

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009328.D
 Acq On : 03 May 2019 22:30
 Operator : JC/SP
 Sample : K2687-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052OW377-190502

Quant Time: May 03 23:22:59 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	197576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	320531	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	280489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	120537	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	132794	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
35) Dibromofluoromethane	5.50	113	98456	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	8.71	98	398810	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	11.13	95	133587	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	

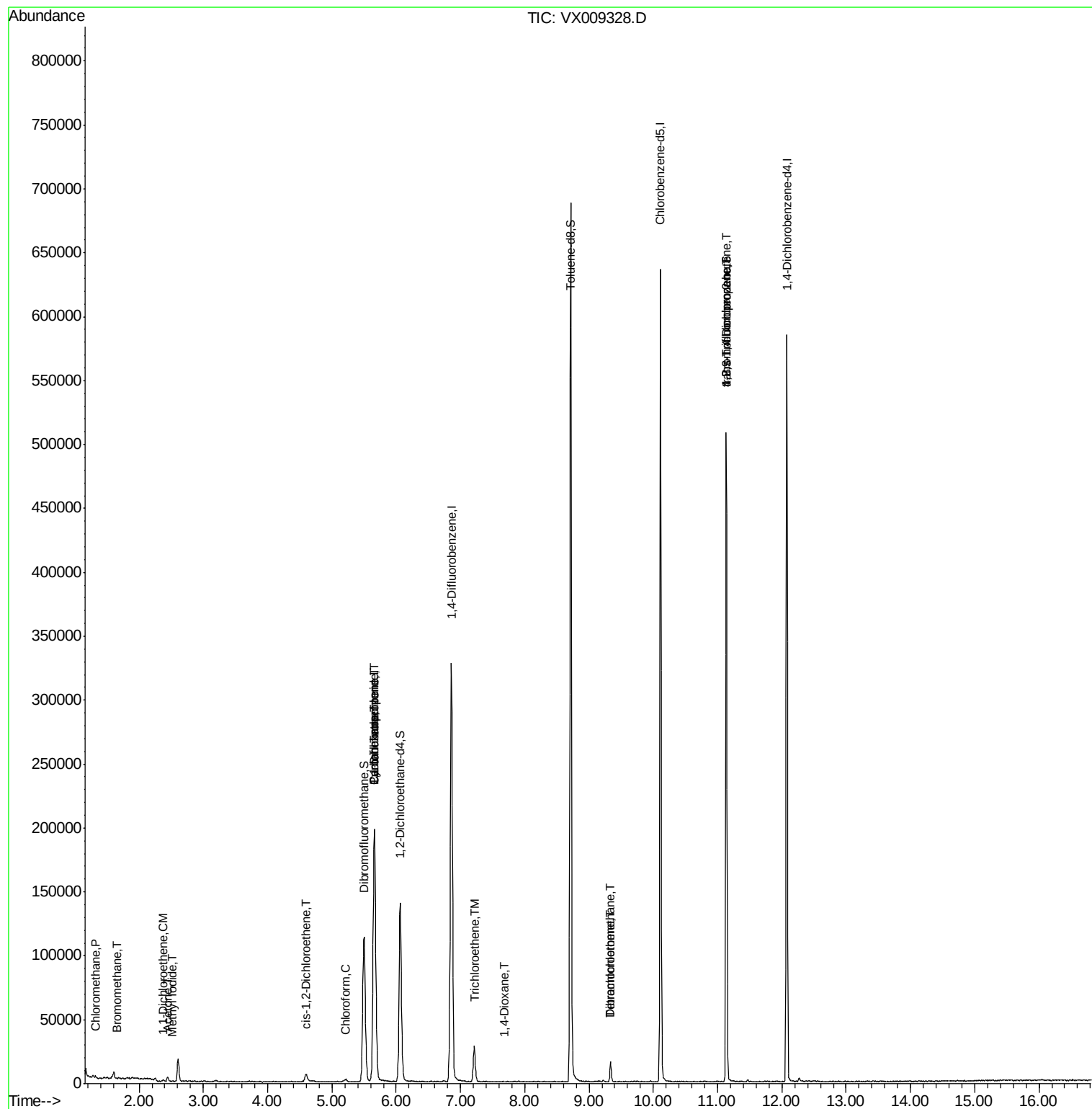
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1226	0.493	ug/l #	80
5) Bromomethane	1.66	94	309	0.212	ug/l	92
10) Methyl Iodide	2.53	142	21	4.603	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	456	0.246	ug/l #	62
16) Acetone	2.45	43	4390	3.031	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	3906	1.628	ug/l	87
28) Bromochloromethane	5.01	49	68	Below Cal	#	20
30) Chloroform	5.22	83	2065	0.533	ug/l	95
31) Cyclohexane	5.67	56	4493	1.127	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15023	5.043	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18319	6.769	ug/l #	16
44) Trichloroethene	7.21	130	10797	4.845	ug/l	89
49) 1,4-Dioxane	7.69	88	19	0.284	ug/l #	1
60) Dibromochloromethane	9.34	129	3103	1.390	ug/l #	11
64) Tetrachloroethene	9.34	164	3226	1.677	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	68155	24.376	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	68155	62.369	ug/l #	10

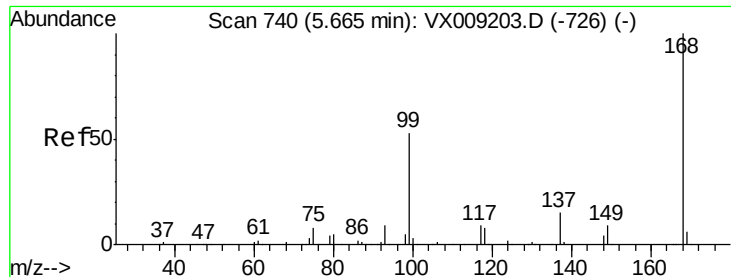
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

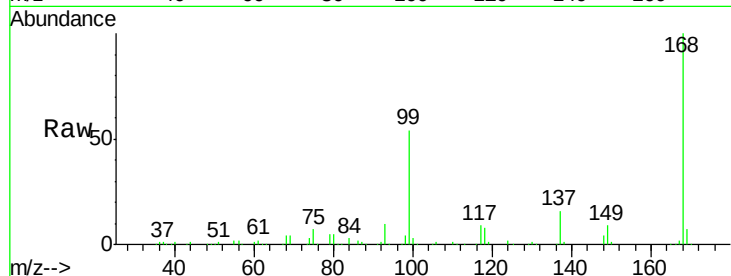
SS052OW377-190502

Tot Ion:168 Resp: 197576

Ion Ratio Lower Upper

168 100

99 53.4 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

80000

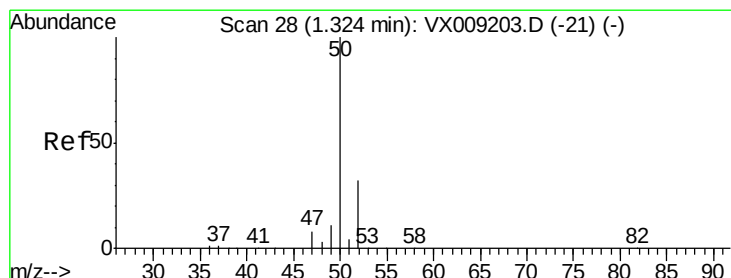
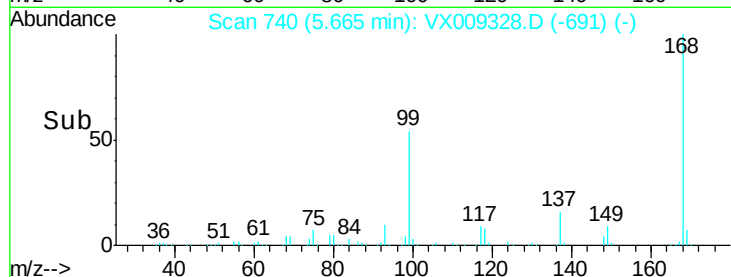
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.493 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009328.D

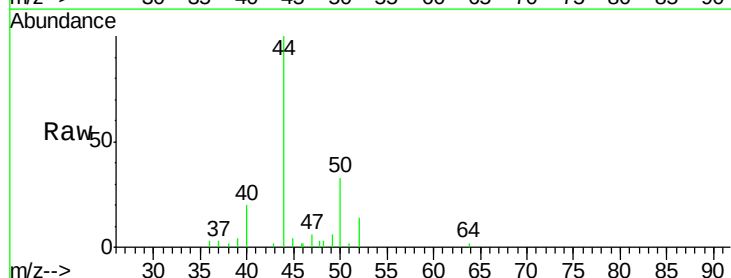
Acq: 03 May 2019 22:30

Tgt Ion: 50 Resp: 1226

Ion Ratio Lower Upper

50 100

52 43.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

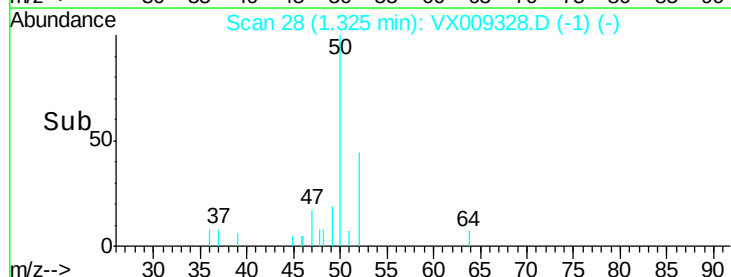
600

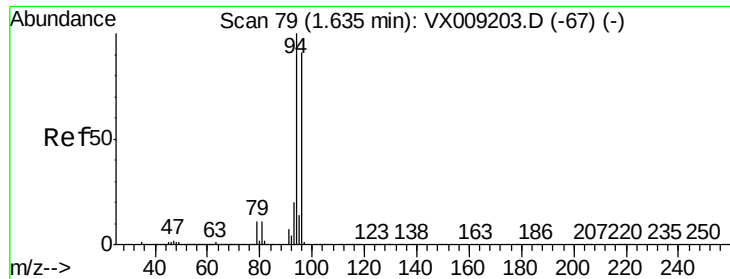
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.212 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

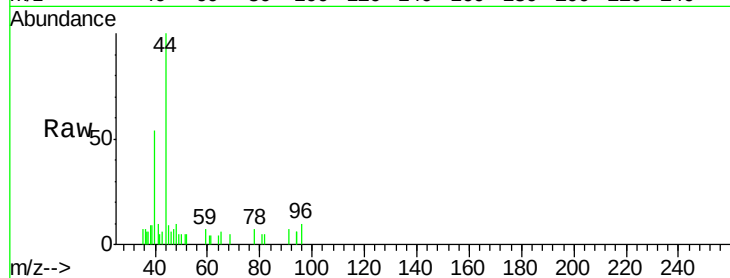
SS052OW377-190502

Tot Ion: 94 Resp: 309

Ion Ratio Lower Upper

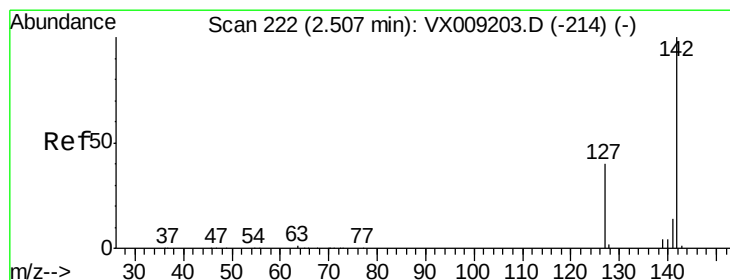
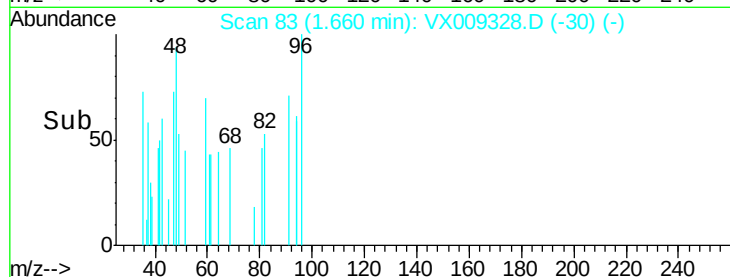
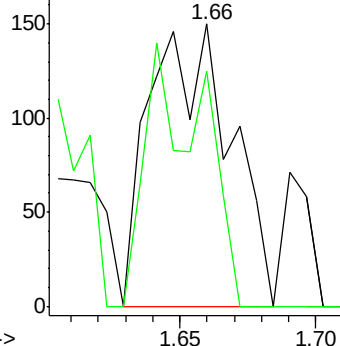
94 100

96 83.3 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.603 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

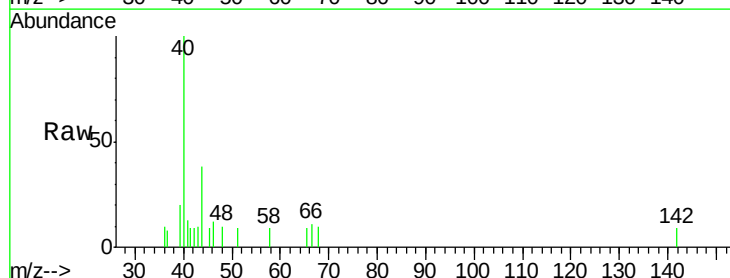
Tgt Ion: 142 Resp: 21

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

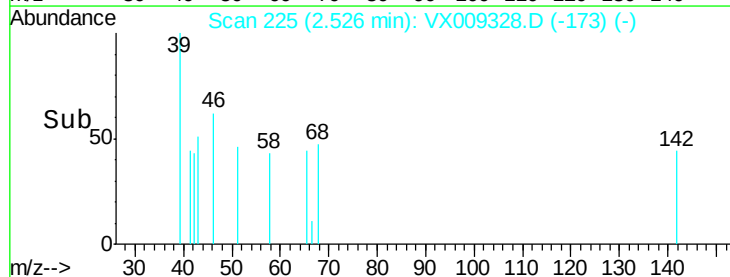
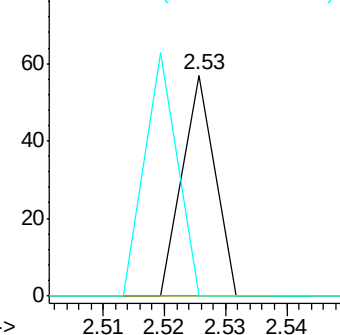
141 109.5 11.5 17.3#

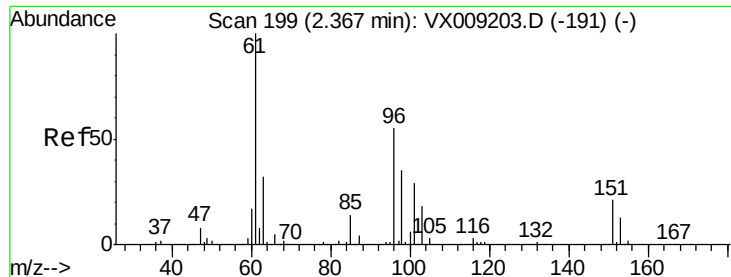


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.246 ug/l

RT: 2.37 min Scan# 199

Delta R.T. 0.00 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

SS052OW377-190502

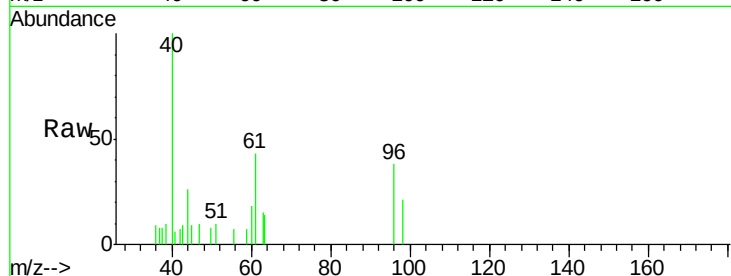
Tot Ion: 96 Resp: 456

Ion Ratio Lower Upper

96 100

61 112.4 144.3 216.5#

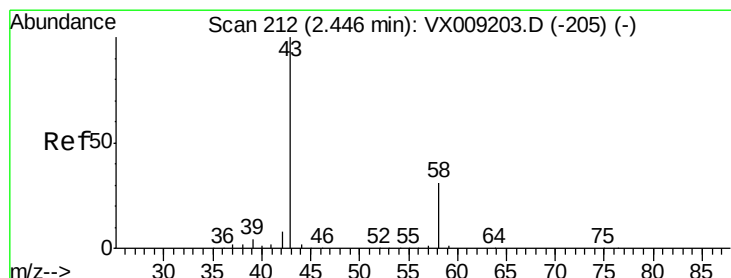
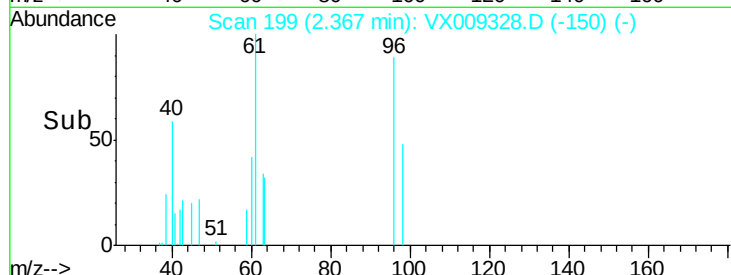
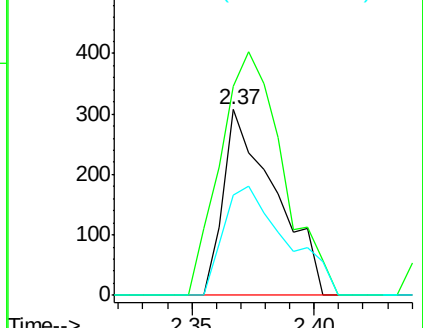
98 54.1 50.3 75.5



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



#16

Acetone

Concen: 3.031 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009328.D

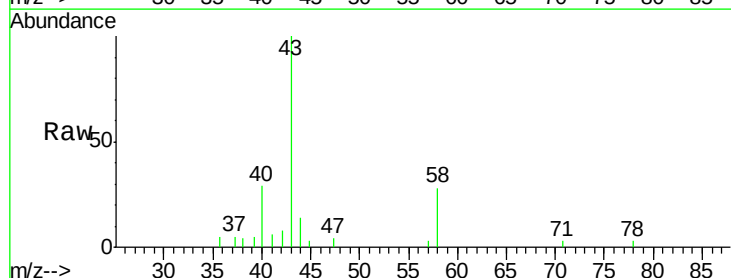
Acq: 03 May 2019 22:30

Tgt Ion: 43 Resp: 4390

Ion Ratio Lower Upper

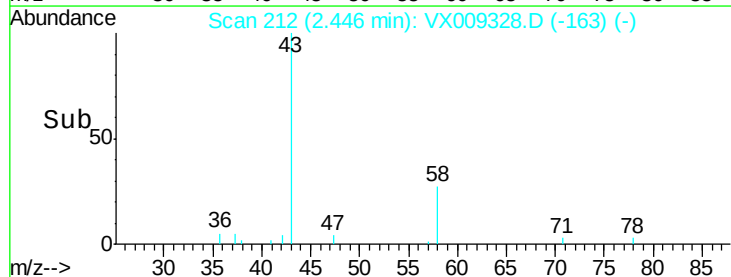
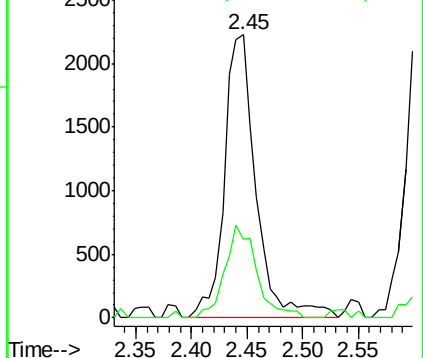
43 100

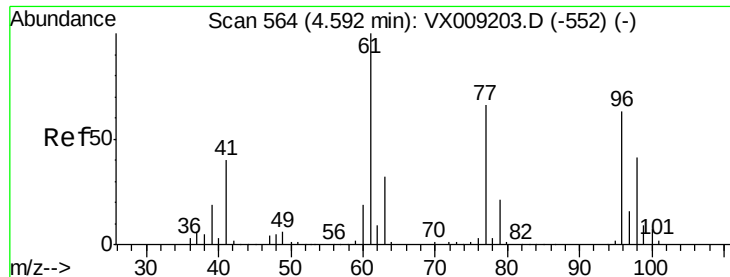
58 27.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



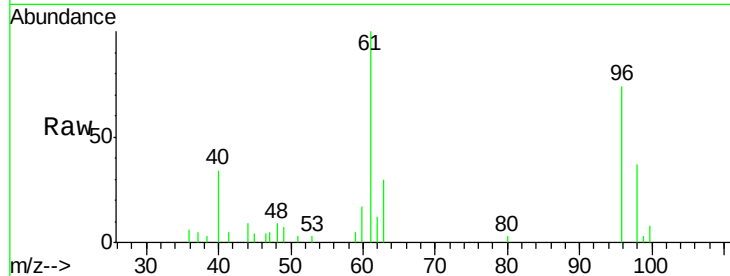


#27

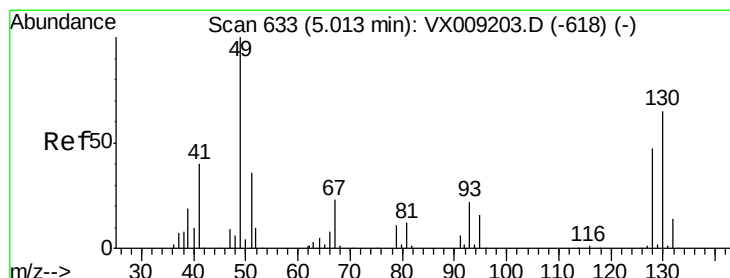
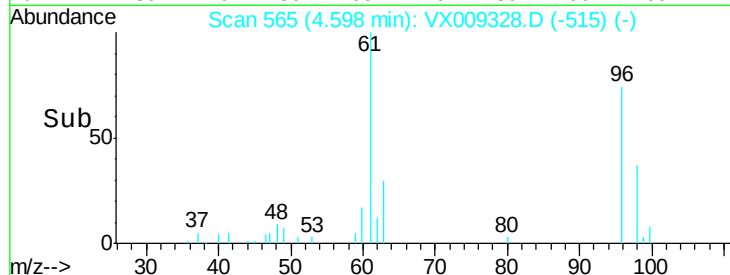
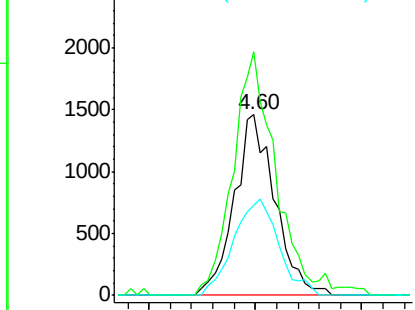
cis-1,2-Dichloroethene
Concen: 1.628 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX009328.D
Acq: 03 May 2019 22:30

Instrument :
MSVOA_X
ClientSampleId :
SS052OW377-190502

Tot Ion: 96 Resp: 3906
Ion Ratio Lower Upper
96 100
61 141.6 0.0 324.0
98 58.9 0.0 130.4



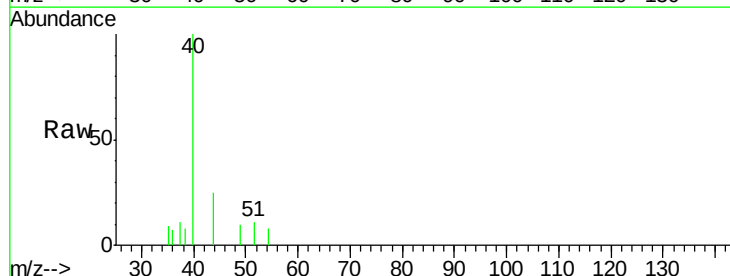
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



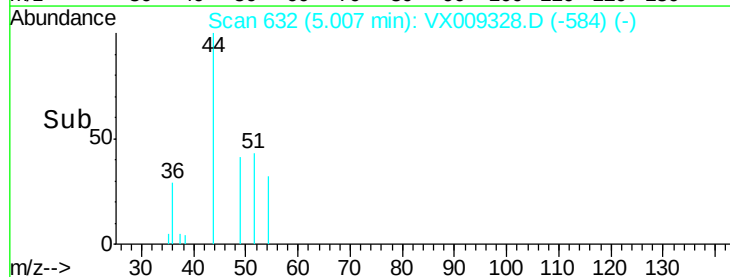
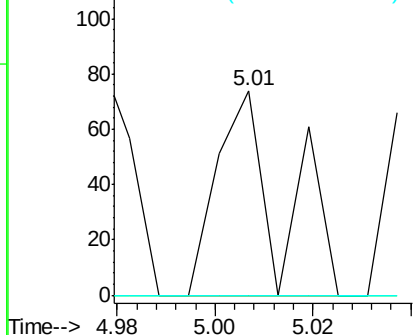
#28

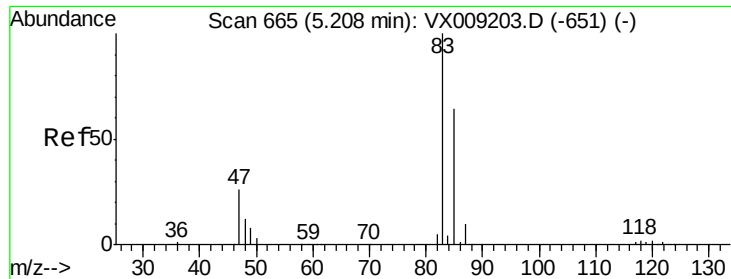
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 632
Delta R.T. -0.01 min
Lab File: VX009328.D
Acq: 03 May 2019 22:30

Tgt Ion: 49 Resp: 68
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

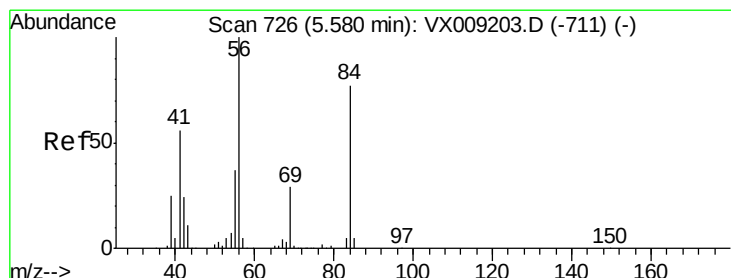
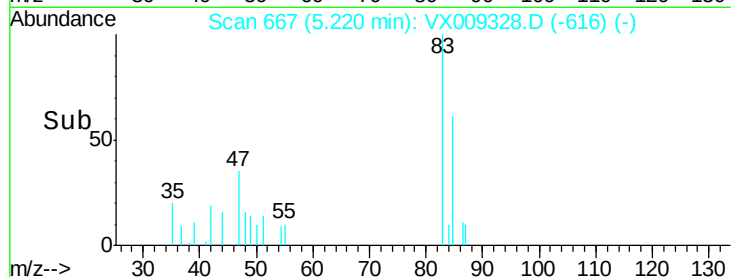
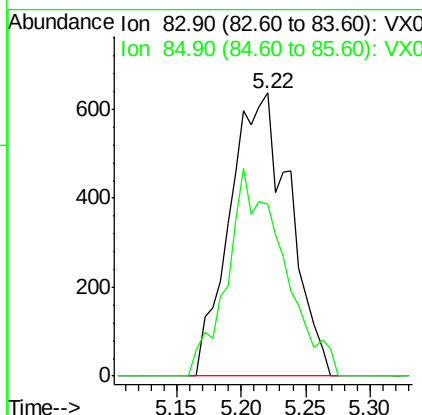
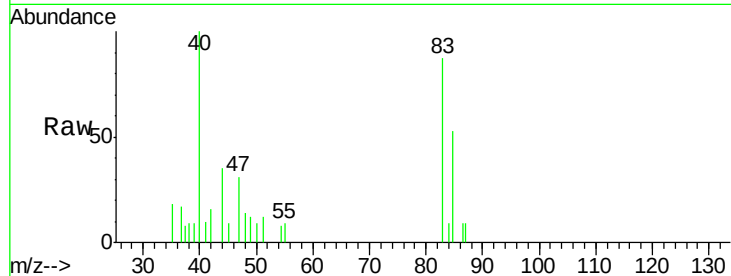




#30
Chloroform
Concen: 0.533 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX009328.D
Acq: 03 May 2019 22:30

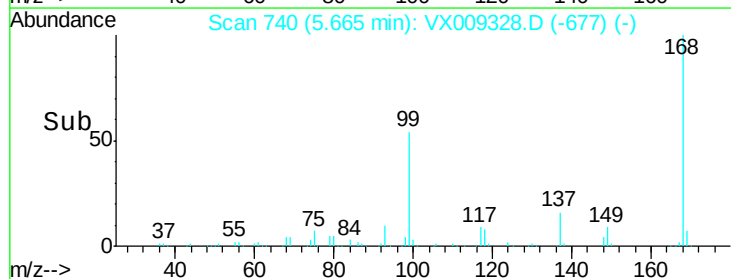
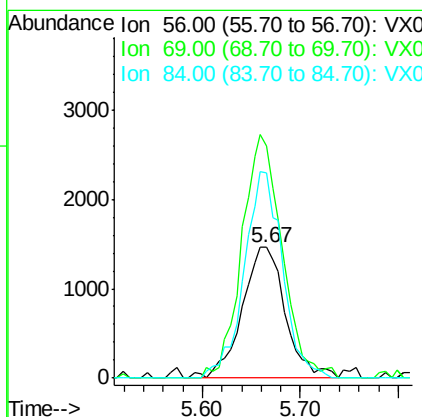
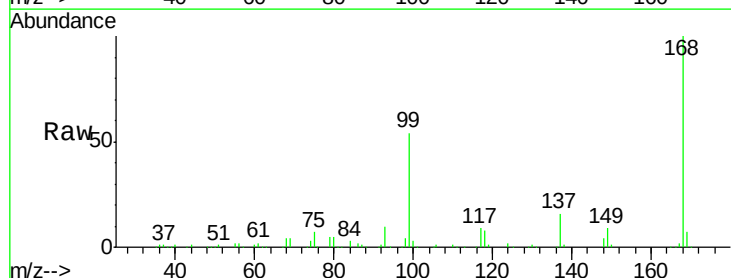
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MSVOA_X
ClientSampleId :
SS052OW377-190502

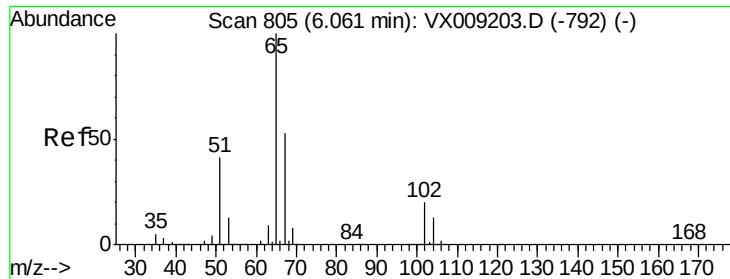
Tot Ion: 83 Resp: 2065
Ion Ratio Lower Upper
83 100
85 60.8 51.5 77.3



#31
Cyclohexane
Concen: 1.127 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009328.D
Acq: 03 May 2019 22:30

Tgt Ion: 56 Resp: 4493
Ion Ratio Lower Upper
56 100
69 177.2 23.4 35.0#
84 156.9 61.9 92.9#

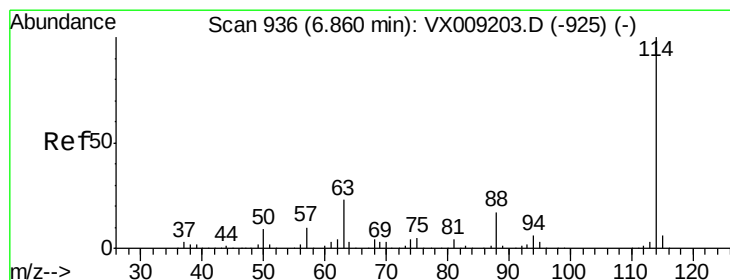
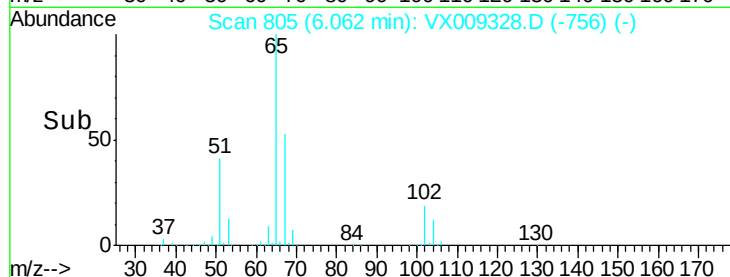
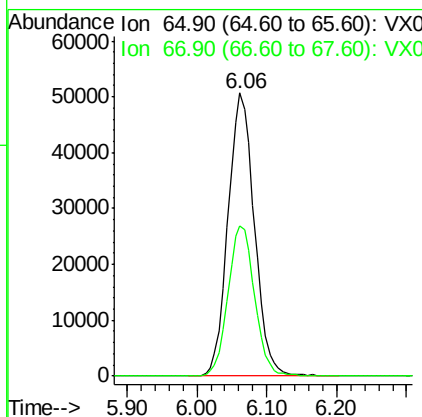
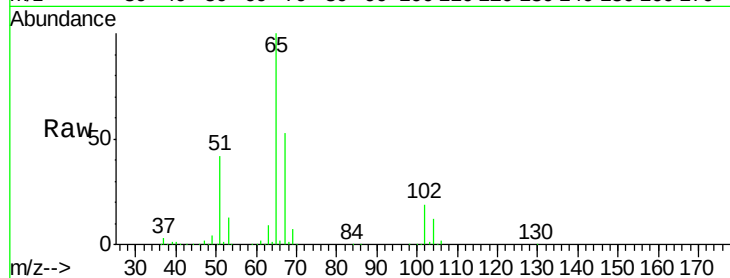




#33
 1,2-Dichloroethane-d4
 Concen: 49.235 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009328.D
 Acq: 03 May 2019 22:30

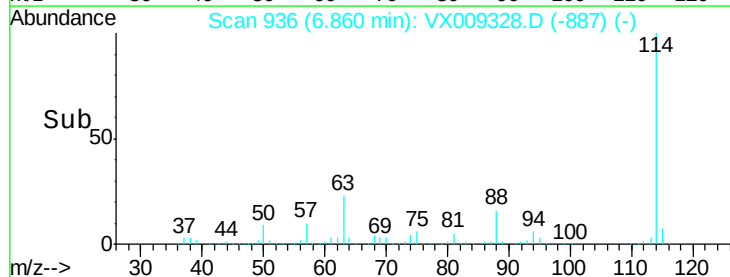
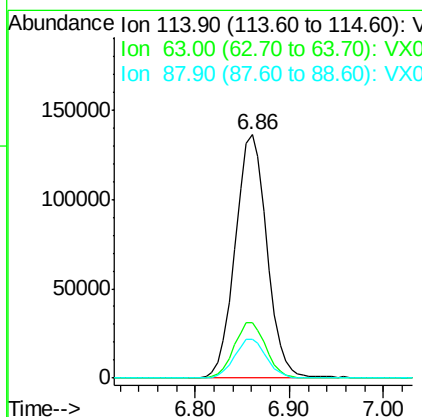
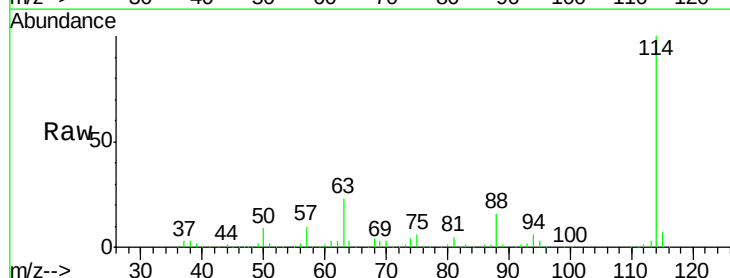
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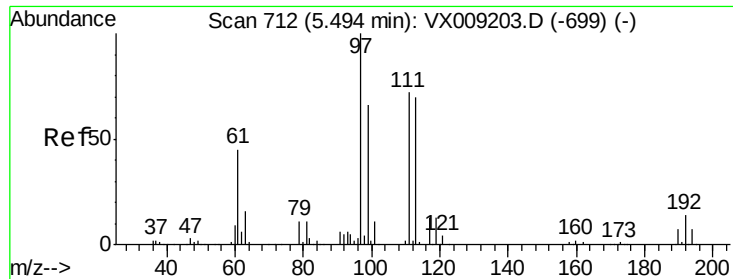
Tot Ion: 65 Resp: 132794
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009328.D
 Acq: 03 May 2019 22:30

Tgt Ion: 114 Resp: 320531
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.6
 88 16.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.862 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

SS052OW377-190502

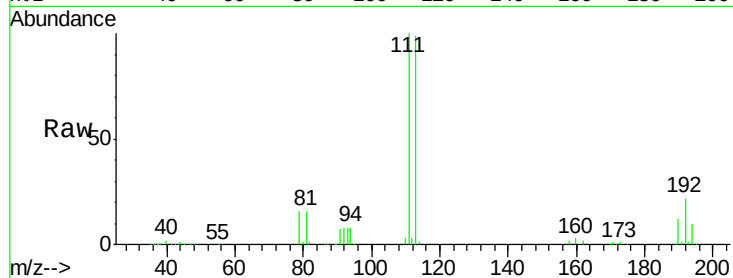
Tot Ion:113 Resp: 98456

Ion Ratio Lower Upper

113 100

111 101.2 82.8 124.2

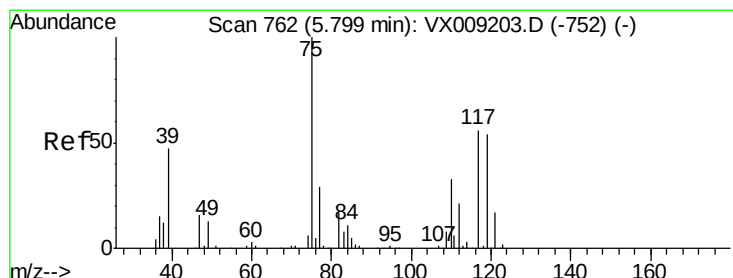
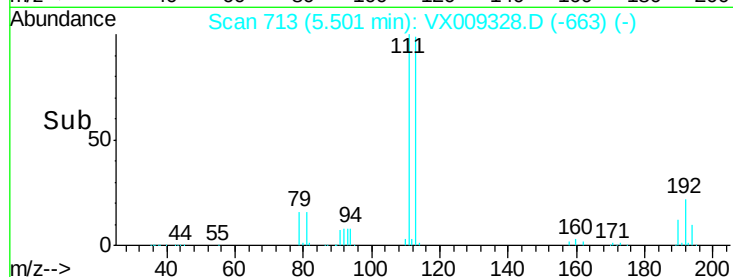
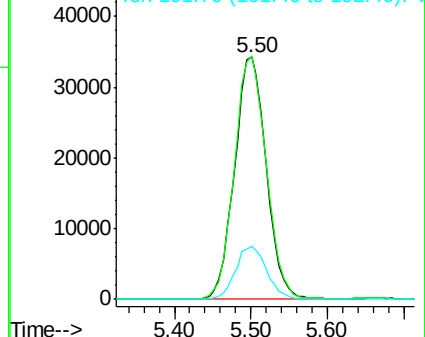
192 21.6 17.0 25.6



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: 5.043 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

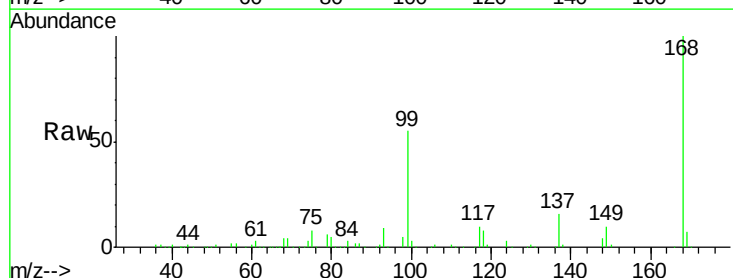
Tgt Ion: 75 Resp: 15023

Ion Ratio Lower Upper

75 100

110 8.2 16.9 50.6#

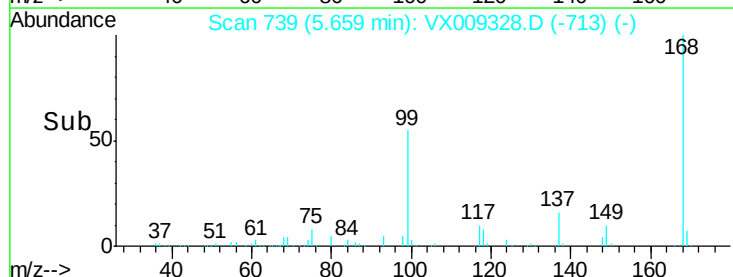
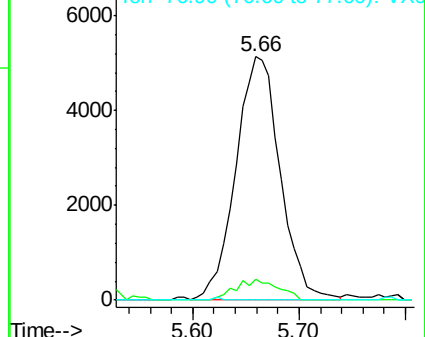
77 0.0 24.8 37.2#

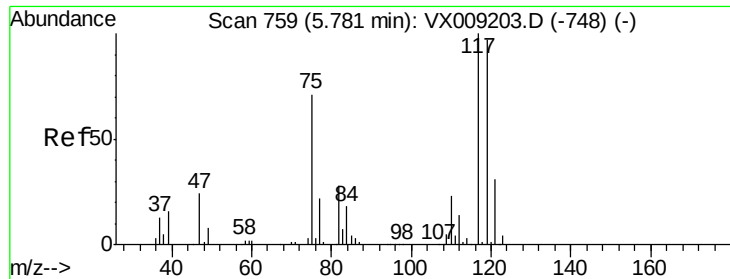


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.769 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

SS052OW377-190502

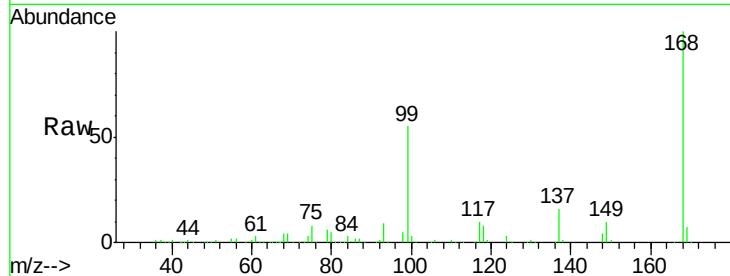
Tot Ion:117 Resp: 18319

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

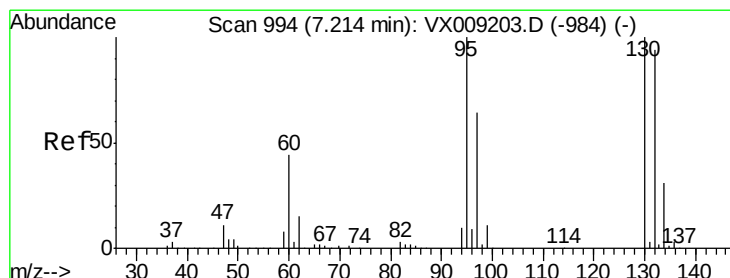
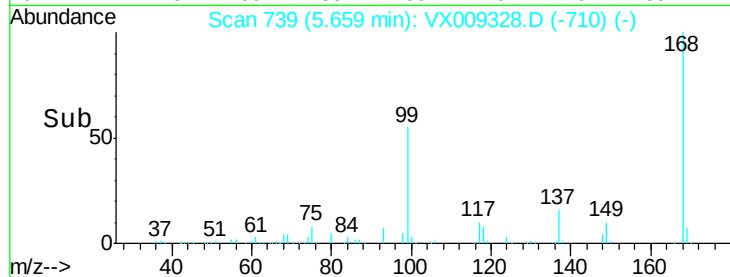
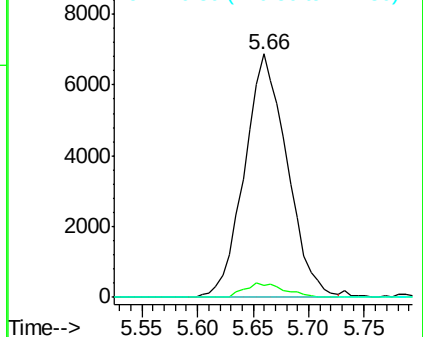
121 0.0 24.7 37.1#



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: 4.845 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009328.D

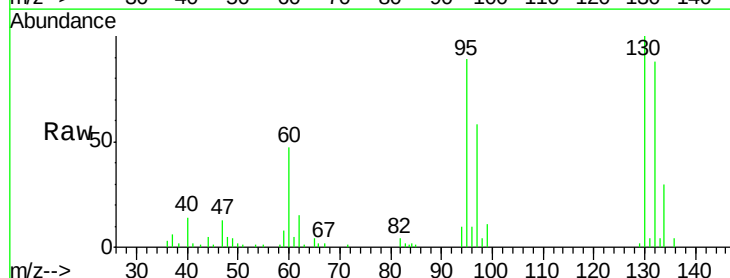
Acq: 03 May 2019 22:30

Tgt Ion:130 Resp: 10797

Ion Ratio Lower Upper

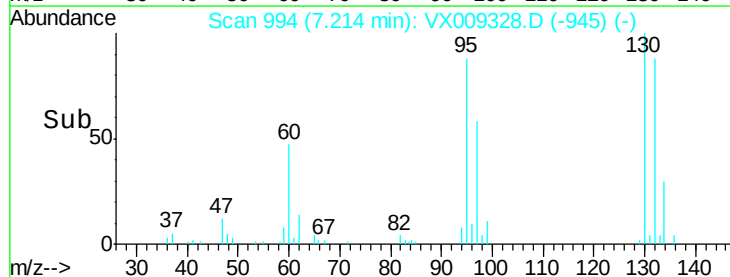
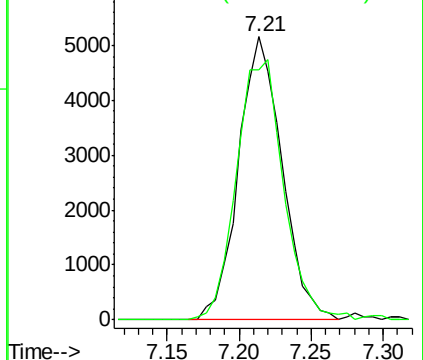
130 100

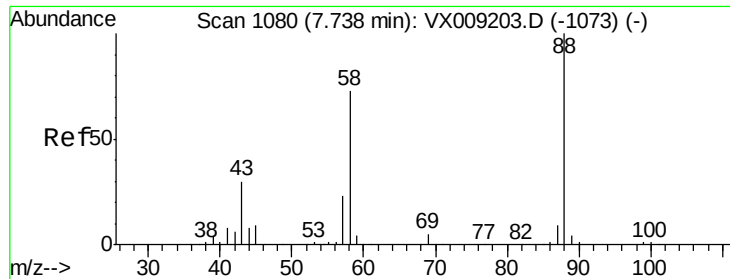
95 88.6 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

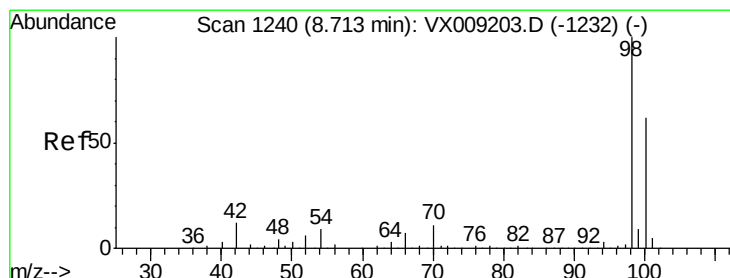
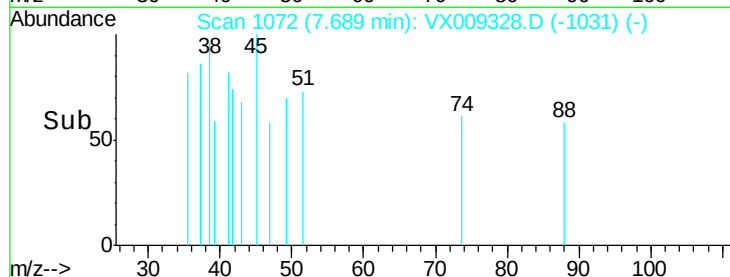
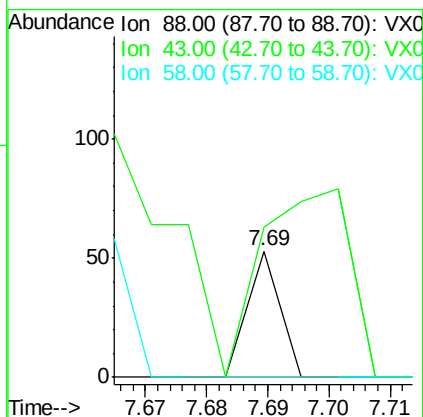
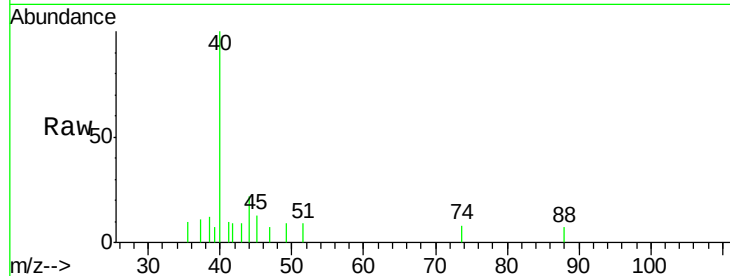




#49
 1,4-Dioxane
 Concen: 0.284 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.05 min
 Lab File: VX009328.D
 Acq: 03 May 2019 22:30

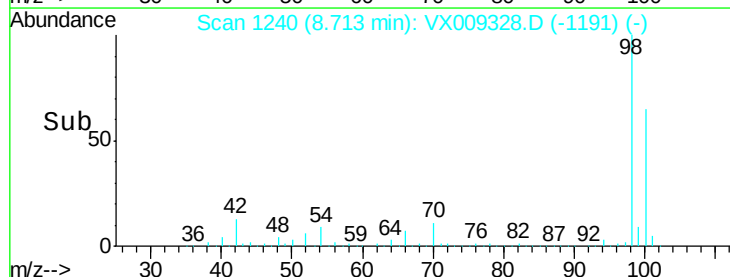
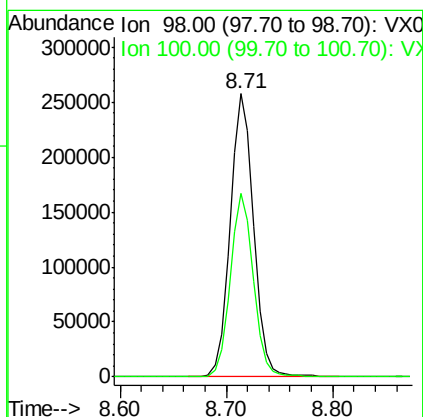
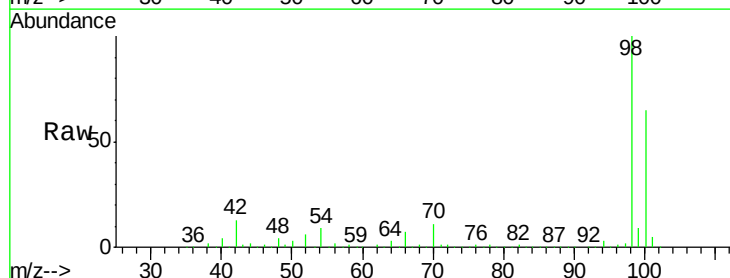
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052OW377-190502

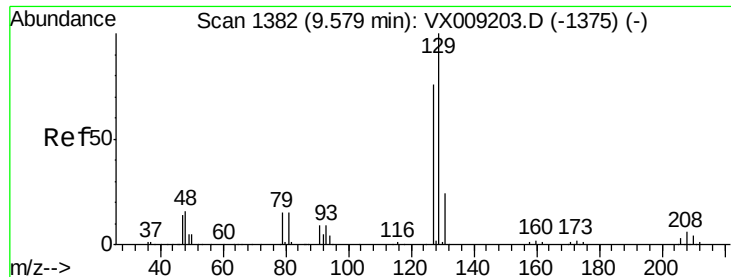
Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 415.8 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 49.024 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009328.D
 Acq: 03 May 2019 22:30

Tgt Ion: 98 Resp: 398810
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.2 76.8





#60

Dibromochloromethane

Concen: 1.390 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

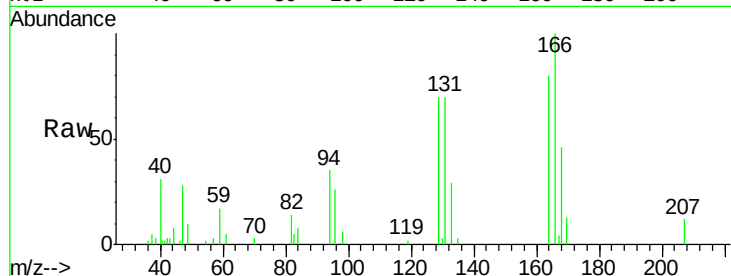
SS052OW377-190502

Tot Ion:129 Resp: 3103

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

9.34

2000

1500

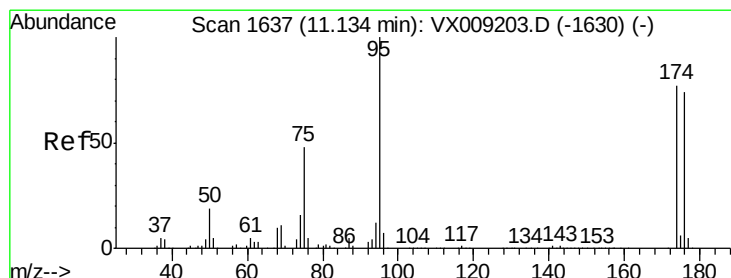
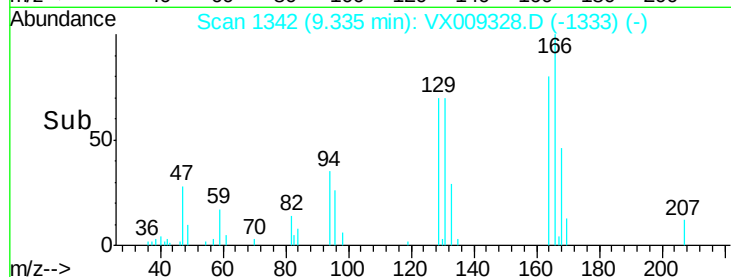
1000

500

0

9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 45.193 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

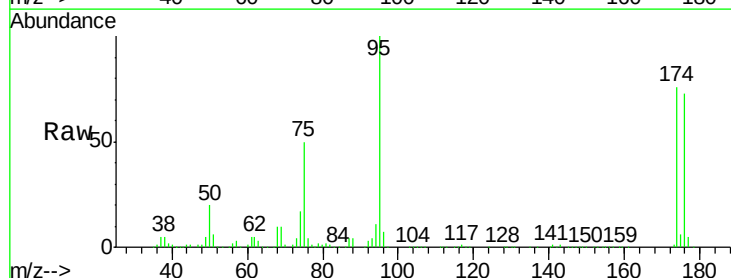
Tgt Ion: 95 Resp: 133587

Ion Ratio Lower Upper

95 100

174 81.2 0.0 161.6

176 78.5 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

11.13

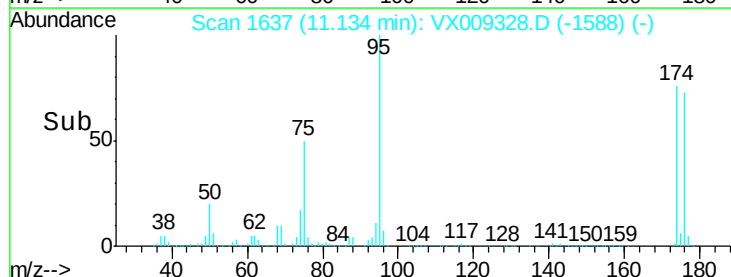
100000

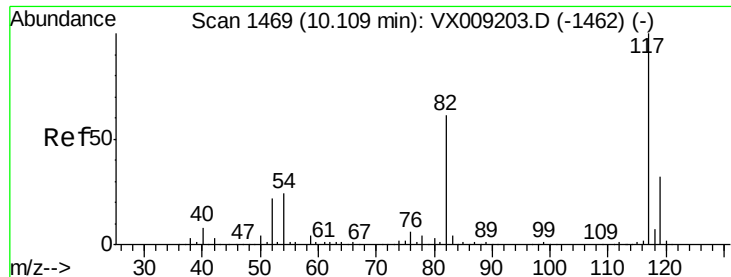
50000

0

11.10 11.20

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

SS052OW377-190502

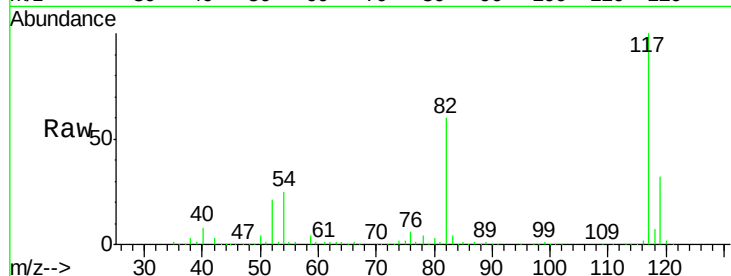
Tot Ion:117 Resp: 280489

Ion Ratio Lower Upper

117 100

82 60.3 48.8 73.2

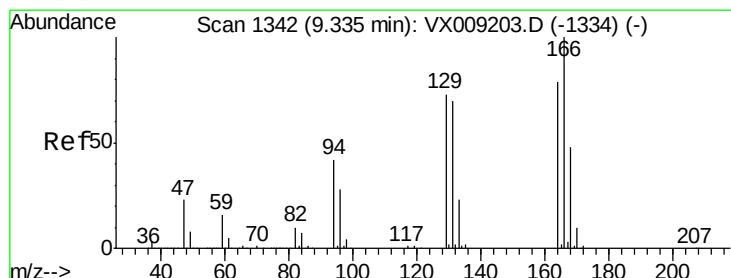
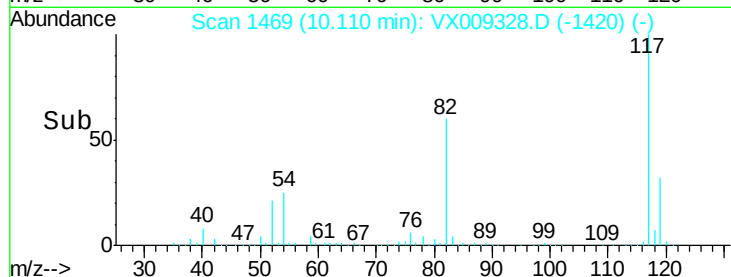
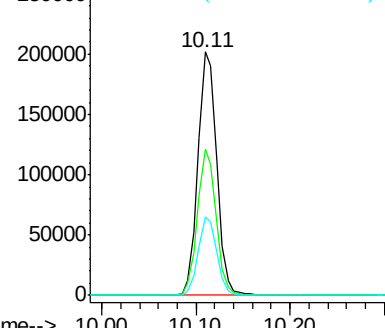
119 32.0 25.8 38.6



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: 1.677 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Tgt Ion:164 Resp: 3226

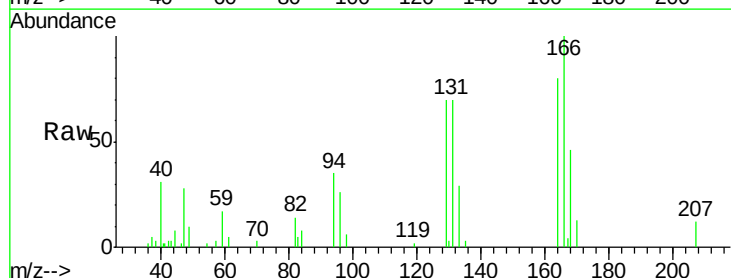
Ion Ratio Lower Upper

164 100

166 125.2 101.2 151.8

129 87.1 74.3 111.5

131 88.1 71.0 106.6

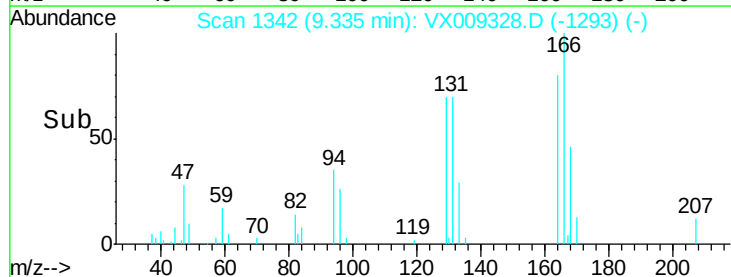
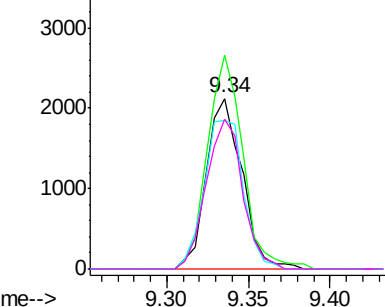


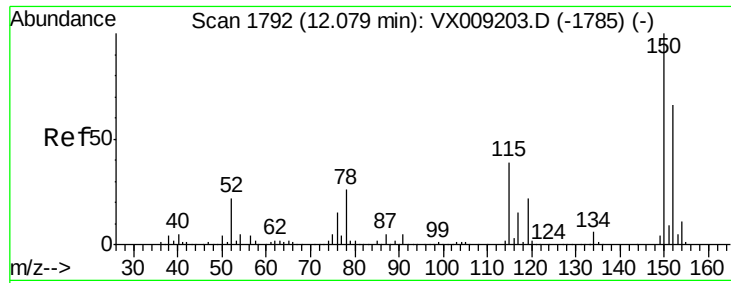
Abundance Ion 163.80 (163.50 to 164.50): V

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: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

SS052OW377-190502

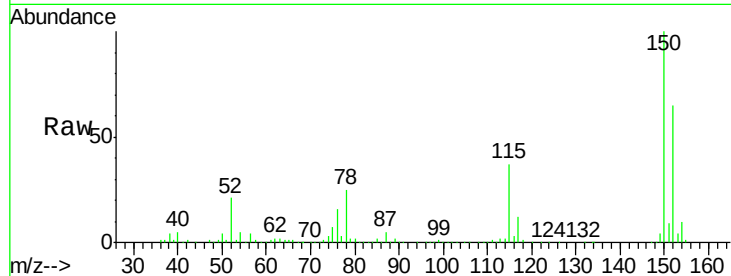
Tot Ion:152 Resp: 120537

Ion Ratio Lower Upper

152 100

115 58.7 41.2 123.6

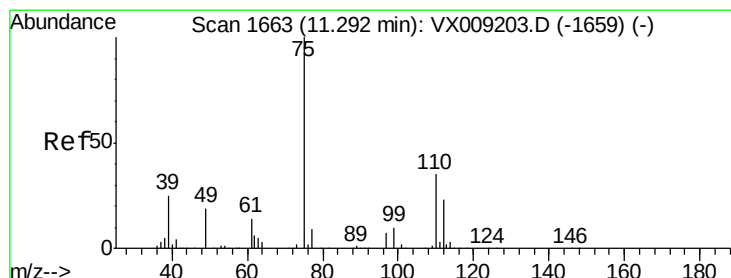
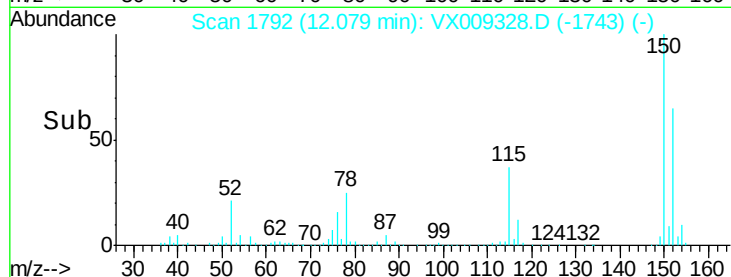
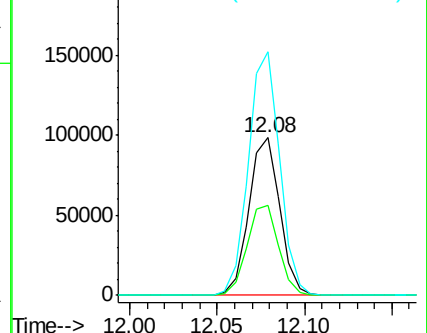
150 156.4 0.0 346.4



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: 24.376 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009328.D

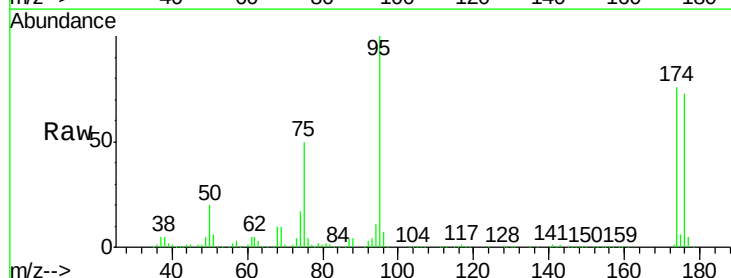
Acq: 03 May 2019 22:30

Tgt Ion: 75 Resp: 68155

Ion Ratio Lower Upper

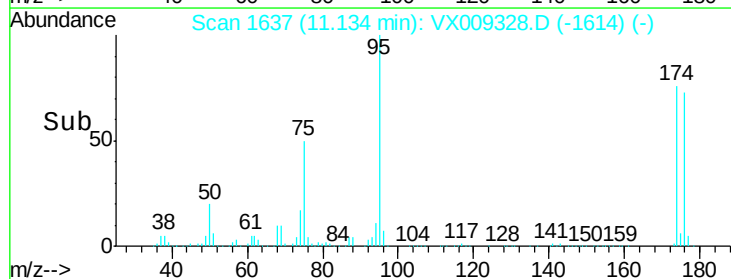
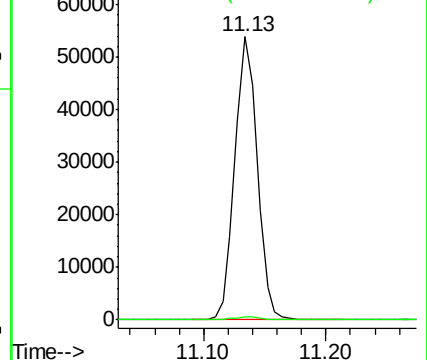
75 100

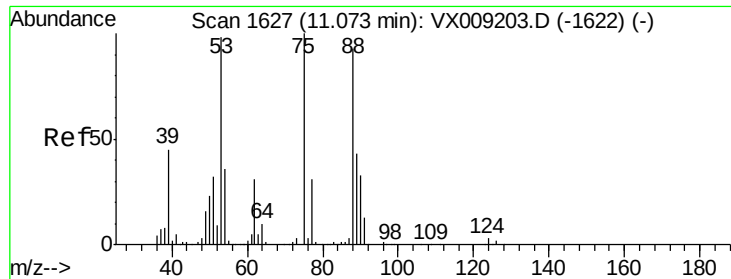
77 1.2 22.1 66.1#



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: 62.369 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009328.D

Acq: 03 May 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

SS052OW377-190502

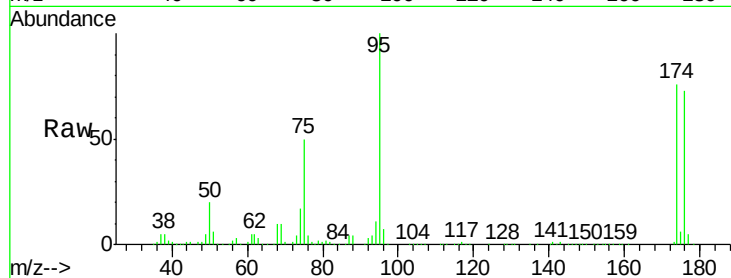
Tot Ion: 75 Resp: 68155

Ion Ratio Lower Upper

75 100

53 0.2 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

