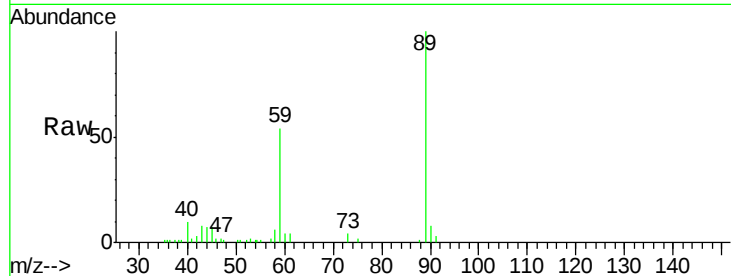


#11

Tert butyl alcohol
 Concen: 14.079 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX009330.D
 Acq: 03 May 2019 23:17

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4-TB02-190502

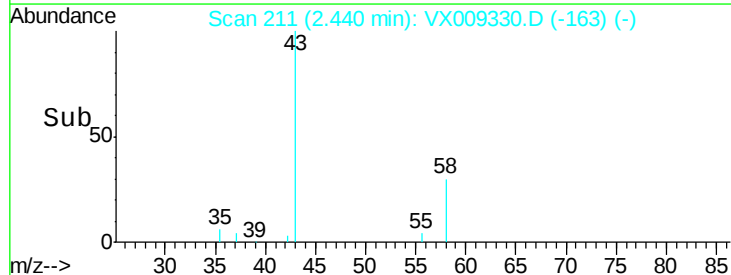
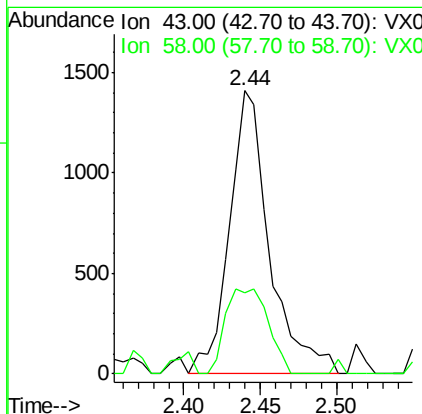
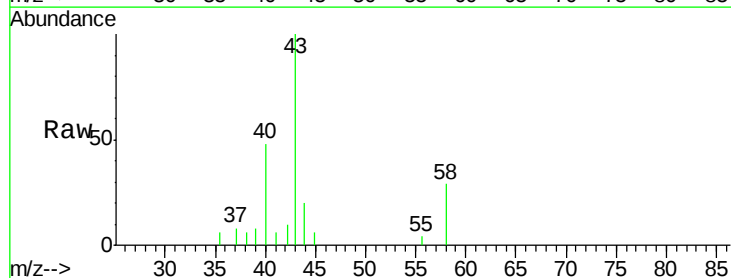
Tot Ion: 59 Resp: 8465
 Ion Ratio Lower Upper
 59 100
 57 4.0 8.2 12.2#

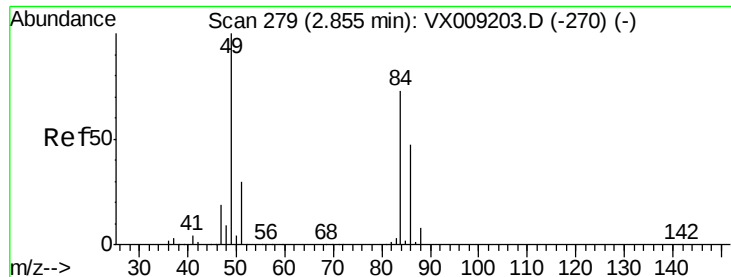


#16

Acetone
 Concen: 1.838 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX009330.D
 Acq: 03 May 2019 23:17

Tgt Ion: 43 Resp: 2563
 Ion Ratio Lower Upper
 43 100
 58 23.9 24.9 37.3#

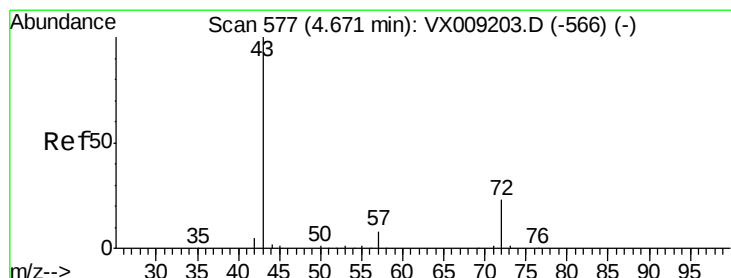
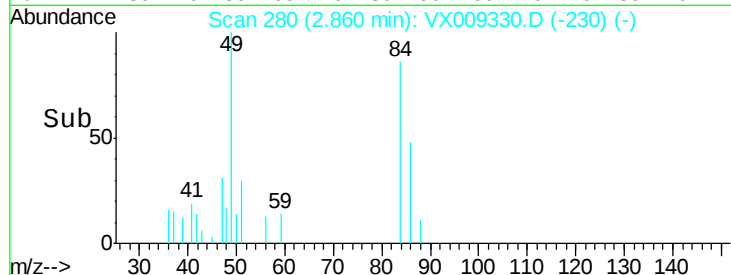
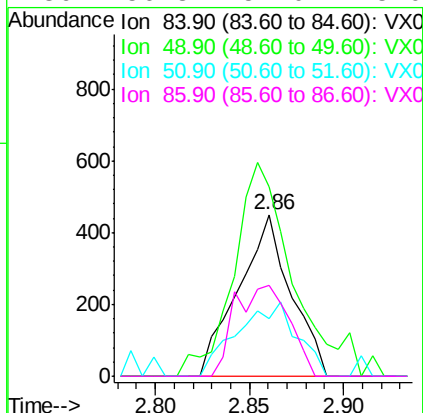
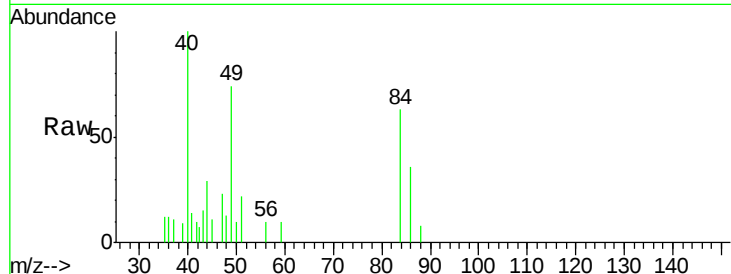




#20
Methvlene Chloride
Concen: 0.384 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009330.D
Acq: 03 May 2019 23:17

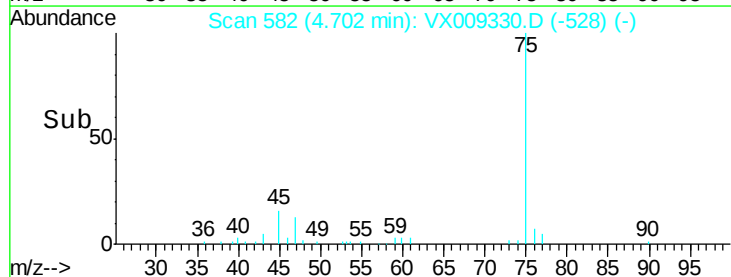
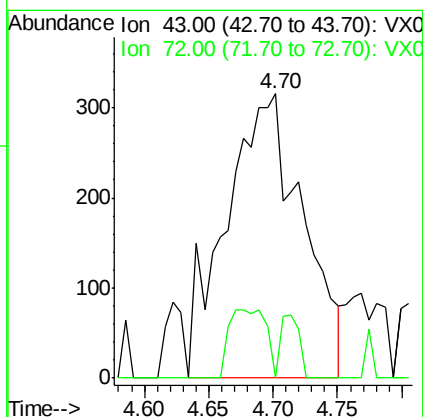
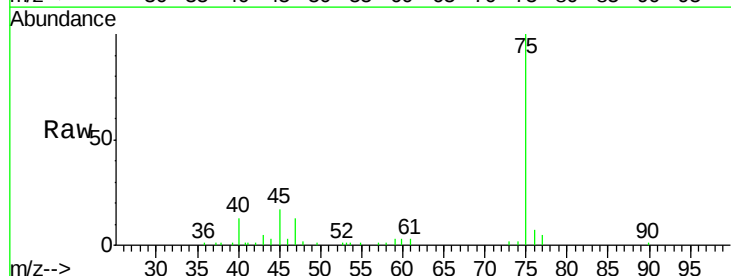
Instrument :
MSVOA_X
ClientSampleId :
Z4-TB02-190502

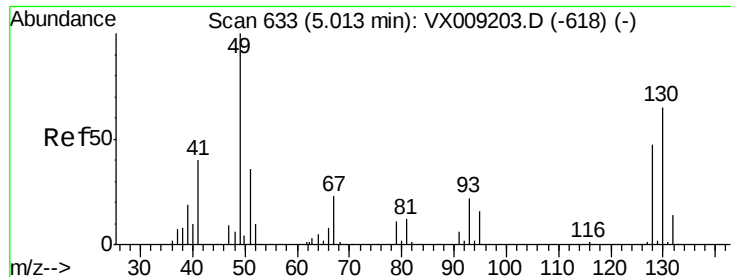
Tot Ion:	84	Resp:	867
Ion	Ratio	Lower	Upper
84	100		
49	103.3	109.9	164.9#
51	35.5	32.7	49.1
86	56.3	52.0	78.0



#25
2-Butanone
Concen: 0.601 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.03 min
Lab File: VX009330.D
Acq: 03 May 2019 23:17

Tgt Ion:	43	Resp:	1303
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

Instrument :

MSVOA_X

ClientSampleId :

Z4-TB02-190502

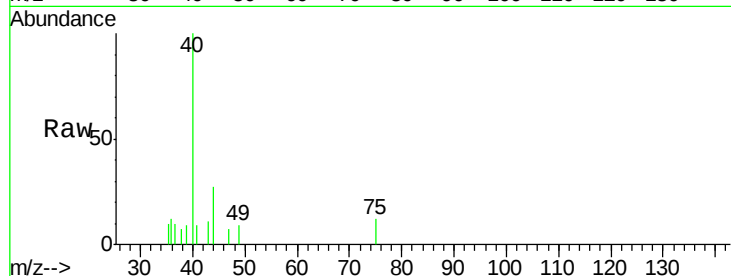
Tot Ion: 49 Resp: 47

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

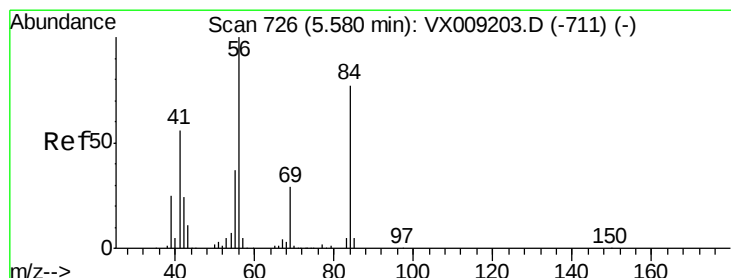
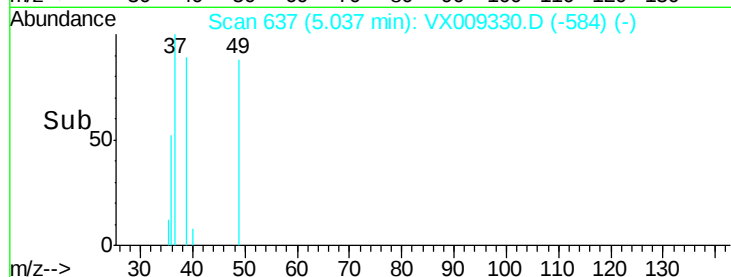
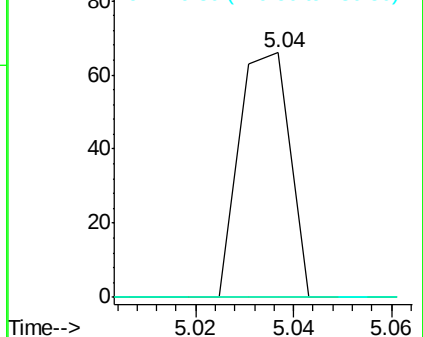
130 0.0 51.2 76.8#



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: 1.090 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

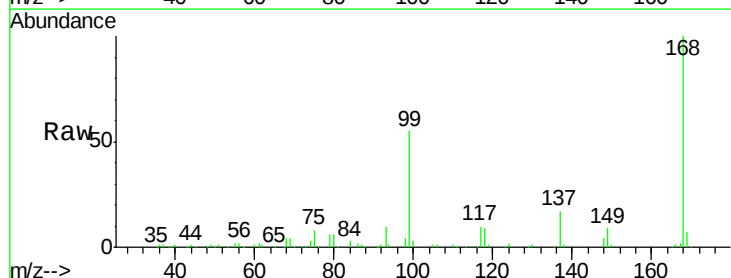
Tgt Ion: 56 Resp: 4184

Ion Ratio Lower Upper

56 100

69 183.2 23.4 35.0#

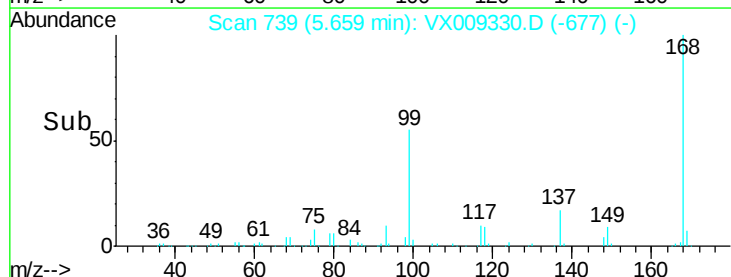
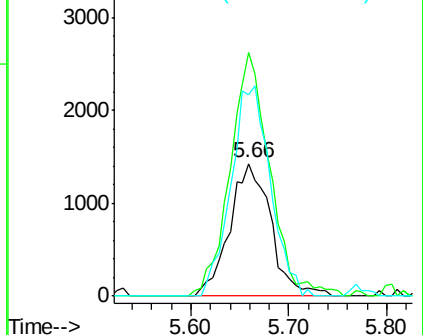
84 151.4 61.9 92.9#



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: 49.409 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

Instrument :

MSVOA_X

ClientSampleId :

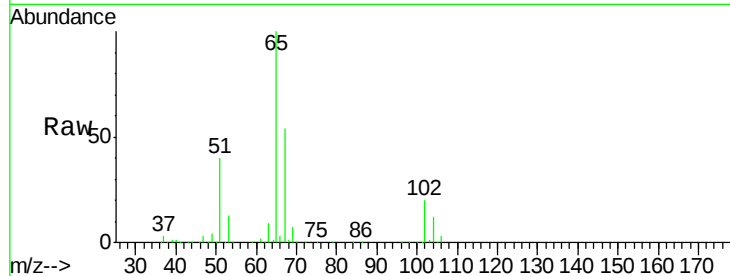
Z4-TB02-190502

Tot Ion: 65 Resp: 128337

Ion Ratio Lower Upper

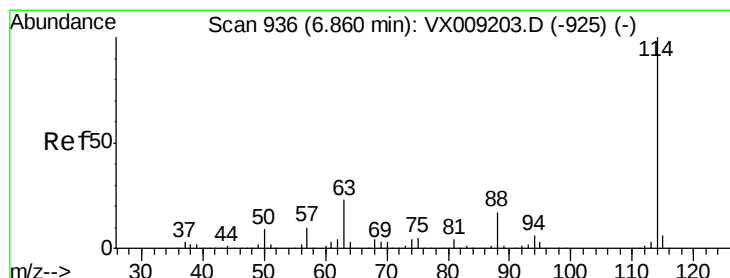
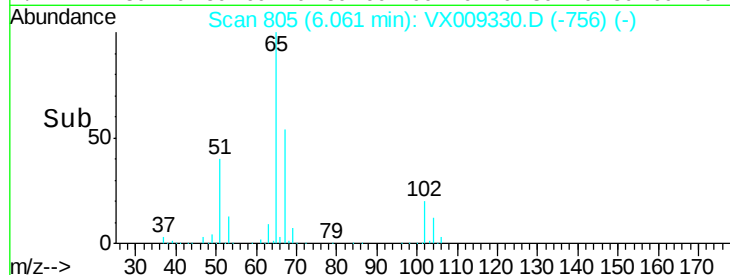
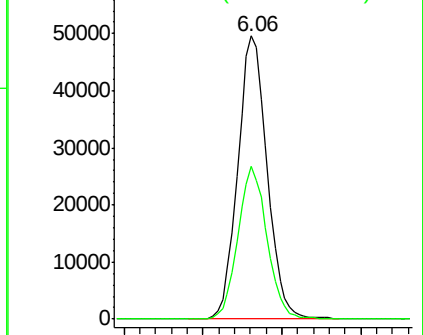
65 100

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: VX009330.D

Acq: 03 May 2019 23:17

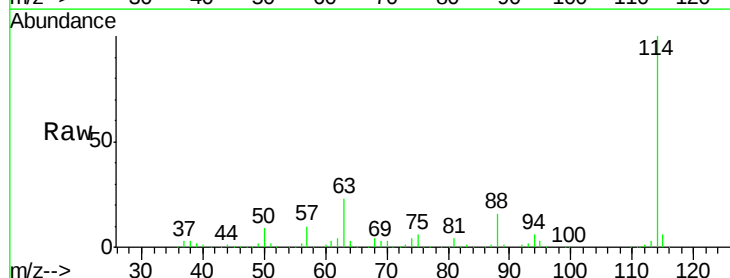
Tgt Ion: 114 Resp: 312482

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

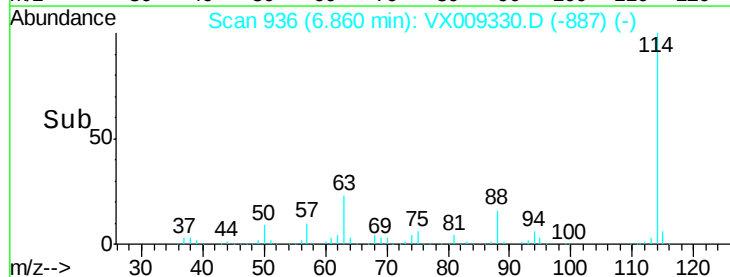
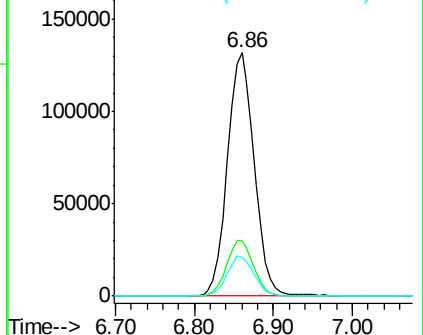
88 16.0 0.0 33.2

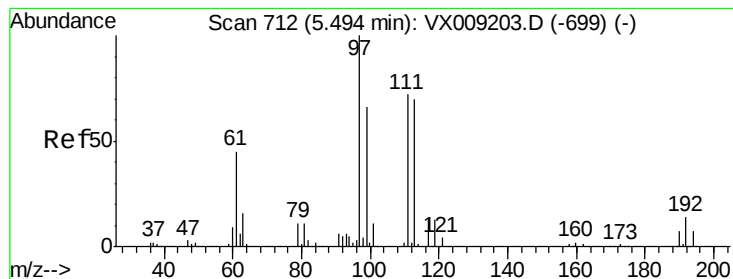


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.428 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

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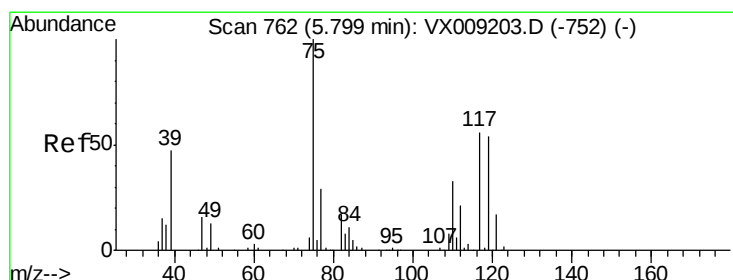
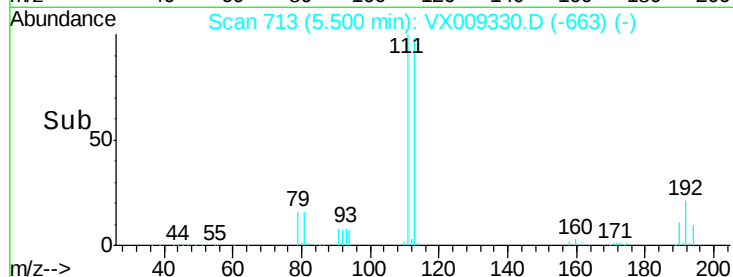
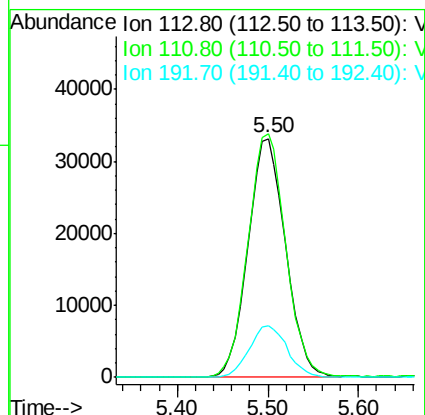
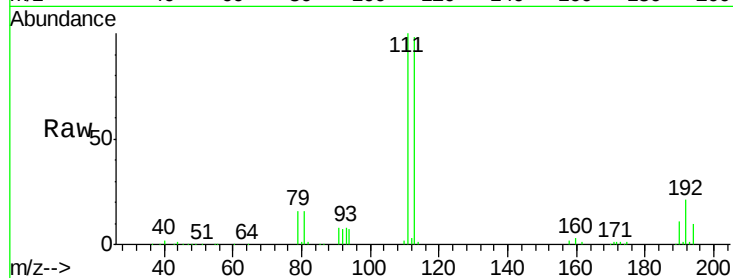
Tot Ion:113 Resp: 95131

Ion Ratio Lower Upper

113 100

111 102.9 82.8 124.2

192 21.9 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.219 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

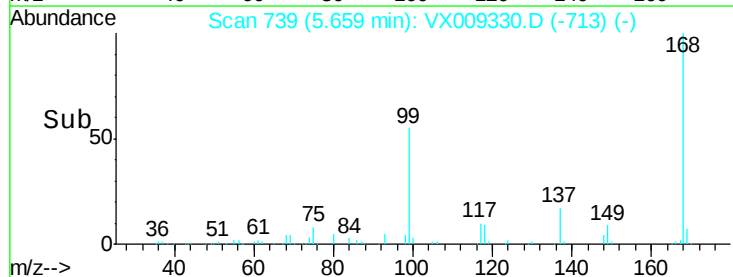
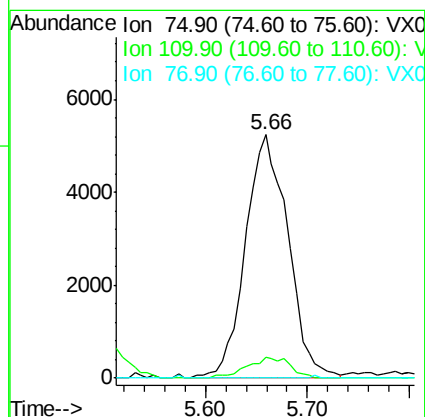
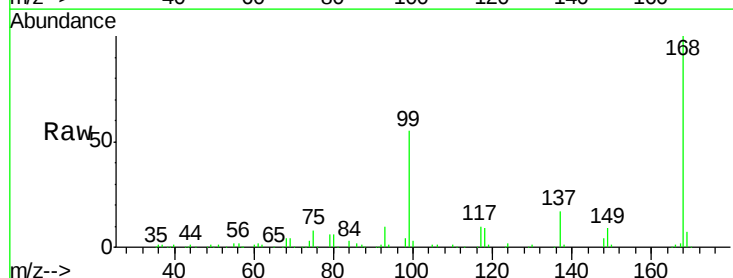
Tgt Ion: 75 Resp: 15157

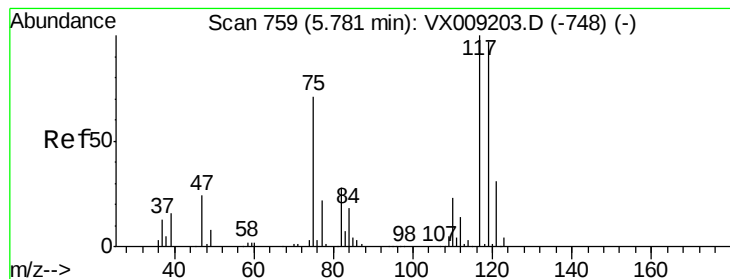
Ion Ratio Lower Upper

75 100

110 8.8 16.9 50.6#

77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.693 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

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Z4-TB02-190502

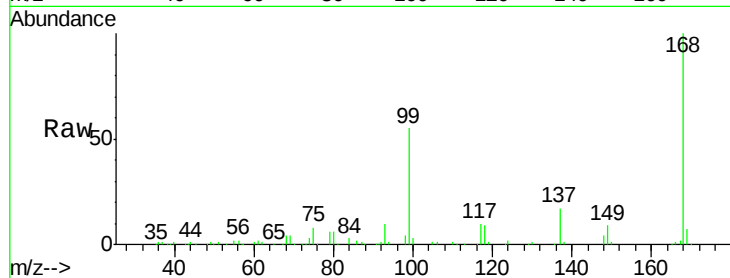
Tot Ion:117 Resp: 17660

Ion Ratio Lower Upper

117 100

119 5.5 77.5 116.3#

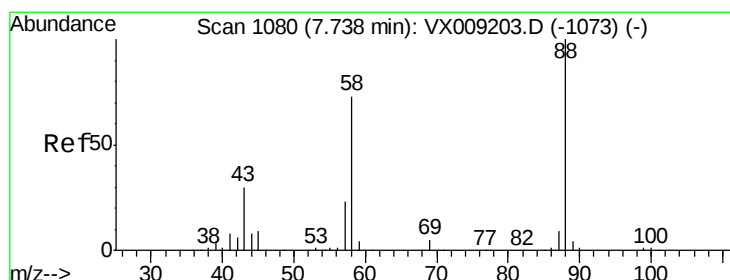
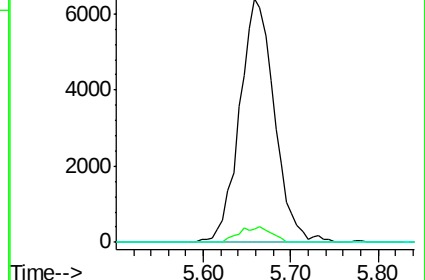
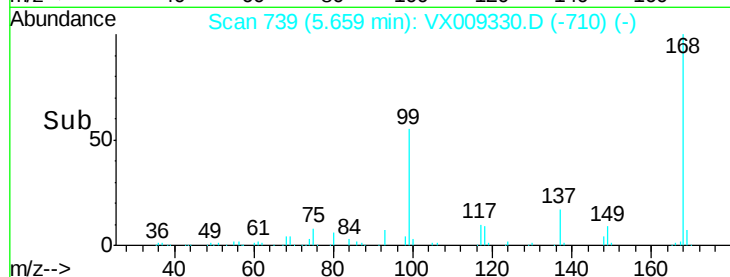
121 0.0 24.7 37.1#



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: 0.353 ug/l

RT: 7.60 min Scan# 1057

Delta R.T. -0.14 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

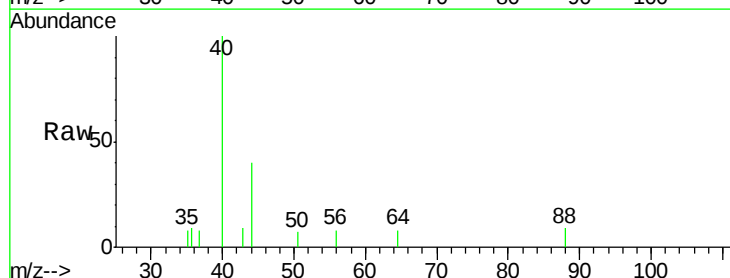
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 591.3 28.6 42.8#

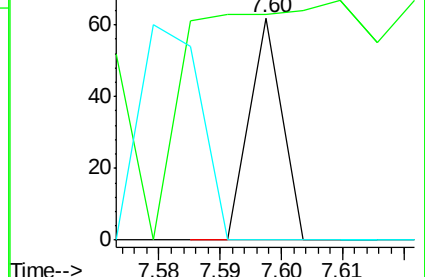
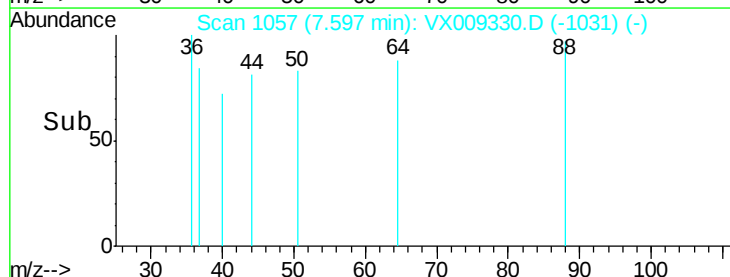
58 0.0 61.7 92.5#

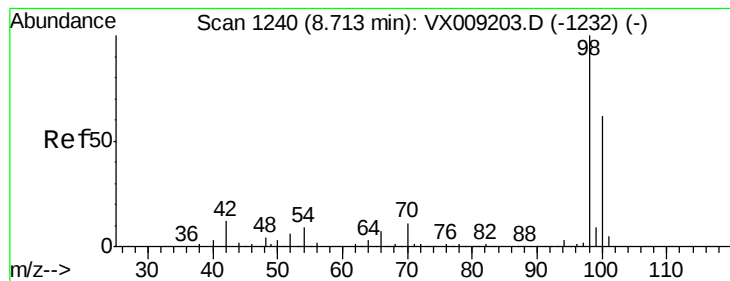


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.961 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

Instrument :

MSVOA_X

ClientSampleId :

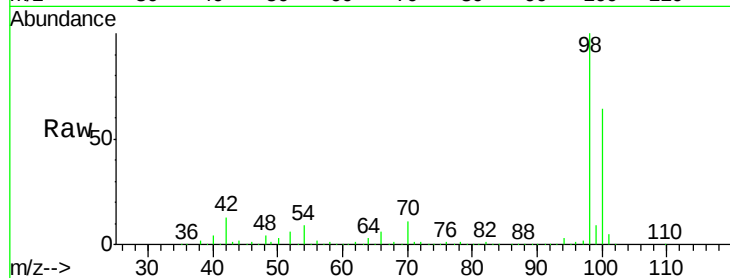
Z4-TB02-190502

Tot Ion: 98 Resp: 388292

Ion Ratio Lower Upper

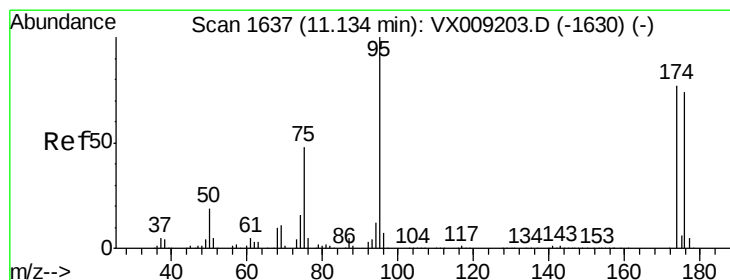
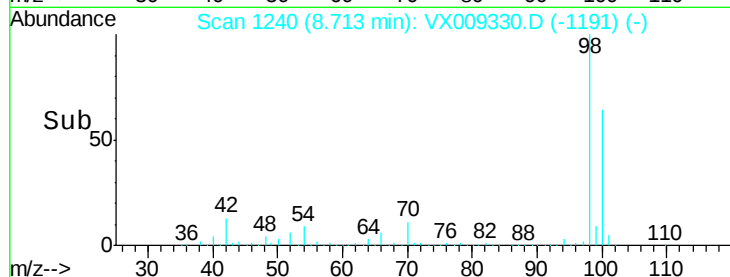
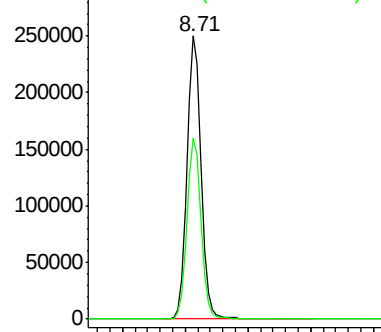
98 100

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



#62

4-Bromofluorobenzene

Concen: 44.280 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

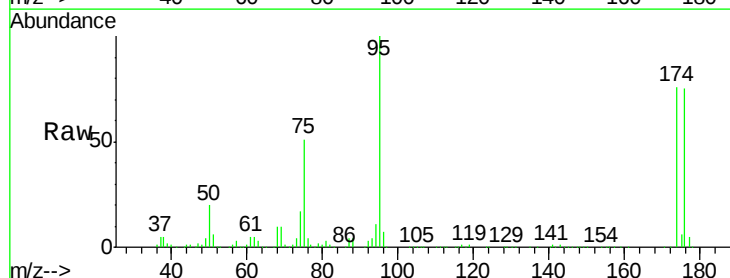
Tgt Ion: 95 Resp: 127604

Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

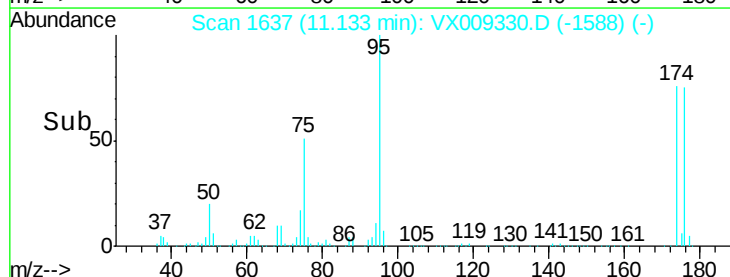
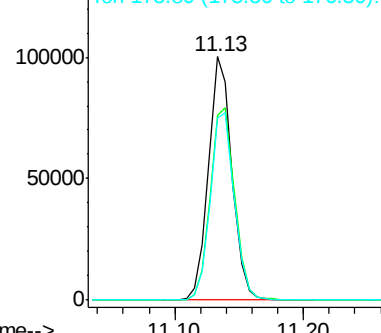
176 78.9 0.0 159.2

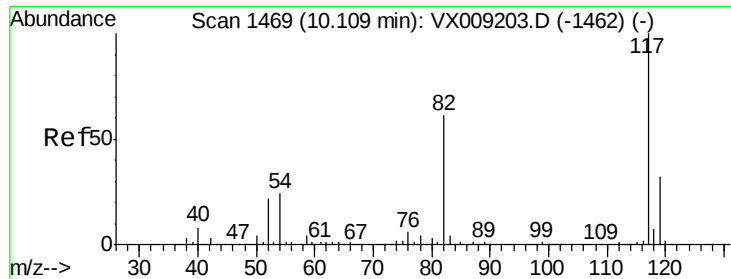


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

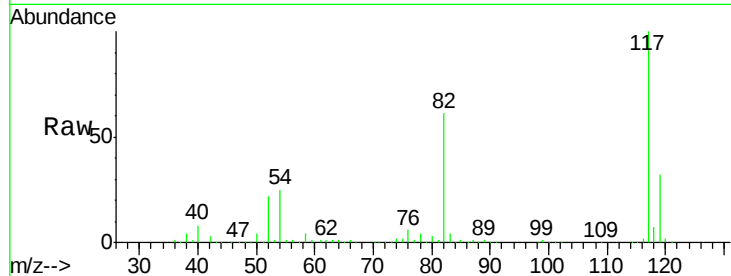




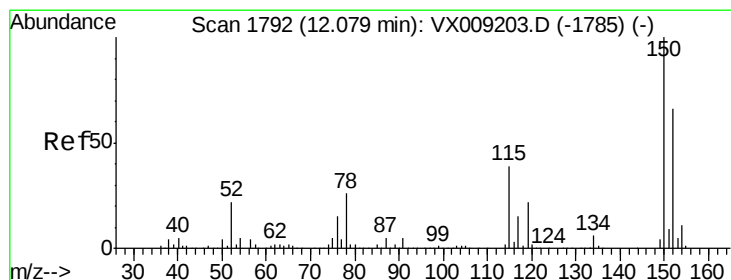
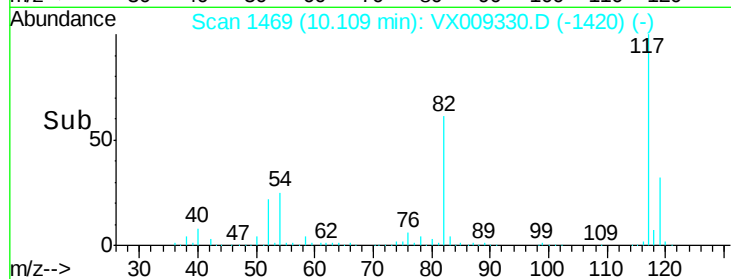
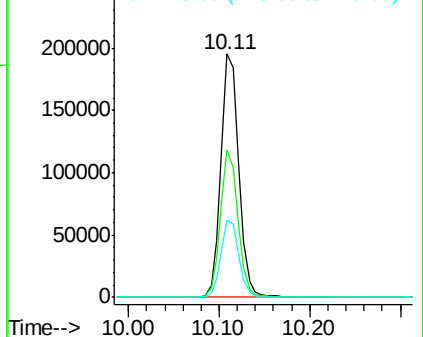
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009330.D
Acq: 03 May 2019 23:17

Instrument :
MSVOA_X
ClientSampleId :
Z4-TB02-190502

Tot Ion:117 Resp: 270016
Ion Ratio Lower Upper
117 100
82 60.5 48.8 73.2
119 31.8 25.8 38.6

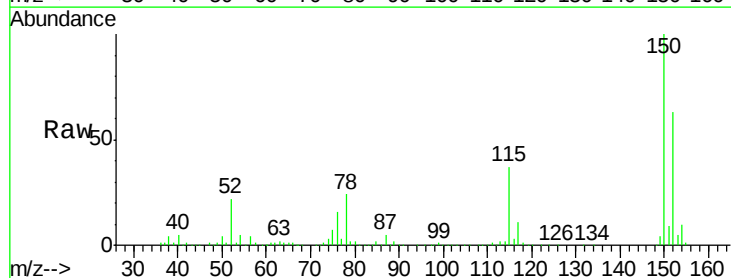


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

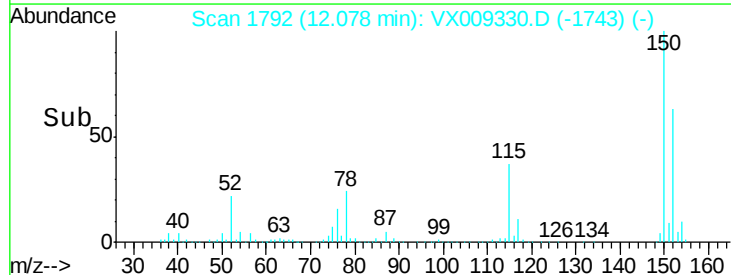
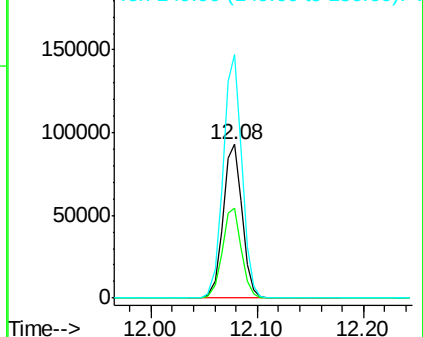


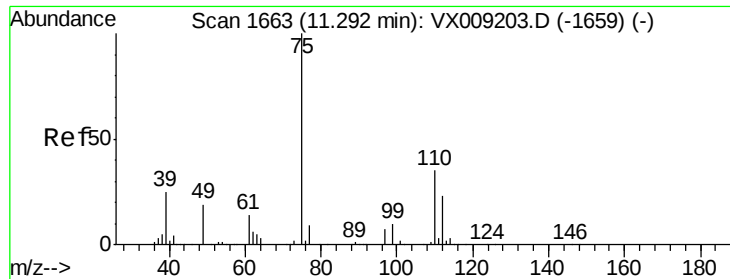
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009330.D
Acq: 03 May 2019 23:17

Tgt Ion:152 Resp: 115862
Ion Ratio Lower Upper
152 100
115 58.4 41.2 123.6
150 156.2 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





#76

1,2,3-Trichloropropane

Concen: 23.844 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

Instrument :

MSVOA_X

ClientSampleId :

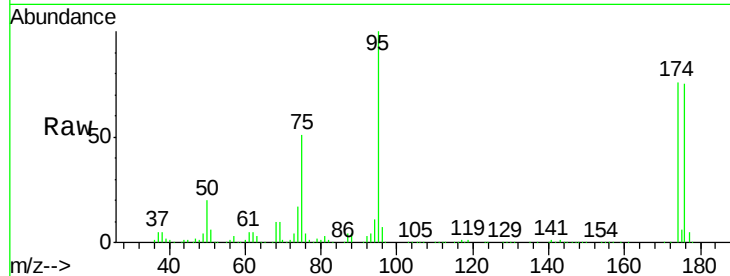
Z4-TB02-190502

Tot Ion: 75 Resp: 64084

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

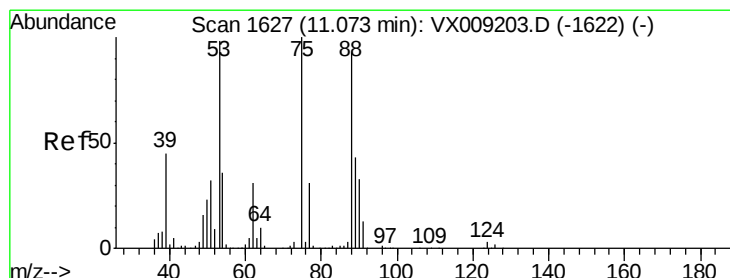
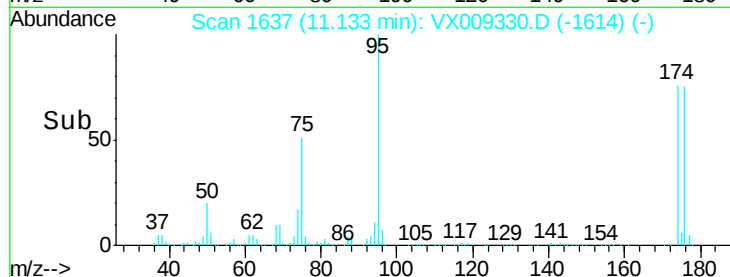
20000

10000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.009 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009330.D

Acq: 03 May 2019 23:17

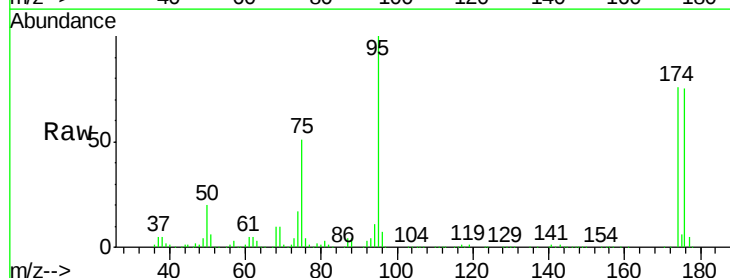
Tgt Ion: 75 Resp: 64084

Ion Ratio Lower Upper

75 100

53 0.0 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

60000

50000

40000

30000

20000

10000

0

11.10 11.20

Time-->

