

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009633.D
 Acq On : 17 May 2019 02:07
 Operator : JC/SP
 Sample : K2887-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW732R-190515

Quant Time: May 17 06:44:10 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	176746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	284542	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112066	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	118926	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
35) Dibromofluoromethane	5.50	113	86174	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.71	98	356312	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
62) 4-Bromofluorobenzene	11.13	95	120031	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

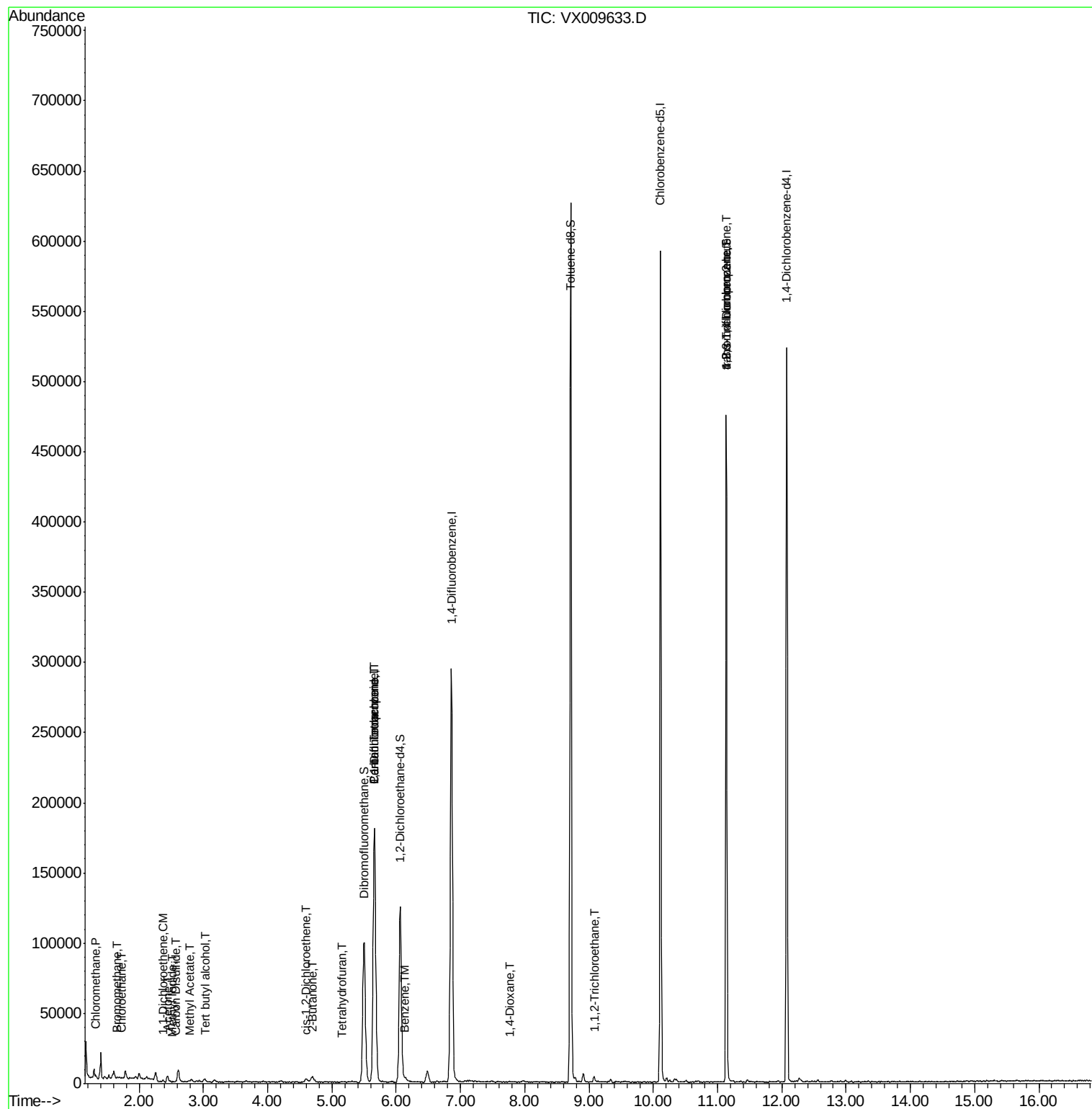
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1997	0.898	ug/l	96
5) Bromomethane	1.65	94	279	0.214	ug/l #	71
6) Chloroethane	1.72	64	300	0.215	ug/l	95
10) Methyl Iodide	2.52	142	57	4.621	ug/l #	42
11) Tert butyl alcohol	3.02	59	1792	3.209	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	382	0.230	ug/l #	85
16) Acetone	2.44	43	4958	3.827	ug/l	93
17) Carbon Disulfide	2.57	76	1177	0.253	ug/l #	89
18) Methyl Acetate	2.78	43	664	0.216	ug/l #	88
25) 2-Butanone	4.71	43	940	0.467	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	1243	0.579	ug/l	95
28) Bromochloromethane	5.01	49	143	Below Cal	#	20
29) Tetrahydrofuran	5.16	42	356	0.275	ug/l #	61
36) 1,1-Dichloropropene	5.66	75	13497	5.104	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16368	6.813	ug/l #	16
40) Benzene	6.13	78	3059	0.374	ug/l	95
49) 1,4-Dioxane	7.76	88	420	7.083	ug/l #	84
55) 1,1,2-Trichloroethane	9.08	97	2271	1.119	ug/l #	21
76) 1,2,3-Trichloropropane	11.13	75	61622	23.705	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61622	60.653	ug/l #	10

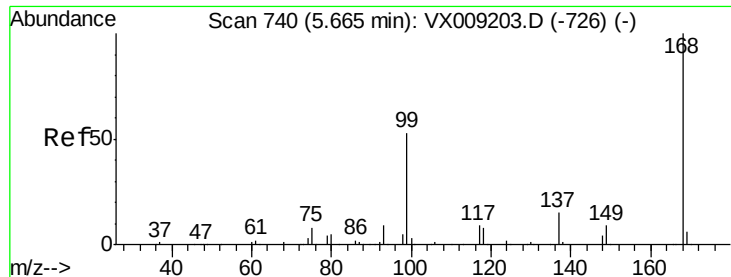
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
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QLast Update : Thu May 09 07:31:15 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: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

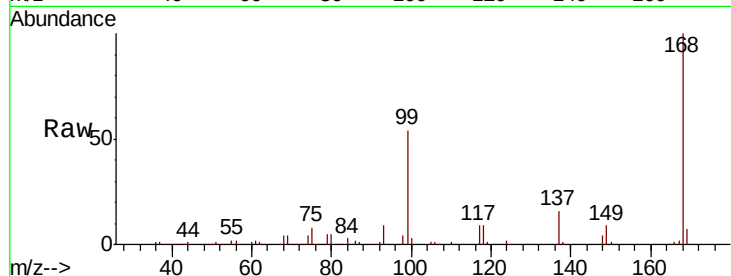
SS052MW732R-190515

Tot Ion:168 Resp: 176746

Ion Ratio Lower Upper

168 100

99 54.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

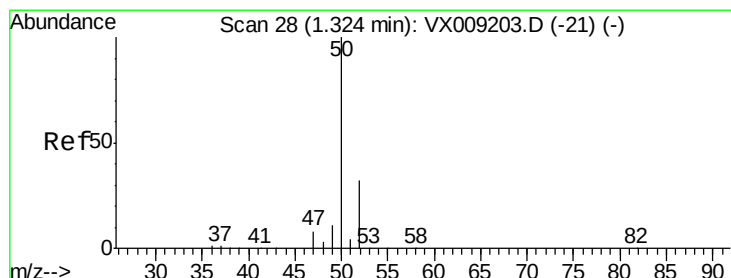
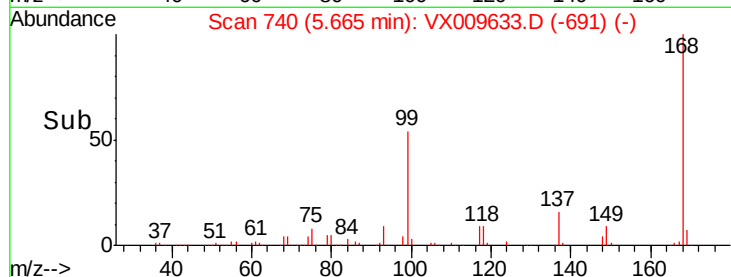
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.898 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009633.D

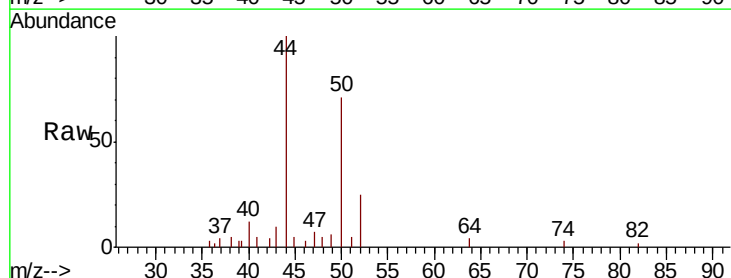
Acq: 17 May 2019 02:07

Tgt Ion: 50 Resp: 1997

Ion Ratio Lower Upper

50 100

52 34.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

2000

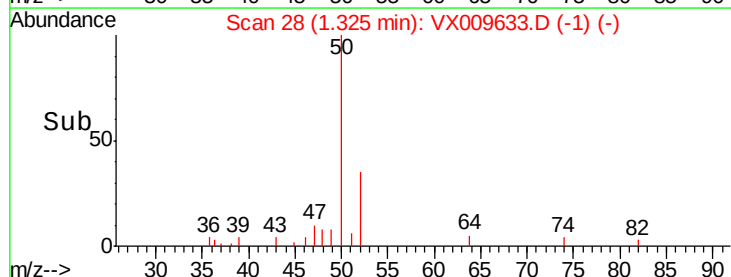
1500

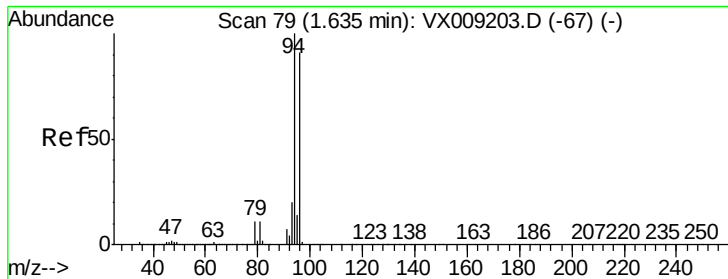
1000

500

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.214 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

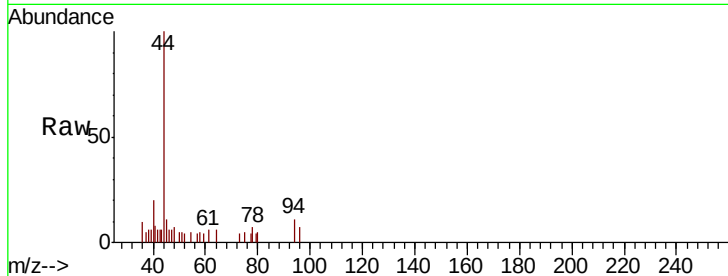
SS052MW732R-190515

Tot Ion: 94 Resp: 279

Ion Ratio Lower Upper

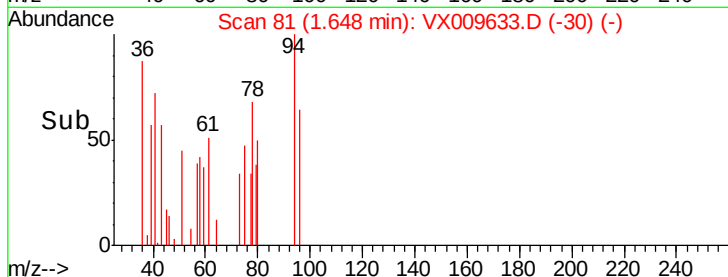
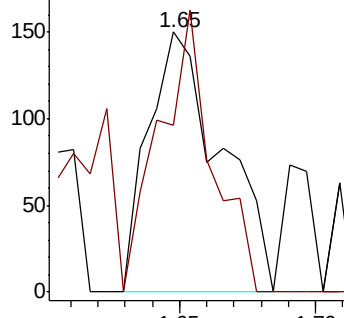
94 100

96 64.0 73.0 109.6#

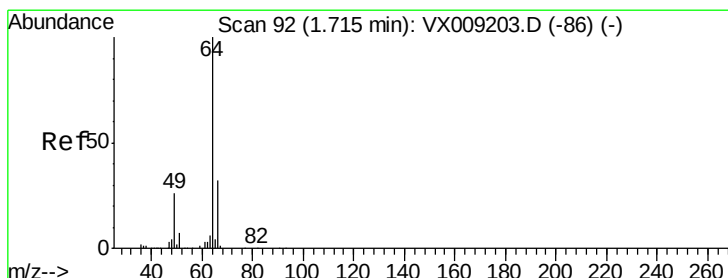


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.215 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX009633.D

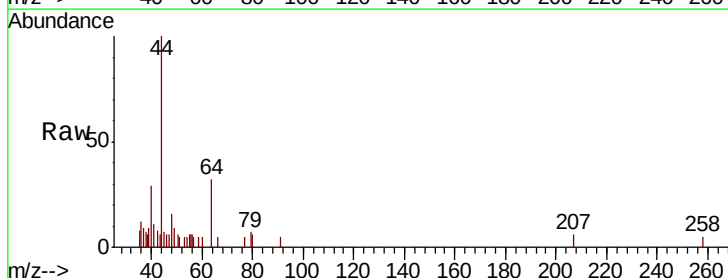
Acq: 17 May 2019 02:07

Tgt Ion: 64 Resp: 300

Ion Ratio Lower Upper

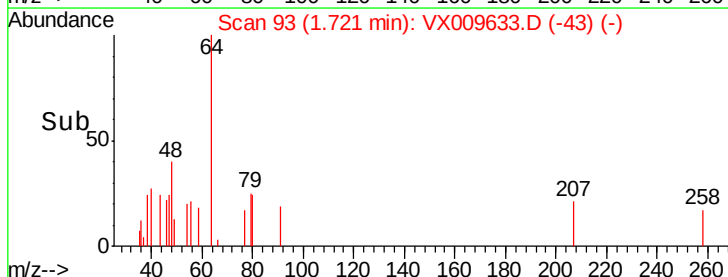
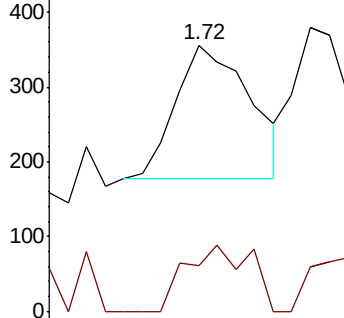
64 100

66 34.3 25.3 37.9

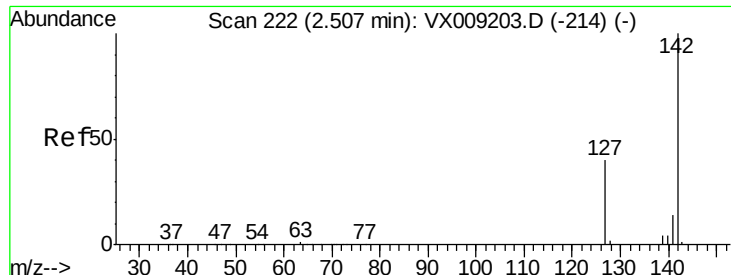


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



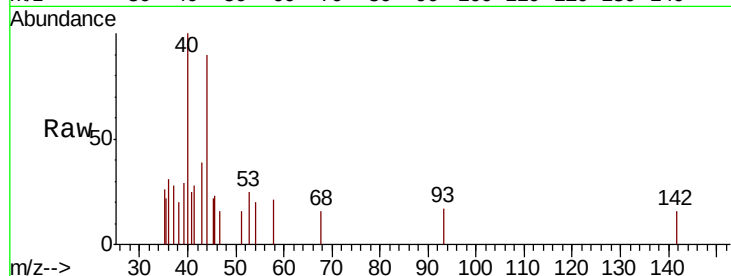
Time-->



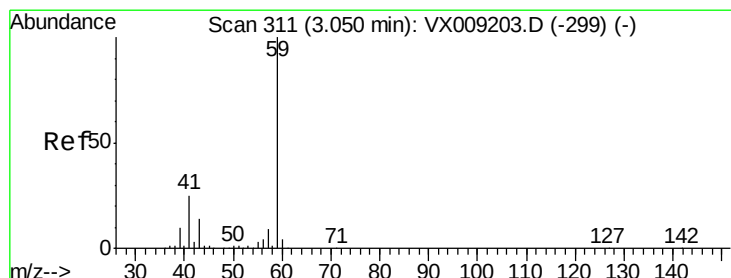
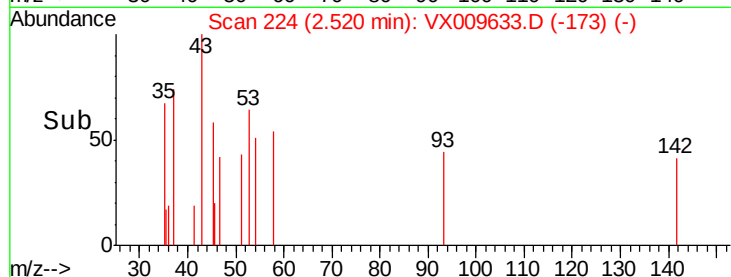
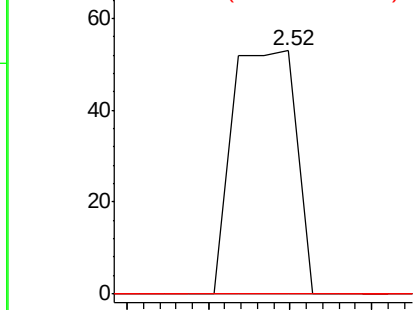
#10
Methvl Iodide
Concen: 4.621 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009633.D
Acq: 17 May 2019 02:07

Instrument :
MSVOA_X
ClientSampleId :
SS052MW732R-190515

Tot Ion:142 Resp: 57
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

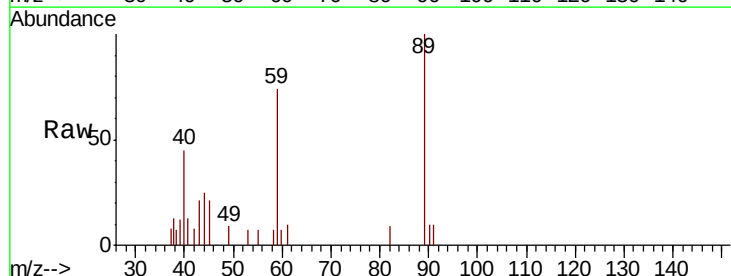


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

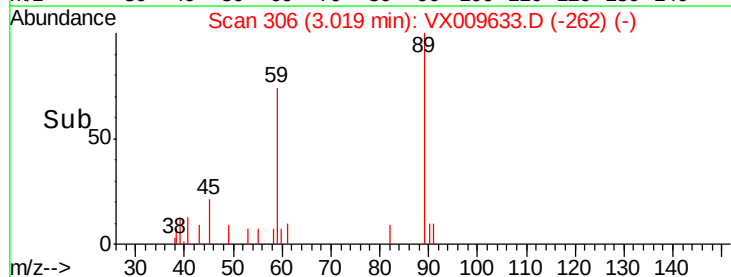
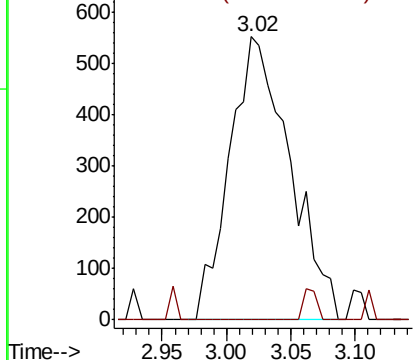


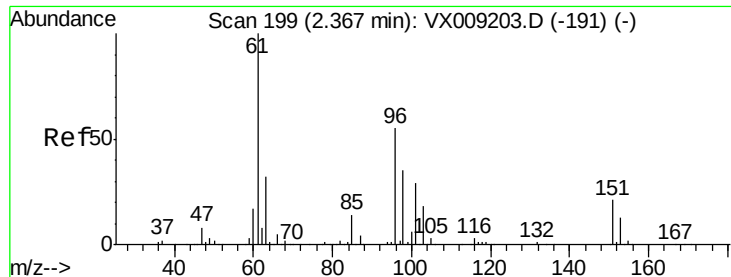
#11
Tert butyl alcohol
Concen: 3.209 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009633.D
Acq: 17 May 2019 02:07

Tgt Ion: 59 Resp: 1792
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#12

1,1-Dichloroethene

Concen: 0.230 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW732R-190515

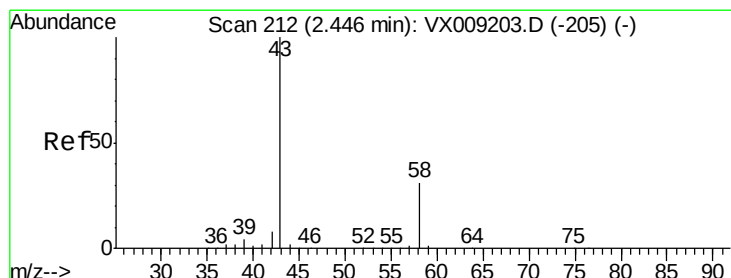
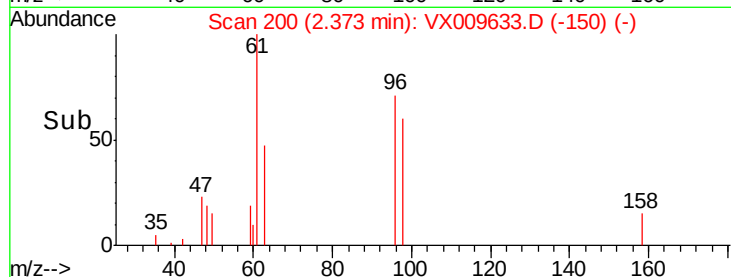
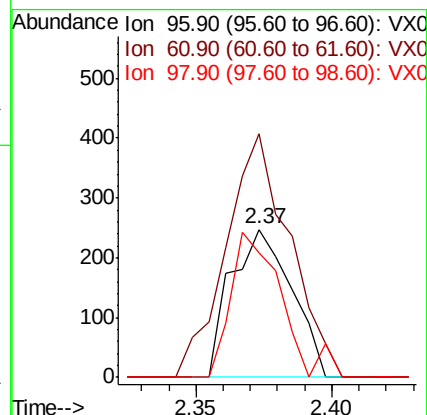
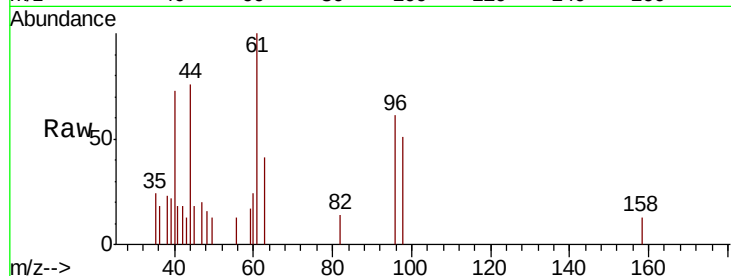
Tot Ion: 96 Resp: 382

Ion Ratio Lower Upper

96 100

61 164.8 144.3 216.5

98 84.6 50.3 75.5#



#16

Acetone

Concen: 3.827 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009633.D

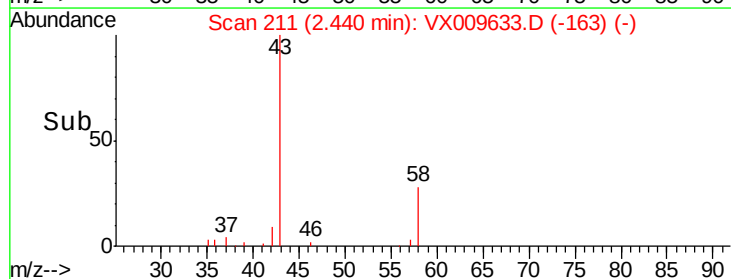
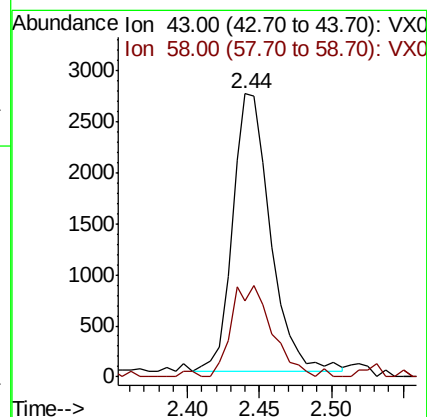
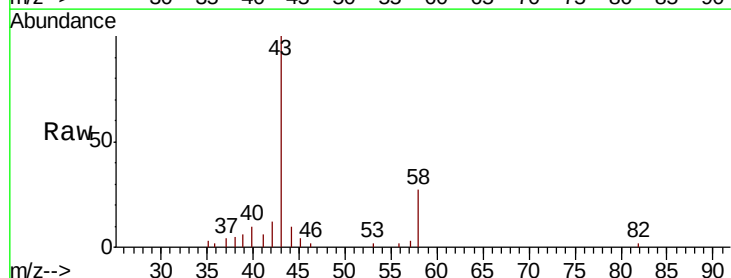
Acq: 17 May 2019 02:07

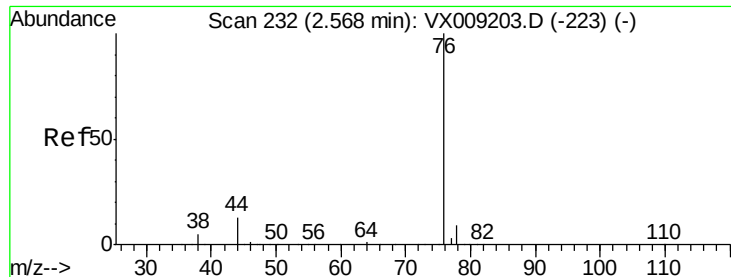
Tgt Ion: 43 Resp: 4958

Ion Ratio Lower Upper

43 100

58 27.4 24.9 37.3





#17

Carbon Disulfide

Concen: 0.253 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

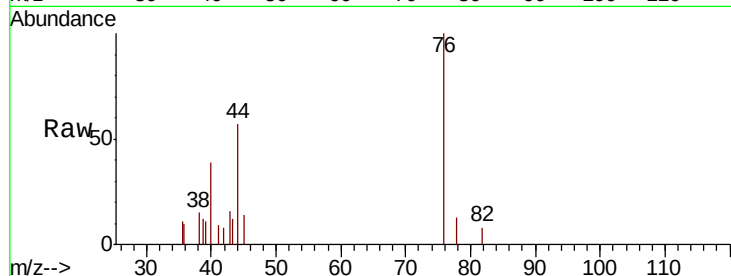
SS052MW732R-190515

Tot Ion: 76 Resp: 1177

Ion Ratio Lower Upper

76 100

78 13.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

600

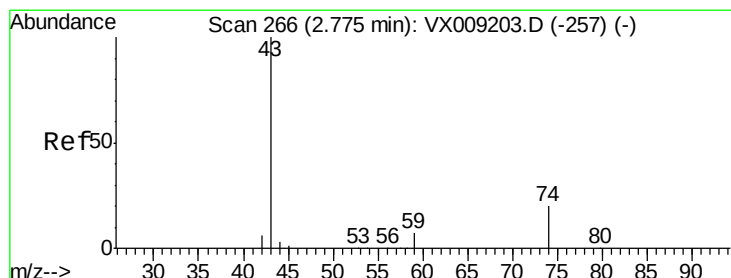
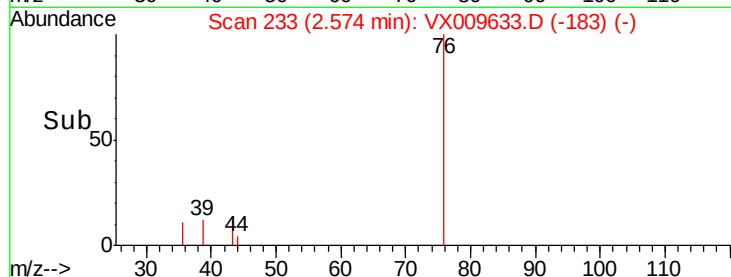
400

200

0

2.50 2.55 2.60 2.65

Time-->



#18

Methyl Acetate

Concen: 0.216 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009633.D

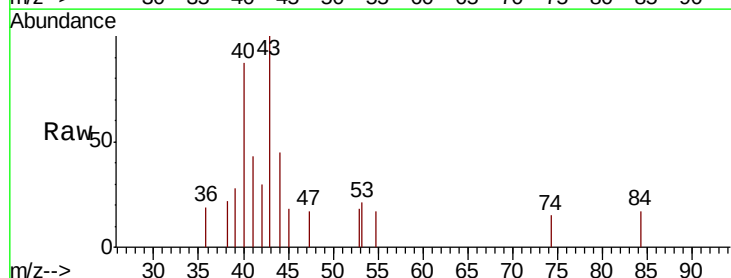
Acq: 17 May 2019 02:07

Tgt Ion: 43 Resp: 664

Ion Ratio Lower Upper

43 100

74 14.9 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

400

300

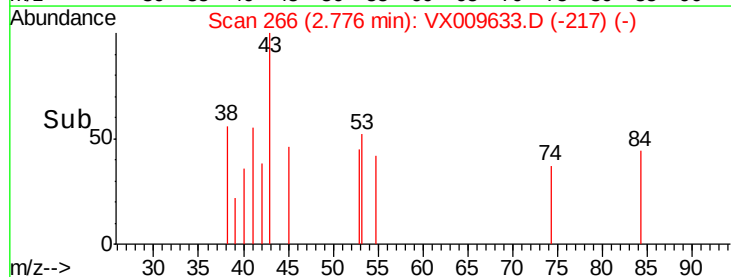
200

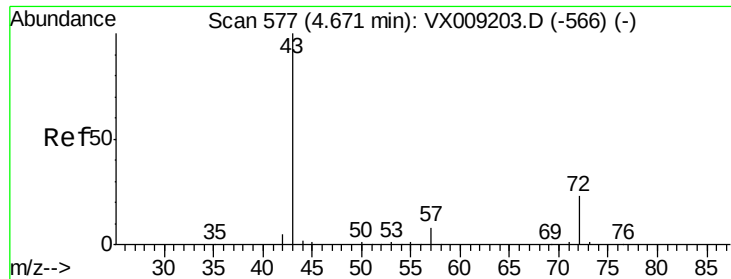
100

0

2.70 2.75 2.80

Time-->





#25

2-Butanone

Concen: 0.467 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.04 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

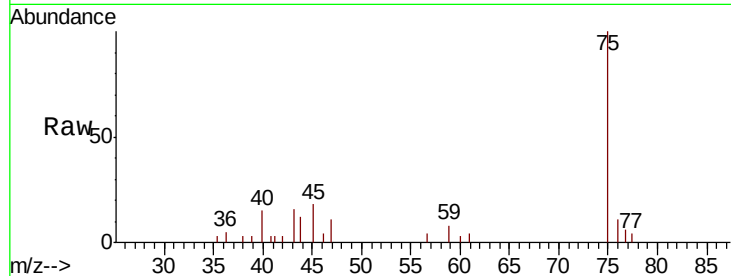
SS052MW732R-190515

Tot Ion: 43 Resp: 940

Ion Ratio Lower Upper

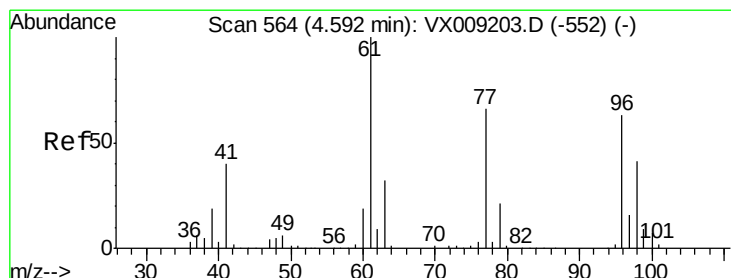
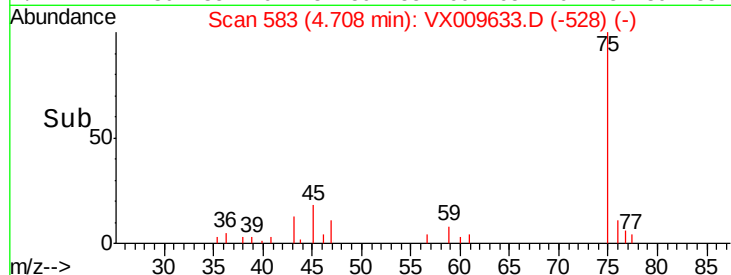
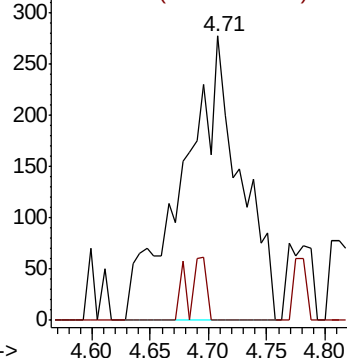
43 100

72 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.579 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

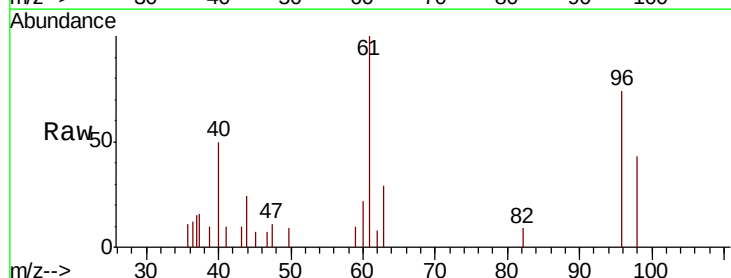
Tgt Ion: 96 Resp: 1243

Ion Ratio Lower Upper

96 100

61 168.1 0.0 324.0

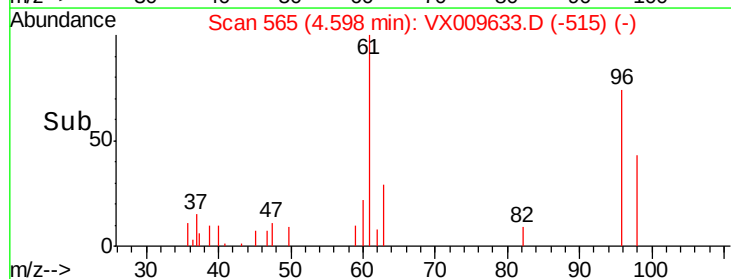
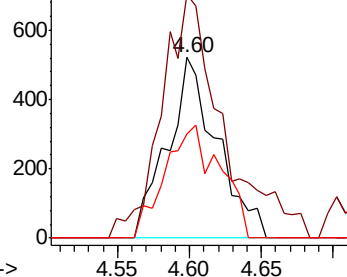
98 69.8 0.0 130.4

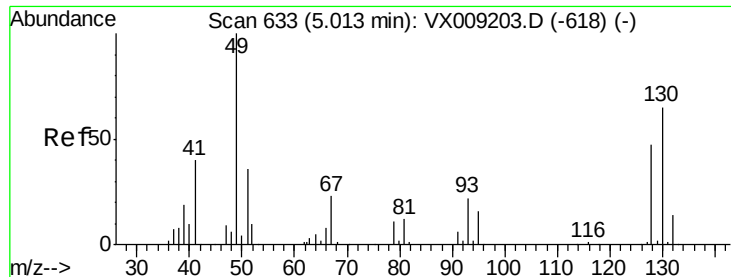


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW732R-190515

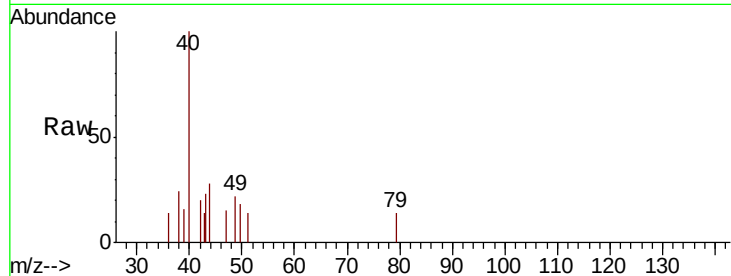
Tot Ion: 49 Resp: 143

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

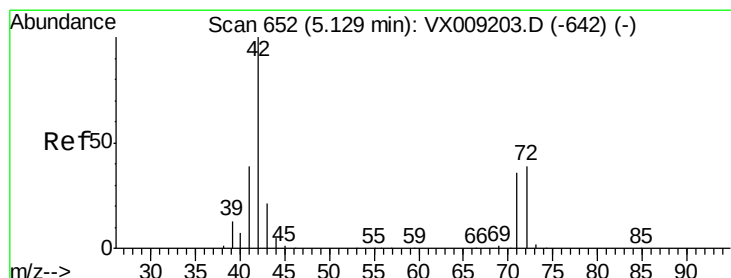
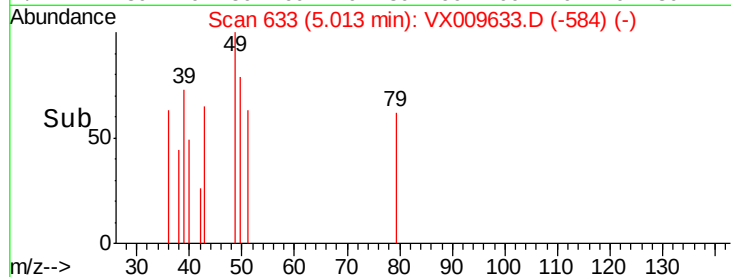
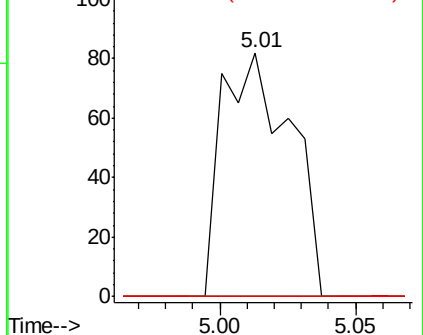
130 0.0 51.2 76.8#



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



#29

Tetrahydrofuran

Concen: 0.275 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

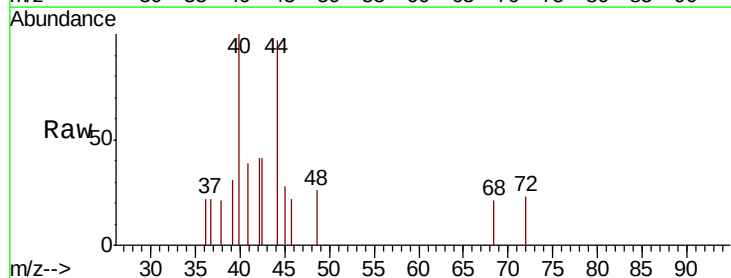
Tgt Ion: 42 Resp: 356

Ion Ratio Lower Upper

42 100

72 27.2 30.4 45.6#

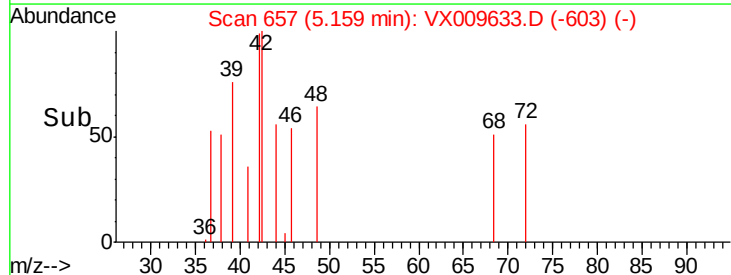
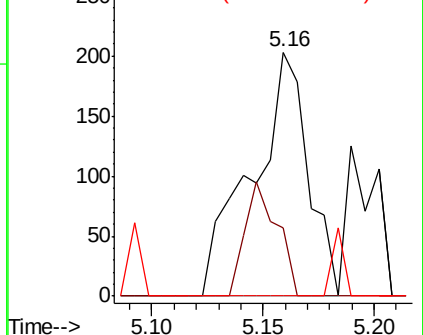
71 0.0 28.6 43.0#

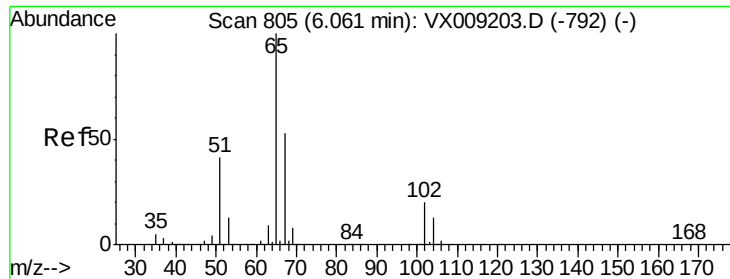


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

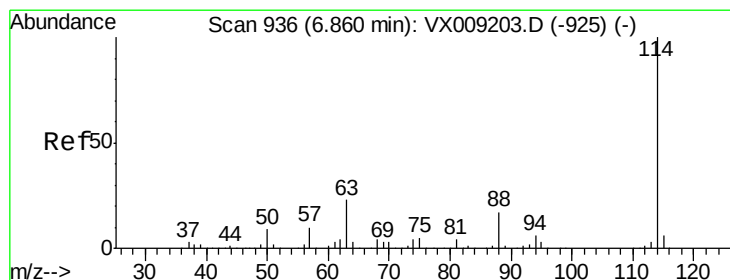
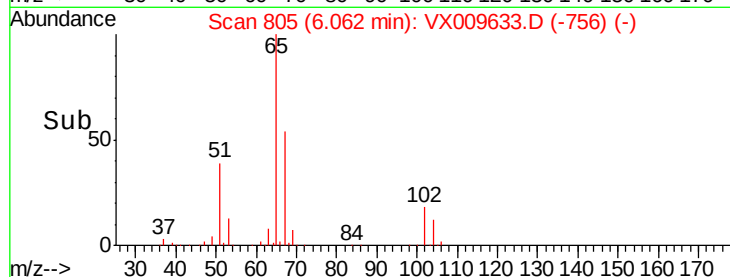
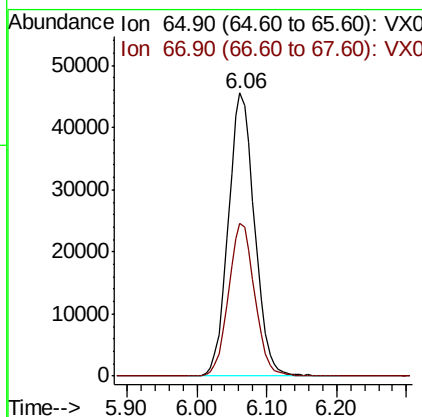
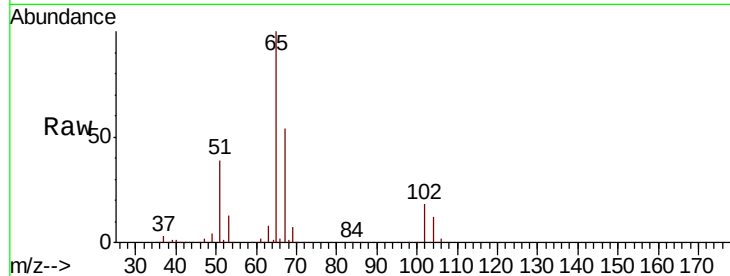




#33
 1,2-Dichloroethane-d4
 Concen: 49.290 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

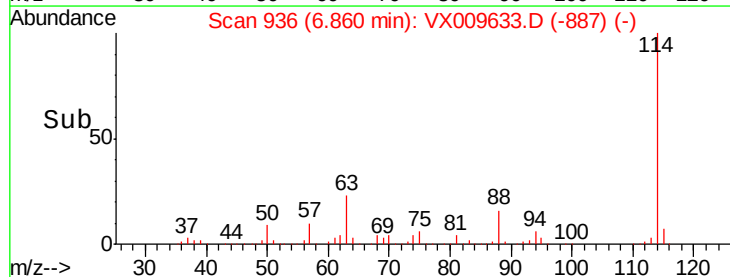
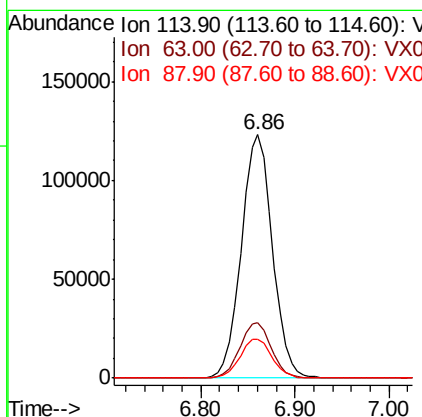
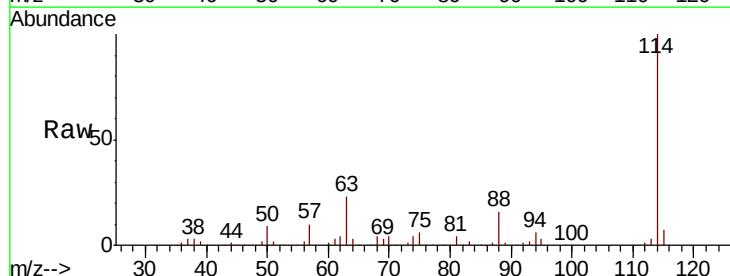
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW732R-190515

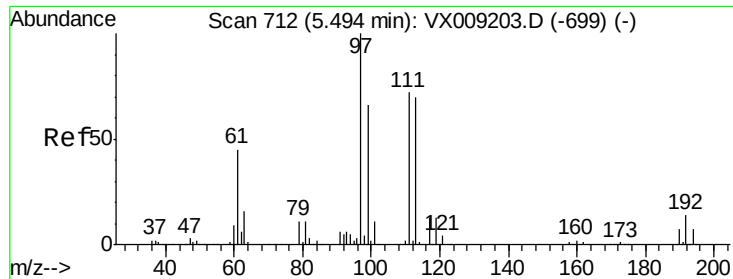
Tot Ion: 65 Resp: 118926
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

Tgt Ion: 114 Resp: 284542
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.6
 88 16.0 0.0 33.2

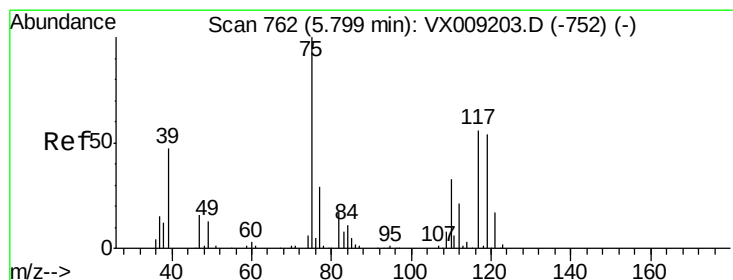
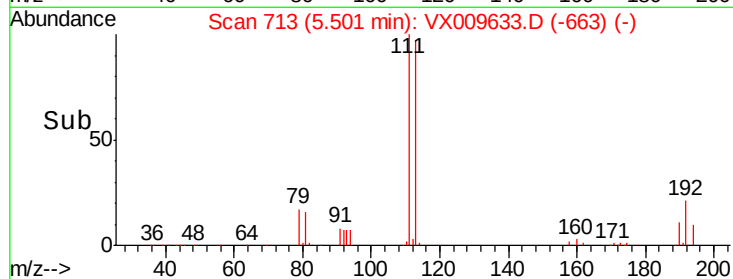
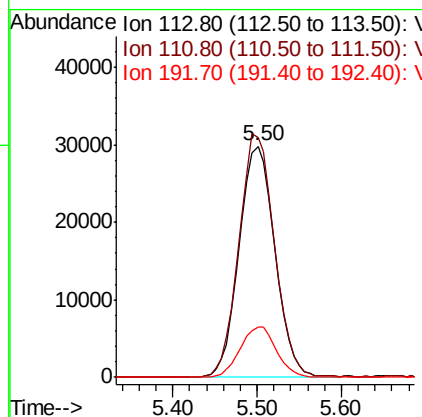
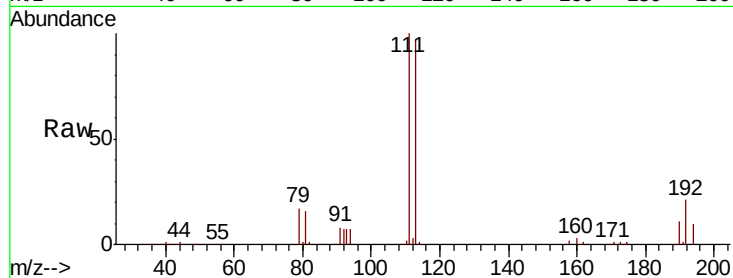




#35
 Dibromofluoromethane
 Concen: 48.176 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

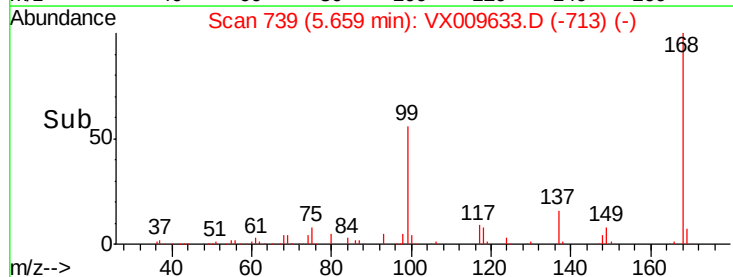
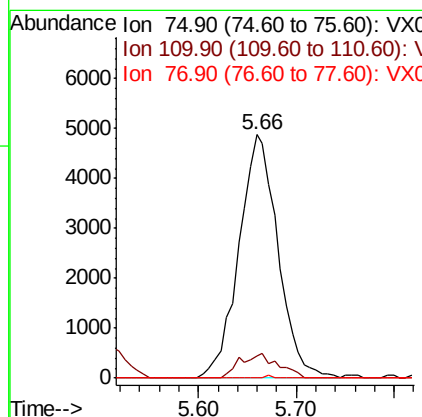
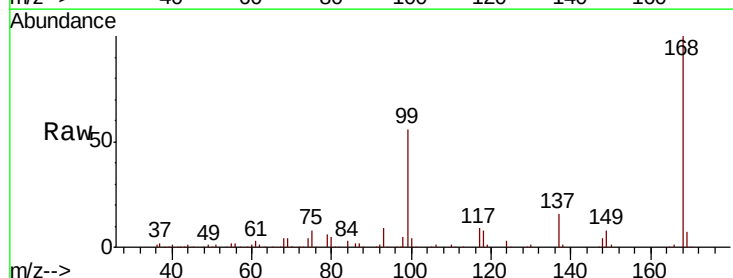
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW732R-190515

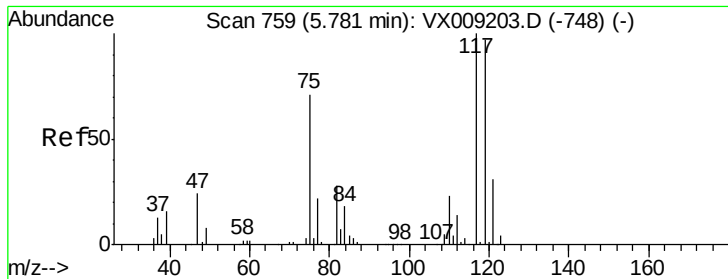
Tot Ion:113 Resp: 86174
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.8 124.2
 192 22.0 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.104 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

Tgt Ion: 75 Resp: 13497
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.9 50.6#
 77 0.1 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.813 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009633.D

Acq: 17 May 2019 02:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW732R-190515

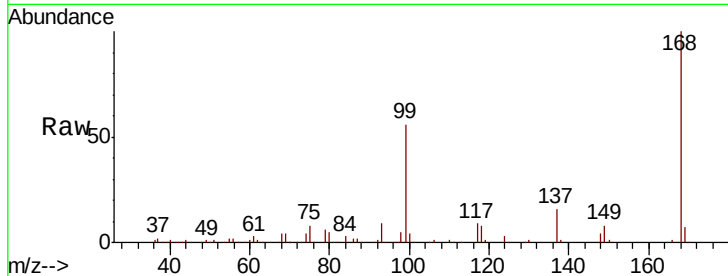
Tot Ion:117 Resp: 16368

Ion Ratio Lower Upper

117 100

119 5.4 77.5 116.3#

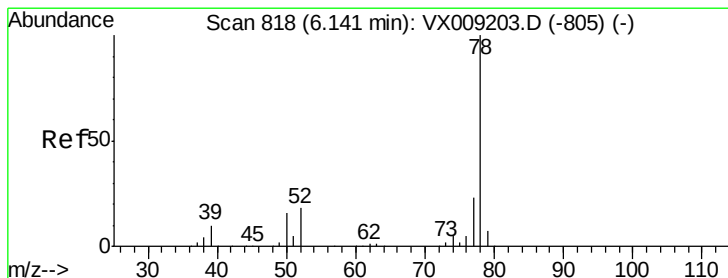
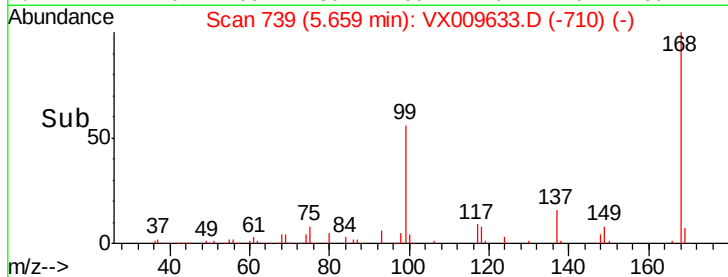
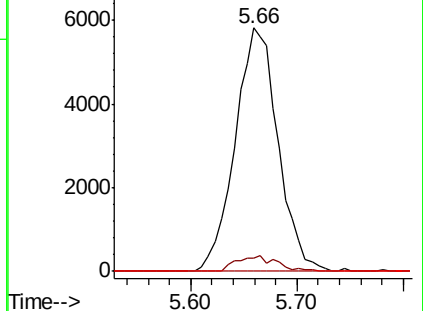
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 0.374 ug/l

RT: 6.13 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX009633.D

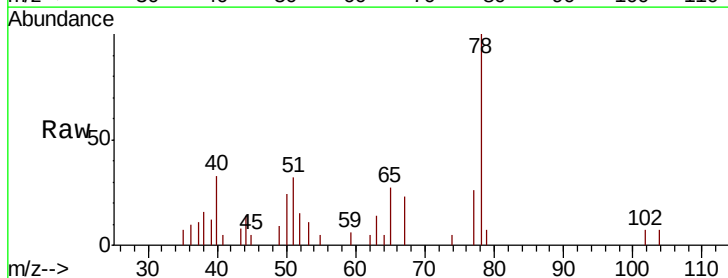
Acq: 17 May 2019 02:07

Tgt Ion: 78 Resp: 3059

Ion Ratio Lower Upper

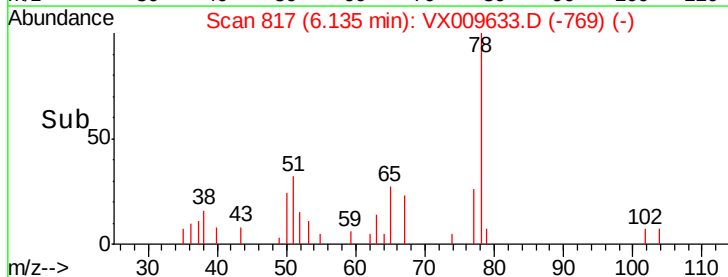
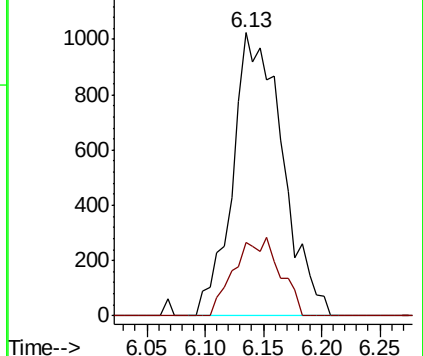
78 100

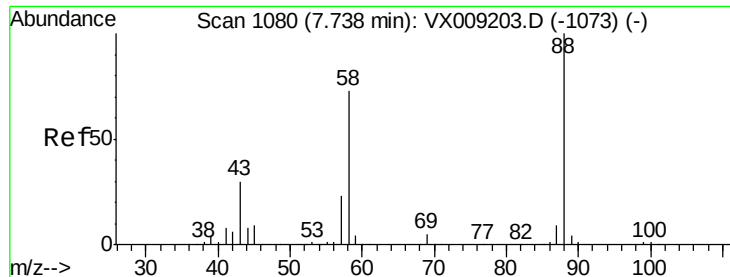
77 25.9 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

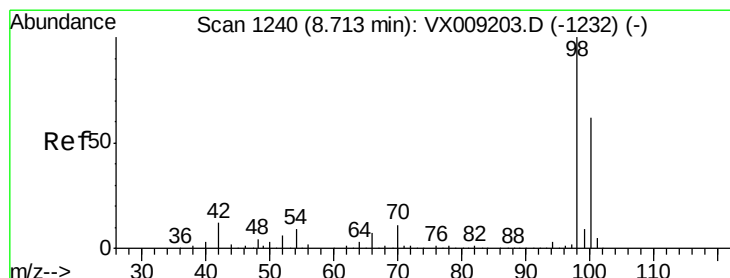
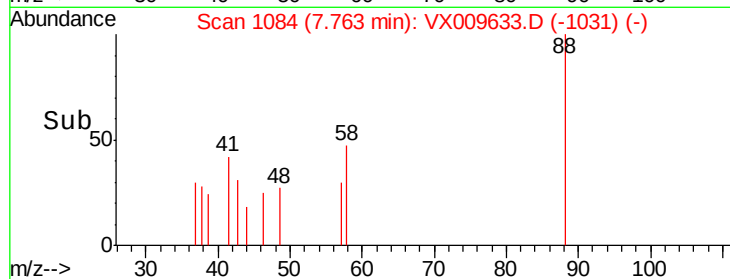
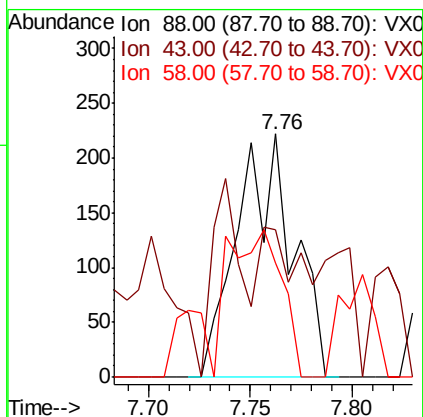
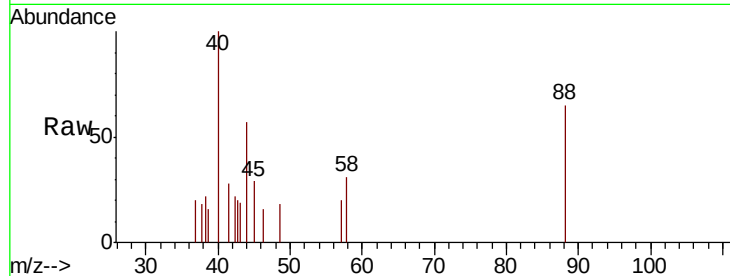




#49
1,4-Dioxane
Concen: 7.083 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX009633.D
Acq: 17 May 2019 02:07

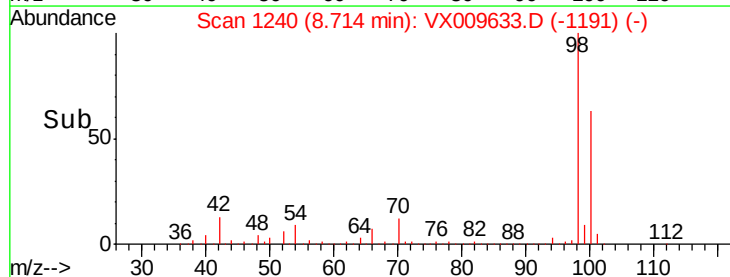
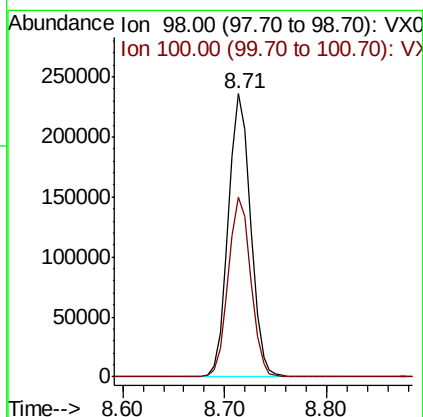
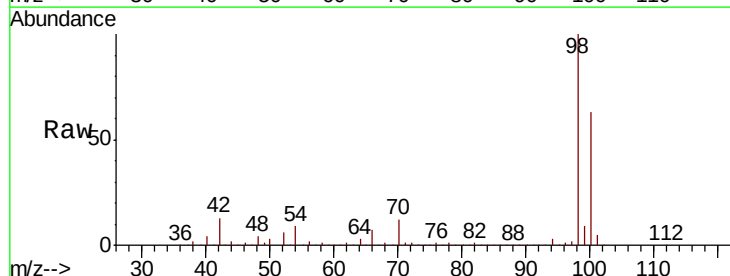
Instrument :
MSVOA_X
ClientSampleId :
SS052MW732R-190515

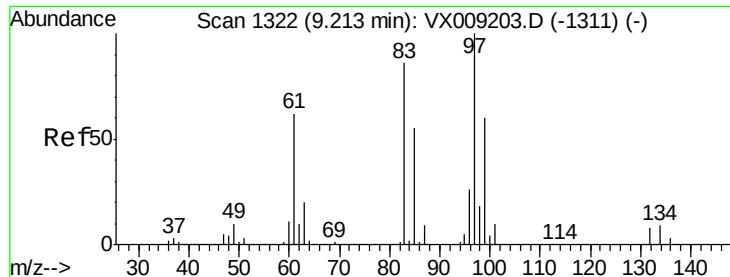
Tot Ion: 88 Resp: 420
Ion Ratio Lower Upper
88 100
43 36.9 28.6 42.8
58 57.9 61.7 92.5#



#50
Toluene-d8
Concen: 49.340 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009633.D
Acq: 17 May 2019 02:07

Tgt Ion: 98 Resp: 356312
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8

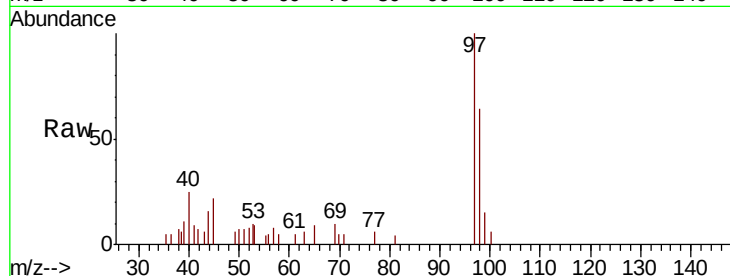




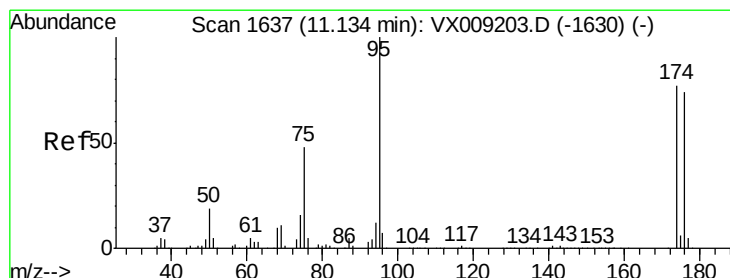
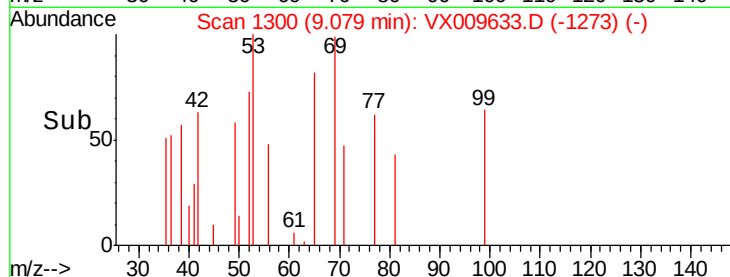
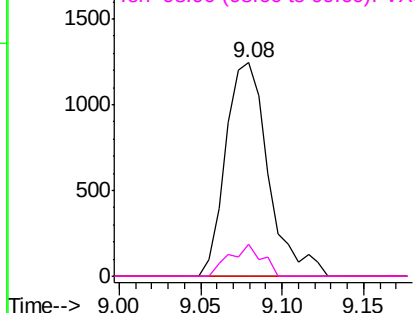
#55
 1,1,2-Trichloroethane
 Concen: 1.119 ug/l
 RT: 9.08 min Scan# 1300
 Delta R.T. -0.13 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW732R-190515

Tot Ion: 97 Resp: 2271
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.9 103.3#
 85 0.0 43.8 65.6#
 99 15.2 48.2 72.2#

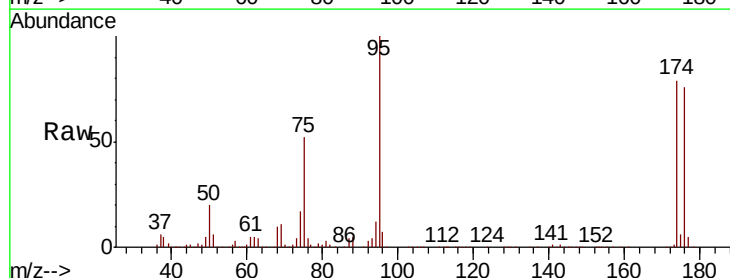


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

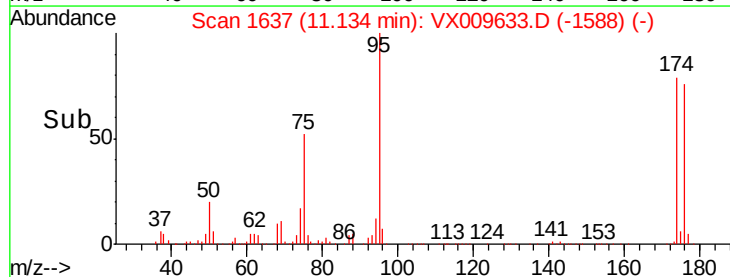
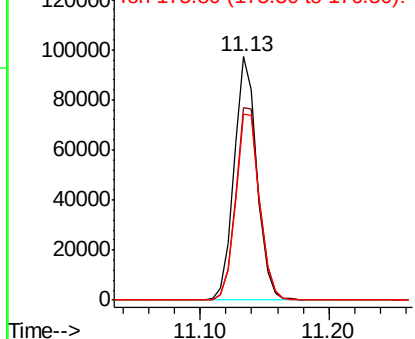


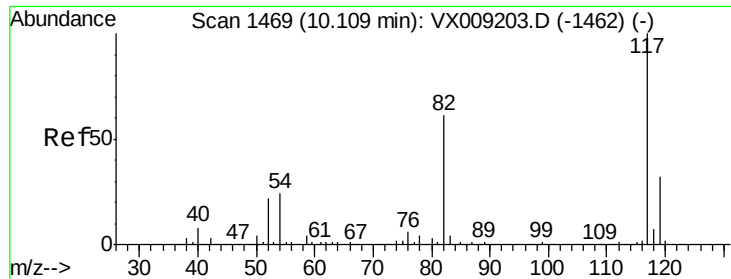
#62
 4-Bromofluorobenzene
 Concen: 45.743 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

Tgt Ion: 95 Resp: 120031
 Ion Ratio Lower Upper
 95 100
 174 82.2 0.0 161.6
 176 80.0 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

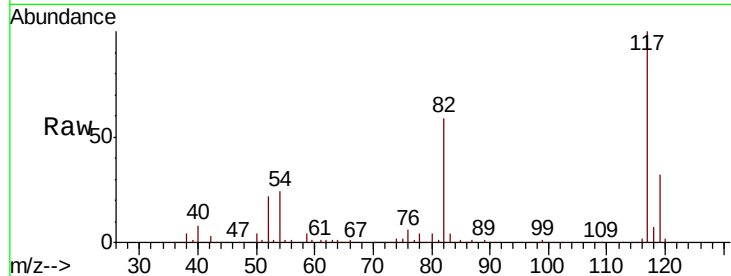




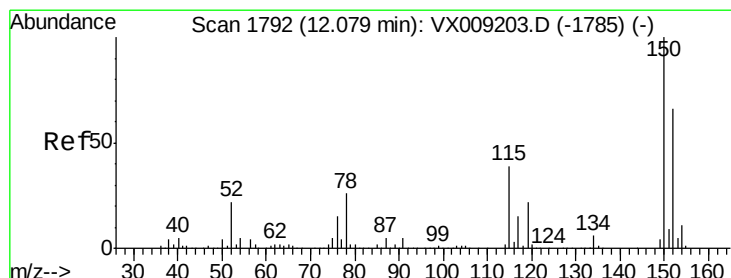
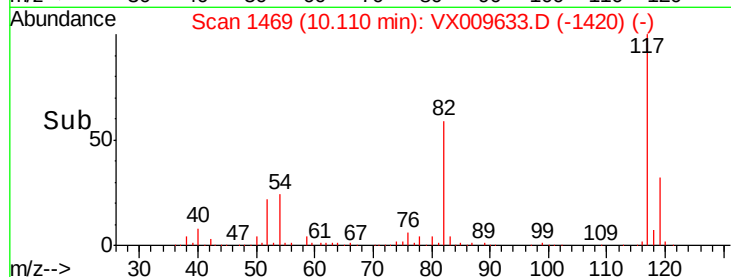
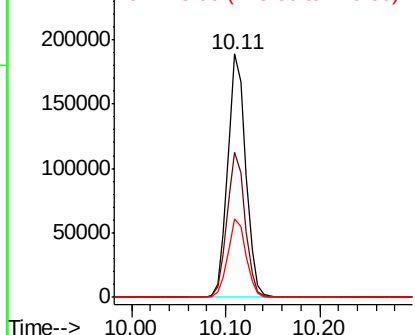
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009633.D
Acq: 17 May 2019 02:07

Instrument :
MSVOA_X
ClientSampleId :
SS052MW732R-190515

Tot Ion:117 Resp: 251354
Ion Ratio Lower Upper
117 100
82 59.4 48.8 73.2
119 32.4 25.8 38.6

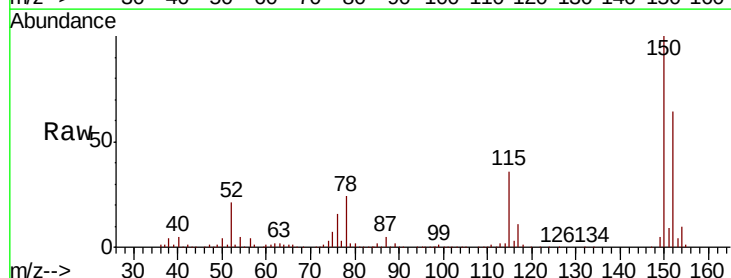


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

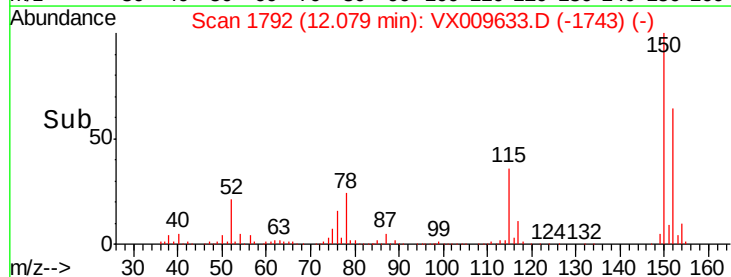
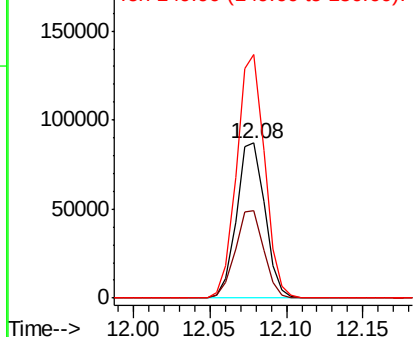


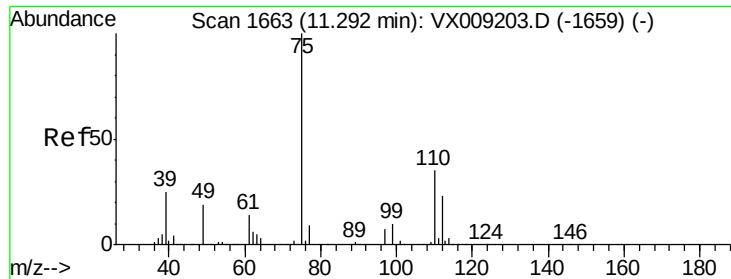
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009633.D
Acq: 17 May 2019 02:07

Tgt Ion:152 Resp: 112066
Ion Ratio Lower Upper
152 100
115 56.9 41.2 123.6
150 154.9 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

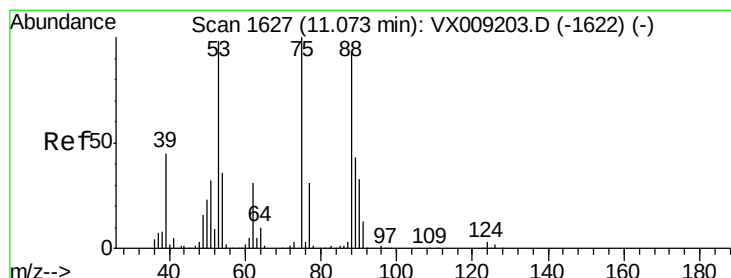
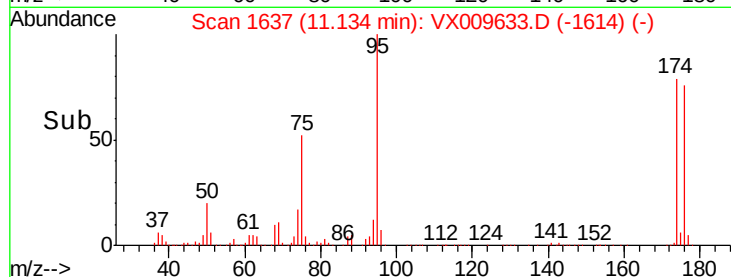
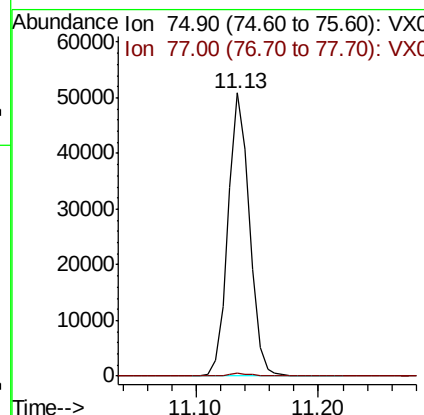
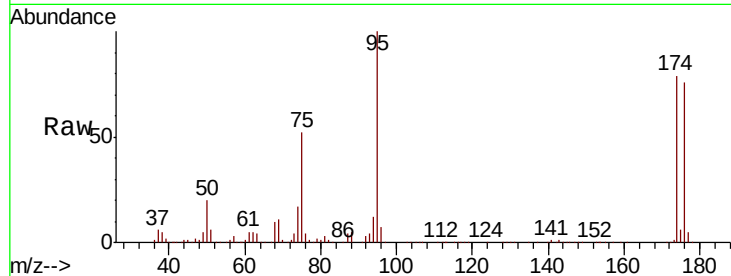




#76
 1,2,3-Trichloropropane
 Concen: 23.705 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW732R-190515

Tot Ion: 75 Resp: 61622
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.653 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009633.D
 Acq: 17 May 2019 02:07

Tgt Ion: 75 Resp: 61622
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.0 118.6#
 89 0.0 34.7 52.1#

