

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009641.D
 Acq On : 17 May 2019 05:14
 Operator : JC/SP
 Sample : K2887-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW731-190515

Quant Time: May 17 06:45:50 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

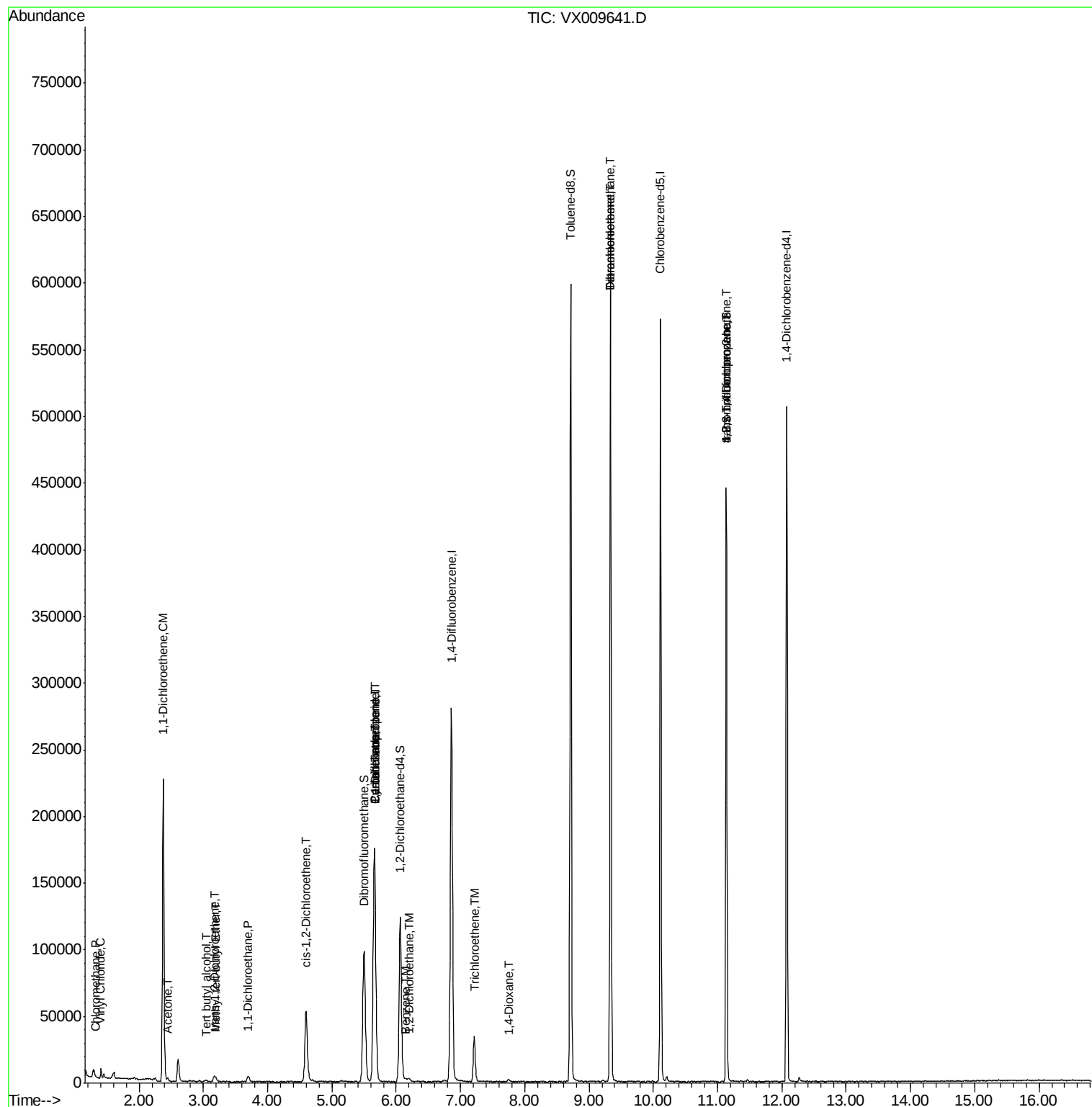
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	171459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	273342	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241983	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	104938	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	115926	49.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.06%	
35) Dibromofluoromethane	5.49	113	83878	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
50) Toluene-d8	8.71	98	345006	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	
62) 4-Bromofluorobenzene	11.13	95	115862	45.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.92%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	878	0.407	ug/l #	84
4) Vinyl Chloride	1.41	62	3057	1.453	ug/l	98
11) Tert butyl alcohol	3.05	59	959	1.770	ug/l #	90
12) 1,1-Dichloroethene	2.37	96	73833	45.894	ug/l	96
16) Acetone	2.45	43	1975	1.571	ug/l	98
19) Methyl tert-butyl Ether	3.20	73	2190	0.351	ug/l	93
21) trans-1,2-Dichloroethene	3.17	96	1487	0.852	ug/l	89
24) 1,1-Dichloroethane	3.70	63	4780	1.285	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	33091	15.890	ug/l	91
28) Bromochloromethane	5.04	49	19	Below Cal	#	20
31) Cyclohexane	5.66	56	3865	1.117	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13596	5.352	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16320	7.071	ug/l #	16
40) Benzene	6.15	78	1636	0.208	ug/l	93
42) 1,2-Dichloroethane	6.20	62	2190	0.777	ug/l	96
44) Trichloroethene	7.21	130	12882	6.778	ug/l	94
49) 1,4-Dioxane	7.75	88	1197	21.015	ug/l	88
60) Dibromochloromethane	9.34	129	117602	61.761	ug/l #	11
64) Tetrachloroethene	9.34	164	126356	76.123	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	59129	24.291	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59129	62.152	ug/l #	10

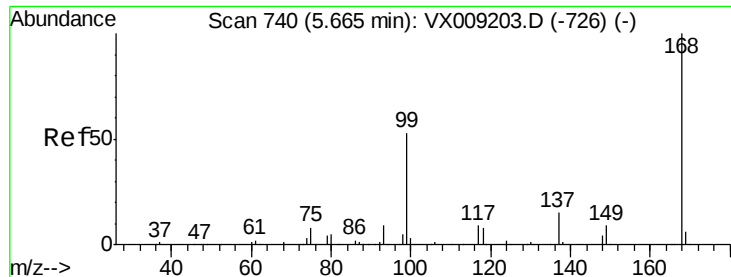
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : 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: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

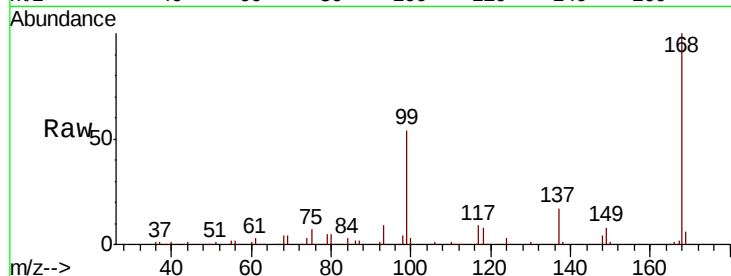
SS052MW731-190515

Tot Ion:168 Resp: 171459

Ion Ratio Lower Upper

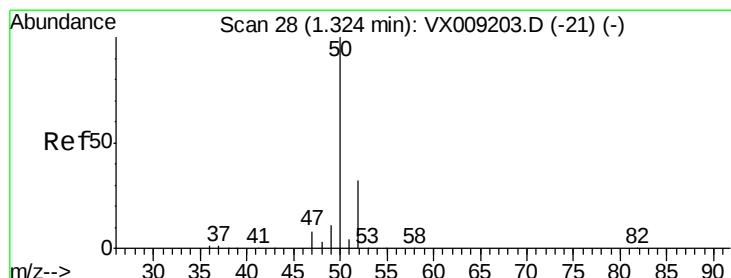
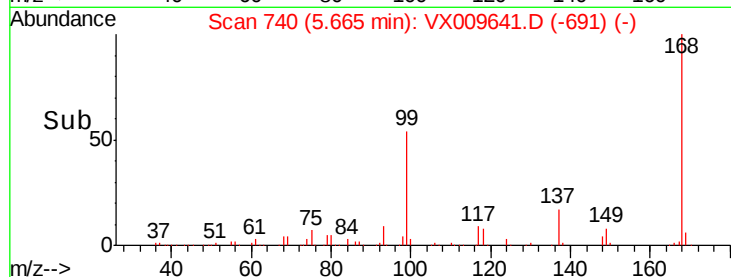
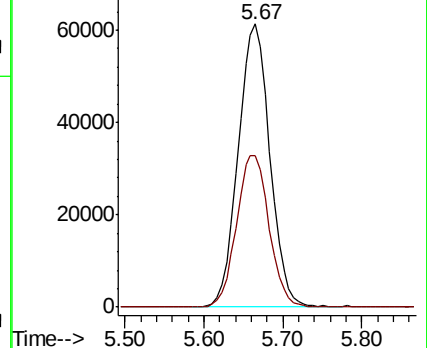
168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.407 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009641.D

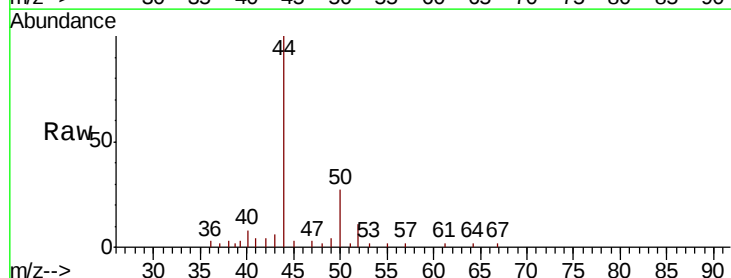
Acq: 17 May 2019 05:14

Tgt Ion: 50 Resp: 878

Ion Ratio Lower Upper

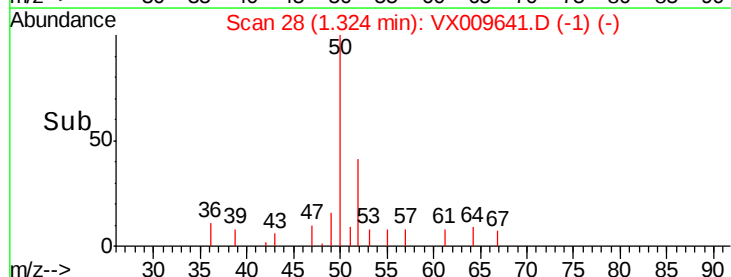
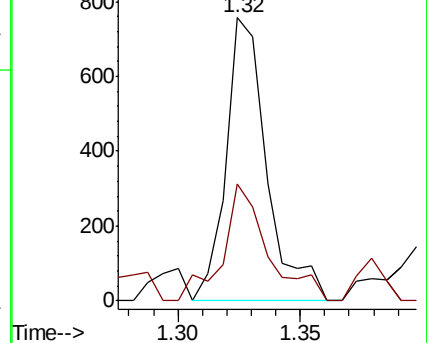
50 100

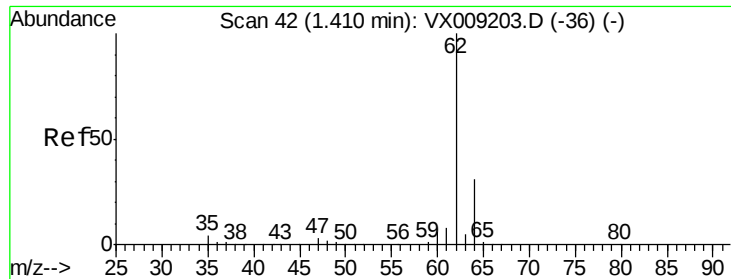
52 41.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.453 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

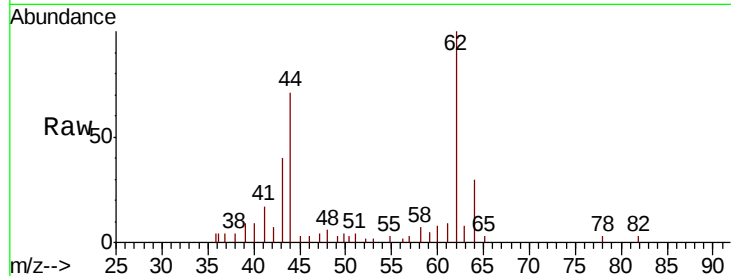
SS052MW731-190515

Tot Ion: 62 Resp: 3057

Ion Ratio Lower Upper

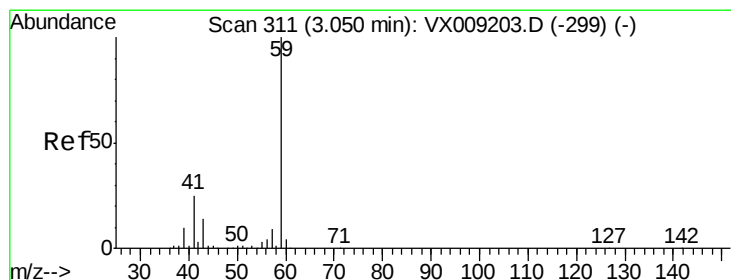
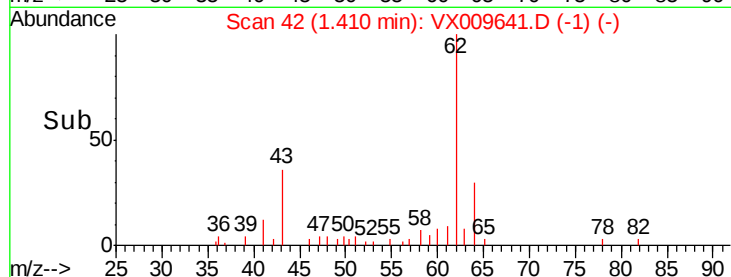
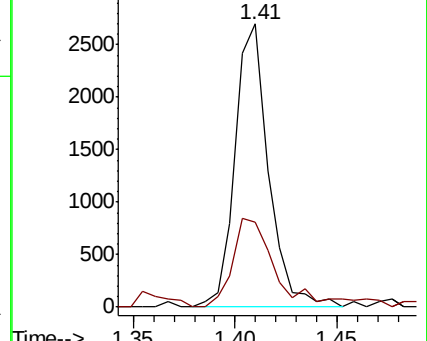
62 100

64 29.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 1.770 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.00 min

Lab File: VX009641.D

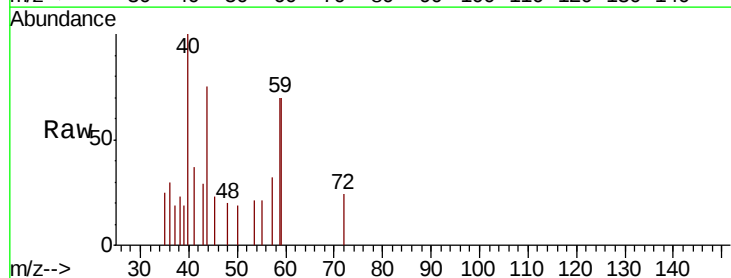
Acq: 17 May 2019 05:14

Tgt Ion: 59 Resp: 959

Ion Ratio Lower Upper

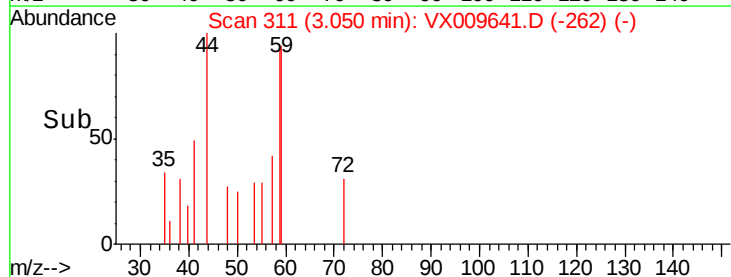
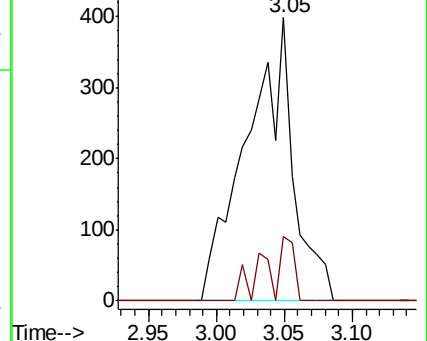
59 100

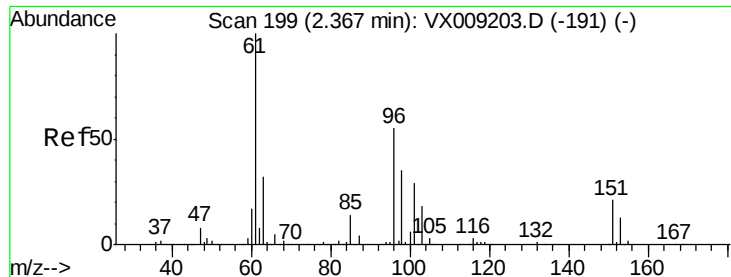
57 6.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 45.894 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW731-190515

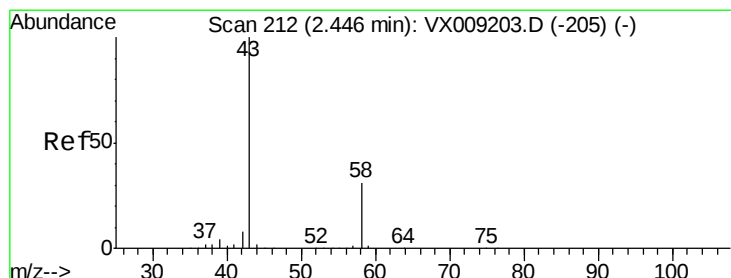
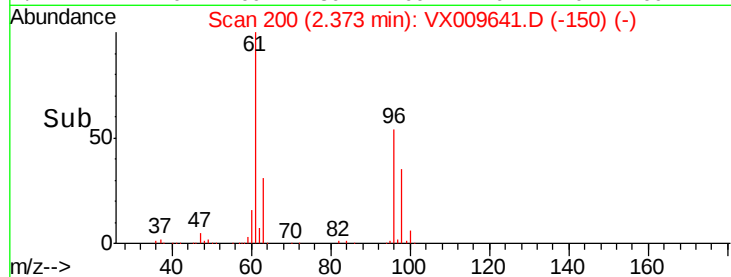
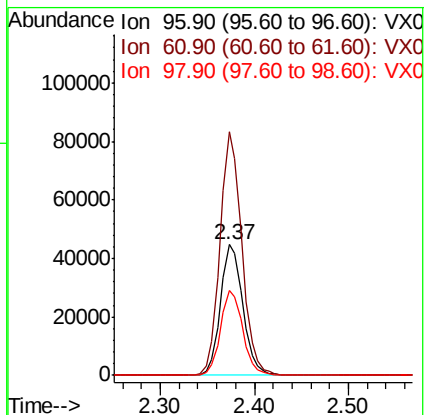
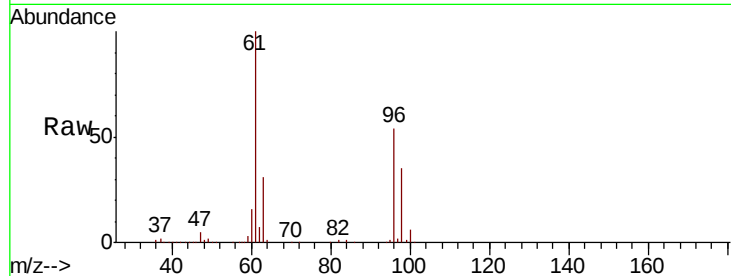
Tot Ion: 96 Resp: 73833

Ion Ratio Lower Upper

96 100

61 186.3 144.3 216.5

98 65.3 50.3 75.5



#16

Acetone

Concen: 1.571 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009641.D

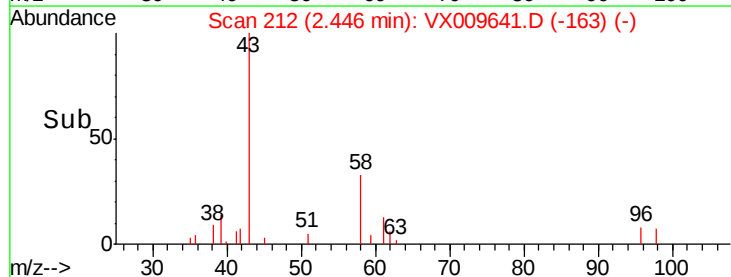
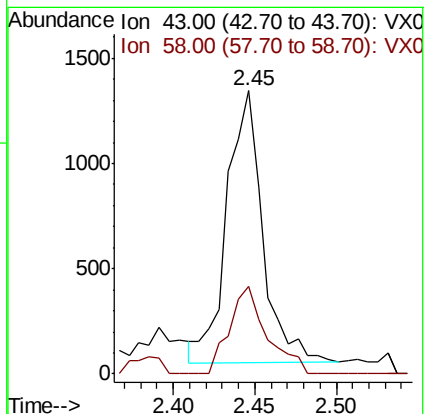
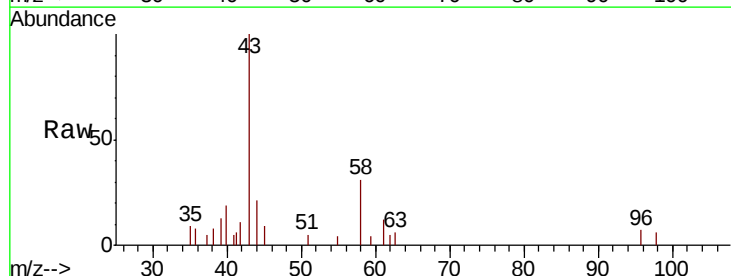
Acq: 17 May 2019 05:14

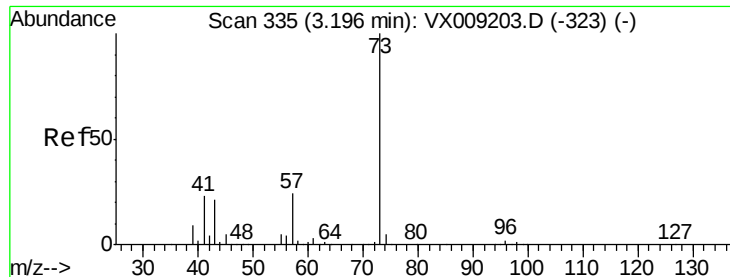
Tgt Ion: 43 Resp: 1975

Ion Ratio Lower Upper

43 100

58 32.1 24.9 37.3

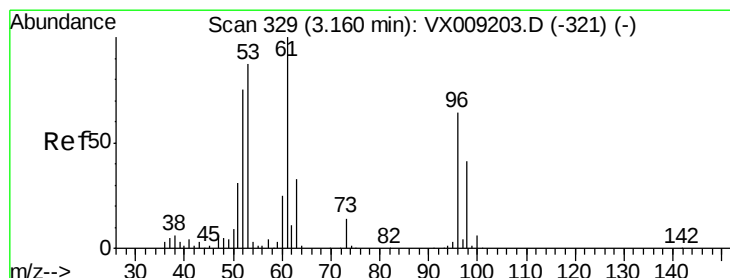
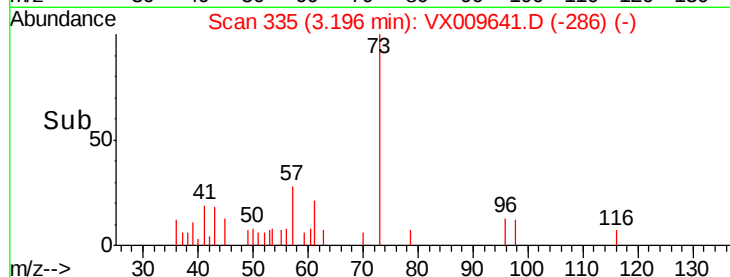
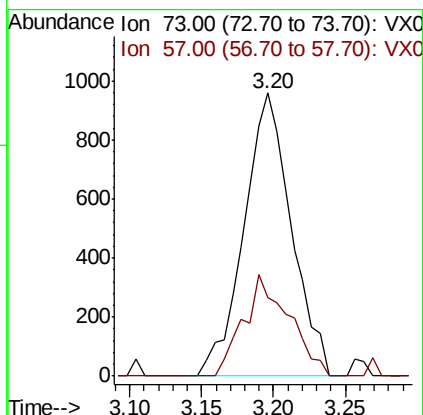
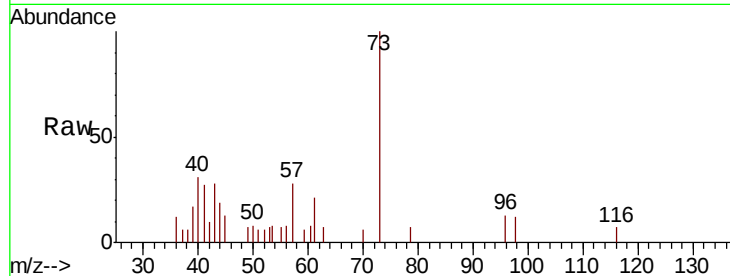




#19
Methvl tert-butvl Ether
Concen: 0.351 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX009641.D
Acq: 17 May 2019 05:14

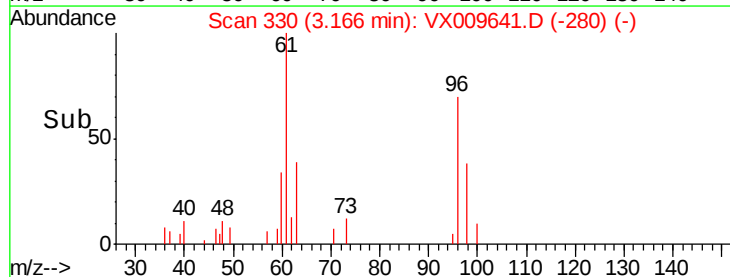
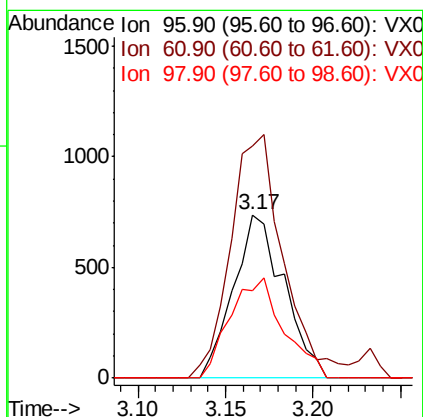
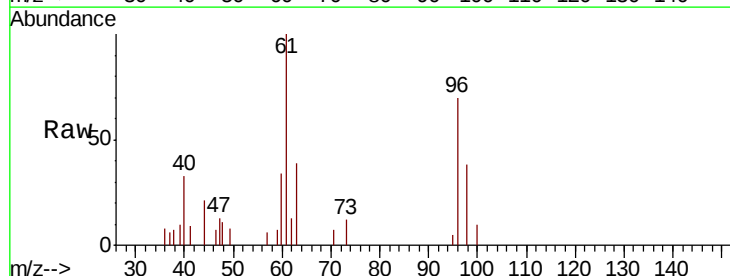
Instrument :
MSVOA_X
ClientSampleId :
SS052MW731-190515

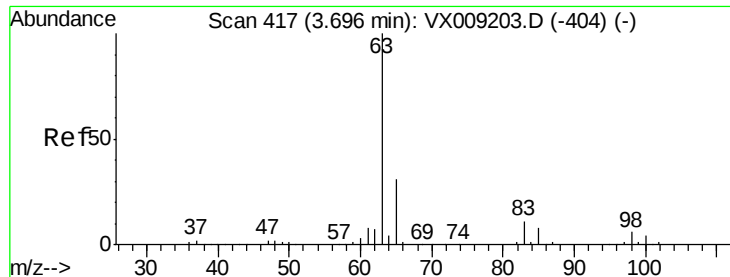
Tot Ion: 73 Resp: 2190
Ion Ratio Lower Upper
73 100
57 27.7 19.3 28.9



#21
trans-1,2-Dichloroethene
Concen: 0.852 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.01 min
Lab File: VX009641.D
Acq: 17 May 2019 05:14

Tgt Ion: 96 Resp: 1487
Ion Ratio Lower Upper
96 100
61 142.0 124.5 186.7
98 53.7 50.4 75.6





#24

1,1-Dichloroethane

Concen: 1.285 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW731-190515

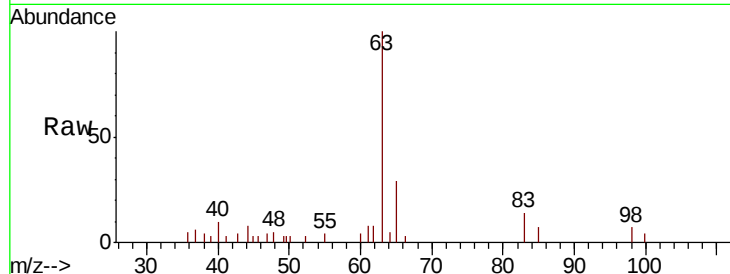
Tot Ion: 63 Resp: 4780

Ion Ratio Lower Upper

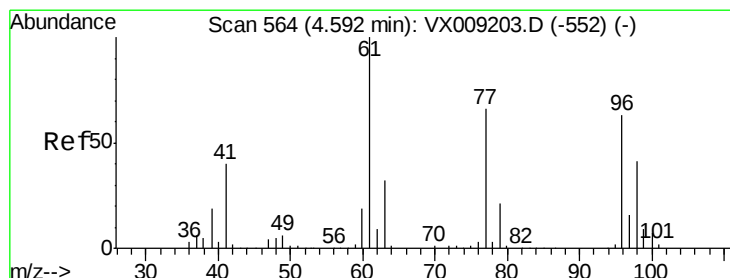
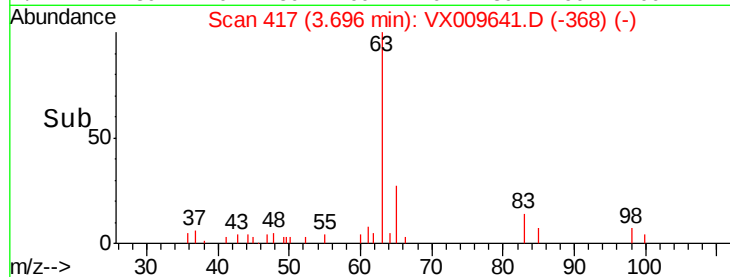
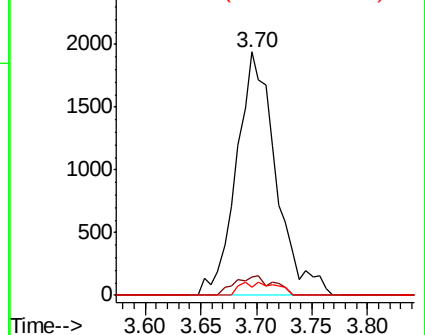
63 100

98 7.4 3.0 9.2

100 3.5 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



#27

cis-1,2-Dichloroethene

Concen: 15.890 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

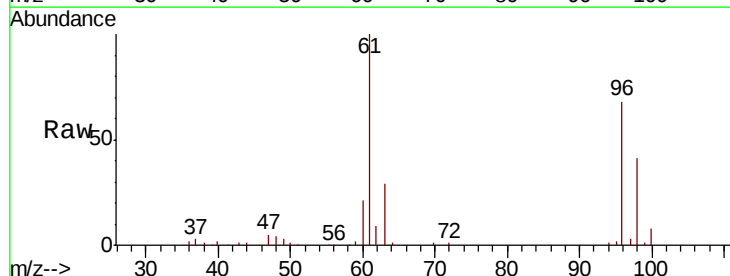
Tgt Ion: 96 Resp: 33091

Ion Ratio Lower Upper

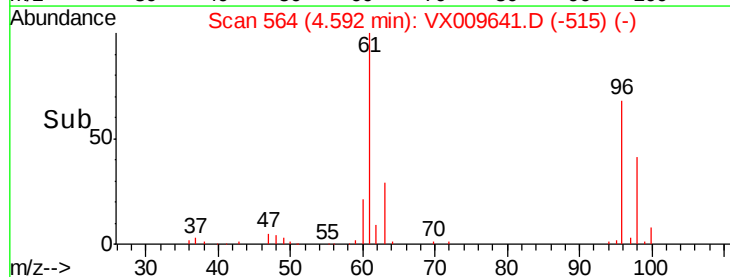
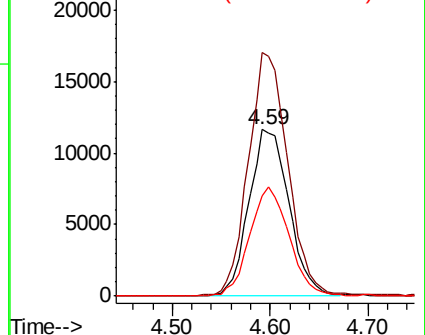
96 100

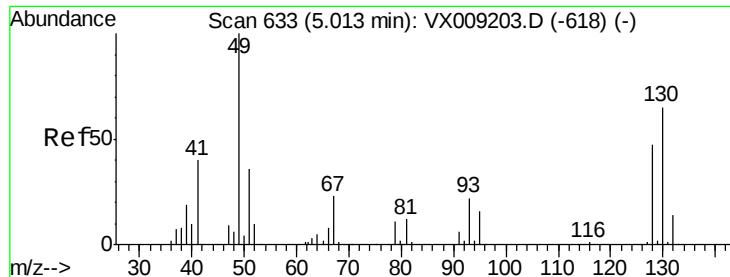
61 144.6 0.0 324.0

98 64.8 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: 5.04 min Scan# 637

Delta R.T. 0.03 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

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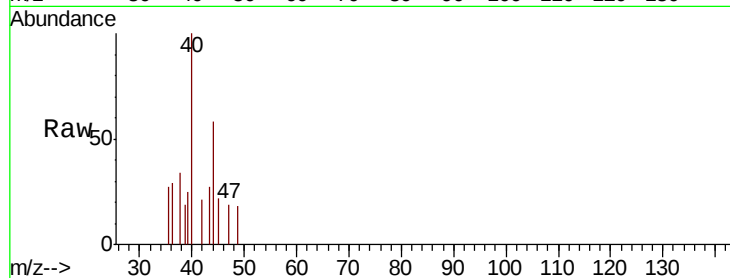
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

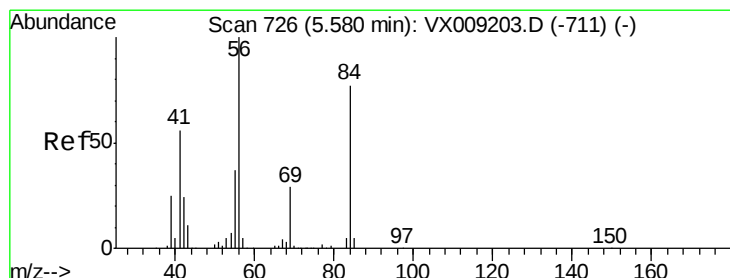
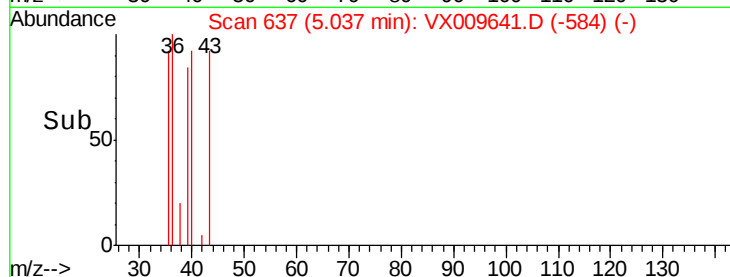
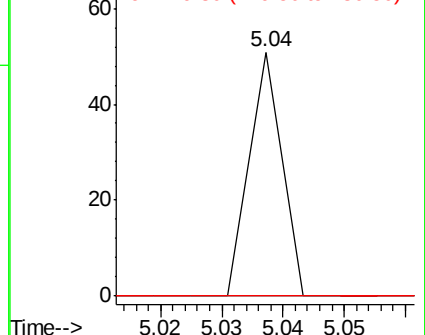
130 0.0 51.2 76.8#



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: 1.117 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

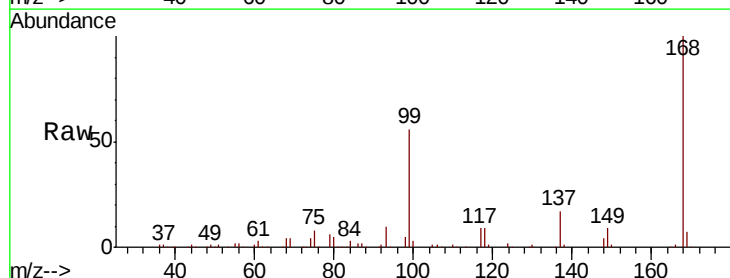
Tgt Ion: 56 Resp: 3865

Ion Ratio Lower Upper

56 100

69 178.6 23.4 35.0#

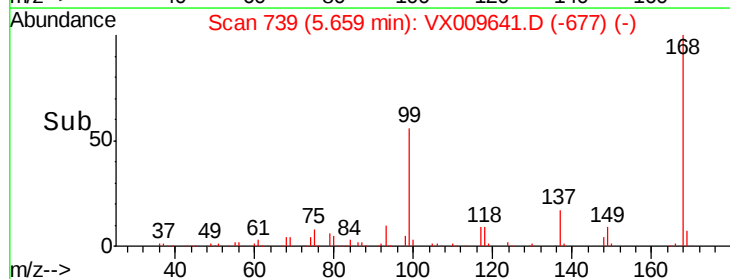
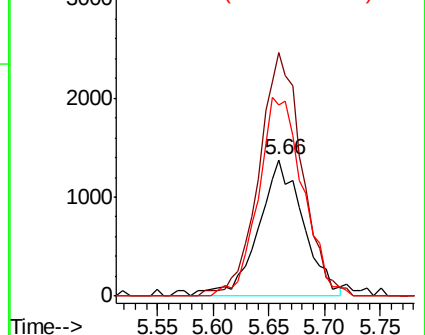
84 139.8 61.9 92.9#

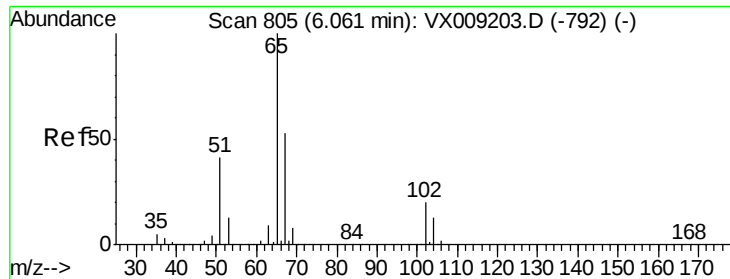


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.528 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

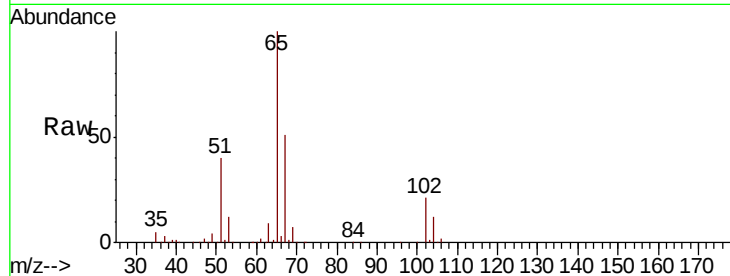
SS052MW731-190515

Tot Ion: 65 Resp: 115926

Ion Ratio Lower Upper

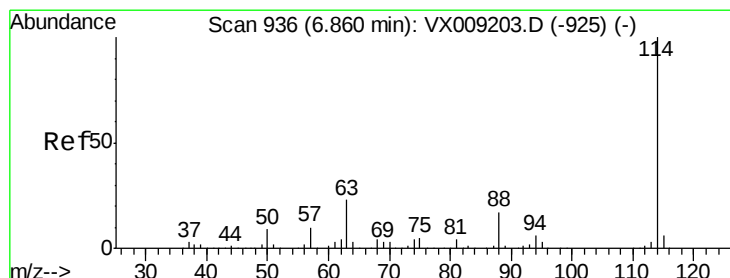
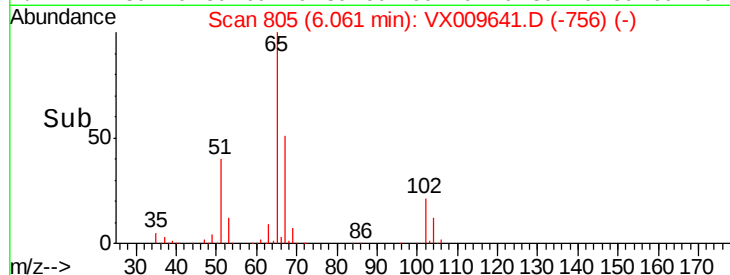
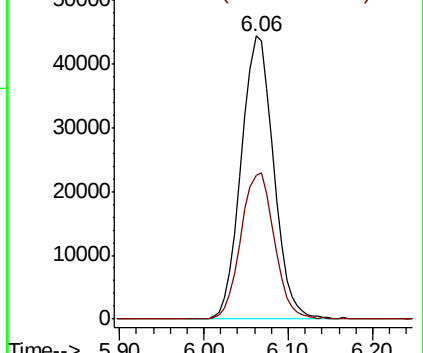
65 100

67 53.2 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: VX009641.D

Acq: 17 May 2019 05:14

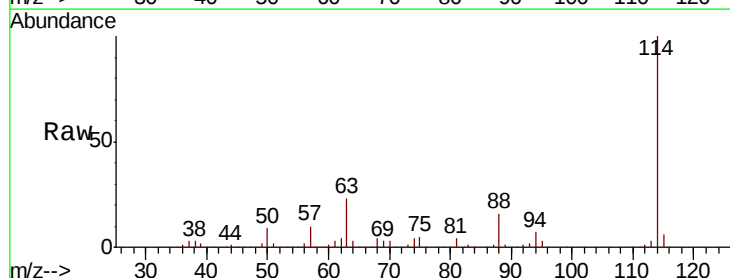
Tgt Ion: 114 Resp: 273342

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

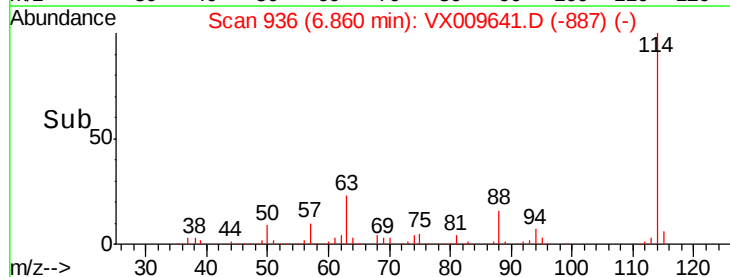
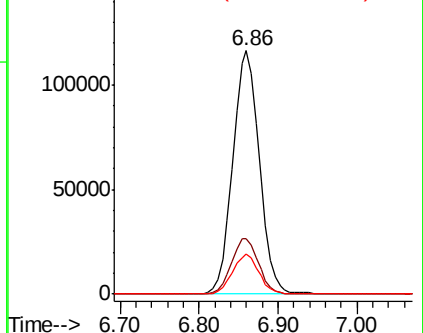
88 16.4 0.0 33.2

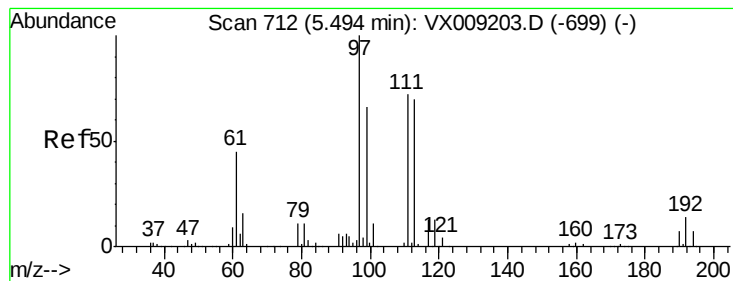


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.813 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW731-190515

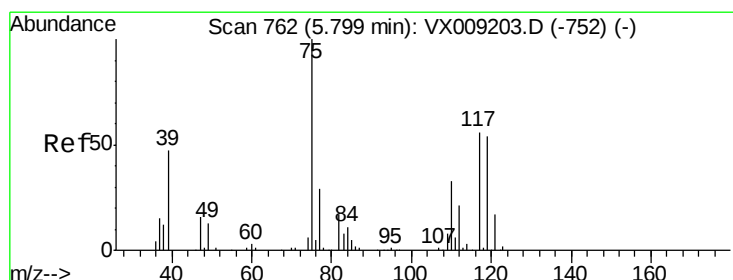
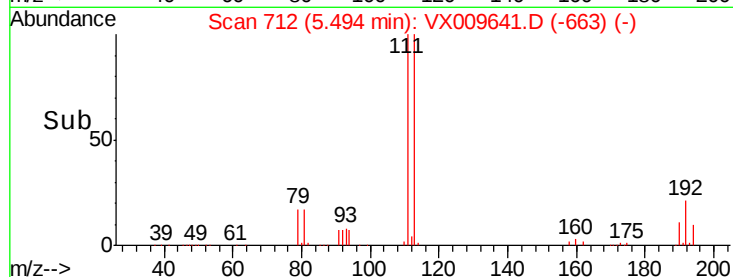
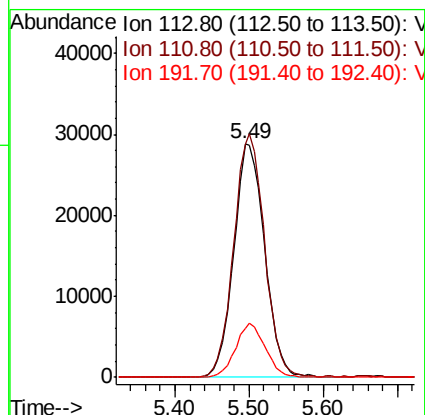
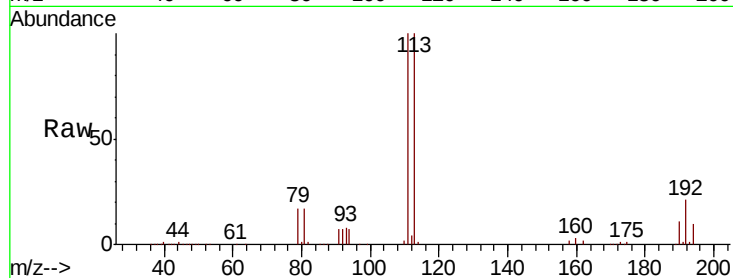
Tot Ion:113 Resp: 83878

Ion Ratio Lower Upper

113 100

111 103.8 82.8 124.2

192 22.2 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.352 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

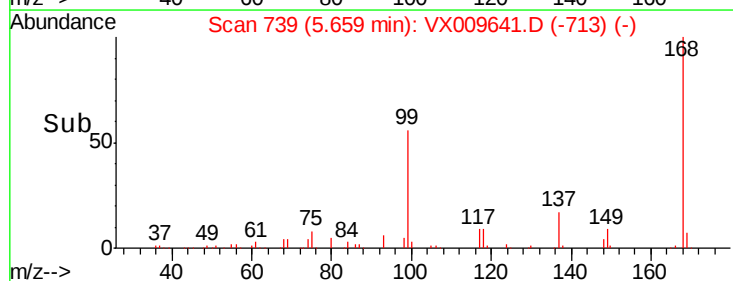
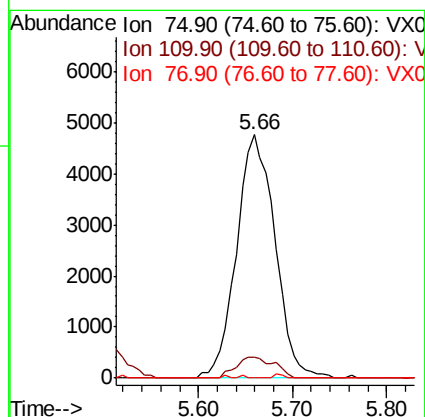
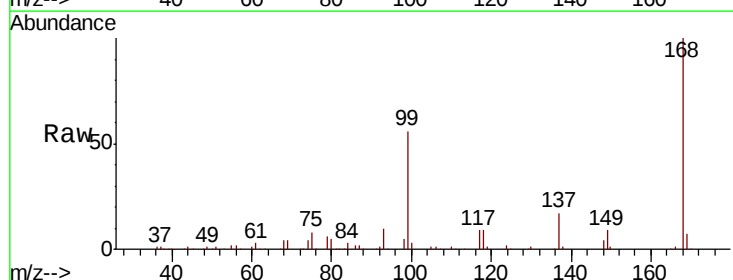
Tgt Ion: 75 Resp: 13596

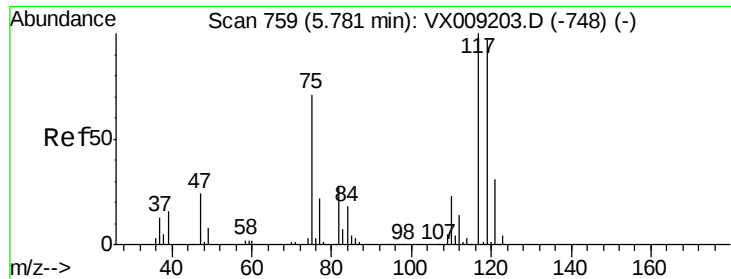
Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.6#

77 0.2 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.071 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW731-190515

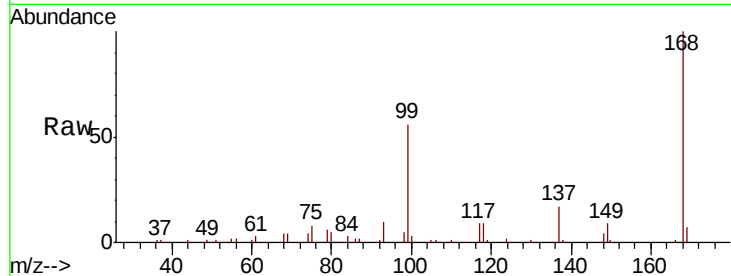
Tot Ion:117 Resp: 16320

Ion Ratio Lower Upper

117 100

119 6.1 77.5 116.3#

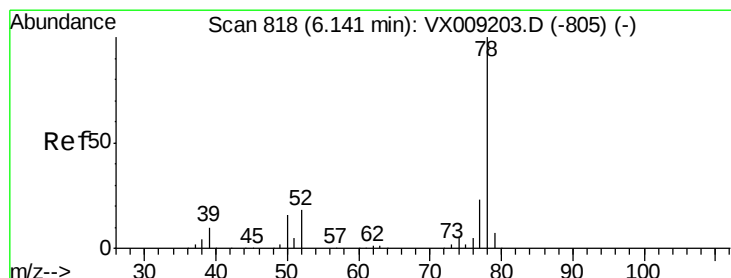
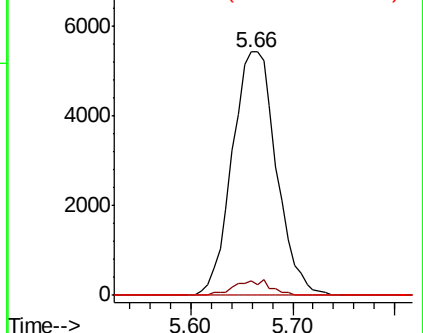
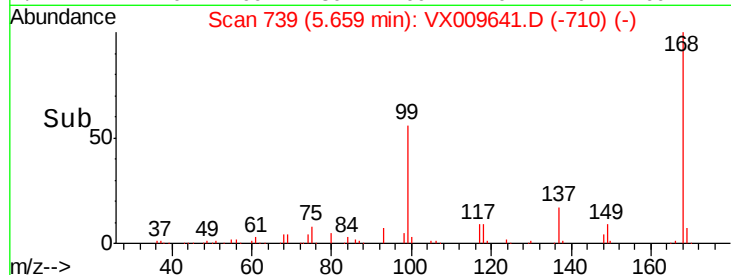
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 0.208 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX009641.D

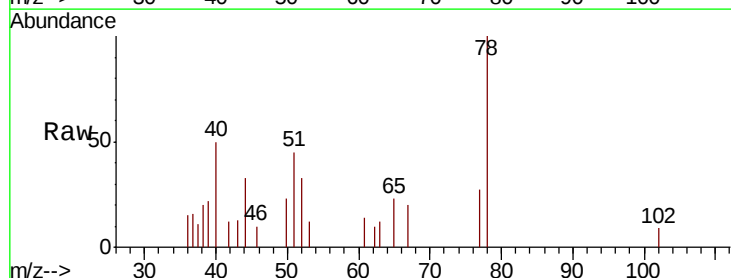
Acq: 17 May 2019 05:14

Tgt Ion: 78 Resp: 1636

Ion Ratio Lower Upper

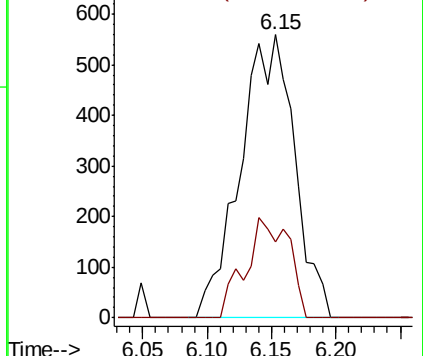
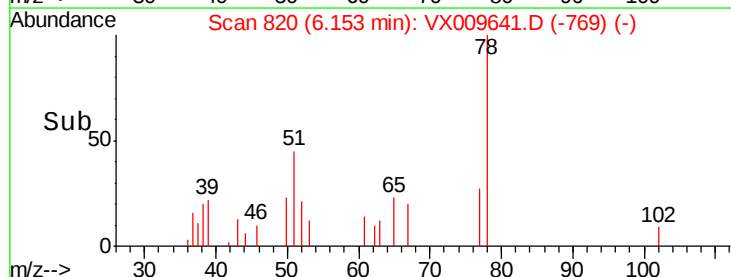
78 100

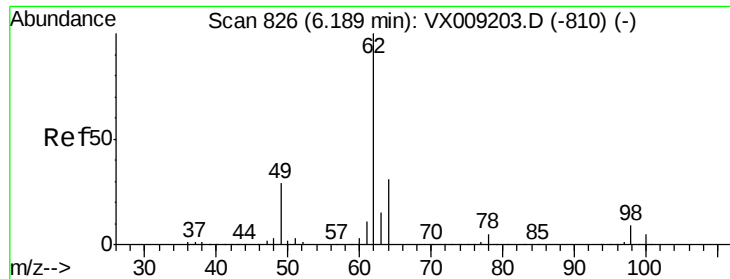
77 27.0 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

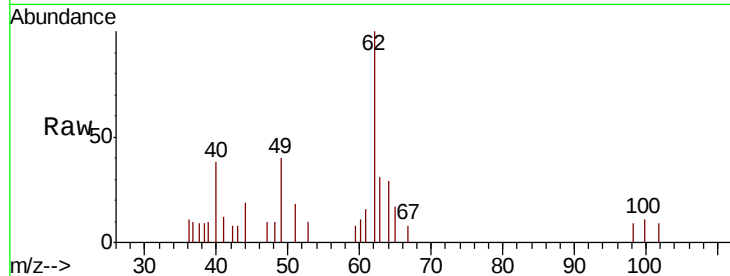




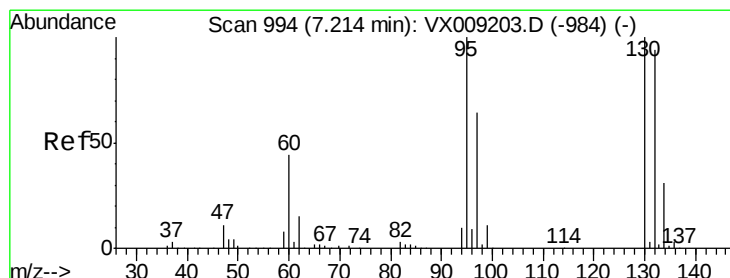
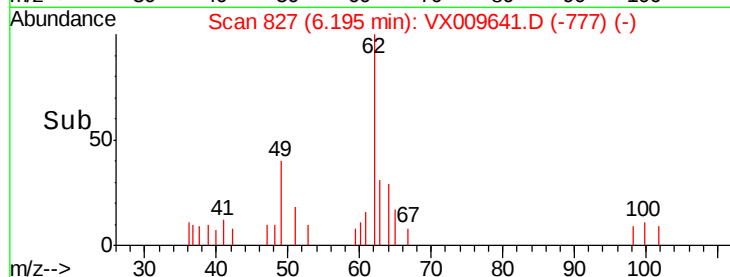
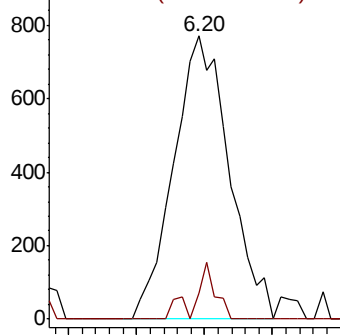
#42
 1,2-Dichloroethane
 Concen: 0.777 ug/l
 RT: 6.20 min Scan# 827
 Delta R.T. 0.01 min
 Lab File: VX009641.D
 Acq: 17 May 2019 05:14

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW731-190515

Tot Ion: 62 Resp: 2190
 Ion Ratio Lower Upper
 62 100
 98 7.6 0.0 18.2

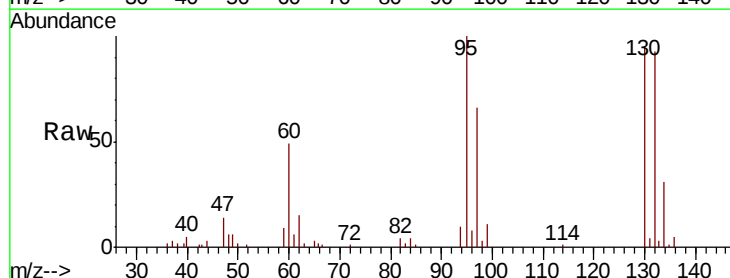


Abundance Ion 61.90 (61.60 to 62.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

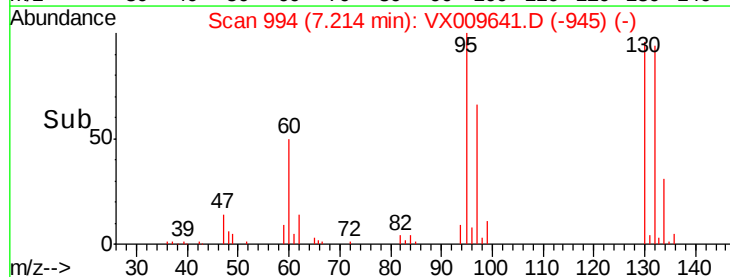
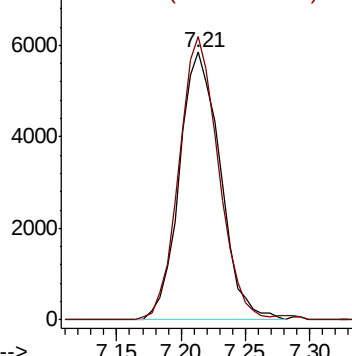


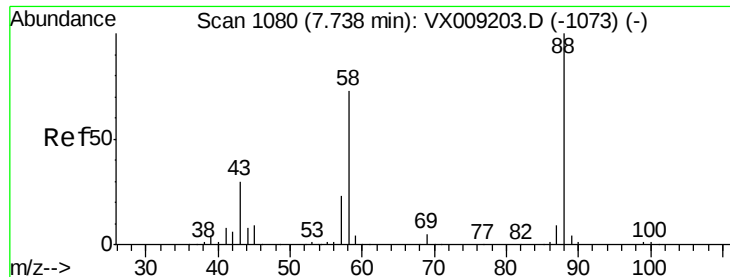
#44
 Trichloroethene
 Concen: 6.778 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX009641.D
 Acq: 17 May 2019 05:14

Tgt Ion:130 Resp: 12882
 Ion Ratio Lower Upper
 130 100
 95 105.7 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

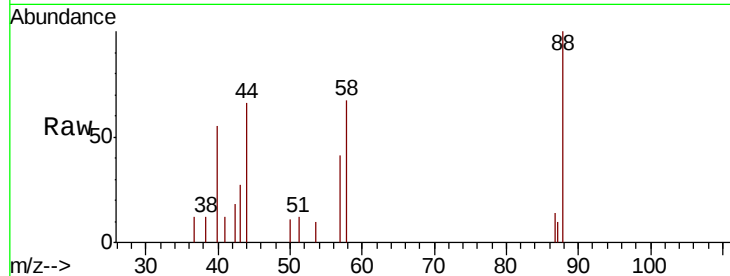




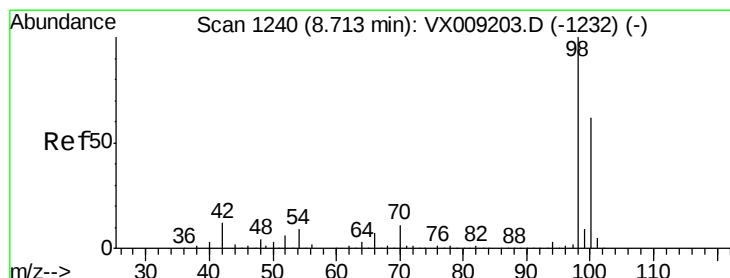
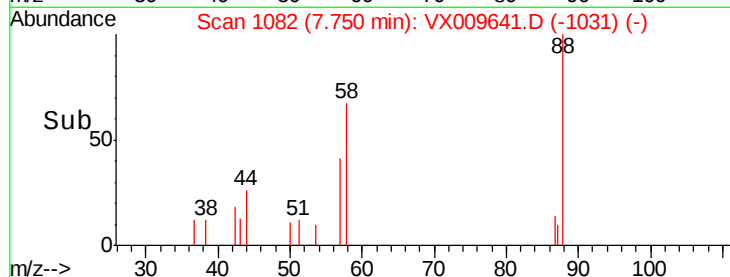
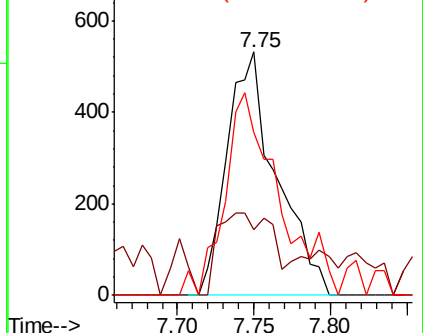
#49
1,4-Dioxane
Concen: 21.015 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX009641.D
Acq: 17 May 2019 05:14

Instrument :
MSVOA_X
ClientSampleId :
SS052MW731-190515

Tot Ion: 88 Resp: 1197
Ion Ratio Lower Upper
88 100
43 38.8 28.6 42.8
58 90.6 61.7 92.5

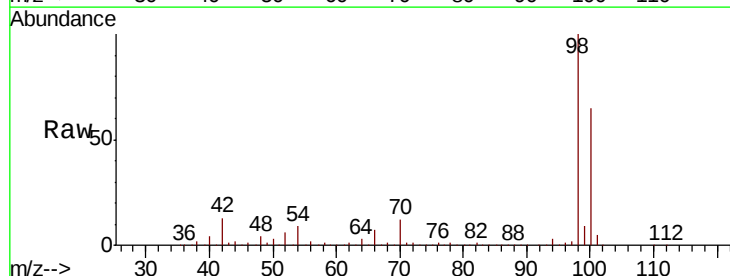


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

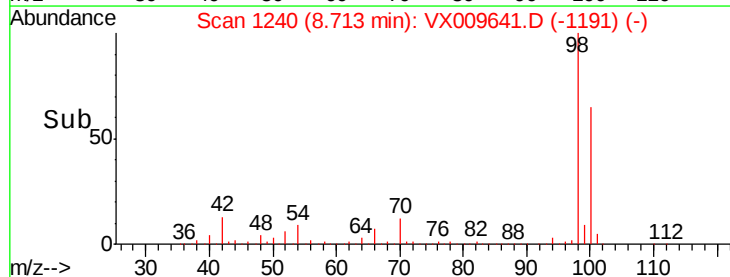
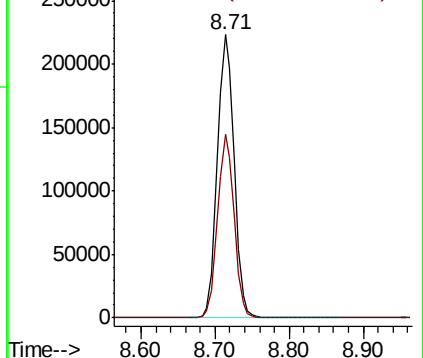


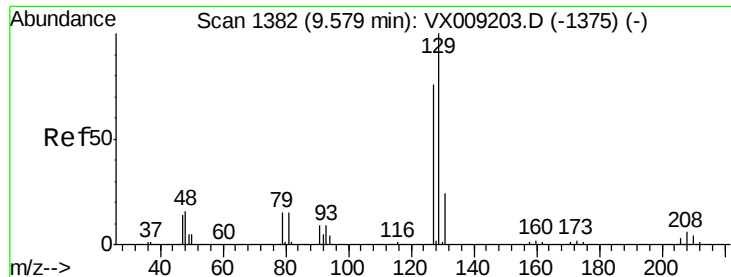
#50
Toluene-d8
Concen: 49.732 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009641.D
Acq: 17 May 2019 05:14

Tgt Ion: 98 Resp: 345006
Ion Ratio Lower Upper
98 100
100 63.7 51.2 76.8



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





#60

Dibromochloromethane

Concen: 61.761 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

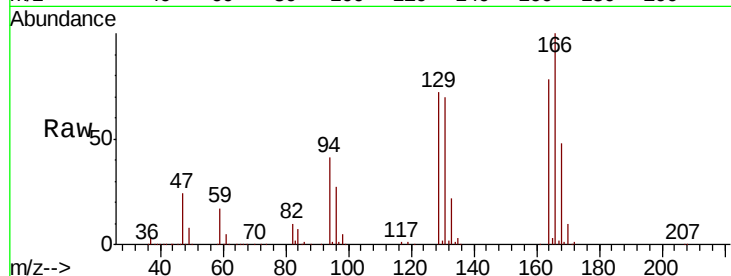
SS052MW731-190515

Tot Ion:129 Resp: 117602

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

80000

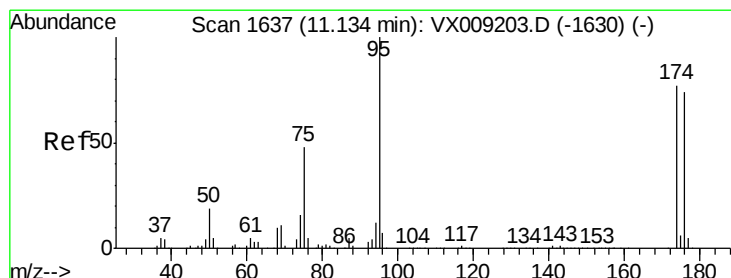
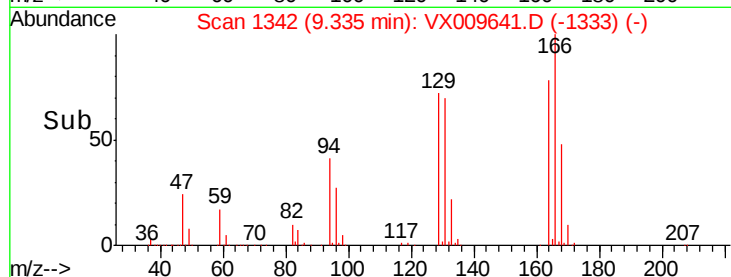
60000

40000

20000

0

Time--> 9.30 9.40



#62

4-Bromofluorobenzene

Concen: 45.963 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

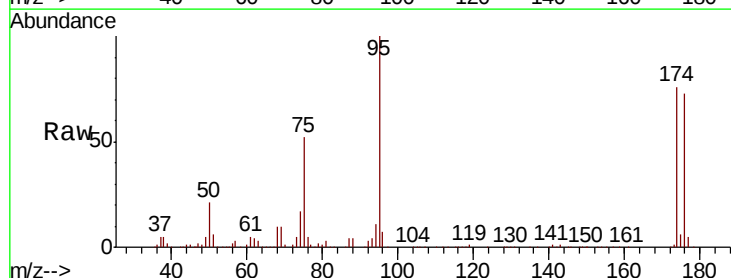
Tgt Ion: 95 Resp: 115862

Ion Ratio Lower Upper

95 100

174 81.0 0.0 161.6

176 79.1 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

120000

100000

80000

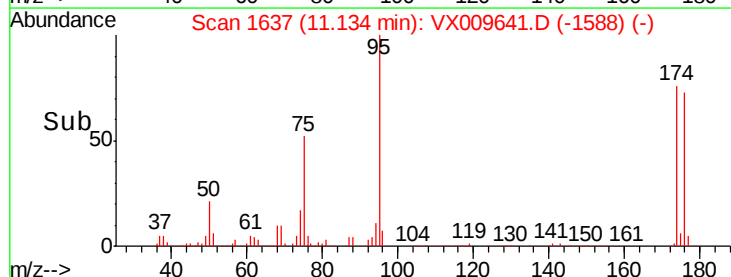
60000

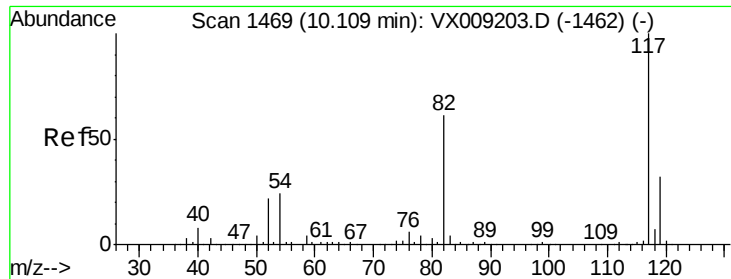
40000

20000

0

Time--> 11.10 11.20

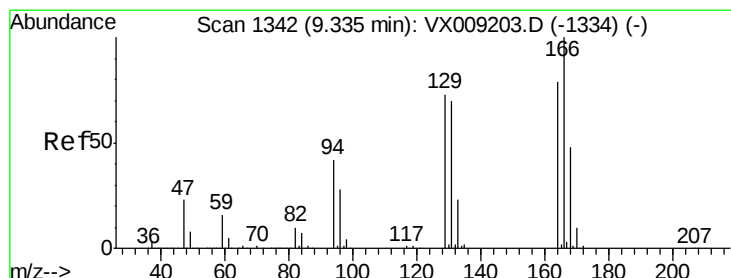
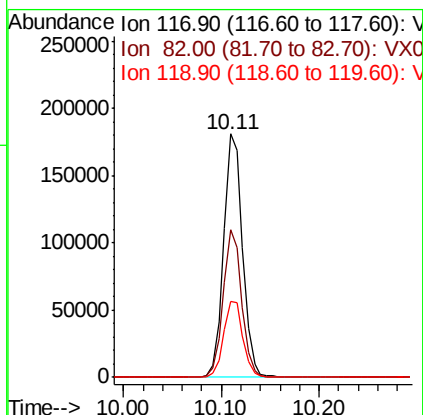
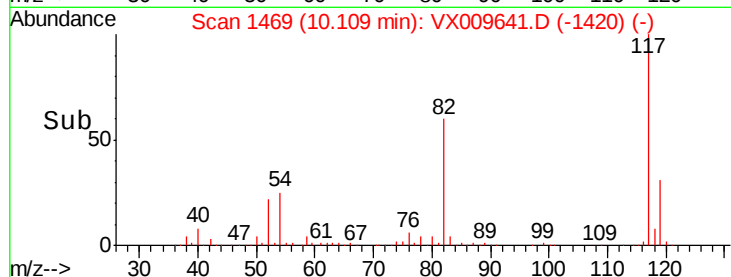
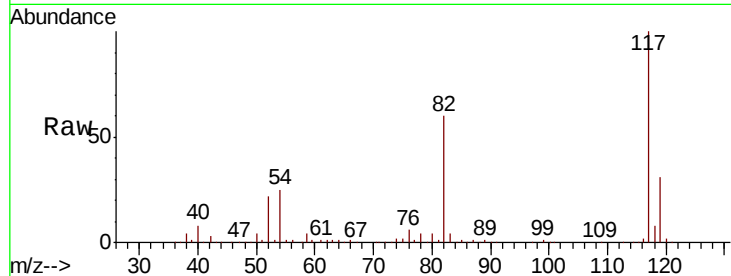




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009641.D
Acq: 17 May 2019 05:14

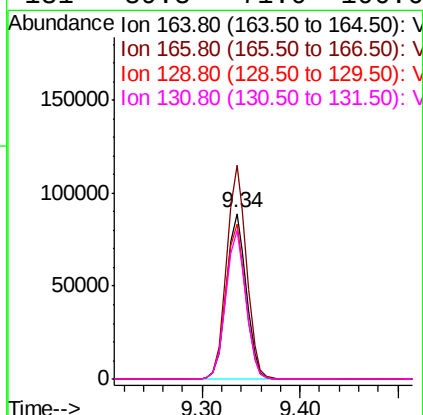
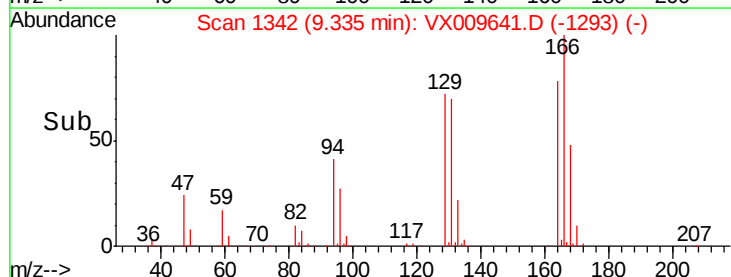
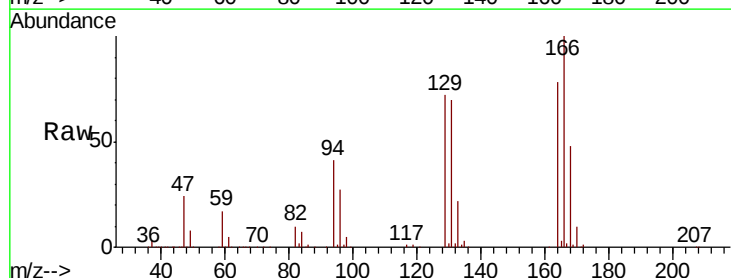
Instrument :
MSVOA_X
ClientSampleId :
SS052MW731-190515

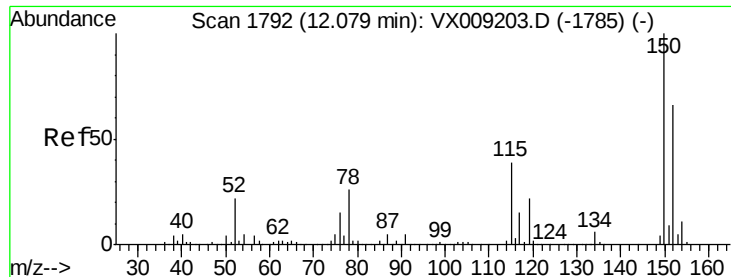
Tot Ion:117 Resp: 241983
Ion Ratio Lower Upper
117 100
82 60.4 48.8 73.2
119 31.5 25.8 38.6



#64
Tetrachloroethene
Concen: 76.123 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009641.D
Acq: 17 May 2019 05:14

Tgt Ion:164 Resp: 126356
Ion Ratio Lower Upper
164 100
166 128.8 101.2 151.8
129 93.3 74.3 111.5
131 89.8 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW731-190515

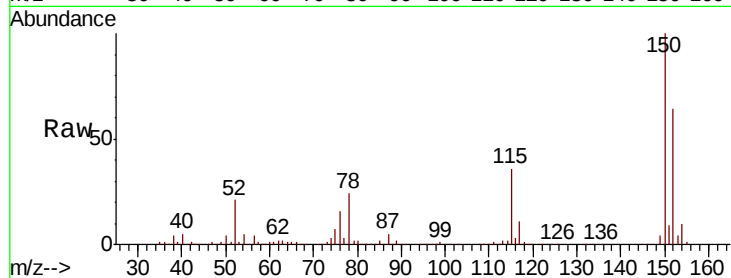
Tot Ion:152 Resp: 104938

Ion Ratio Lower Upper

152 100

115 57.8 41.2 123.6

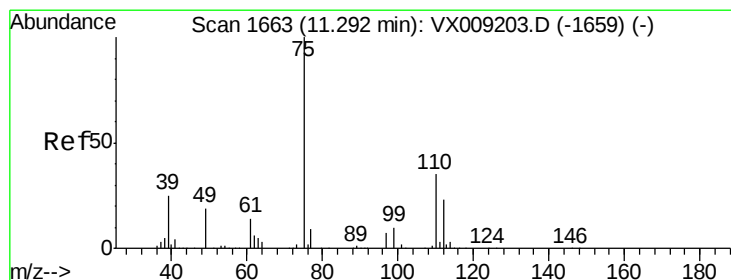
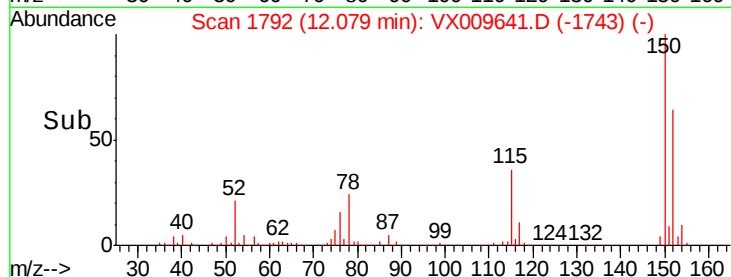
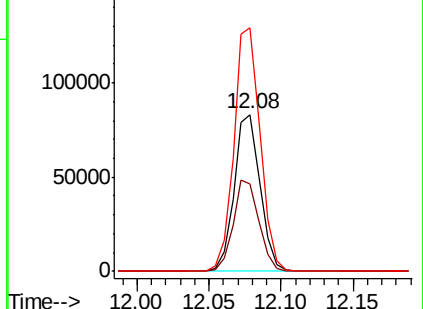
150 157.4 0.0 346.4



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: 24.291 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009641.D

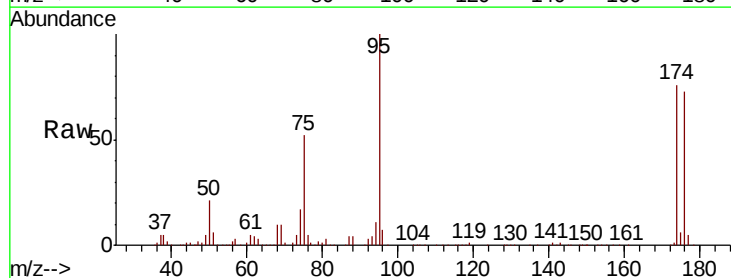
Acq: 17 May 2019 05:14

Tgt Ion: 75 Resp: 59129

Ion Ratio Lower Upper

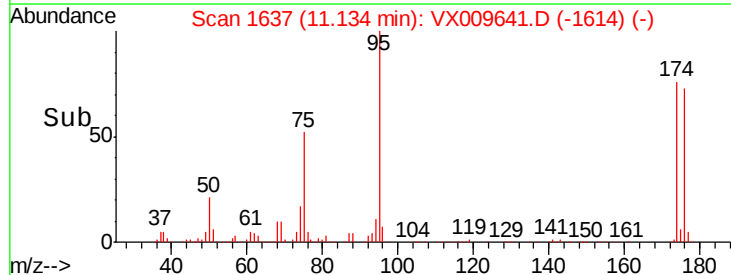
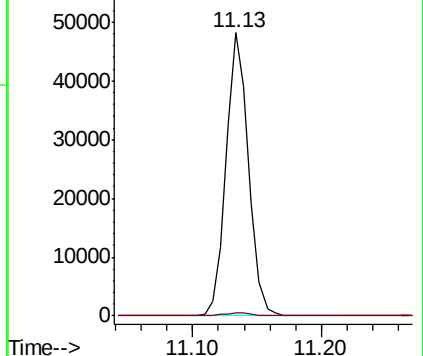
75 100

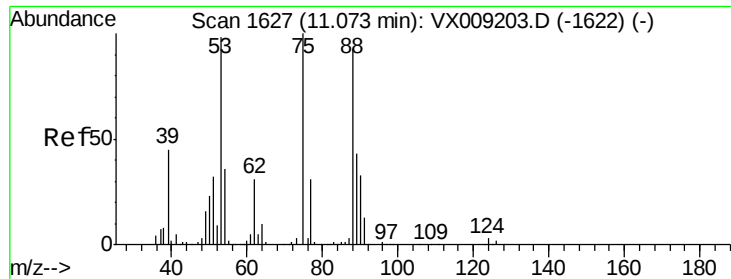
77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.152 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009641.D

Acq: 17 May 2019 05:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW731-190515

Tot Ion: 75 Resp: 59129

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

