

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009505.D
 Acq On : 11 May 2019 00:44
 Operator : JC/SP
 Sample : K2810-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW010-190509

Quant Time: May 11 03:34:10 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	174863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	278958	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	104556	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	114755	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
35) Dibromofluoromethane	5.50	113	84695	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	8.71	98	344700	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.13	95	113554	44.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.28%	

Target Compounds

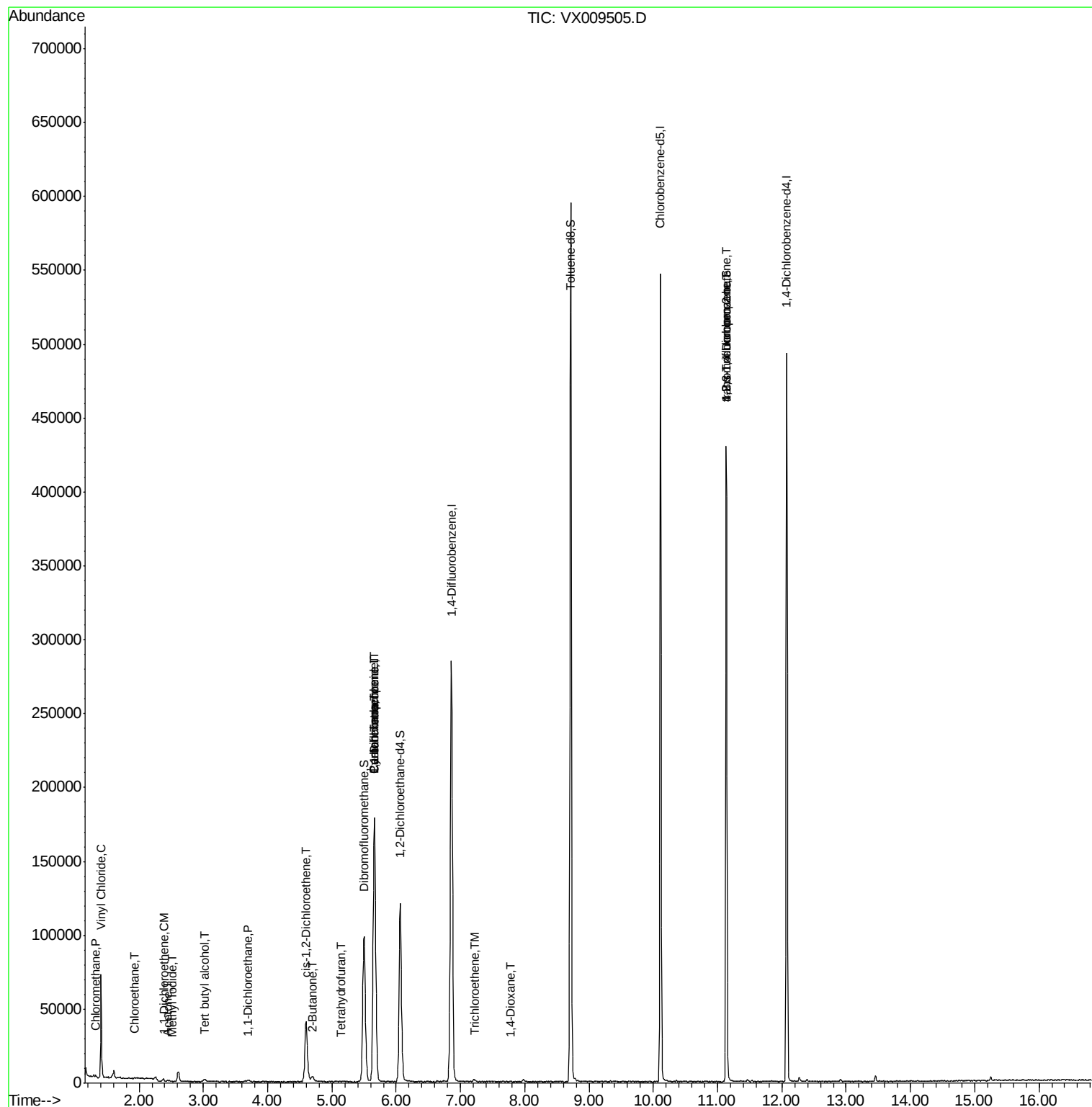
						Qvalue
3) Chloromethane	1.33	50	1090	0.495	ug/l	95
4) Vinyl Chloride	1.41	62	48929	22.808	ug/l	98
6) Chloroethane	1.93	64	660	0.479	ug/l	97
10) Methyl Iodide	2.51	142	60	4.623	ug/l #	42
11) Tert butyl alcohol	3.02	59	1260	2.280	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	611	0.372	ug/l	90
16) Acetone	2.44	43	1286	1.003	ug/l #	88
24) 1,1-Dichloroethane	3.70	63	1230	0.324	ug/l #	84
25) 2-Butanone	4.68	43	523	0.263	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	25647	12.076	ug/l	89
28) Bromochloromethane	5.00	49	20	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	302	0.236	ug/l #	44
31) Cyclohexane	5.66	56	3802	1.077	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13238	5.106	ug/l #	48
38) Carbon Tetrachloride	5.67	117	16052	6.815	ug/l #	16
44) Trichloroethene	7.23	130	577	0.297	ug/l	32
49) 1,4-Dioxane	7.77	88	18	0.310	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	57904	23.875	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	57904	61.087	ug/l #	10

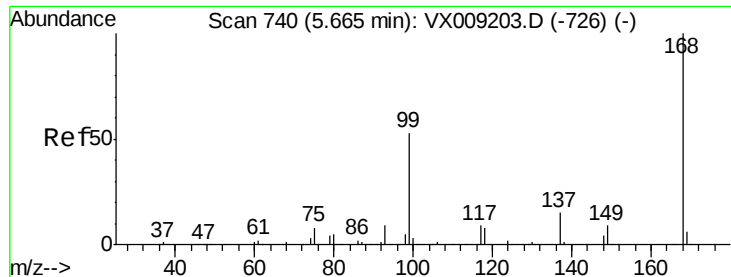
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

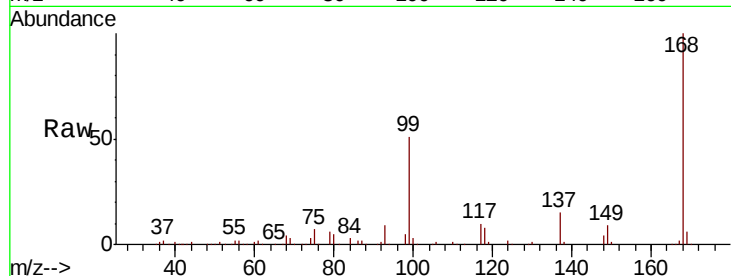
SS004MW010-190509

Tot Ion:168 Resp: 174863

Ion Ratio Lower Upper

168 100

99 51.2 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

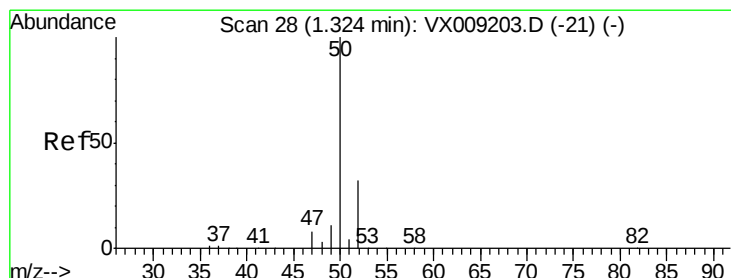
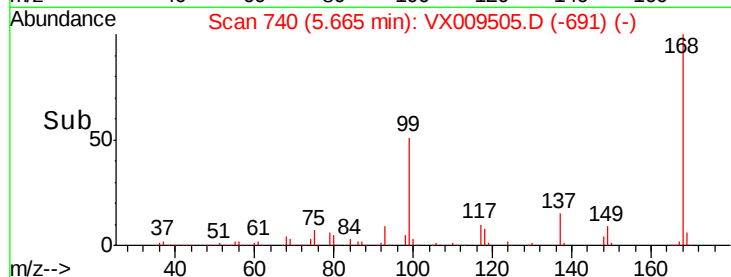
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.495 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009505.D

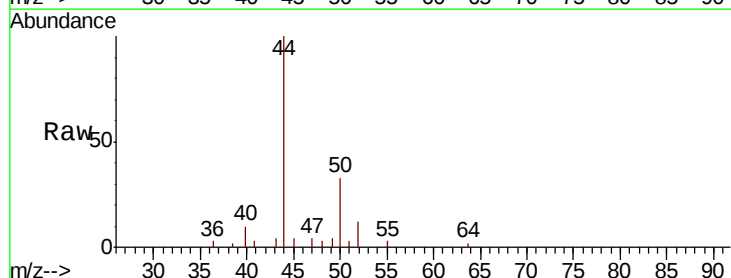
Acq: 11 May 2019 00:44

Tgt Ion: 50 Resp: 1090

Ion Ratio Lower Upper

50 100

52 35.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1000

800

600

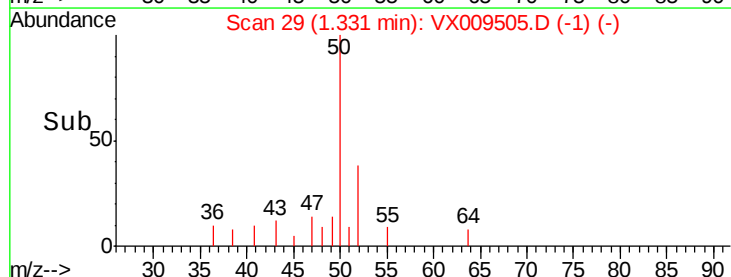
400

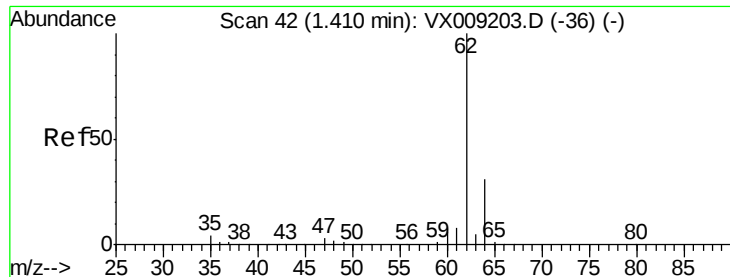
200

0

Time-->

1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 22.808 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

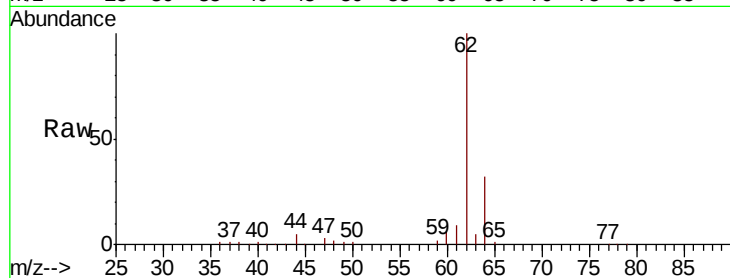
SS004MW010-190509

Tot Ion: 62 Resp: 48929

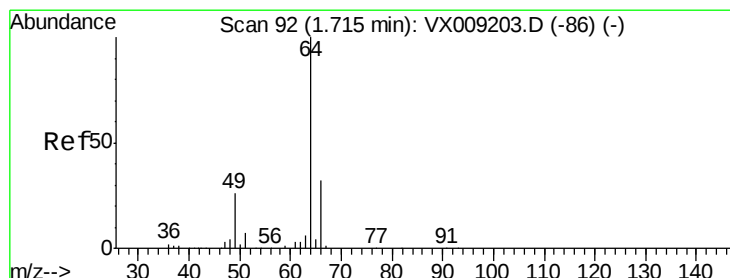
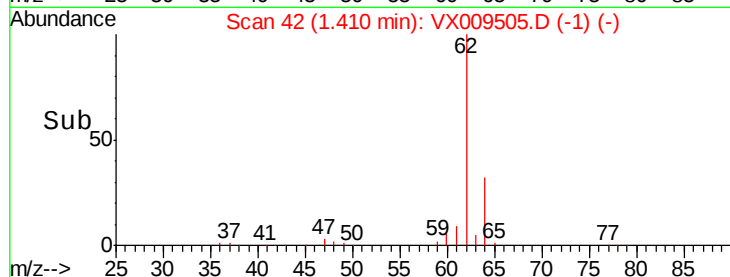
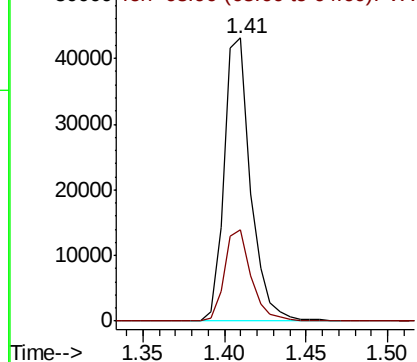
Ion Ratio Lower Upper

62 100

64 32.0 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: 0.479 ug/l

RT: 1.93 min Scan# 127

Delta R.T. 0.21 min

Lab File: VX009505.D

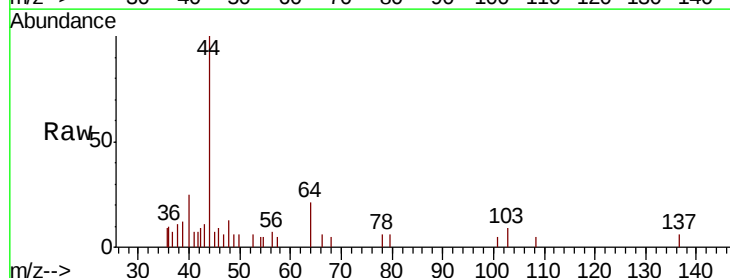
Acq: 11 May 2019 00:44

Tgt Ion: 64 Resp: 660

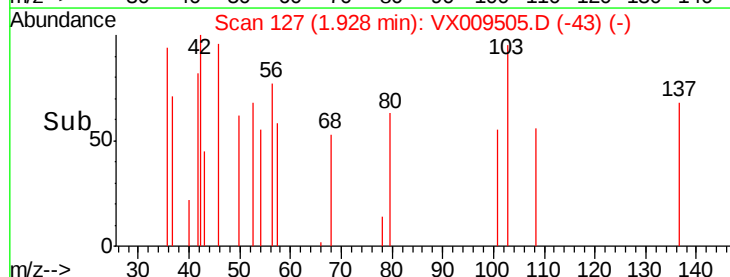
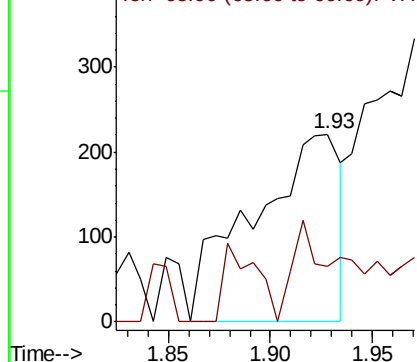
Ion Ratio Lower Upper

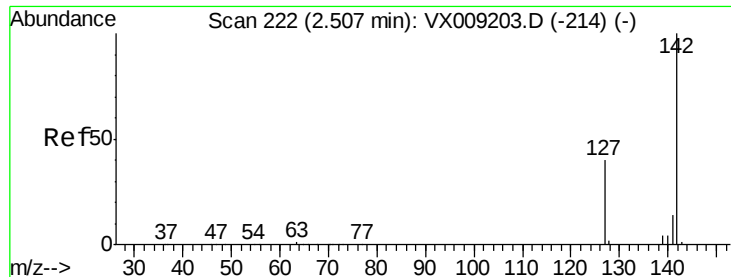
64 100

66 29.9 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0
Ion 65.90 (65.60 to 66.60): VX0

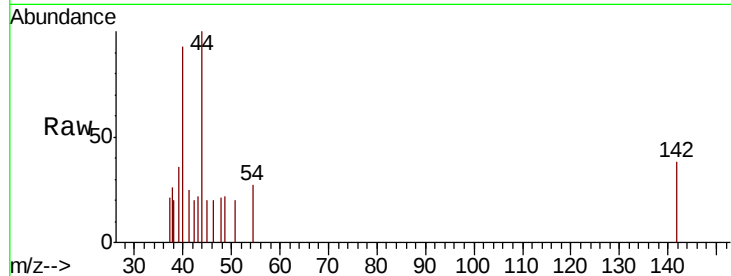




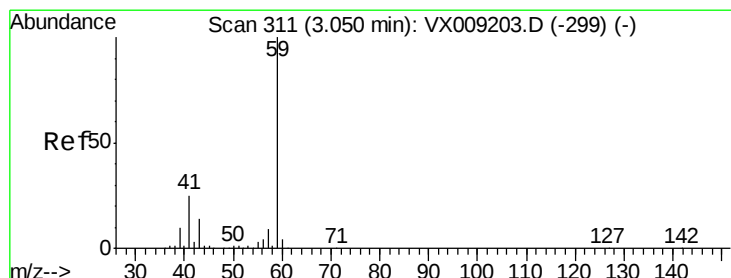
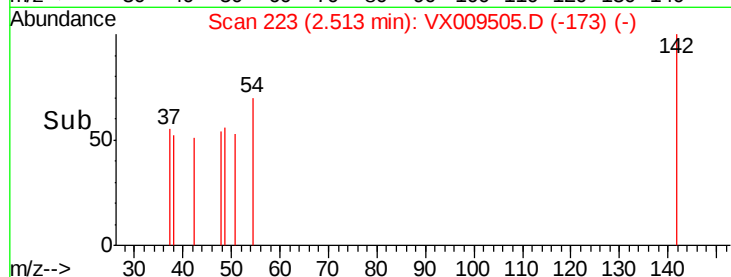
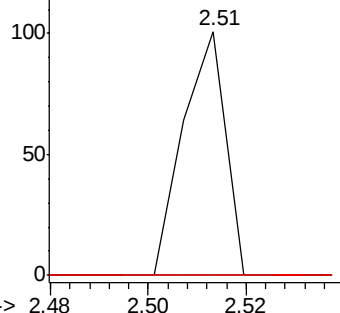
#10
Methvl Iodide
Concen: 4.623 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009505.D
Acq: 11 May 2019 00:44

Instrument :
MSVOA_X
ClientSampleId :
SS004MW010-190509

Tot Ion:142 Resp: 60
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

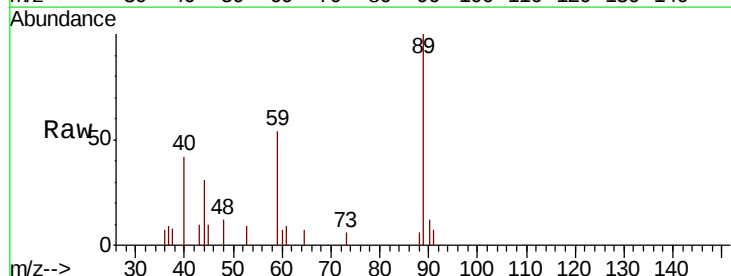


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

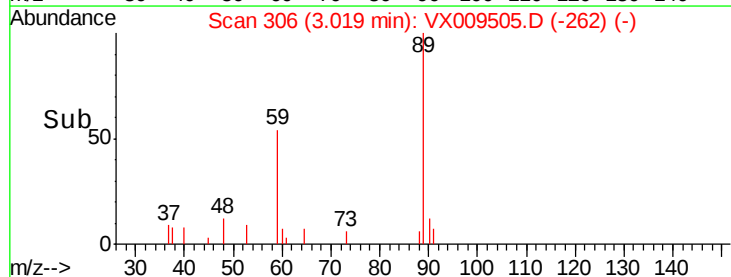
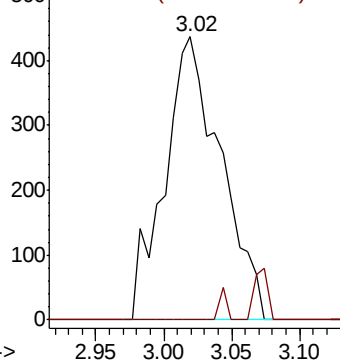


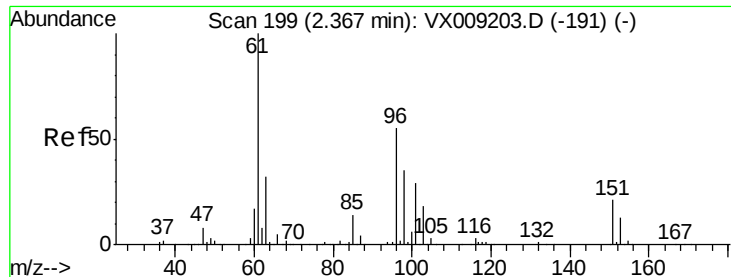
#11
Tert butyl alcohol
Concen: 2.280 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009505.D
Acq: 11 May 2019 00:44

Tgt Ion: 59 Resp: 1260
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

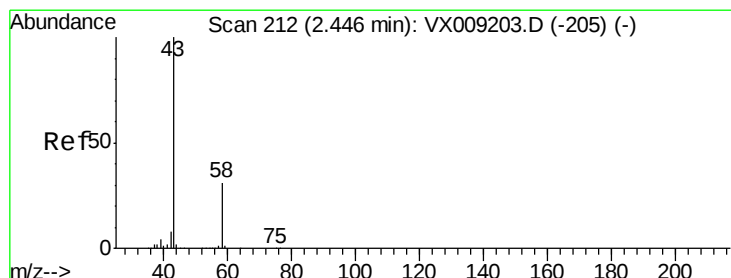
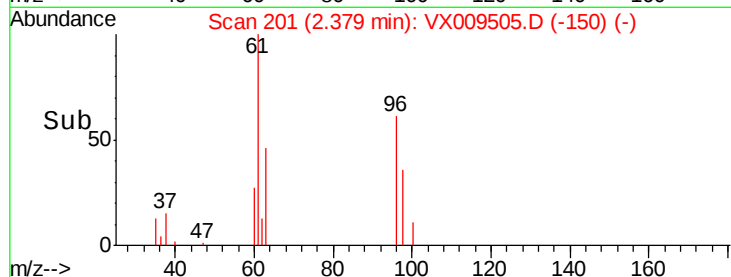
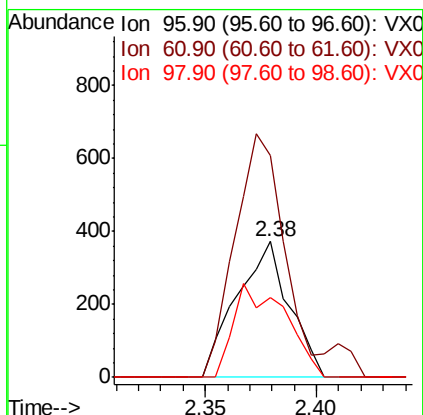
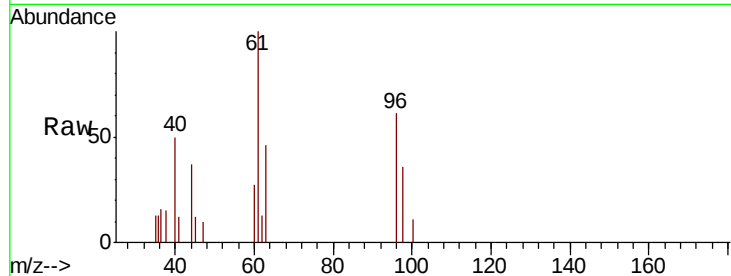




#12
 1,1-Dichloroethene
 Concen: 0.372 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX009505.D
 Acq: 11 May 2019 00:44

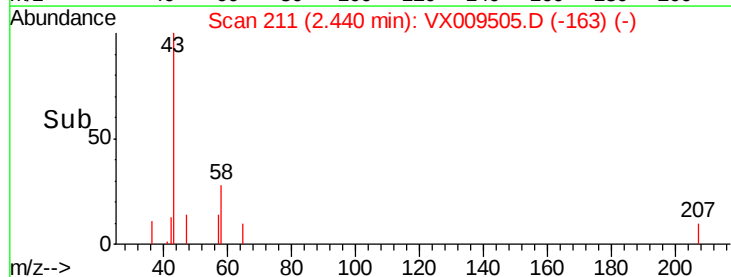
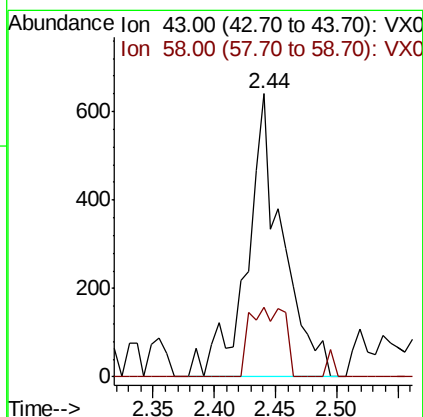
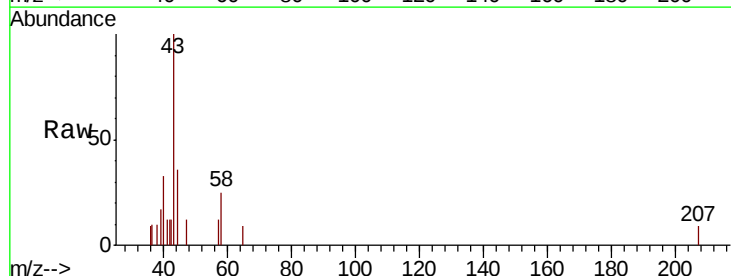
Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW010-190509

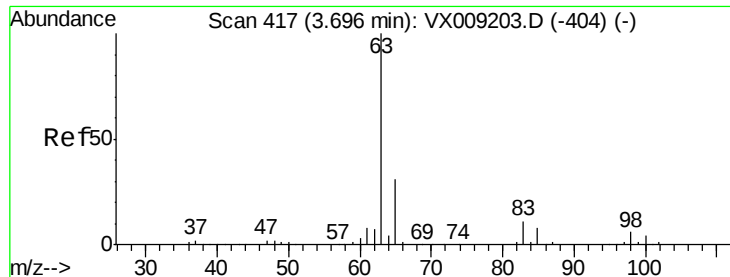
Tot Ion: 96 Resp: 611
 Ion Ratio Lower Upper
 96 100
 61 163.4 144.3 216.5
 98 58.9 50.3 75.5



#16
 Acetone
 Concen: 1.003 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX009505.D
 Acq: 11 May 2019 00:44

Tgt Ion: 43 Resp: 1286
 Ion Ratio Lower Upper
 43 100
 58 24.7 24.9 37.3#





#24

1,1-Dichloroethane

Concen: 0.324 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

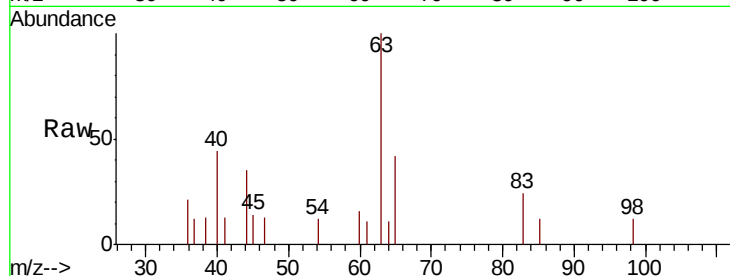
Tot Ion: 63 Resp: 1230

Ion Ratio Lower Upper

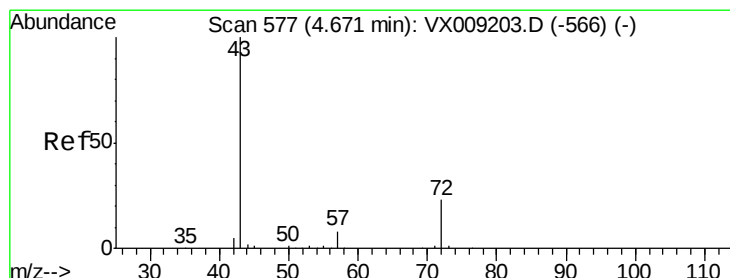
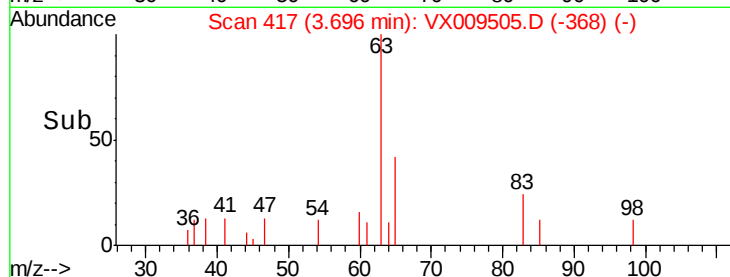
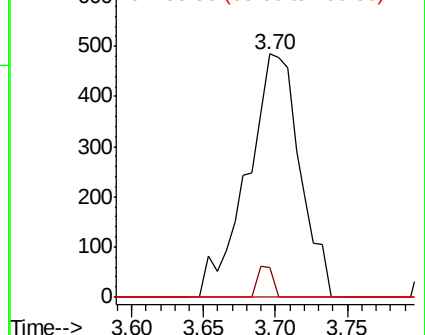
63 100

98 12.4 3.0 9.2#

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.263 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009505.D

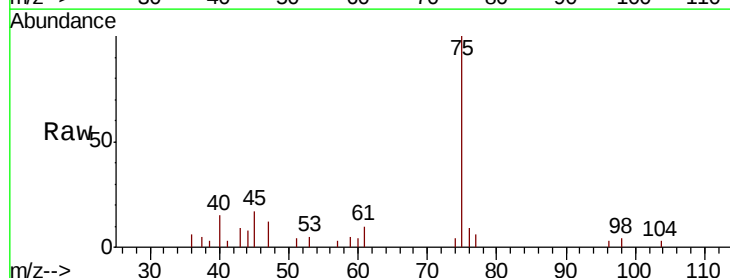
Acq: 11 May 2019 00:44

Tgt Ion: 43 Resp: 523

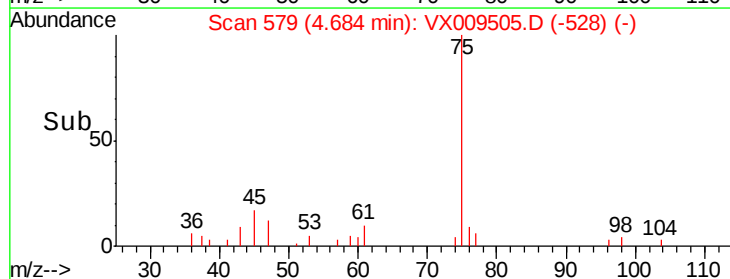
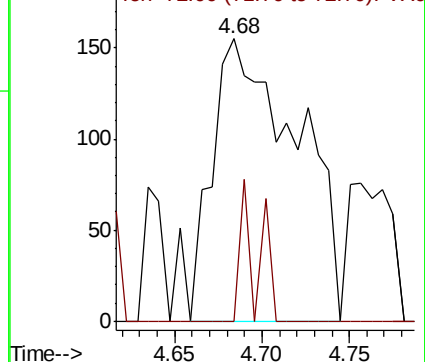
Ion Ratio Lower Upper

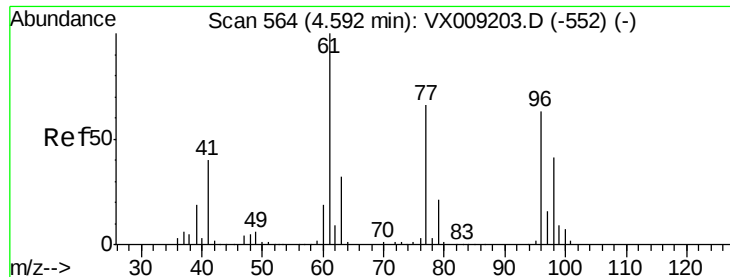
43 100

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



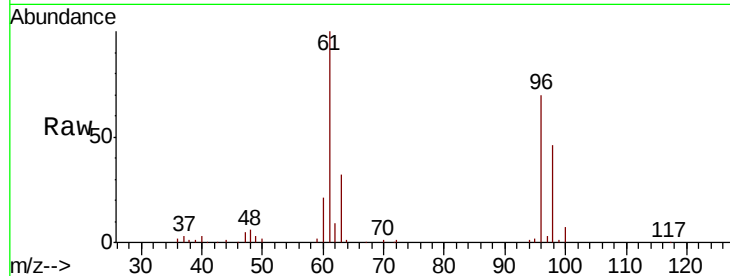


#27

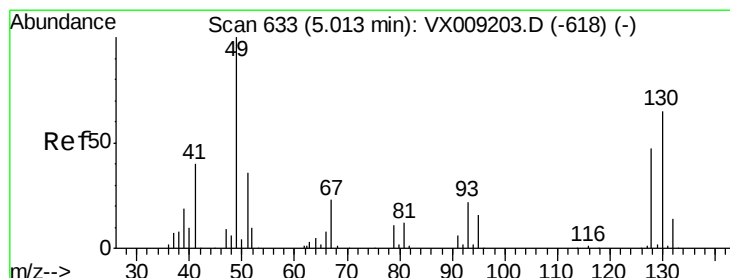
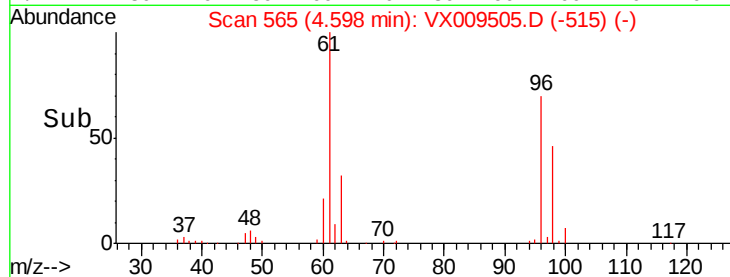
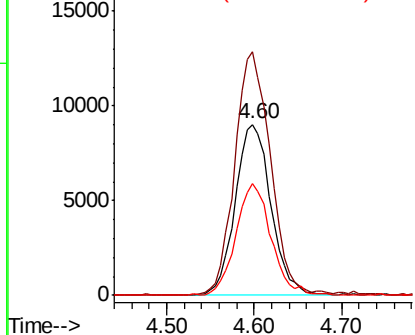
cis-1,2-Dichloroethene
Concen: 12.076 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX009505.D
Acq: 11 May 2019 00:44

Instrument :
MSVOA_X
ClientSampleId :
SS004MW010-190509

Tot Ion: 96 Resp: 25647
Ion Ratio Lower Upper
96 100
61 142.9 0.0 324.0
98 64.3 0.0 130.4



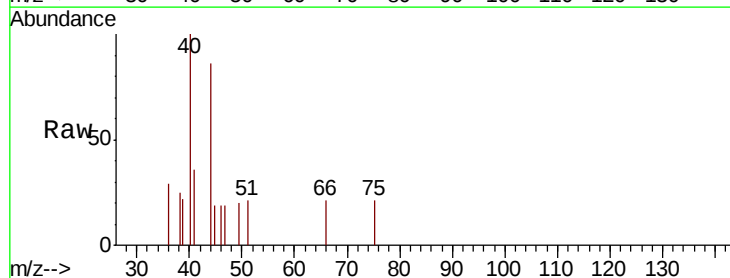
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



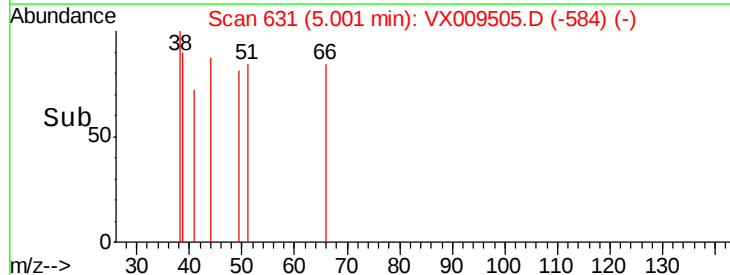
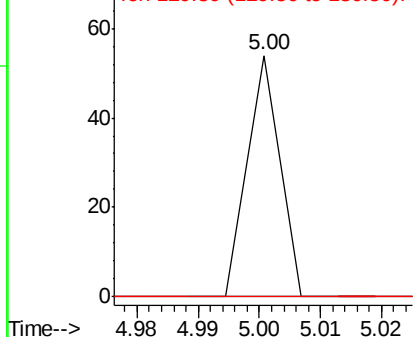
#28

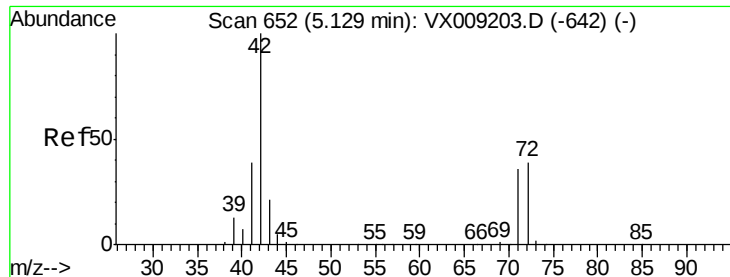
Bromochloromethane
Concen: Below Cal
RT: 5.00 min Scan# 631
Delta R.T. -0.01 min
Lab File: VX009505.D
Acq: 11 May 2019 00:44

Tgt Ion: 49 Resp: 20
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: 0.236 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

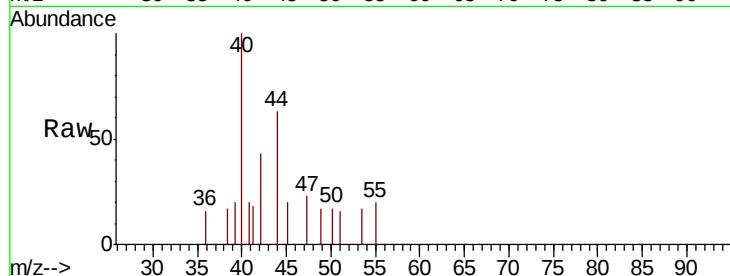
Tot Ion: 42 Resp: 302

Ion Ratio Lower Upper

42 100

72 0.0 30.4 45.6#

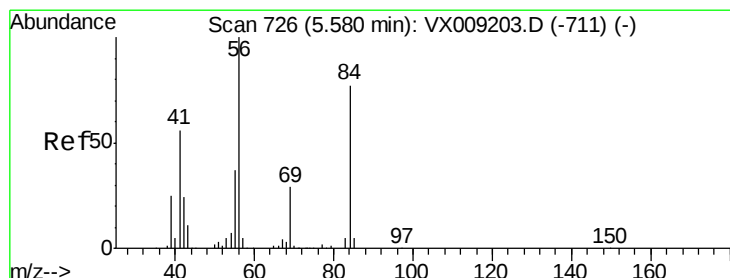
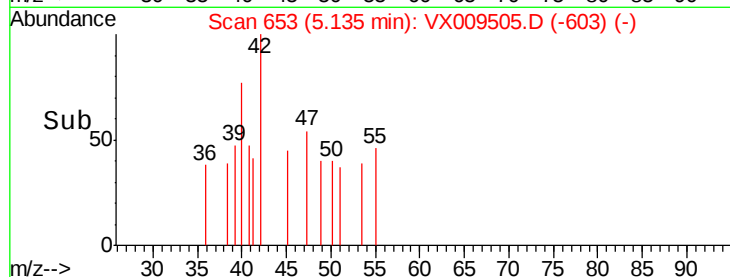
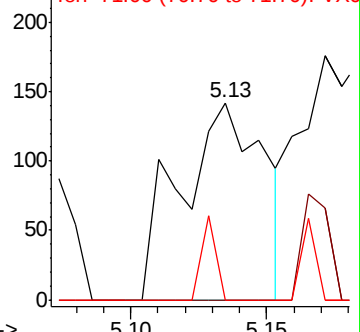
71 7.3 28.6 43.0#



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



#31

Cyclohexane

Concen: 1.077 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

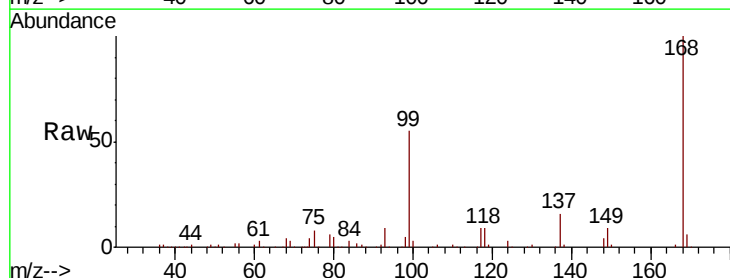
Tgt Ion: 56 Resp: 3802

Ion Ratio Lower Upper

56 100

69 152.1 23.4 35.0#

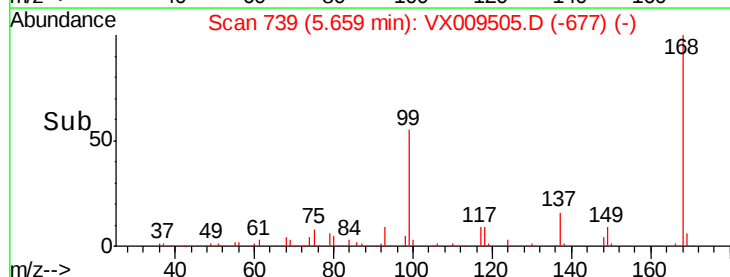
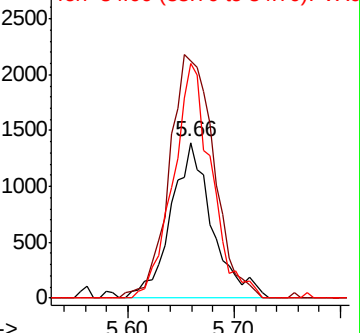
84 151.0 61.9 92.9#

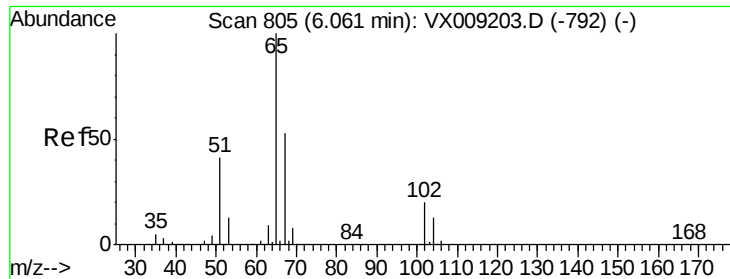


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.073 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

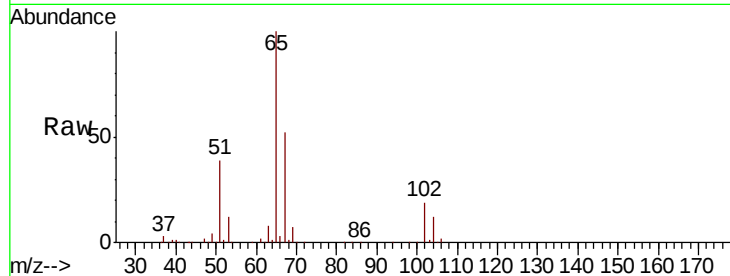
SS004MW010-190509

Tot Ion: 65 Resp: 114755

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

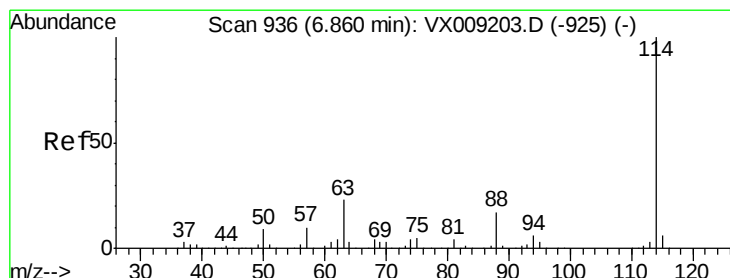
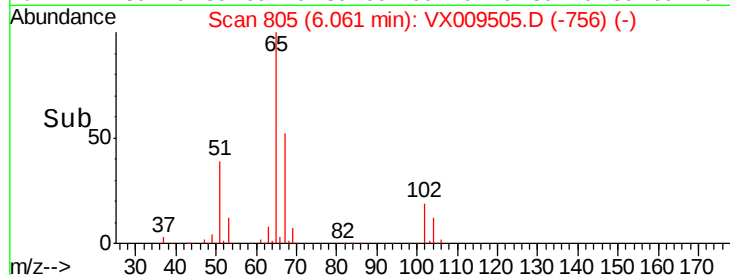
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

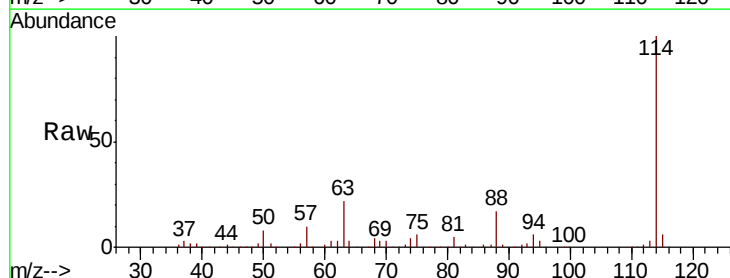
Tgt Ion: 114 Resp: 278958

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.6

88 16.9 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

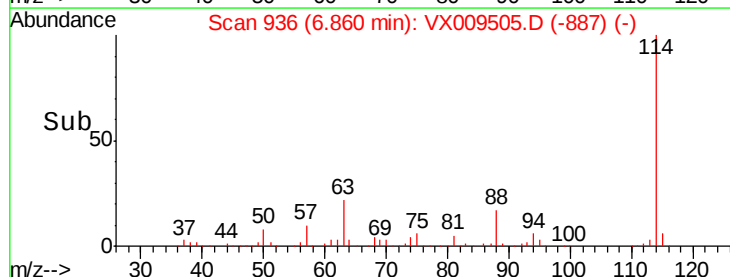
150000

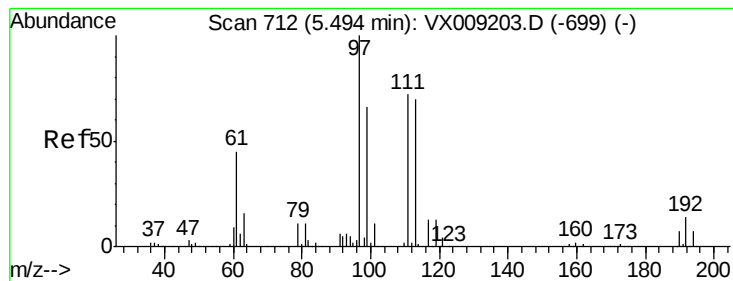
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.297 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

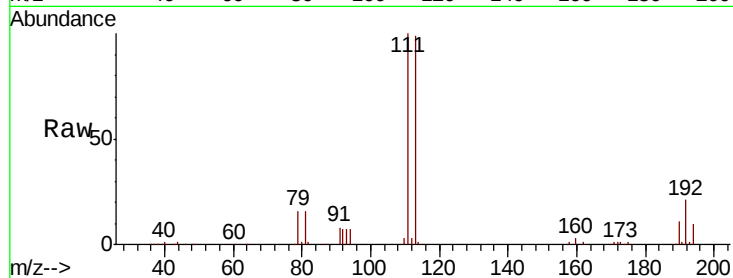
Tot Ion:113 Resp: 84695

Ion Ratio Lower Upper

113 100

111 102.4 82.8 124.2

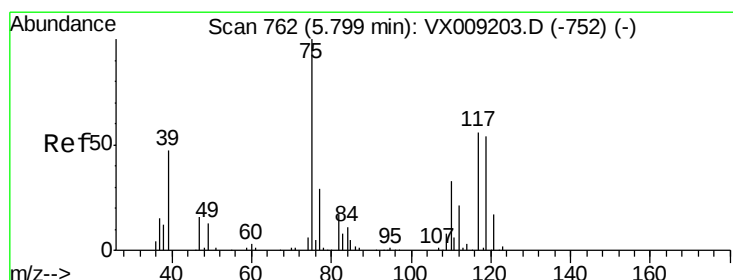
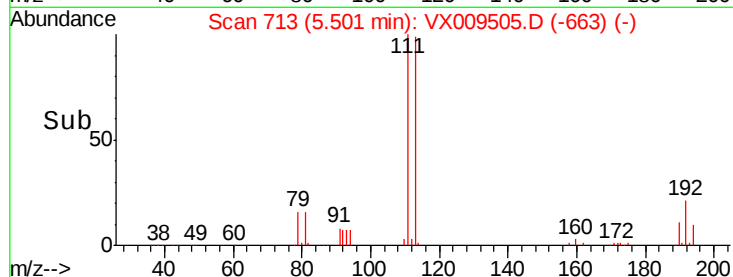
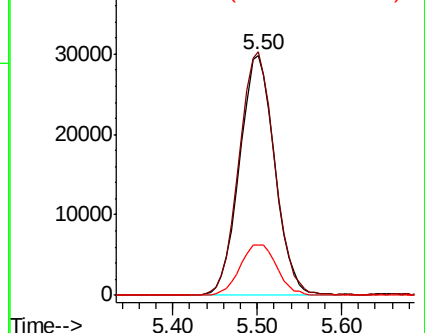
192 22.2 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.106 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

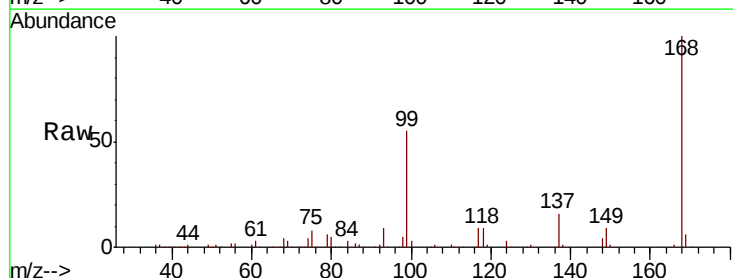
Tgt Ion: 75 Resp: 13238

Ion Ratio Lower Upper

75 100

110 5.8 16.9 50.6#

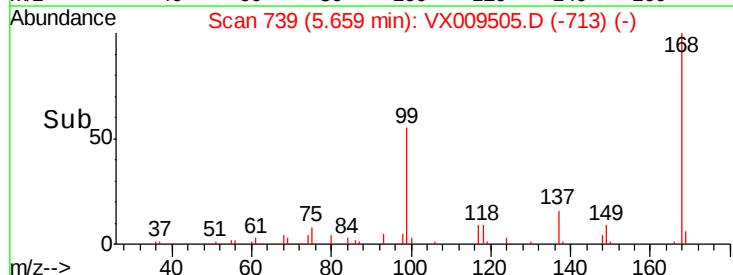
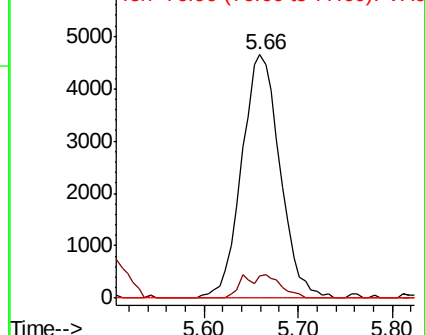
77 0.0 24.8 37.2#

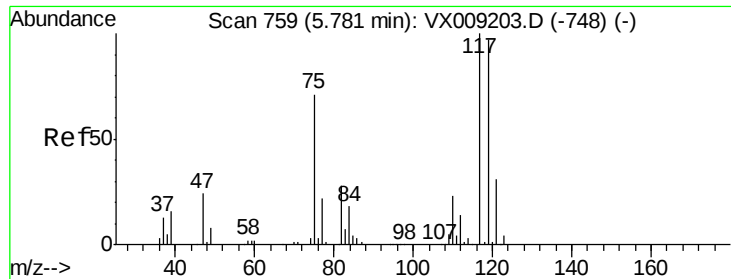


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.815 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

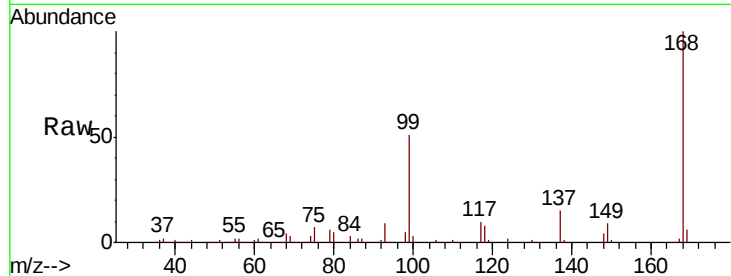
Tot Ion:117 Resp: 16052

Ion Ratio Lower Upper

117 100

119 6.1 77.5 116.3#

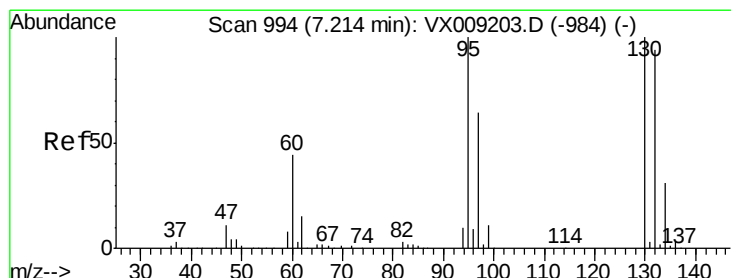
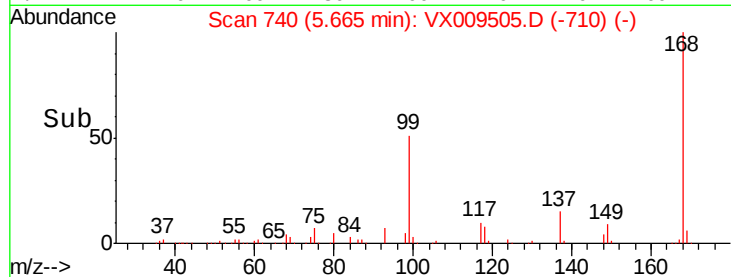
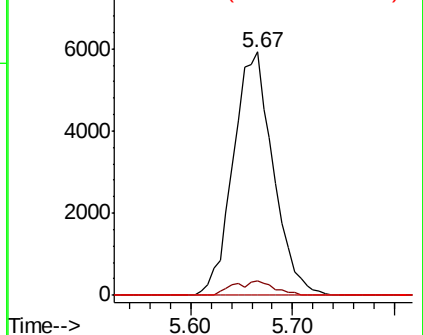
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 0.297 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX009505.D

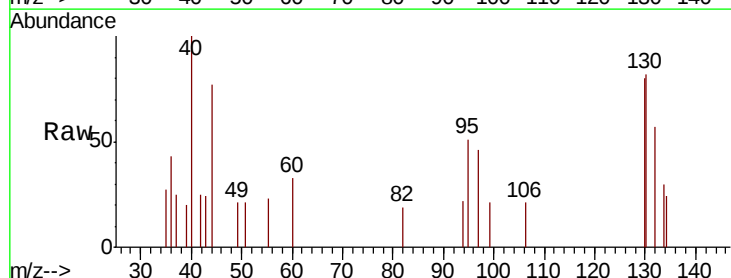
Acq: 11 May 2019 00:44

Tgt Ion:130 Resp: 577

Ion Ratio Lower Upper

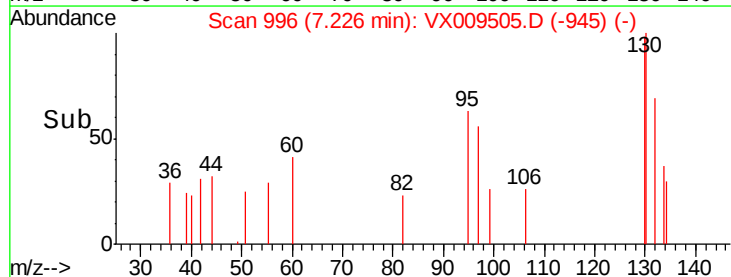
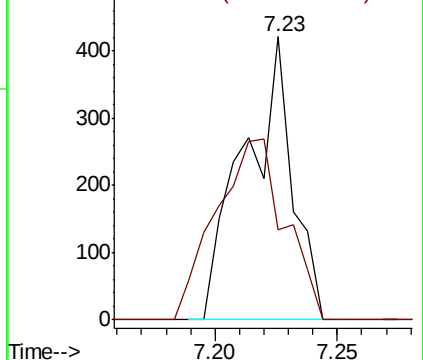
130 100

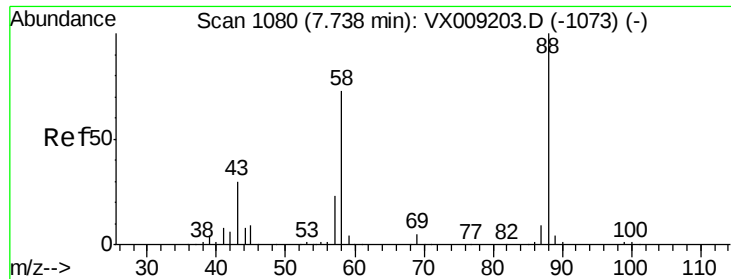
95 31.8 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

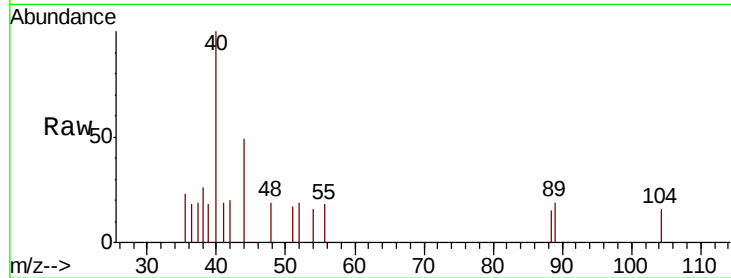




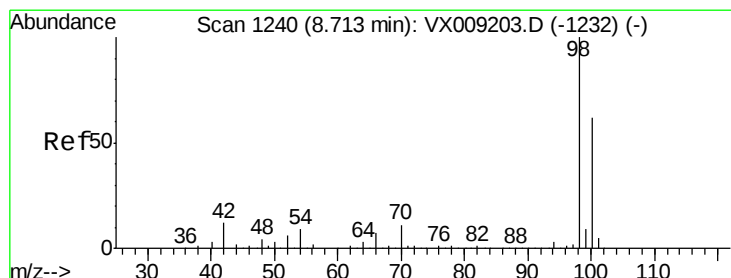
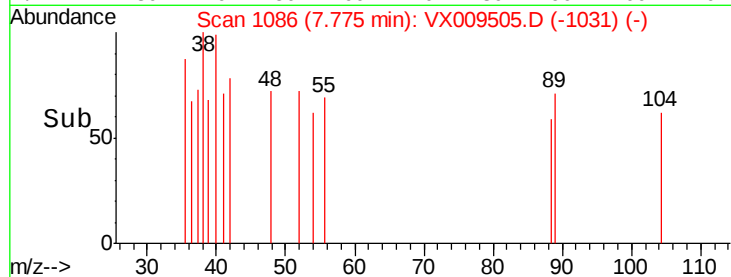
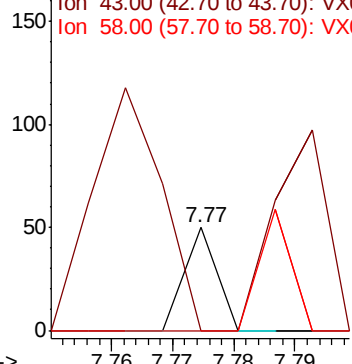
#49
 1,4-Dioxane
 Concen: 0.310 ug/l
 RT: 7.77 min Scan# 1086
 Delta R.T. 0.04 min
 Lab File: VX009505.D
 Acq: 11 May 2019 00:44

Instrument :
 MSVOA_X
 ClientSampleId :
 SS004MW010-190509

Tot Ion: 88 Resp: 18
 Ion Ratio Lower Upper
 88 100
 43 327.8 28.6 42.8#
 58 122.2 61.7 92.5#

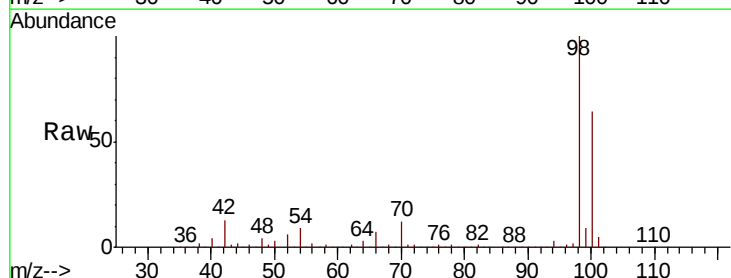


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

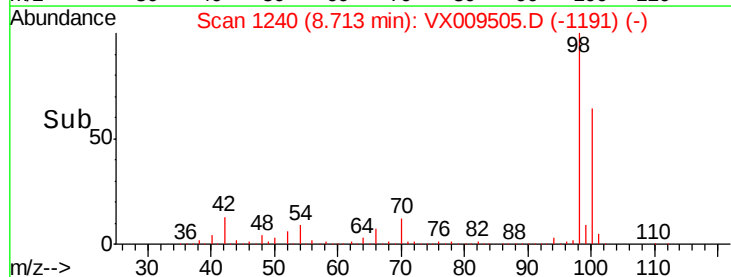
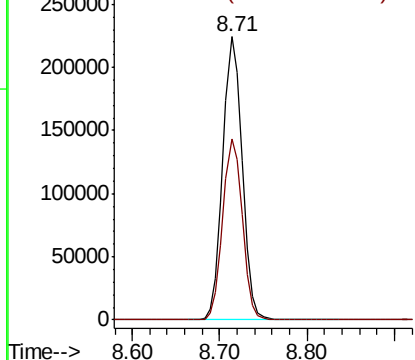


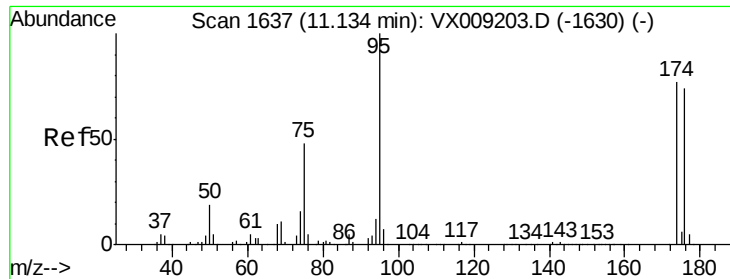
#50
 Toluene-d8
 Concen: 48.687 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009505.D
 Acq: 11 May 2019 00:44

Tgt Ion: 98 Resp: 344700
 Ion Ratio Lower Upper
 98 100
 100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.140 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

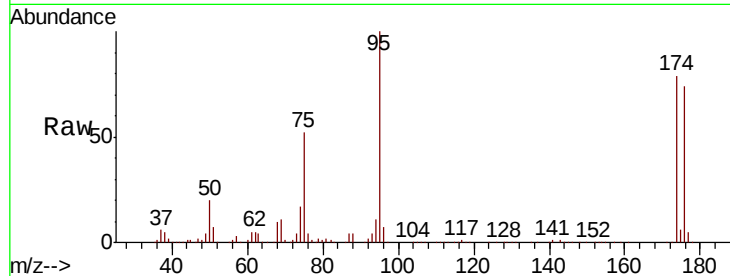
Tot Ion: 95 Resp: 113554

Ion Ratio Lower Upper

95 100

174 83.3 0.0 161.6

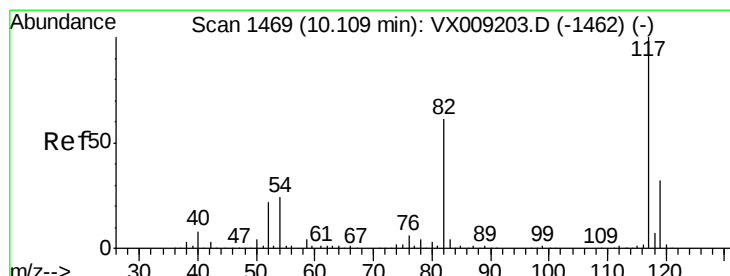
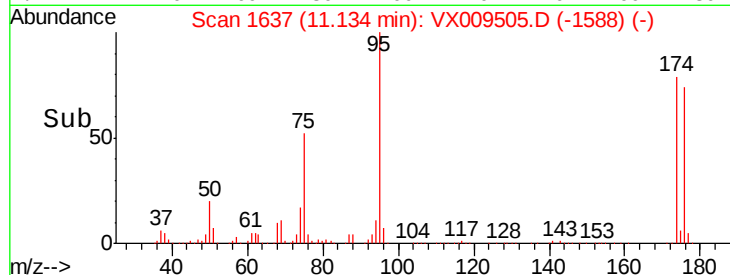
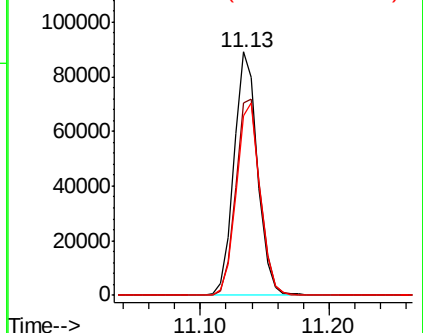
176 79.7 0.0 159.2



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: VX009505.D

Acq: 11 May 2019 00:44

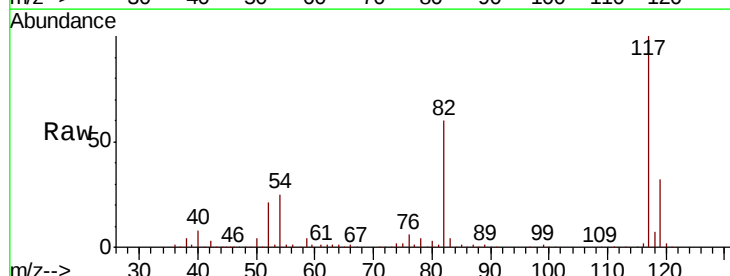
Tgt Ion: 117 Resp: 241830

Ion Ratio Lower Upper

117 100

82 59.7 48.8 73.2

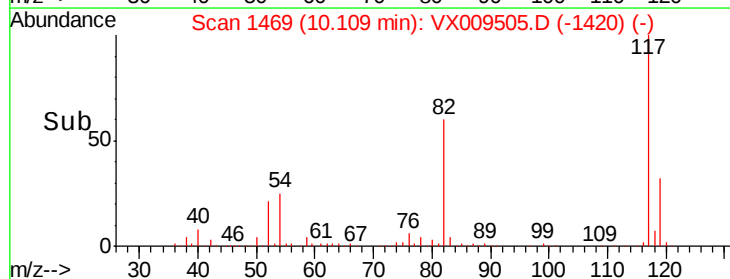
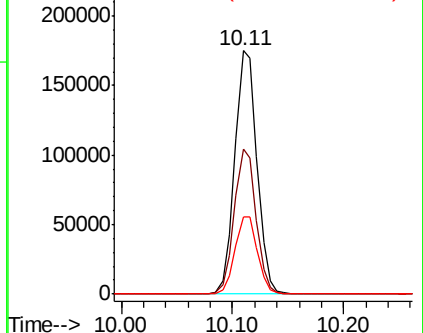
119 31.7 25.8 38.6

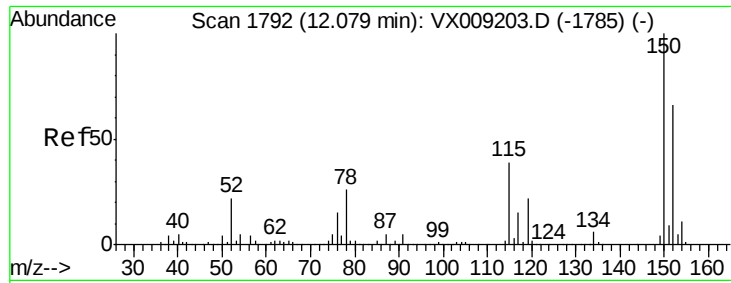


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

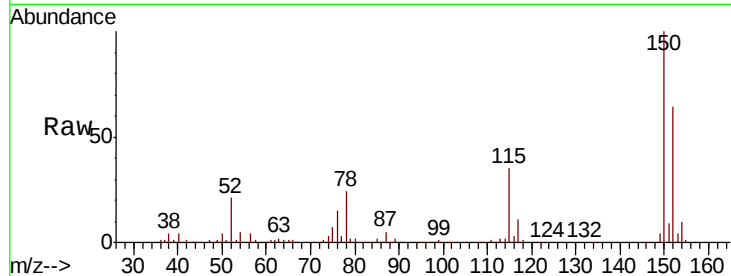
Tot Ion:152 Resp: 104556

Ion Ratio Lower Upper

152 100

115 56.6 41.2 123.6

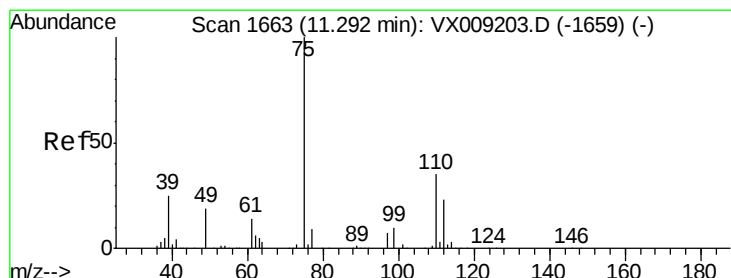
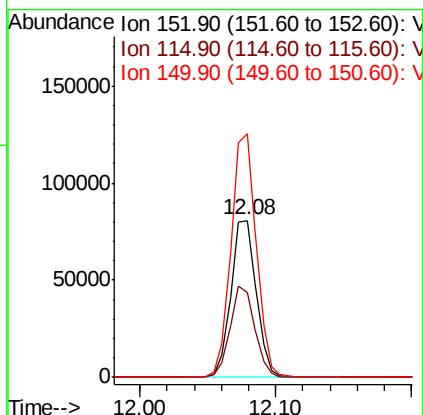
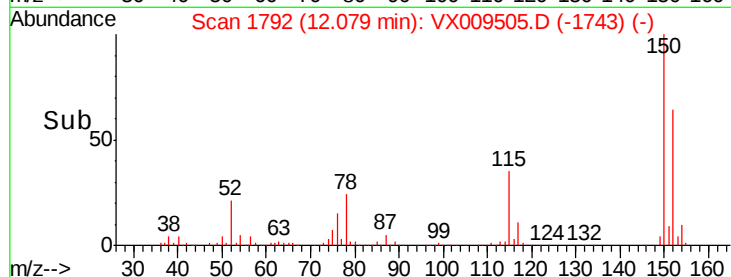
150 154.1 0.0 346.4



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: 23.875 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009505.D

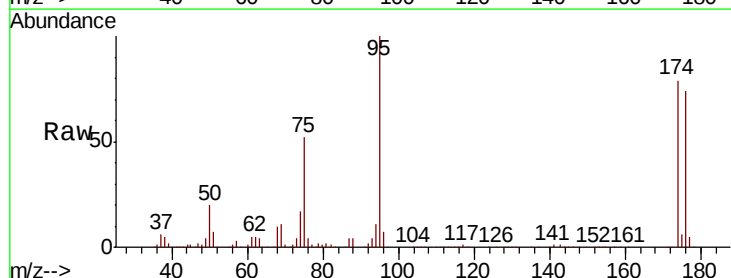
Acq: 11 May 2019 00:44

Tgt Ion: 75 Resp: 57904

Ion Ratio Lower Upper

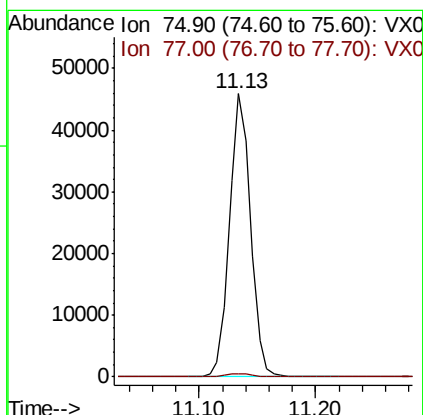
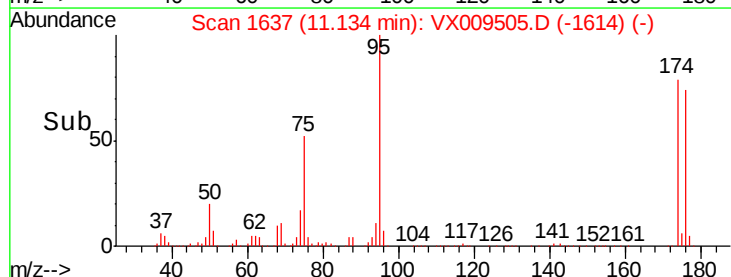
75 100

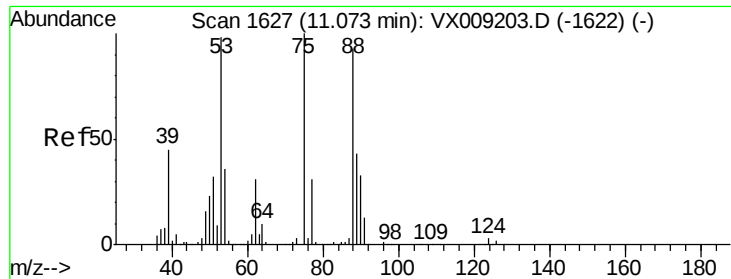
77 1.4 22.1 66.1#



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: 61.087 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009505.D

Acq: 11 May 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

SS004MW010-190509

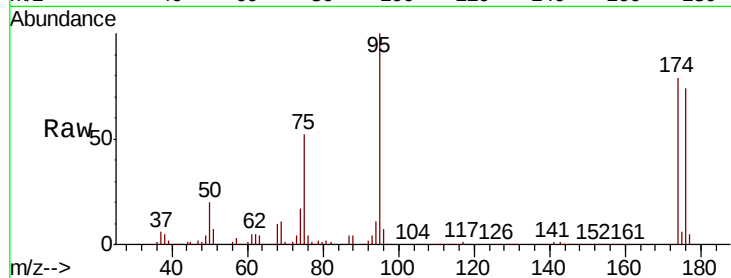
Tot Ion: 75 Resp: 57904

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

