

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009327.D
 Acq On : 03 May 2019 22:07
 Operator : JC/SP
 Sample : K2687-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW354-190502

Quant Time: May 03 23:22:40 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	5.67	168	194984	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	315445	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	270262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112563	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	129900	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
35) Dibromofluoromethane	5.50	113	95711	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	8.71	98	391775	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	11.13	95	126087	43.34	ug/l	0.00
Spiked Amount			Recovery	=	86.68%	

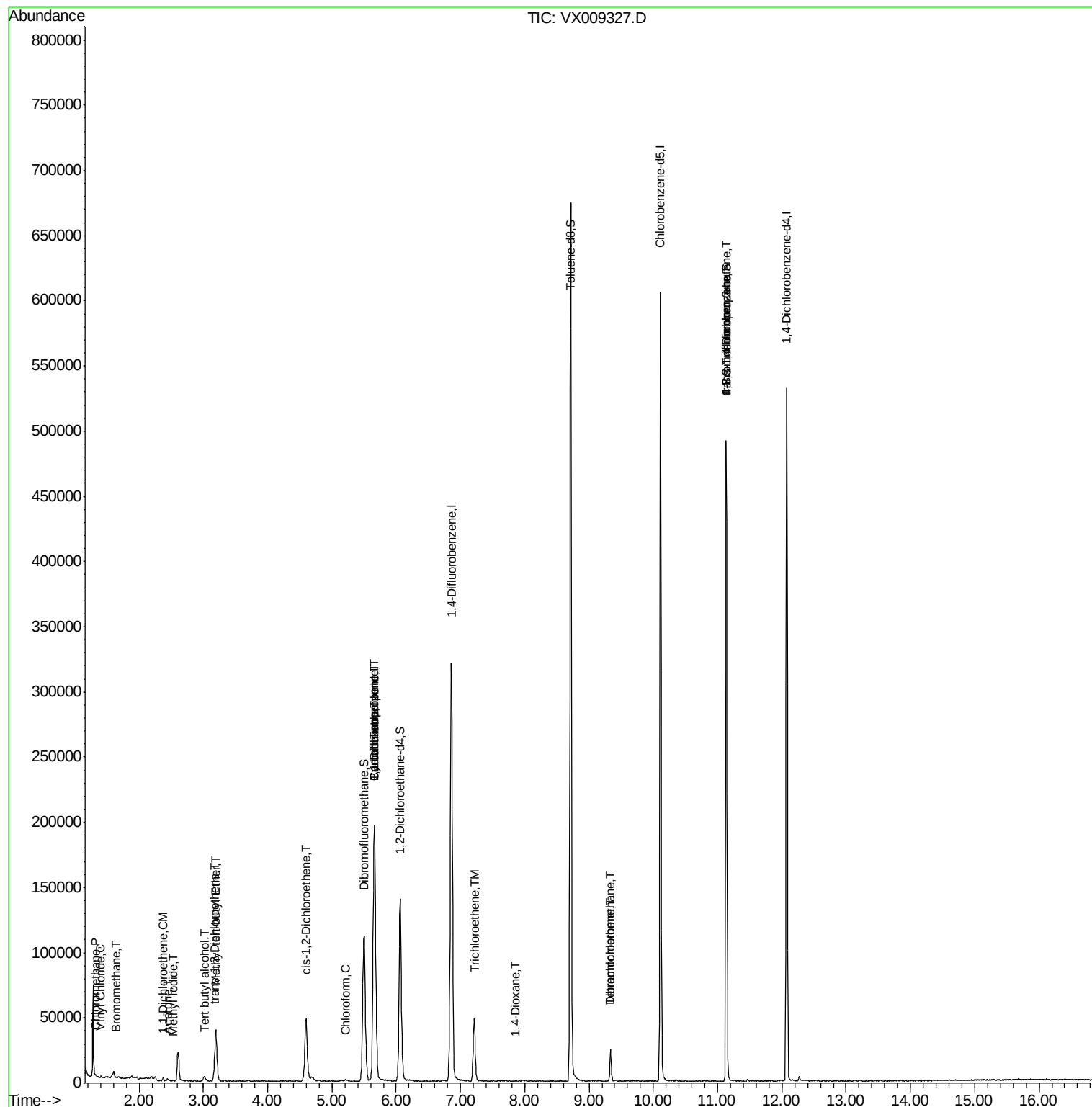
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	944	0.385	ug/l	98
4) Vinyl Chloride	1.41	62	854	0.357	ug/l #	83
5) Bromomethane	1.65	94	310	0.216	ug/l #	76
10) Methyl Iodide	2.53	142	186	4.673	ug/l #	42
11) Tert butyl alcohol	3.01	59	2302	3.736	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	638	0.349	ug/l	89
16) Acetone	2.44	43	2053	1.436	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	42324	5.957	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	641	0.323	ug/l #	74
27) cis-1,2-Dichloroethene	4.60	96	29814	12.589	ug/l	89
28) Bromochloromethane	4.97	49	22	Below Cal	#	20
30) Chloroform	5.21	83	1187	0.310	ug/l	97
31) Cyclohexane	5.66	56	4162	1.058	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14958	5.103	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18346	6.888	ug/l #	16
44) Trichloroethene	7.21	130	18764	8.555	ug/l	95
49) 1,4-Dioxane	7.85	88	26	0.396	ug/l #	1
60) Dibromochloromethane	9.34	129	4472	2.035	ug/l #	11
64) Tetrachloroethene	9.34	164	4842	2.612	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	64117	24.556	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64117	62.830	ug/l #	10

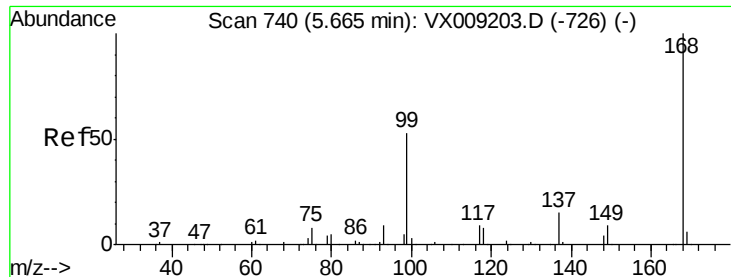
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

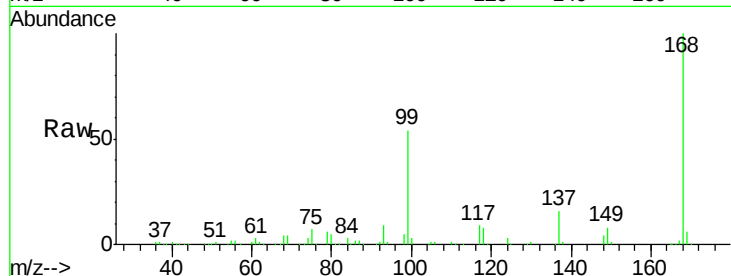
SS052MW354-190502

Tot Ion:168 Resp: 194984

Ion Ratio Lower Upper

168 100

99 54.3 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

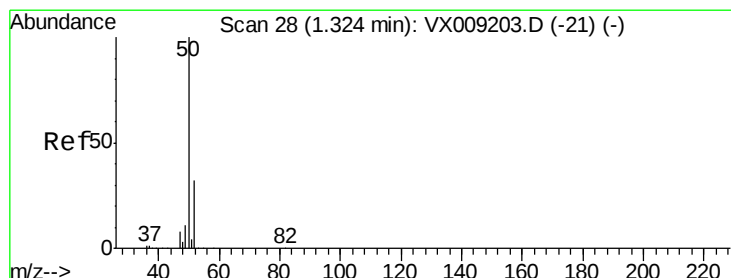
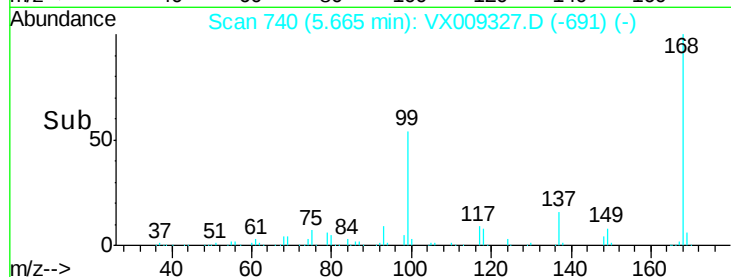
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.385 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009327.D

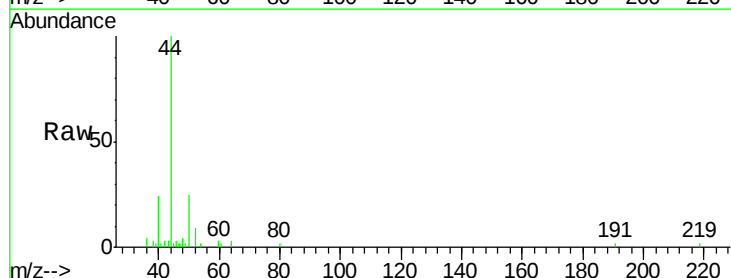
Acq: 03 May 2019 22:07

Tgt Ion: 50 Resp: 944

Ion Ratio Lower Upper

50 100

52 33.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

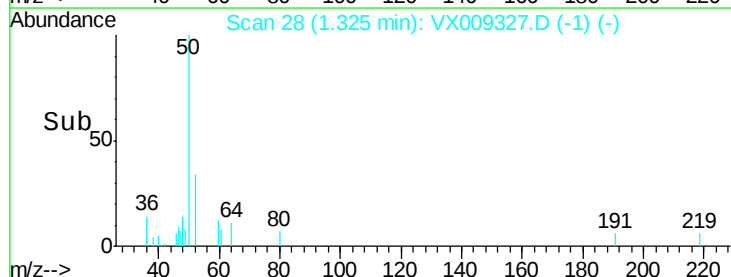
600

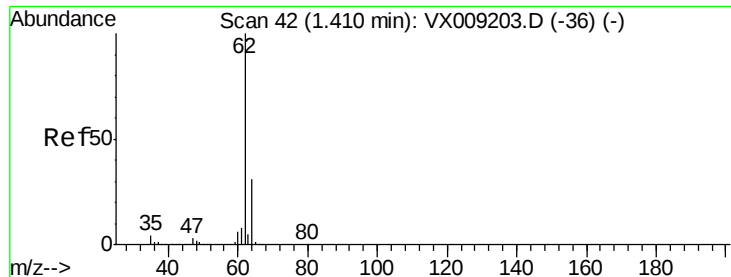
400

200

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.357 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

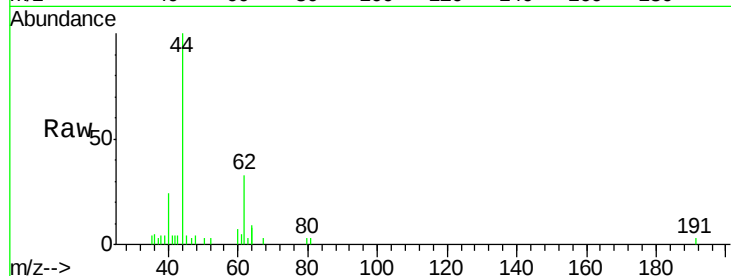
SS052MW354-190502

Tot Ion: 62 Resp: 854

Ion Ratio Lower Upper

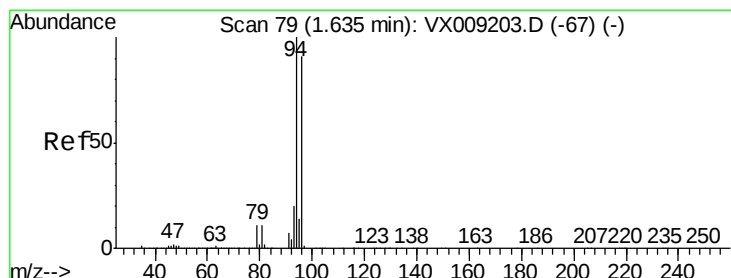
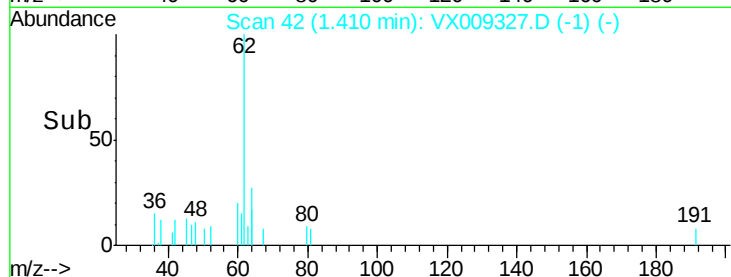
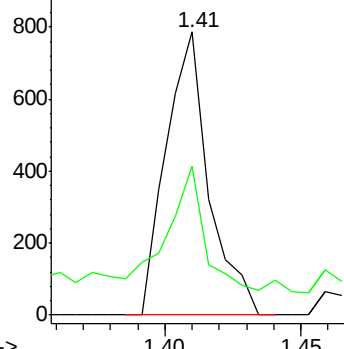
62 100

64 40.2 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.216 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009327.D

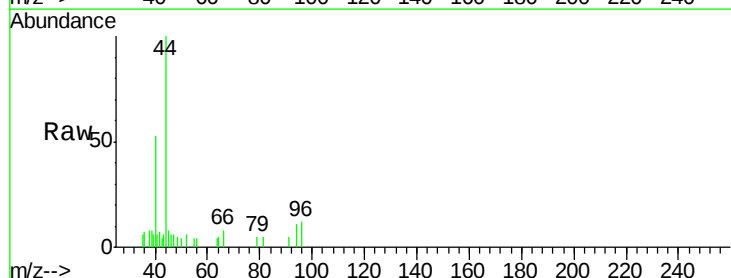
Acq: 03 May 2019 22:07

Tgt Ion: 94 Resp: 310

Ion Ratio Lower Upper

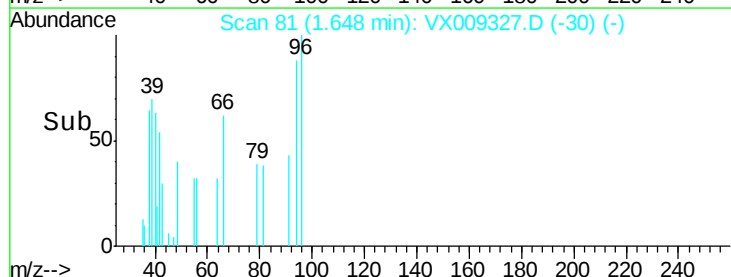
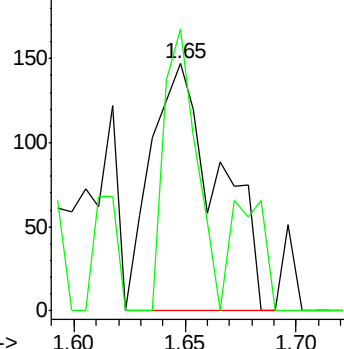
94 100

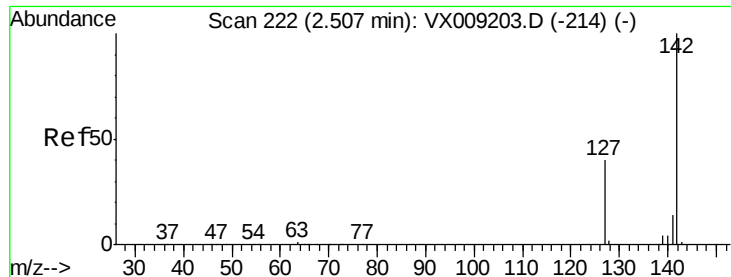
96 114.3 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

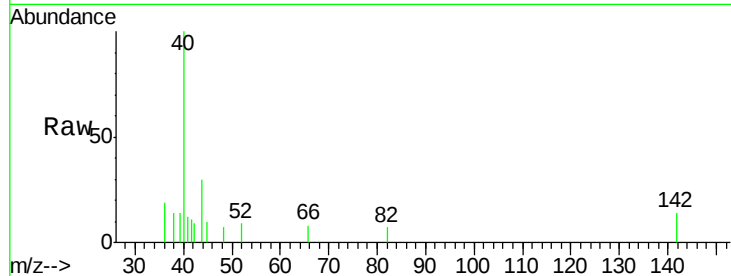




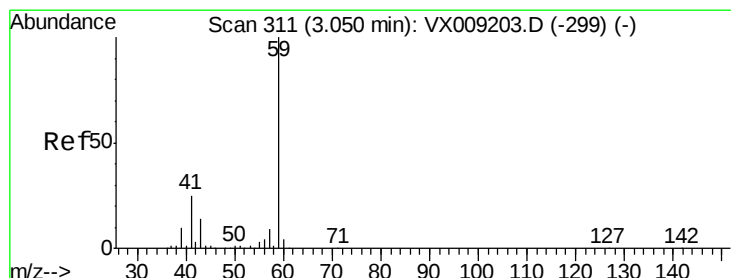
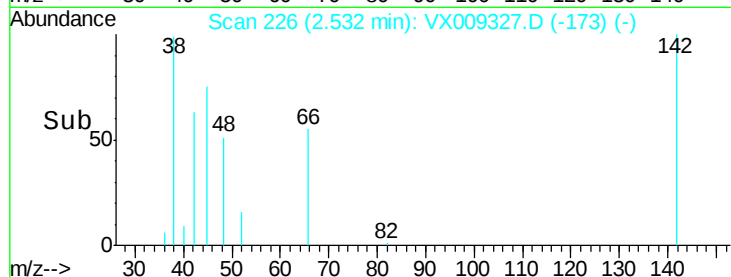
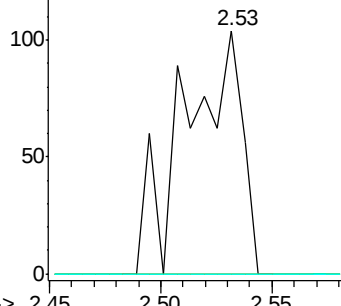
#10
Methvl Iodide
Concen: 4.673 ug/l
RT: 2.53 min Scan# 226
Delta R.T. 0.02 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

Instrument :
MSVOA_X
ClientSampleId :
SS052MW354-190502

Tot Ion:142 Resp: 186
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

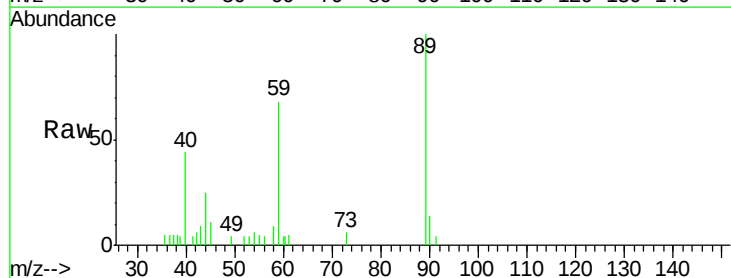


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

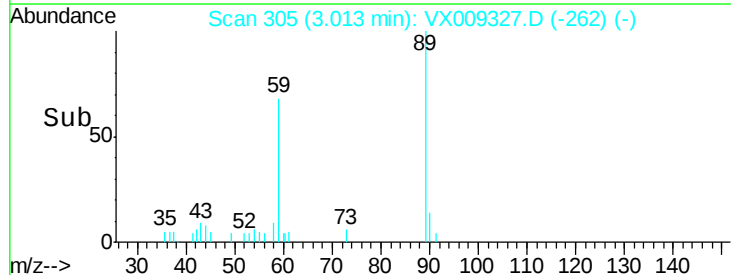
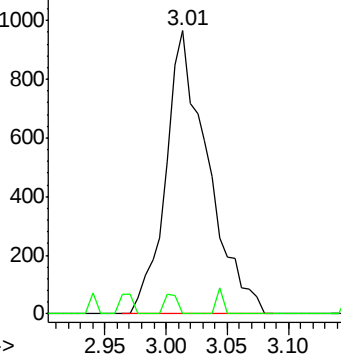


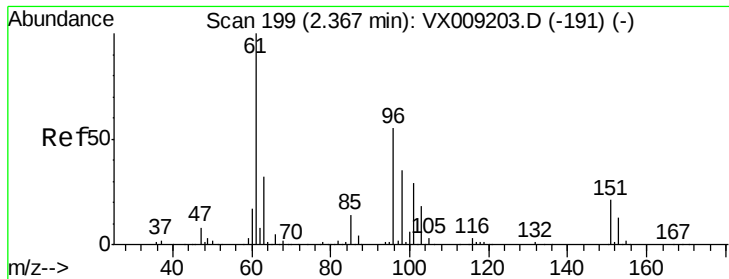
#11
Tert butyl alcohol
Concen: 3.736 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

Tgt Ion: 59 Resp: 2302
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: 0.349 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW354-190502

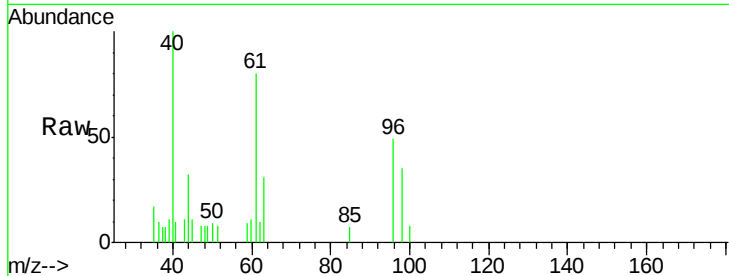
Tot Ion: 96 Resp: 638

Ion Ratio Lower Upper

96 100

61 164.0 144.3 216.5

98 71.0 50.3 75.5



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

800

600

400

200

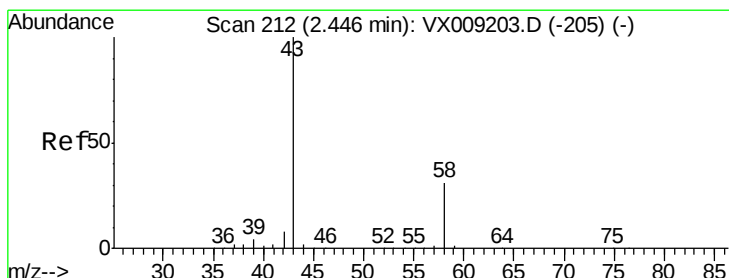
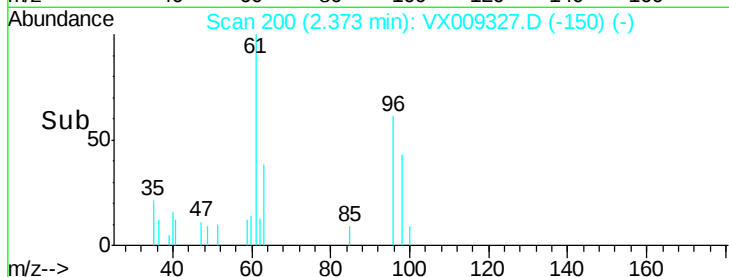
0

2.35

2.40

2.37

Time-->



#16

Acetone

Concen: 1.436 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009327.D

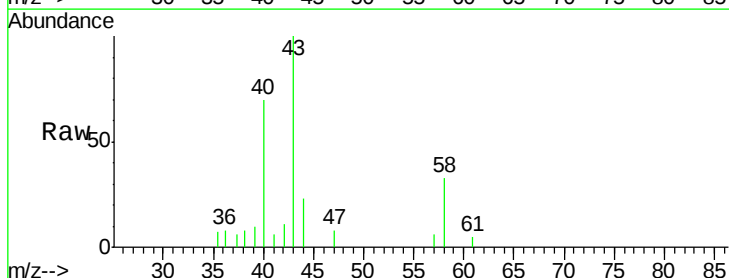
Acq: 03 May 2019 22:07

Tgt Ion: 43 Resp: 2053

Ion Ratio Lower Upper

43 100

58 32.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

600

400

200

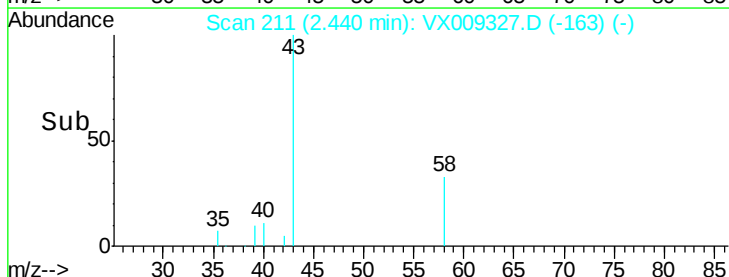
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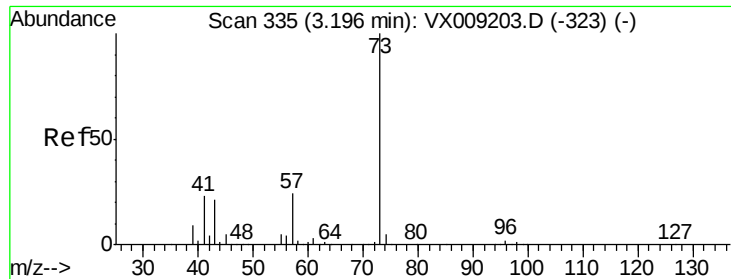
2.40

2.45

2.50

Time-->

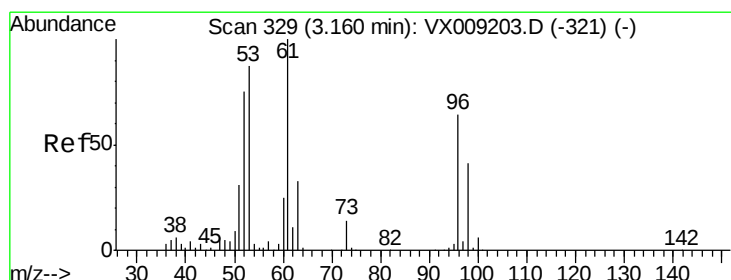
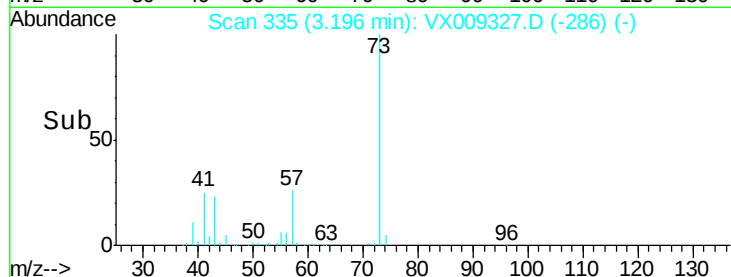
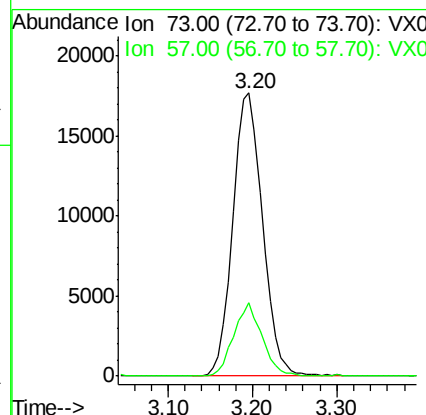
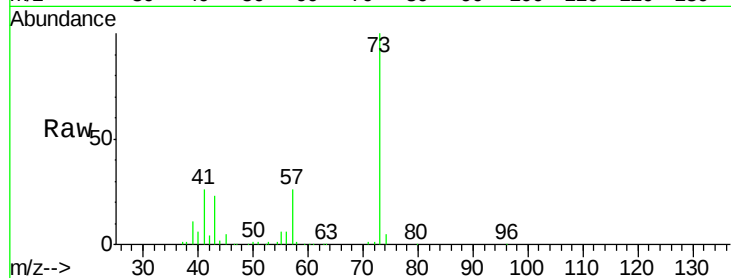




#19
Methvl tert-butvl Ether
Concen: 5.957 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

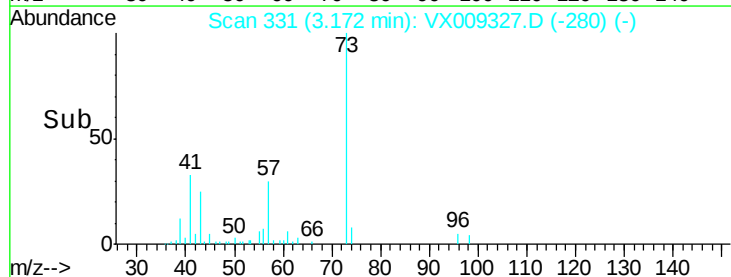
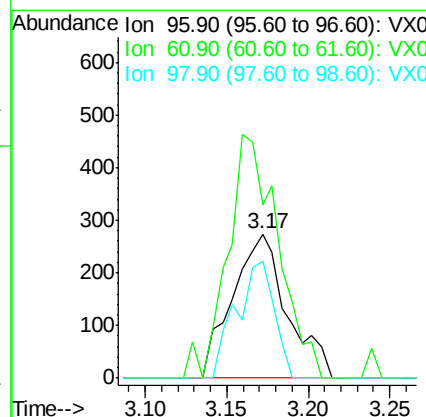
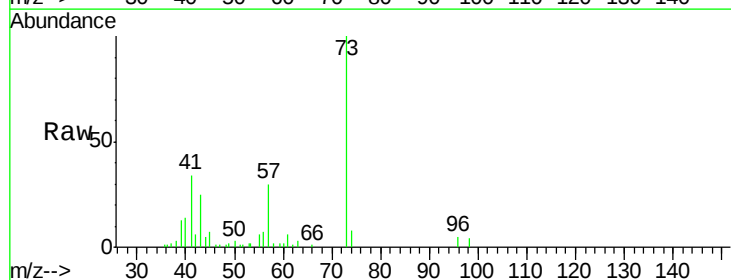
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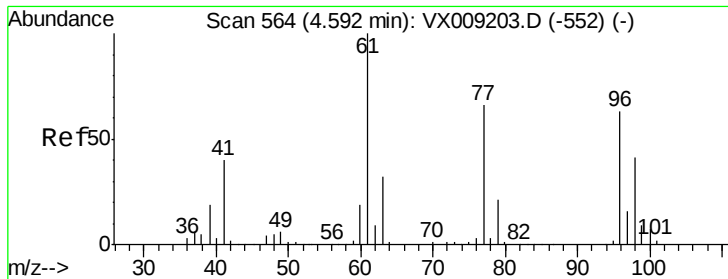
Tot Ion: 73 Resp: 42324
Ion Ratio Lower Upper
73 100
57 25.9 19.3 28.9



#21
trans-1,2-Dichloroethene
Concen: 0.323 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

Tgt Ion: 96 Resp: 641
Ion Ratio Lower Upper
96 100
61 120.1 124.5 186.7#
98 81.4 50.4 75.6#



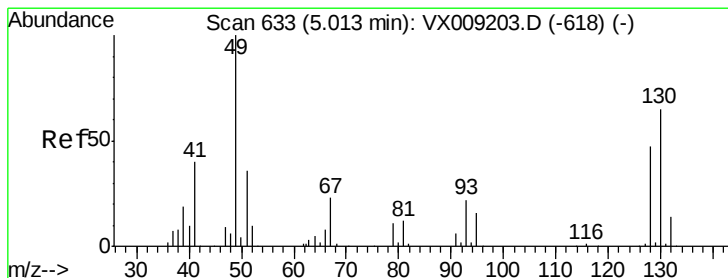
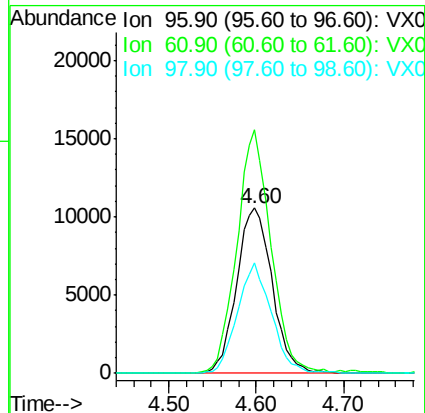
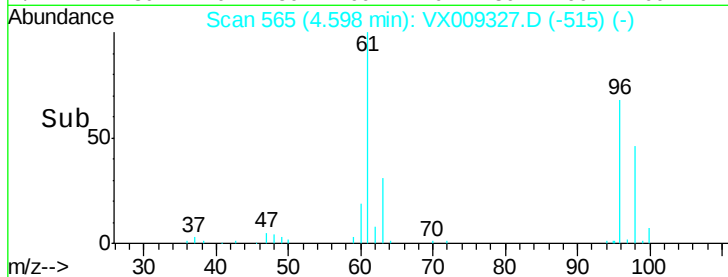
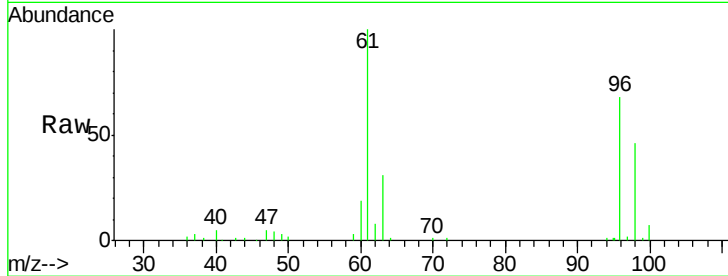


#27

cis-1,2-Dichloroethene
 Concen: 12.589 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009327.D
 Acq: 03 May 2019 22:07

Instrument :
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 SS052MW354-190502

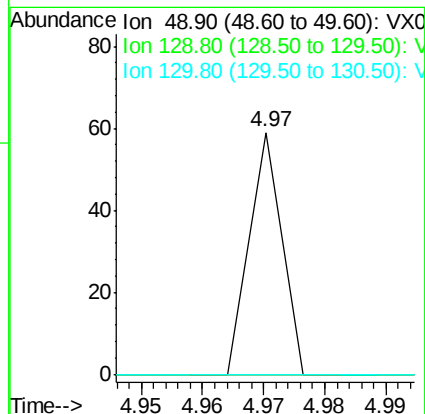
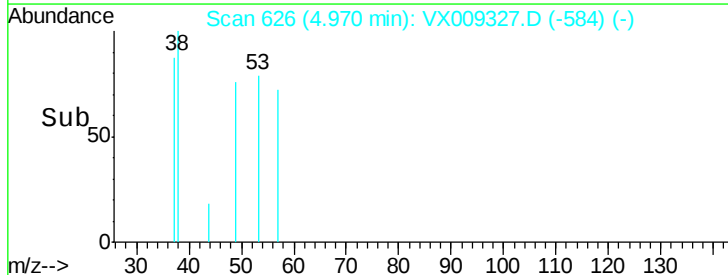
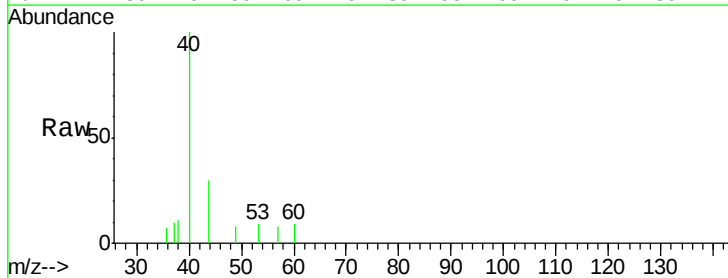
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.5	0.0	324.0
98	64.2	0.0	130.4

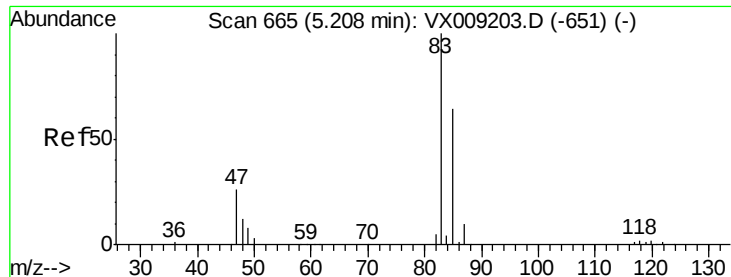


#28

Bromochloromethane
 Concen: Below Cal
 RT: 4.97 min Scan# 626
 Delta R.T. -0.04 min
 Lab File: VX009327.D
 Acq: 03 May 2019 22:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	51.2	76.8#

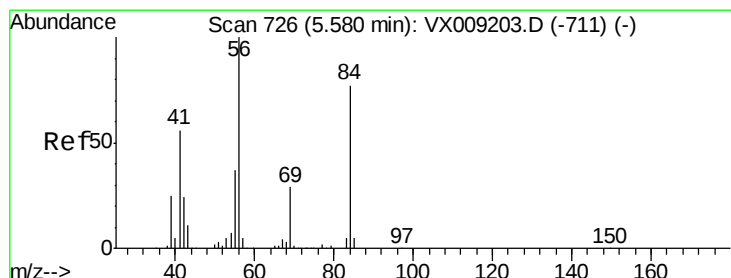
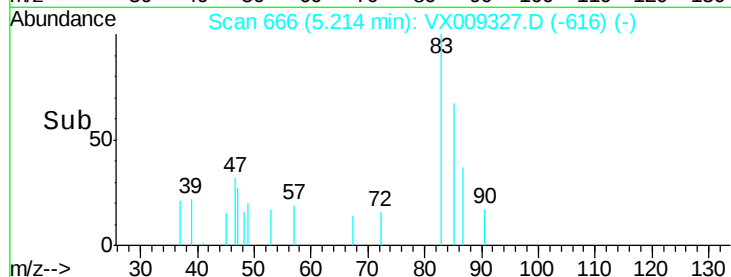
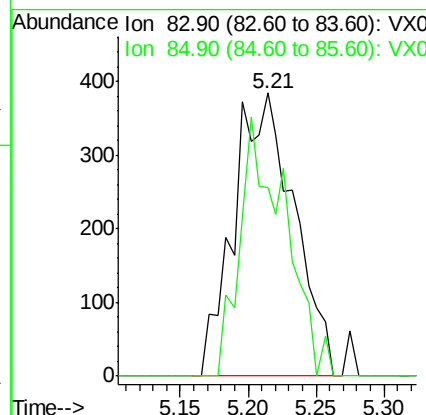
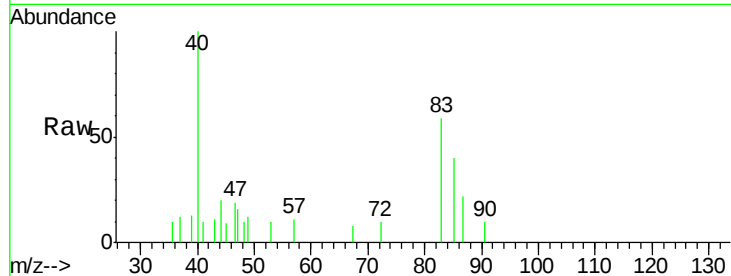




#30
Chloroform
Concen: 0.310 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

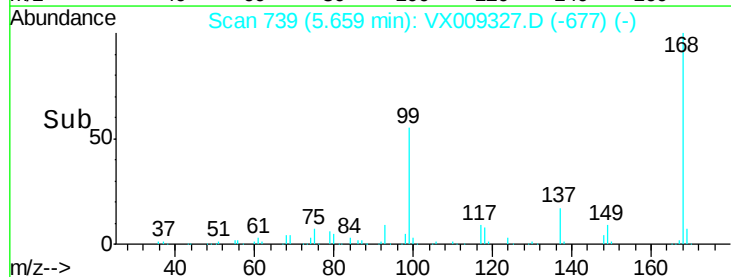
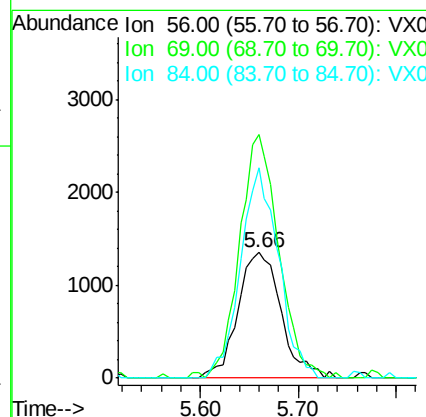
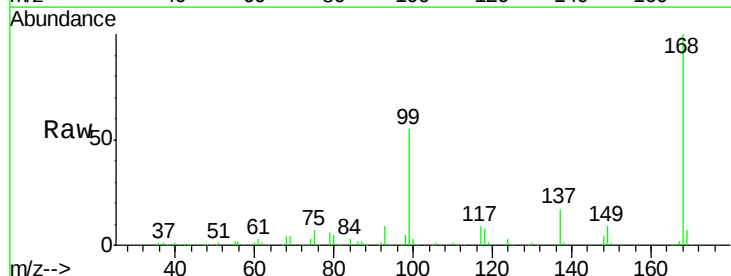
Instrument :
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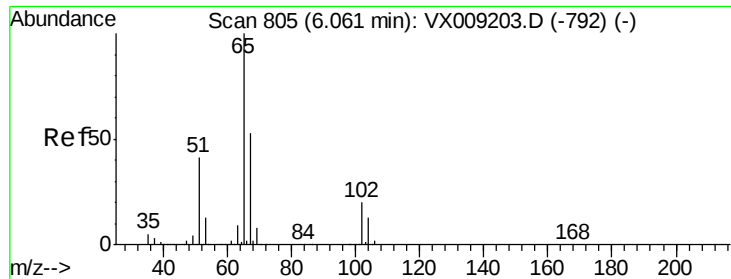
Tot Ion: 83 Resp: 1187
Ion Ratio Lower Upper
83 100
85 66.7 51.5 77.3



#31
Cyclohexane
Concen: 1.058 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

Tgt Ion: 56 Resp: 4162
Ion Ratio Lower Upper
56 100
69 194.2 23.4 35.0#
84 167.3 61.9 92.9#





#33

1,2-Dichloroethane-d4

Concen: 48.802 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

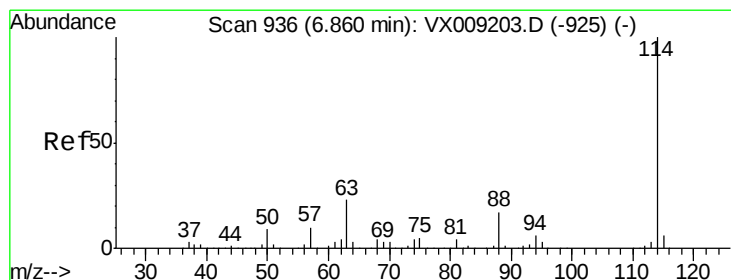
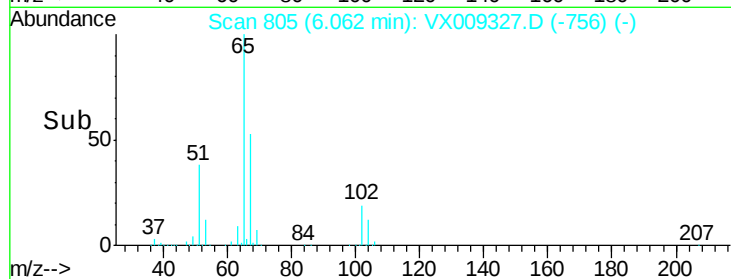
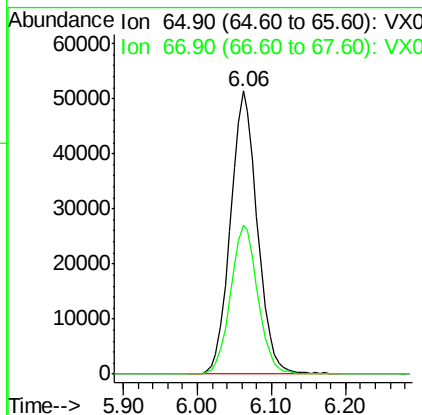
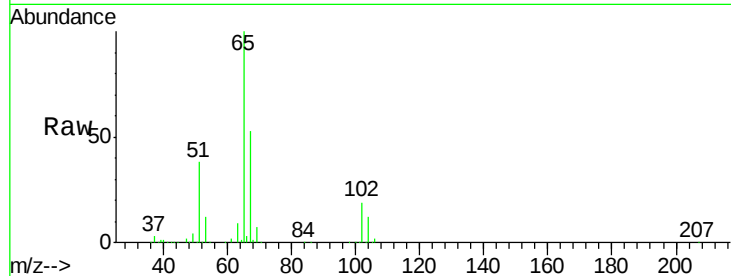
SS052MW354-190502

Tot Ion: 65 Resp: 129900

Ion Ratio Lower Upper

65 100

67 53.3 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: VX009327.D

Acq: 03 May 2019 22:07

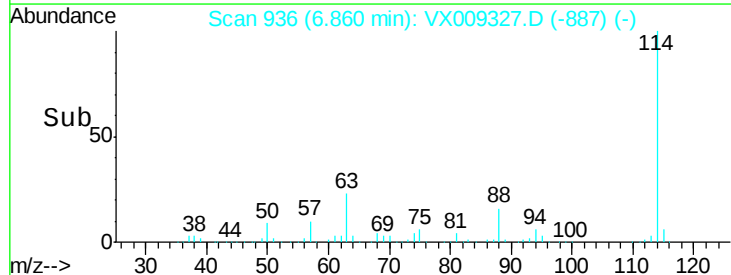
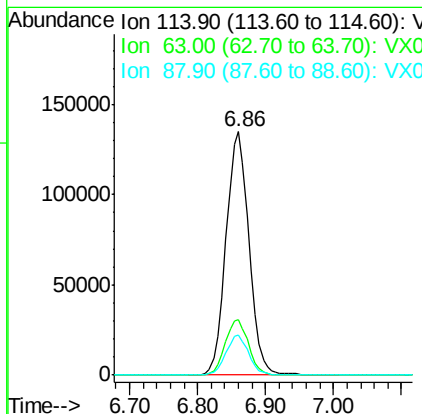
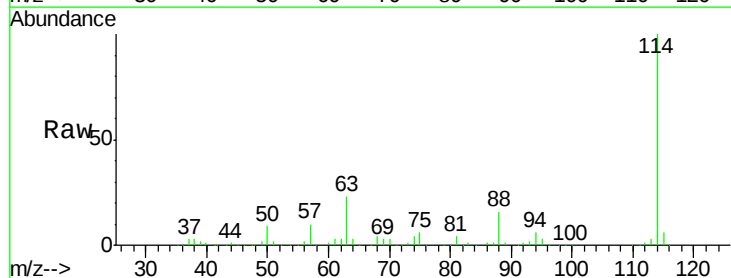
Tgt Ion: 114 Resp: 315445

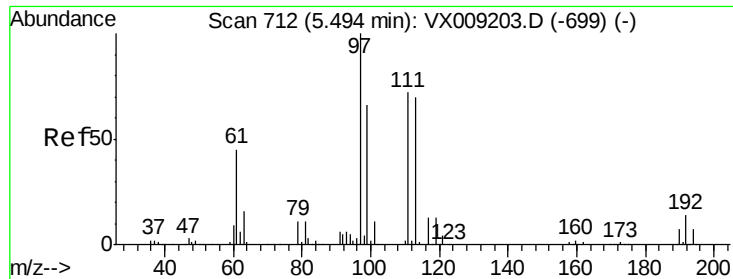
Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.6

88 16.3 0.0 33.2

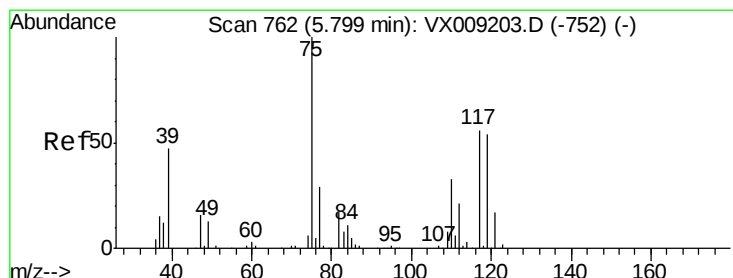
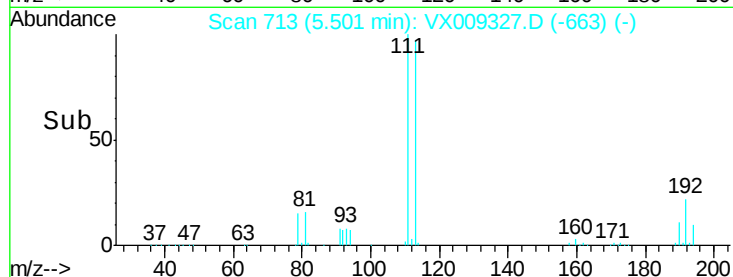
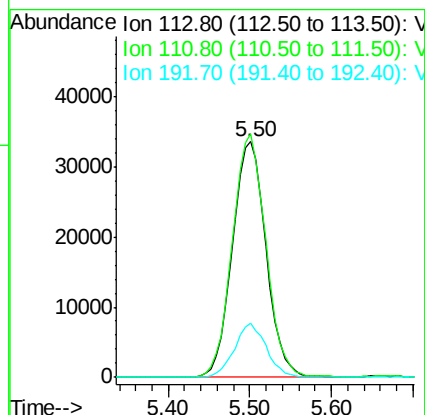
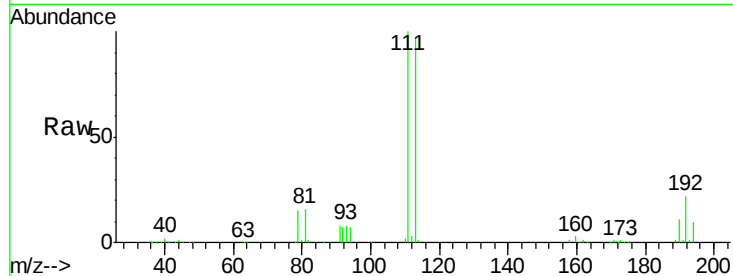




#35
 Dibromofluoromethane
 Concen: 48.265 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009327.D
 Acq: 03 May 2019 22:07

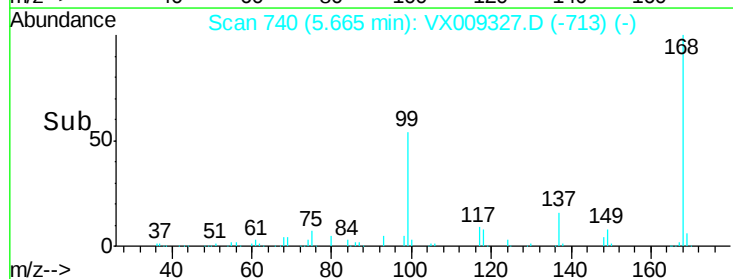
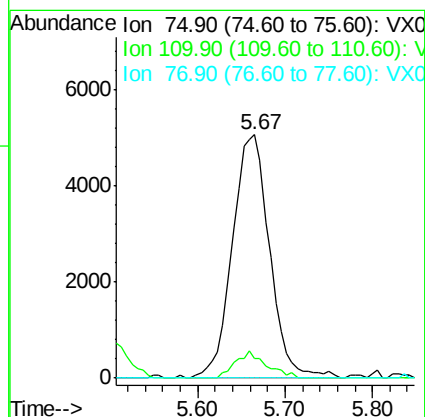
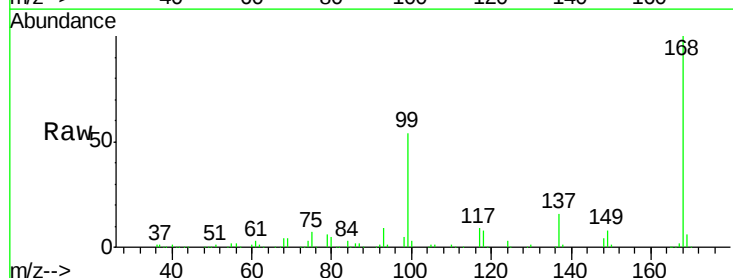
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW354-190502

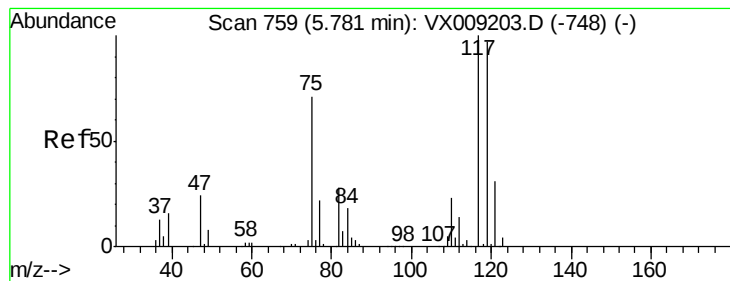
Tot Ion:113 Resp: 95711
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.8 124.2
 192 21.7 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.103 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009327.D
 Acq: 03 May 2019 22:07

Tgt Ion: 75 Resp: 14958
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.888 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW354-190502

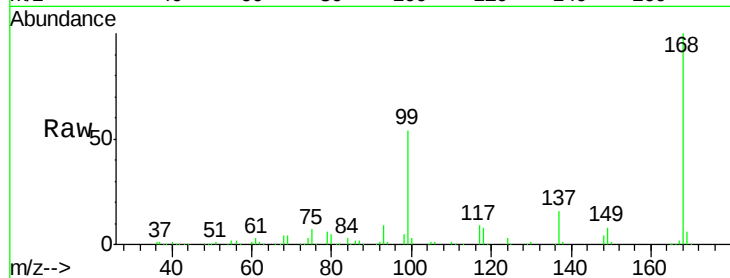
Tot Ion:117 Resp: 18346

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

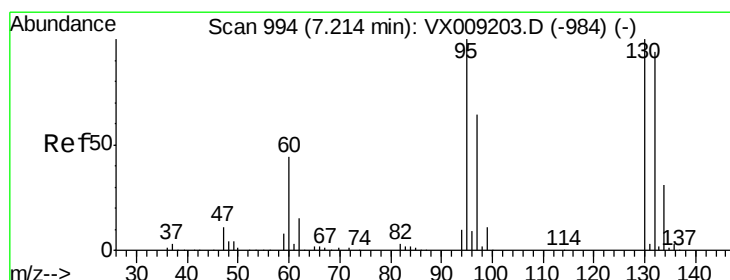
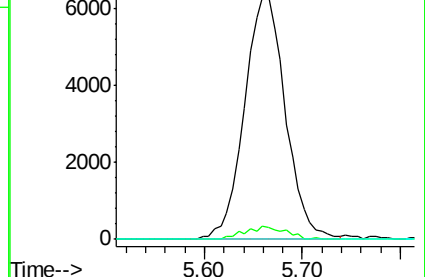
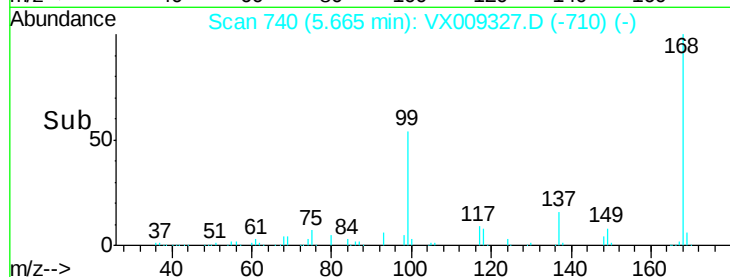
121 0.0 24.7 37.1#



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: 8.555 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009327.D

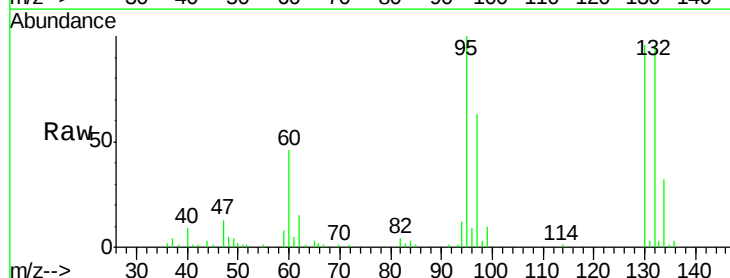
Acq: 03 May 2019 22:07

Tgt Ion:130 Resp: 18764

Ion Ratio Lower Upper

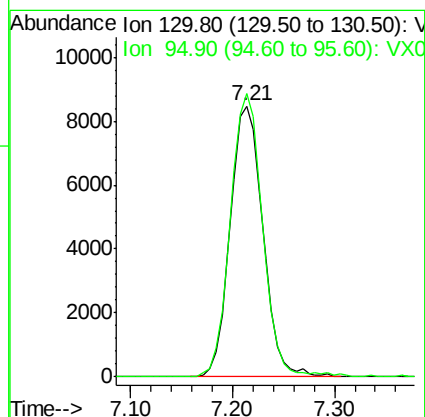
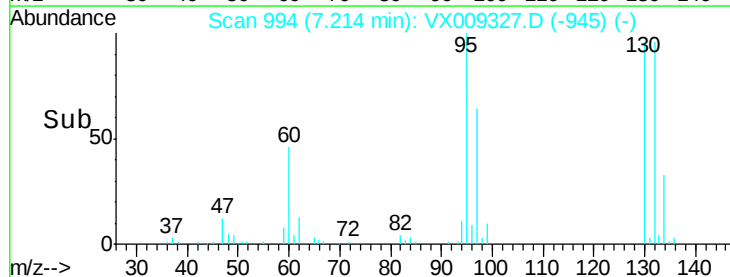
130 100

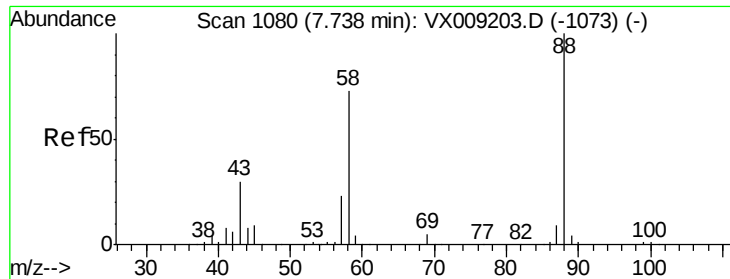
95 104.6 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.396 ug/l

RT: 7.85 min Scan# 1099

Delta R.T. 0.12 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

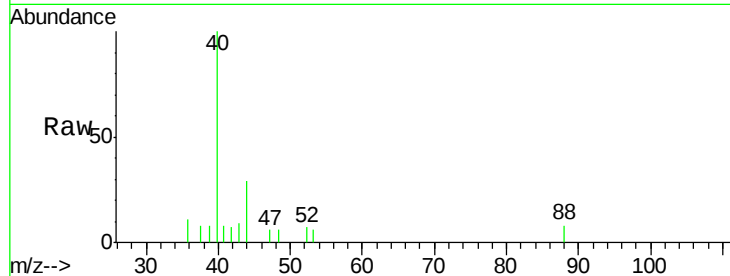
MSVOA_X

ClientSampleId :

SS052MW354-190502

Tot Ion: 88 Resp: 26

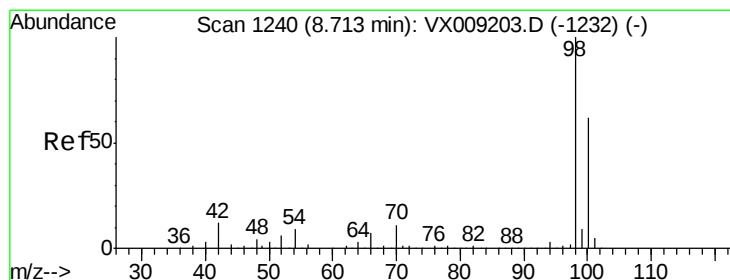
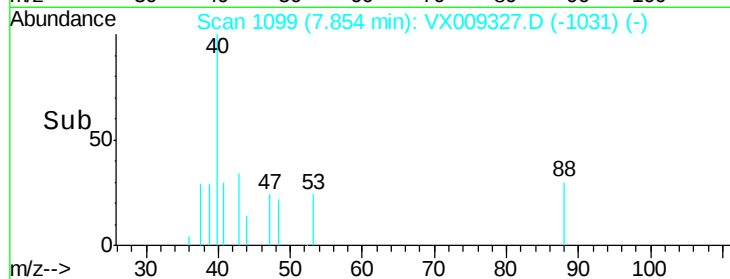
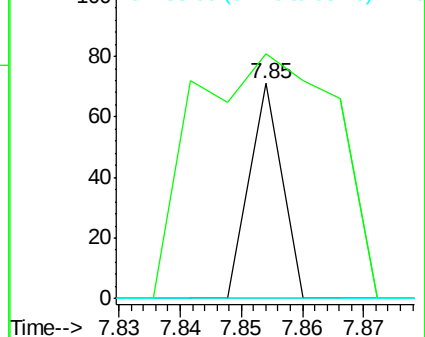
Ion	Ratio	Lower	Upper
88	100		
43	500.0	28.6	42.8#
58	0.0	61.7	92.5#



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: 48.936 ug/l

RT: 8.71 min Scan# 1240

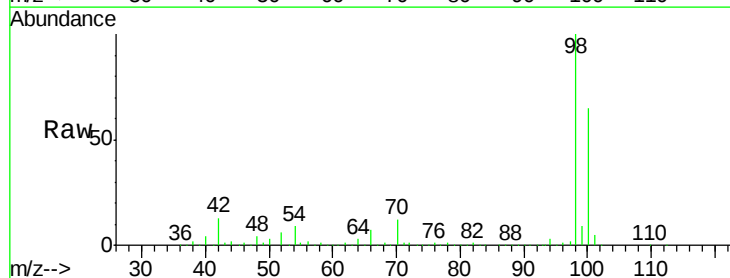
Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

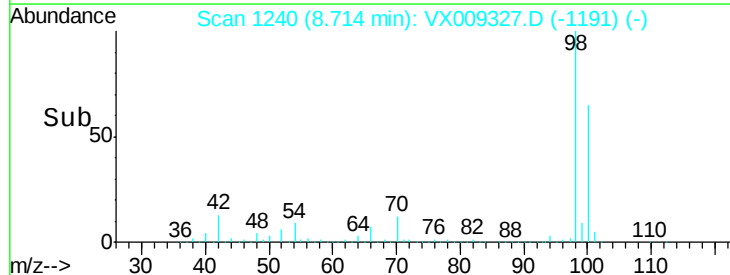
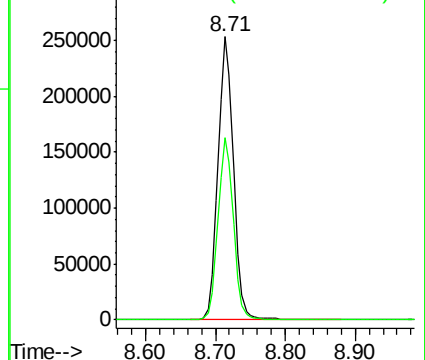
Tgt Ion: 98 Resp: 391775

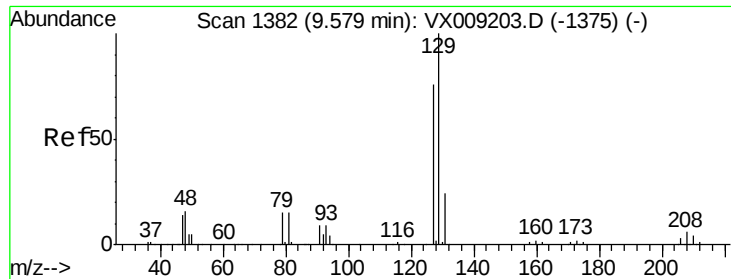
Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.2	76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 2.035 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

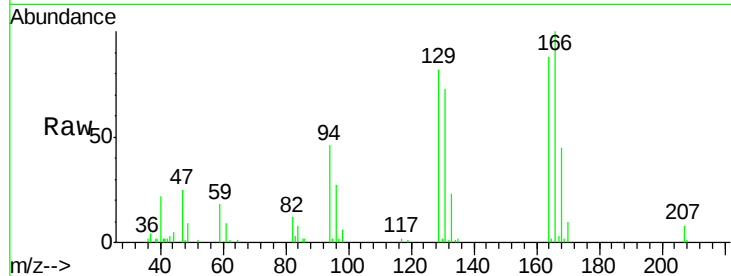
SS052MW354-190502

Tot Ion:129 Resp: 4472

Ion Ratio Lower Upper

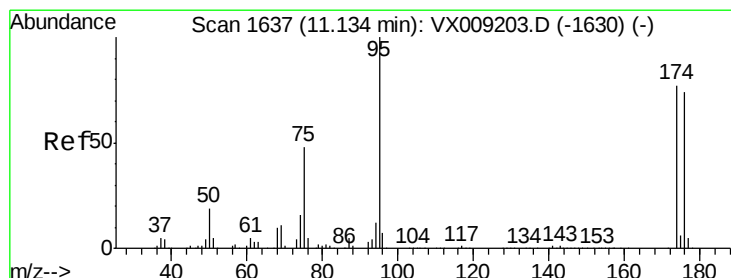
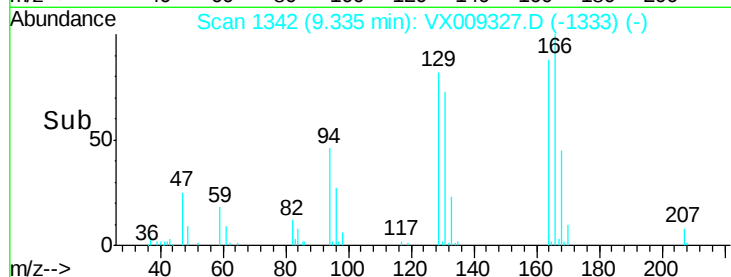
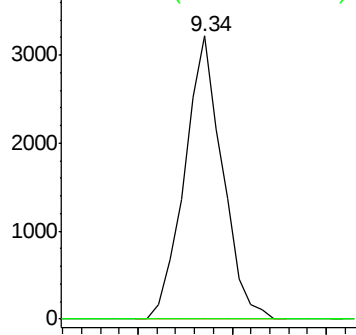
129 100

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



#62

4-Bromofluorobenzene

Concen: 43.343 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

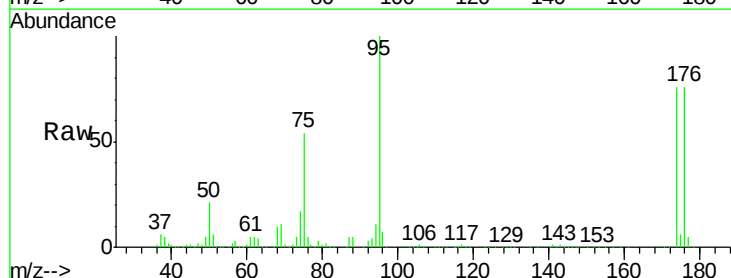
Tgt Ion: 95 Resp: 126087

Ion Ratio Lower Upper

95 100

174 81.6 0.0 161.6

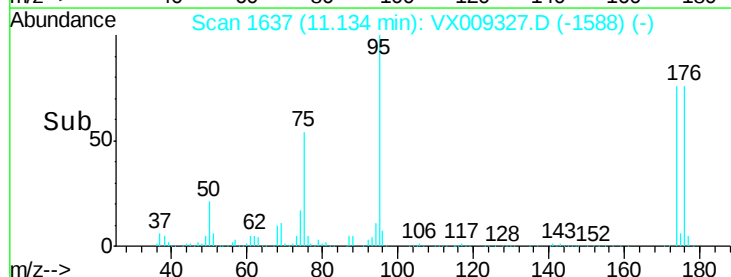
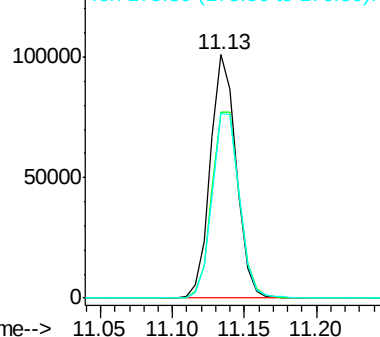
176 80.1 0.0 159.2

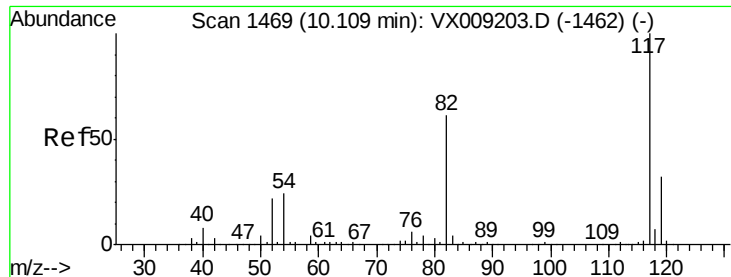


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

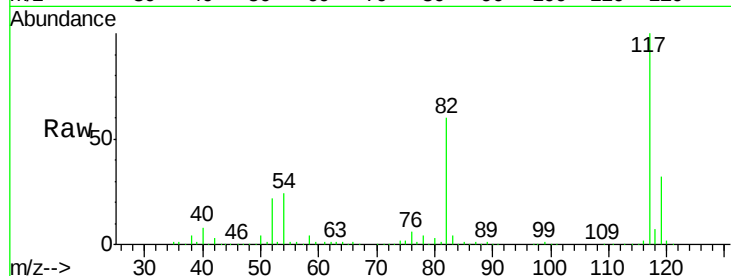




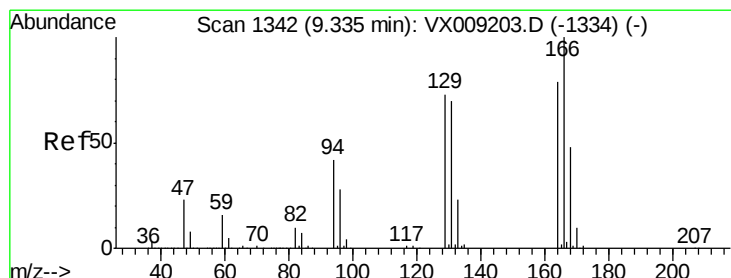
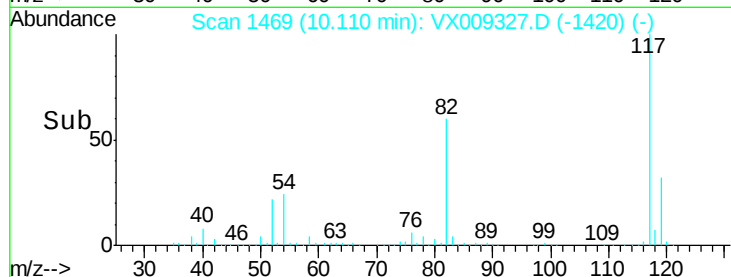
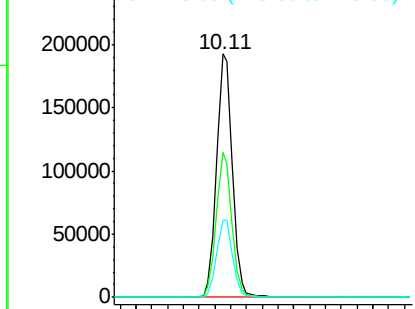
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

Instrument :
MSVOA_X
ClientSampleId :
SS052MW354-190502

Tot Ion:117 Resp: 270262
Ion Ratio Lower Upper
117 100
82 59.8 48.8 73.2
119 31.6 25.8 38.6

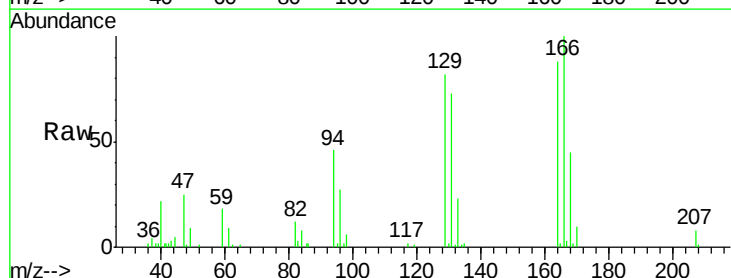


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

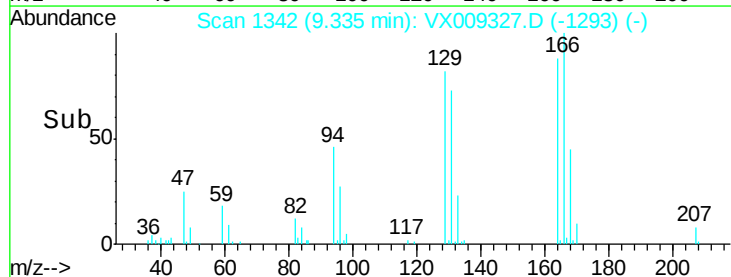
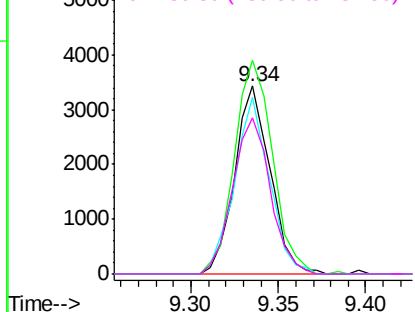


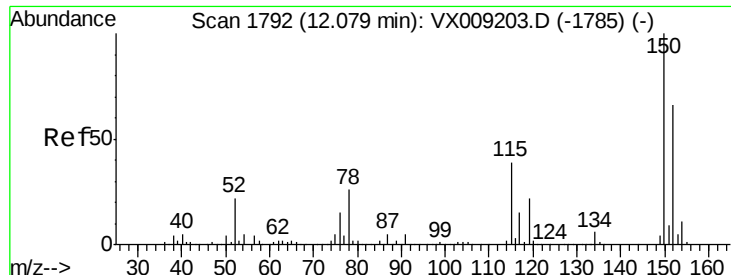
#64
Tetrachloroethene
Concen: 2.612 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009327.D
Acq: 03 May 2019 22:07

Tgt Ion:164 Resp: 4842
Ion Ratio Lower Upper
164 100
166 113.7 101.2 151.8
129 93.8 74.3 111.5
131 83.4 71.0 106.6



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW354-190502

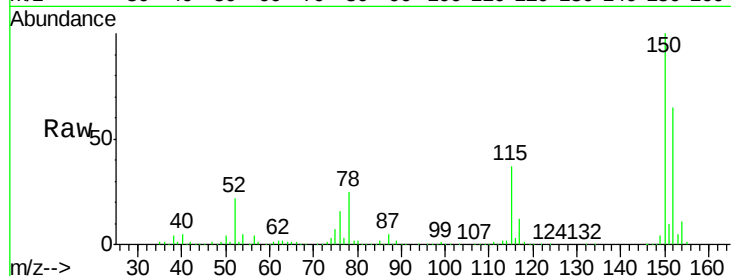
Tot Ion:152 Resp: 112563

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

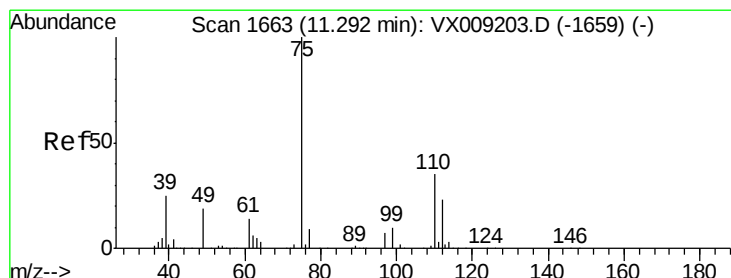
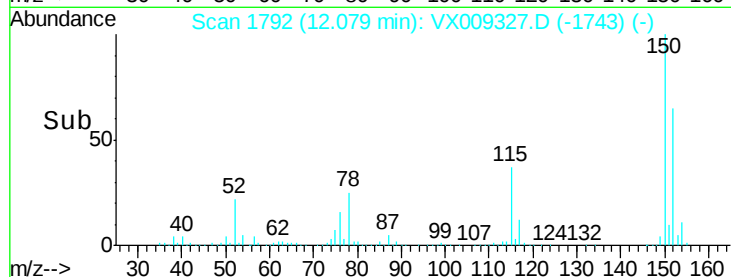
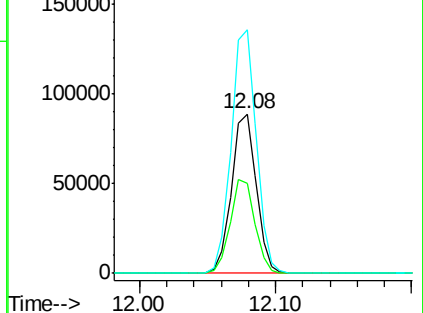
150 154.7 0.0 346.4



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: 24.556 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009327.D

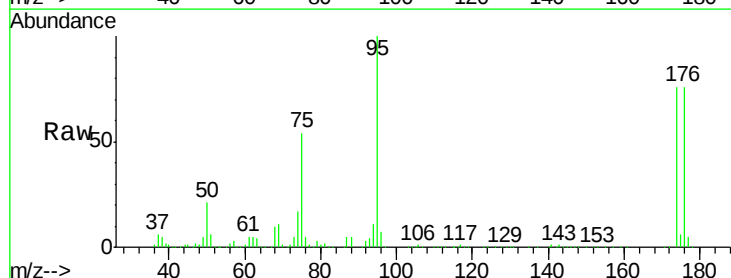
Acq: 03 May 2019 22:07

Tgt Ion: 75 Resp: 64117

Ion Ratio Lower Upper

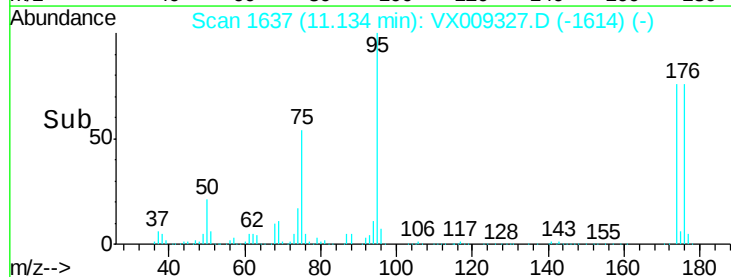
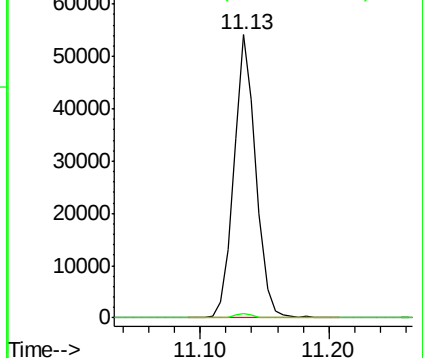
75 100

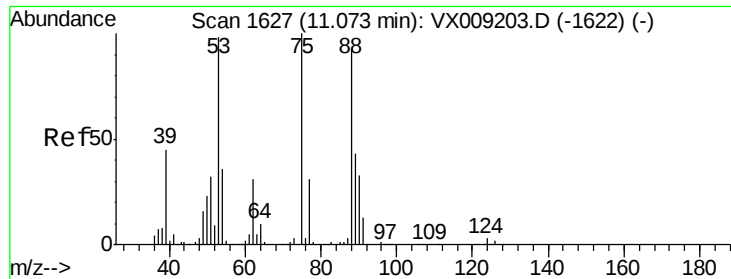
77 1.4 22.1 66.1#



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: 62.830 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009327.D

Acq: 03 May 2019 22:07

Instrument :

MSVOA_X

ClientSampleId :

SS052MW354-190502

Tot Ion: 75 Resp: 64117

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#

