

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041319\
 Data File : VX008939.D
 Acq On : 13 Apr 2019 18:05
 Operator : JC/SP
 Sample : K2385-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:15:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	196437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	318360	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	271822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113142	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	129801	45.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.60%	
35) Dibromofluoromethane	5.50	113	94392	46.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.74%	
50) Toluene-d8	8.71	98	388157	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.13	95	127559	44.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.76%	

Target Compounds

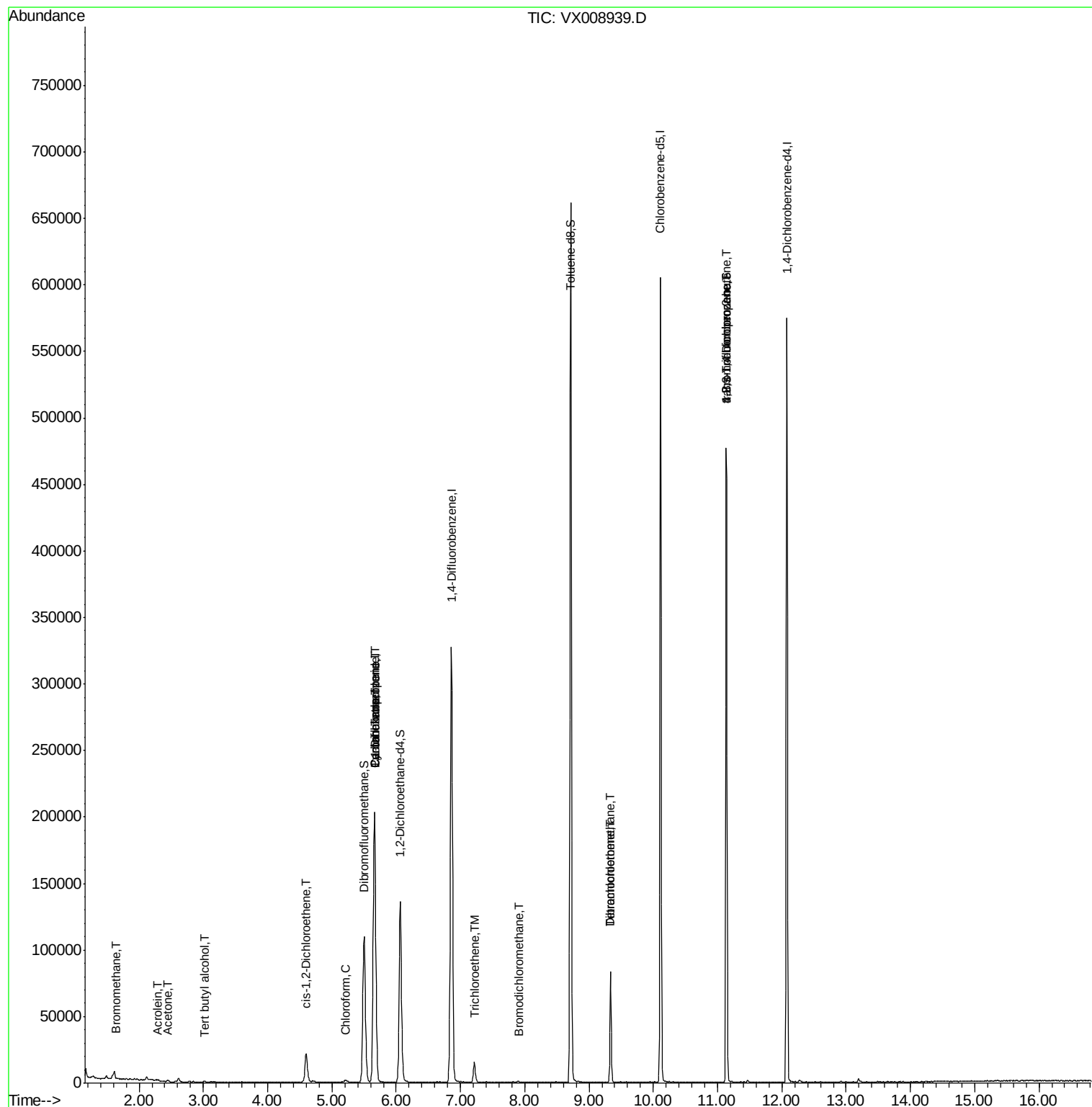
					Qvalue	
3) Chloromethane	1.32	50	205	Below Cal		98
5) Bromomethane	1.65	94	160	1.988 ug/l #		58
6) Chloroethane	1.71	64	49	Below Cal #		43
11) Tert butyl alcohol	3.03	59	433	0.646 ug/l #		72
13) Acrolein	2.28	56	166	0.499 ug/l #		13
16) Acetone	2.45	43	1640	0.994 ug/l		91
17) Carbon Disulfide	2.57	76	465	Below Cal #		75
27) cis-1,2-Dichloroethene	4.60	96	13452	4.763 ug/l		87
28) Bromochloromethane	5.02	49	24	Below Cal #		22
30) Chloroform	5.21	83	1695	0.383 ug/l		88
31) Cyclohexane	5.66	56	4221	0.853 ug/l #		1
36) 1,1-Dichloropropene	5.67	75	15264	4.386 ug/l #		51
38) Carbon Tetrachloride	5.67	117	18853	6.546 ug/l #		17
44) Trichloroethene	7.21	130	5738	2.376 ug/l		88
47) Bromodichloromethane	7.90	83	677	0.209 ug/l #		83
60) Dibromochloromethane	9.34	129	14911	6.450 ug/l #		11
64) Tetrachloroethene	9.34	164	16160	8.024 ug/l		99
76) 1,2,3-Trichloropropane	11.13	75	64698	20.816 ug/l #		33
81) trans-1,4-Dichloro-2-buten	11.13	75	64698	57.380 ug/l #		9

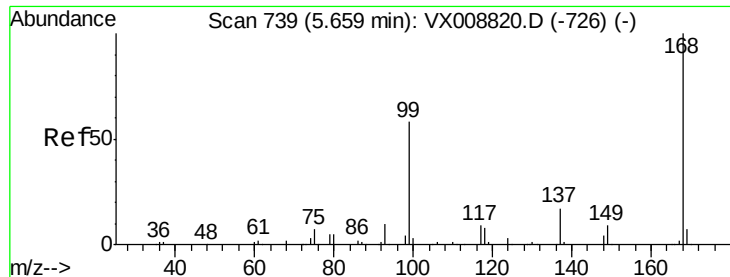
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

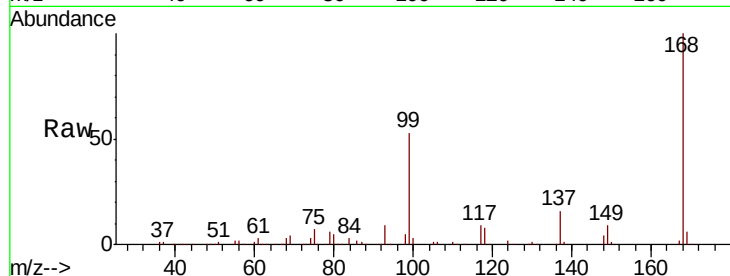
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 196437

Ion Ratio Lower Upper

168 100

99 53.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

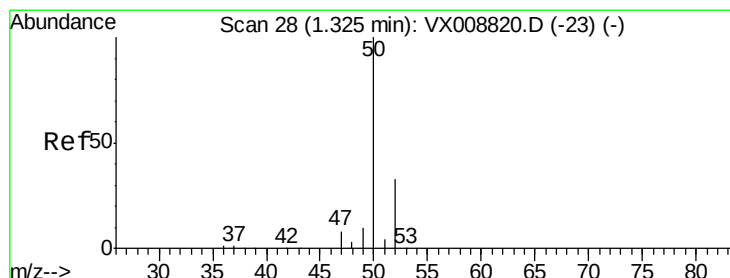
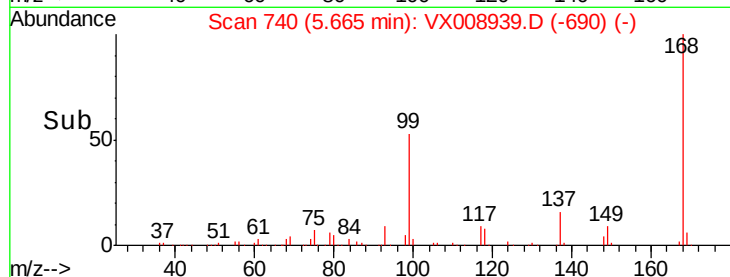
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008939.D

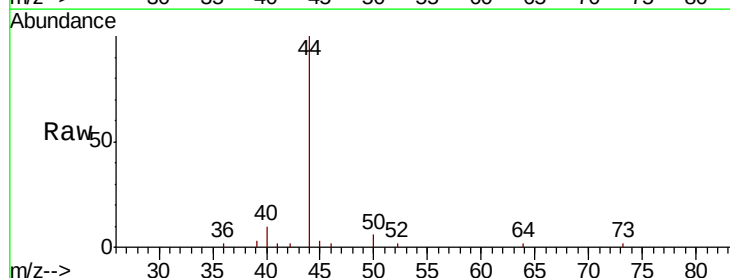
Acq: 13 Apr 2019 18:05

Tgt Ion: 50 Resp: 205

Ion Ratio Lower Upper

50 100

52 33.3 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

200

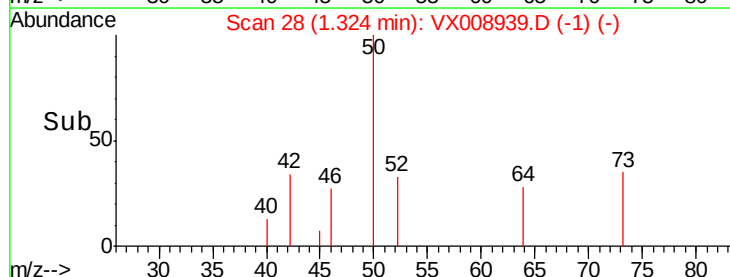
150

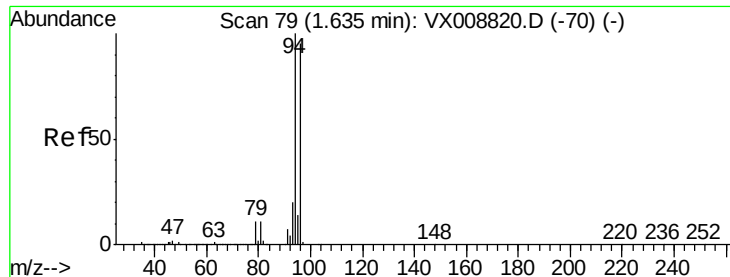
100

50

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 1.988 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

Instrument :

MSVOA_X

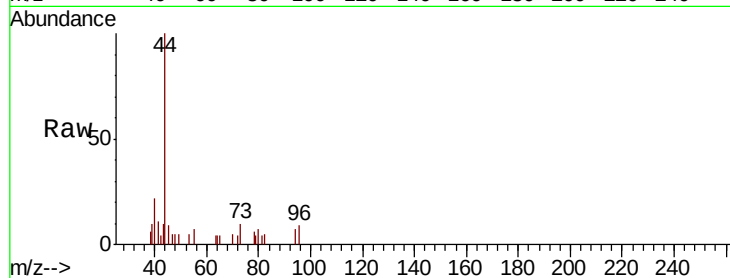
ClientSampled :

Tot Ion: 94 Resp: 160

Ion Ratio Lower Upper

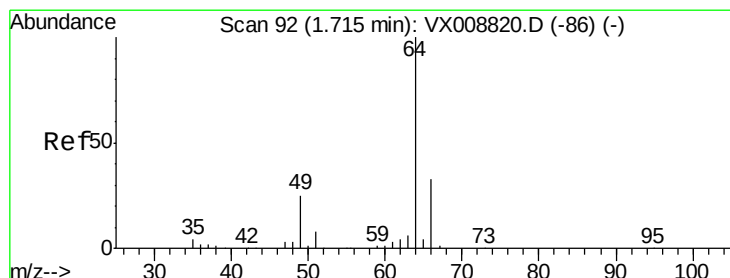
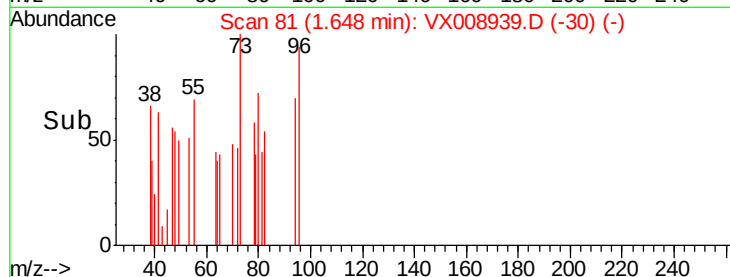
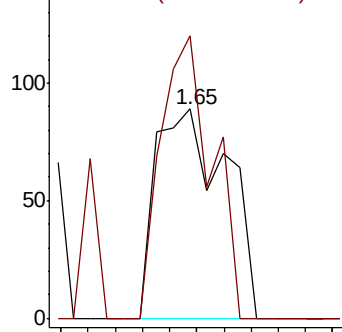
94 100

96 134.8 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX008939.D

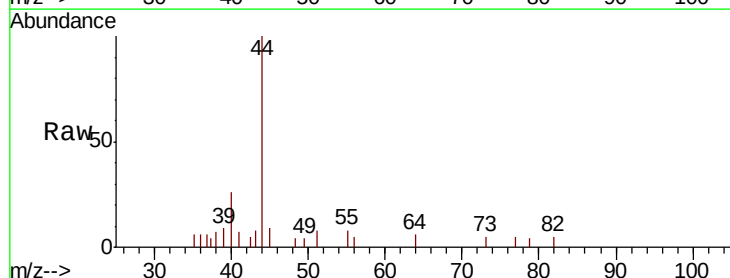
Acq: 13 Apr 2019 18:05

Tgt Ion: 64 Resp: 49

Ion Ratio Lower Upper

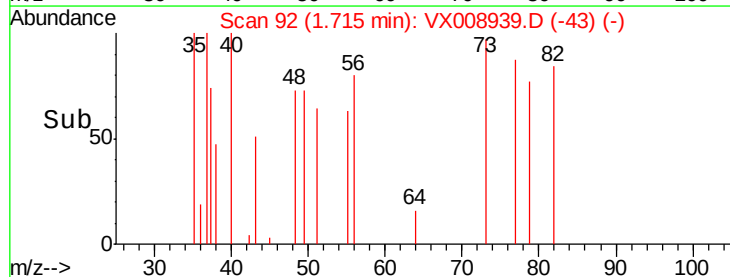
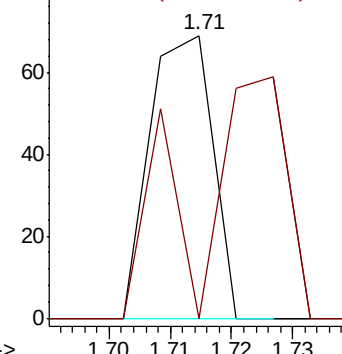
64 100

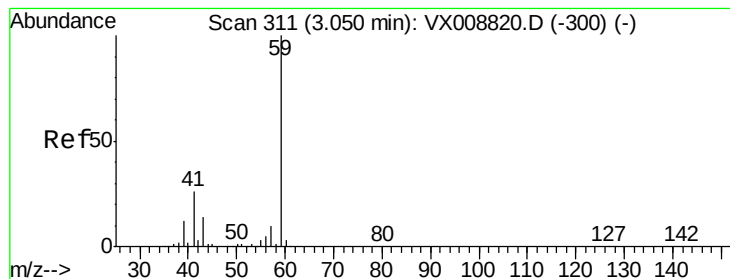
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



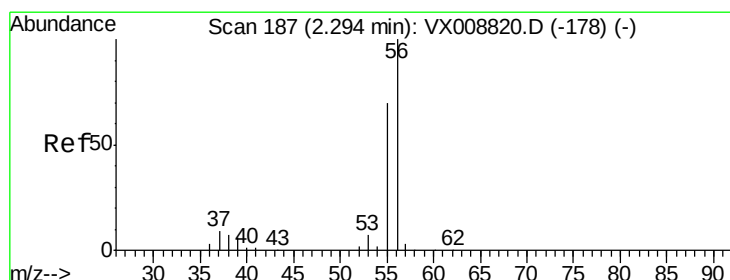
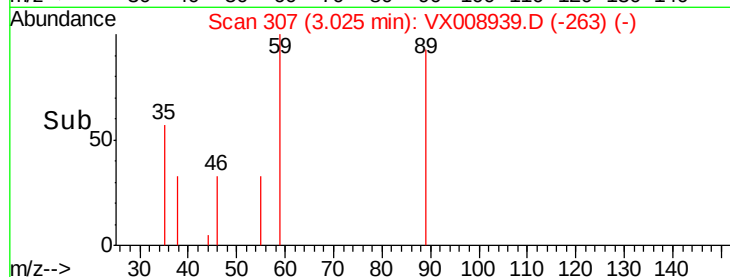
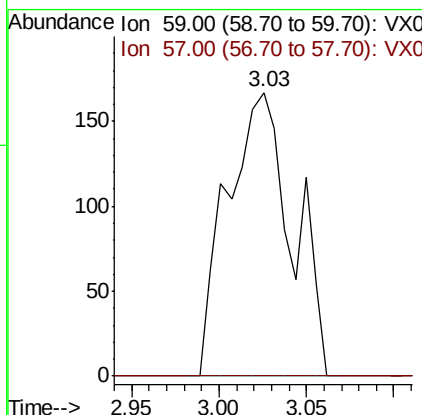
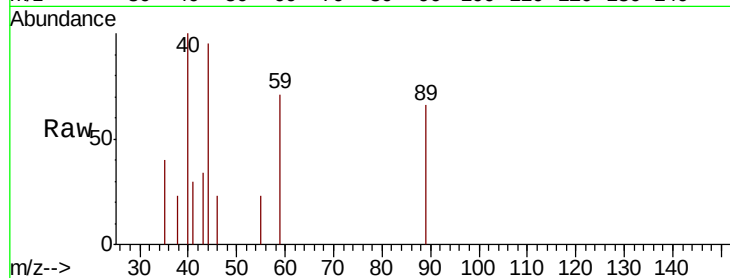


#11

Tert butyl alcohol
 Concen: 0.646 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.03 min
 Lab File: VX008939.D
 Acq: 13 Apr 2019 18:05

Instrument :
 MSVOA_X
 ClientSampleId :

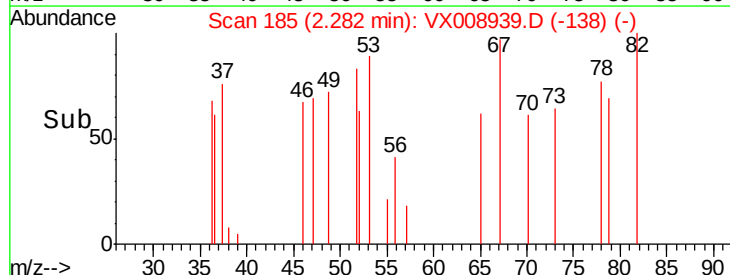
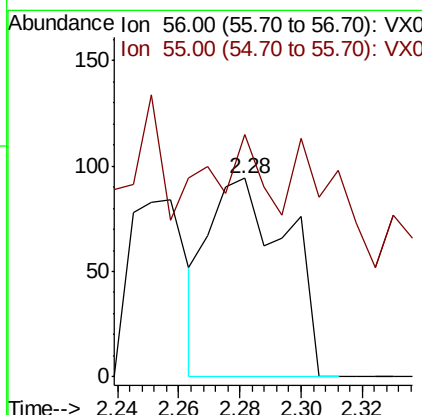
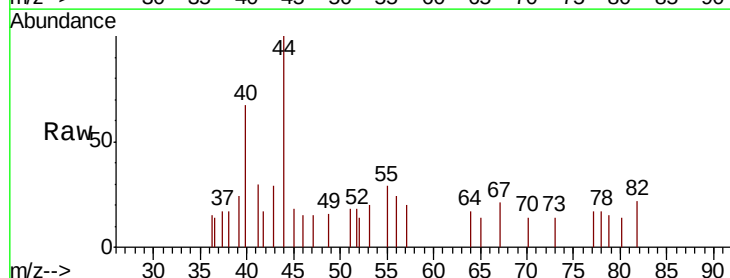
Tot Ion: 59 Resp: 433
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

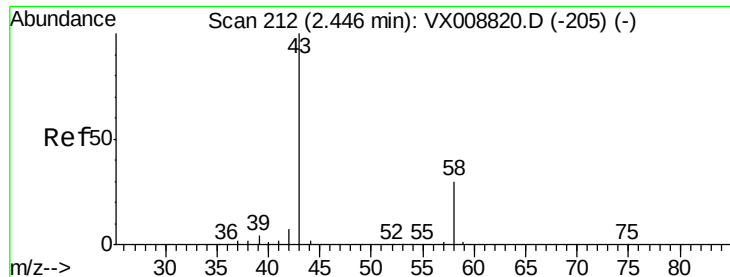


#13

Acrolein
 Concen: 0.499 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX008939.D
 Acq: 13 Apr 2019 18:05

Tgt Ion: 56 Resp: 166
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.0 87.0#





#16

Acetone

Concen: 0.994 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

Instrument :

MSVOA_X

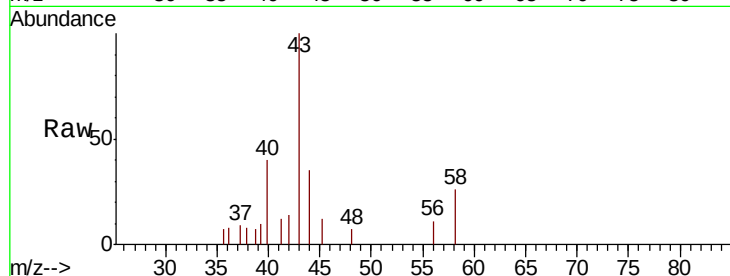
ClientSampled :

Tot Ion: 43 Resp: 1640

Ion Ratio Lower Upper

43 100

58 26.1 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

800

600

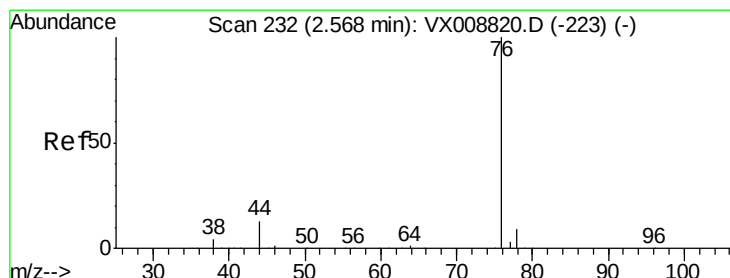
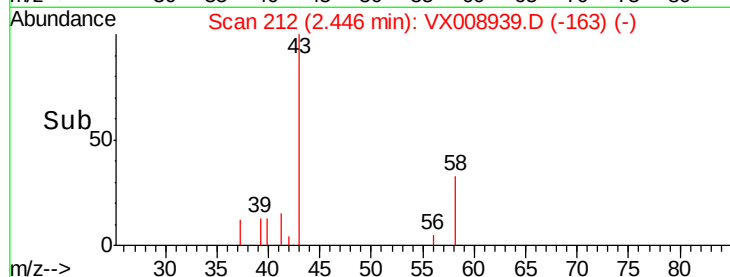
400

200

0

Time-->

2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008939.D

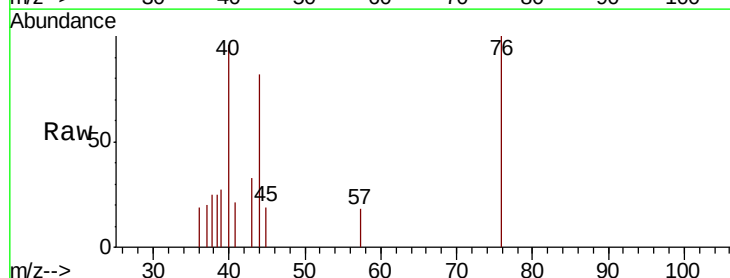
Acq: 13 Apr 2019 18:05

Tgt Ion: 76 Resp: 465

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

300

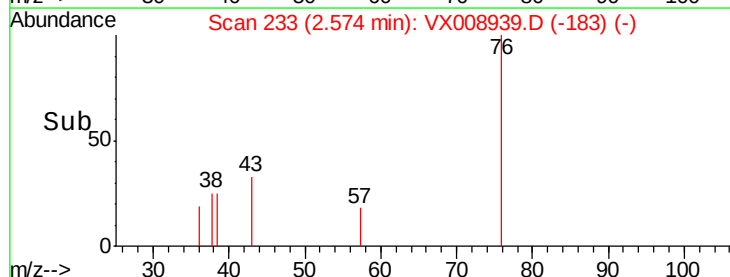
200

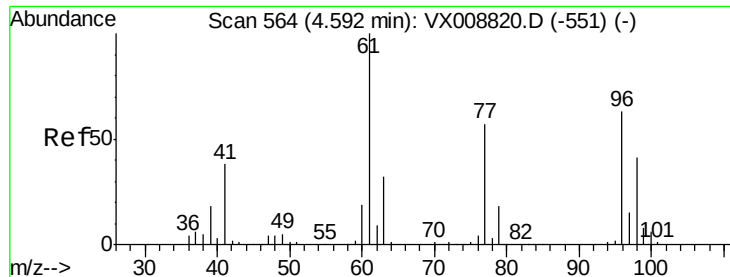
100

0

Time-->

2.55 2.60



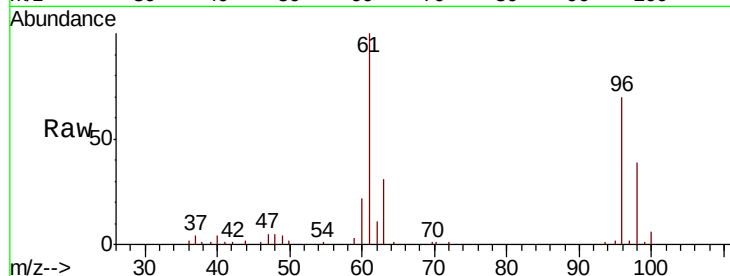


#27

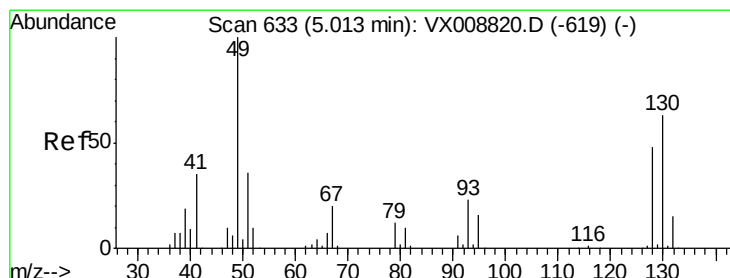
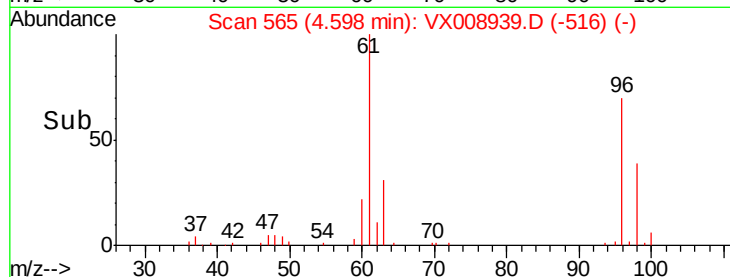
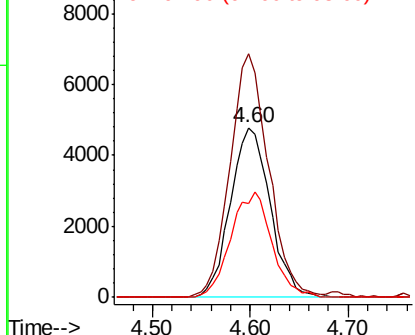
cis-1,2-Dichloroethene
Concen: 4.763 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 13452
Ion Ratio Lower Upper
96 100
61 140.1 0.0 327.6
98 63.9 0.0 128.6



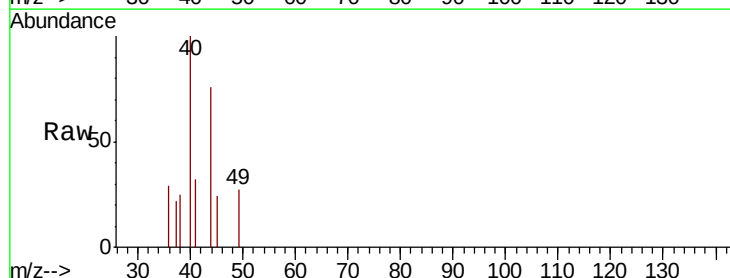
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



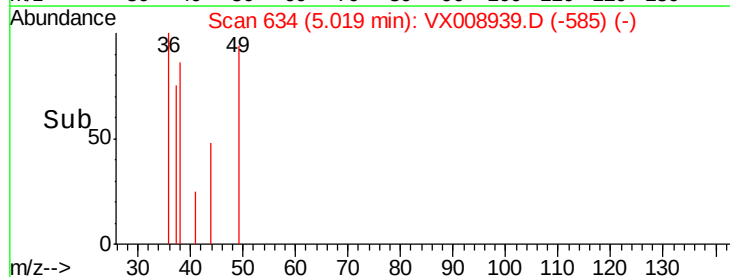
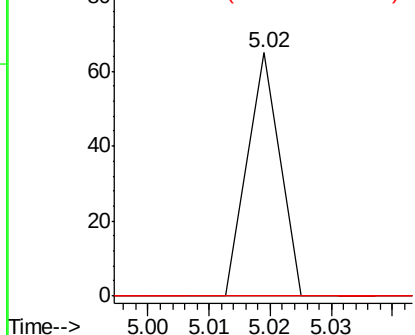
#28

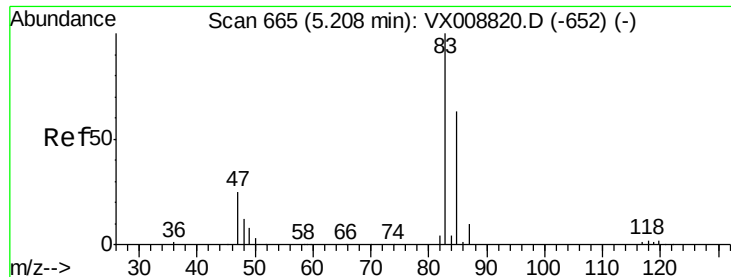
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 634
Delta R.T. -0.00 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Tgt Ion: 49 Resp: 24
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#



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

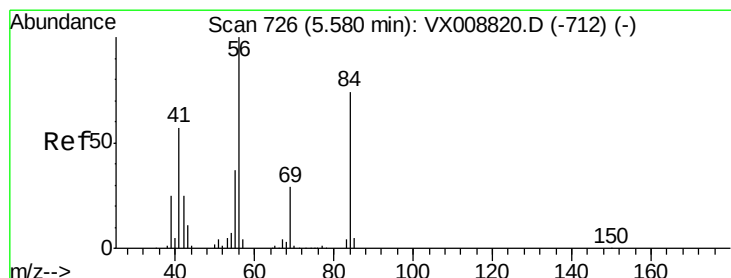
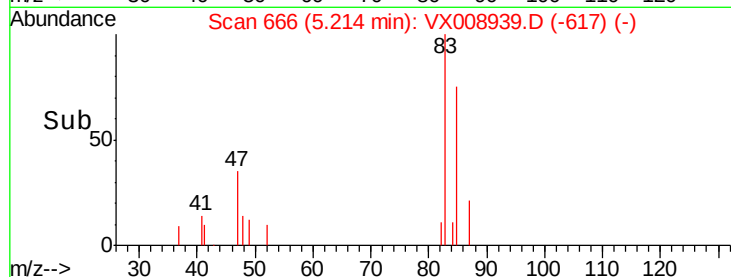
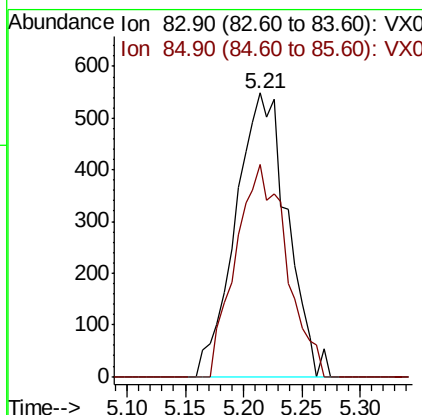
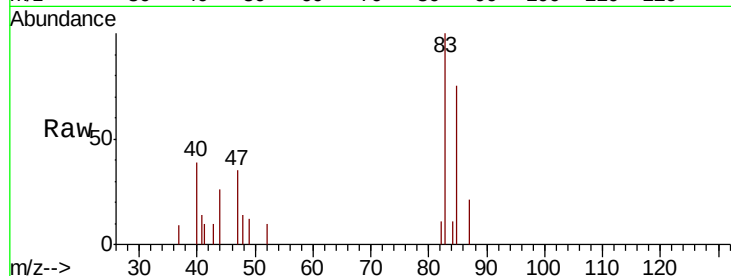




#30
Chloroform
Concen: 0.383 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

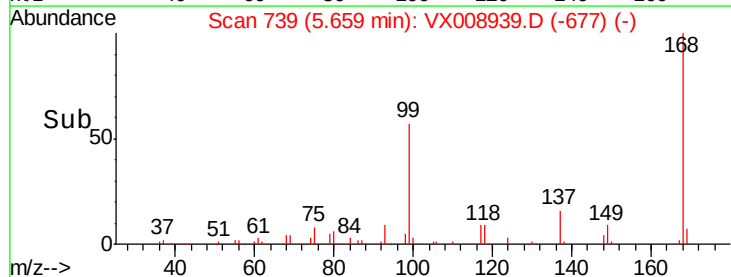
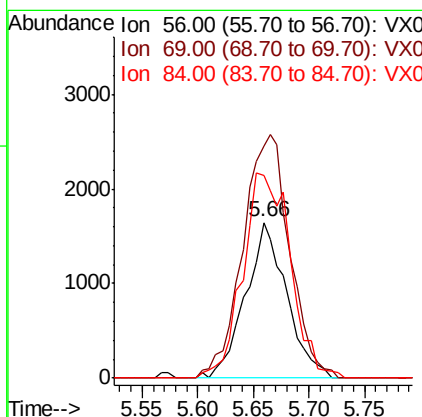
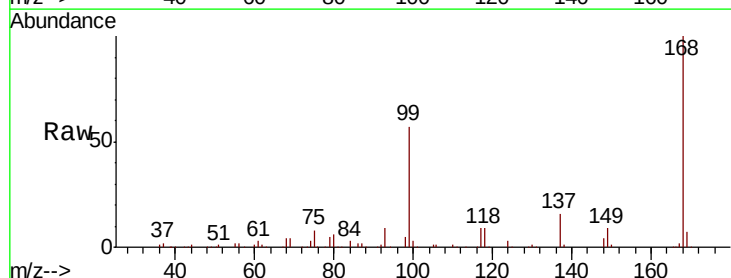
Instrument :
MSVOA_X
ClientSampled :

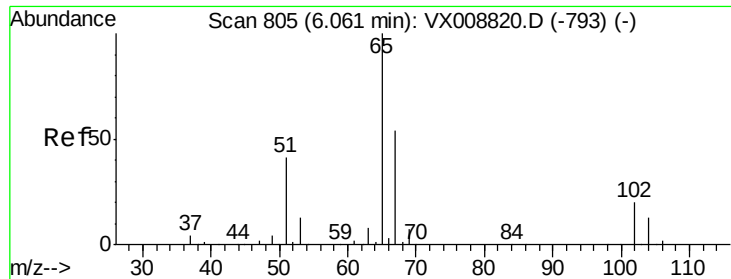
Tot Ion: 83 Resp: 1695
Ion Ratio Lower Upper
83 100
85 74.8 52.1 78.1



#31
Cyclohexane
Concen: 0.853 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Tgt Ion: 56 Resp: 4221
Ion Ratio Lower Upper
56 100
69 149.2 22.6 33.8#
84 130.1 59.3 88.9#

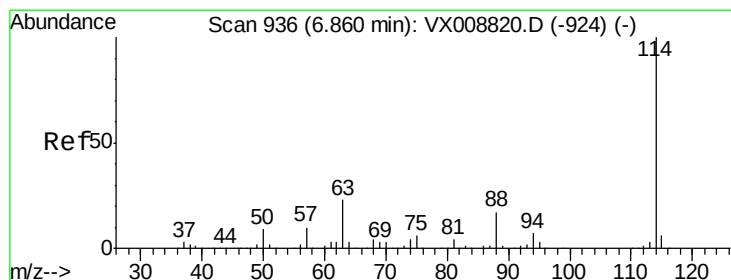
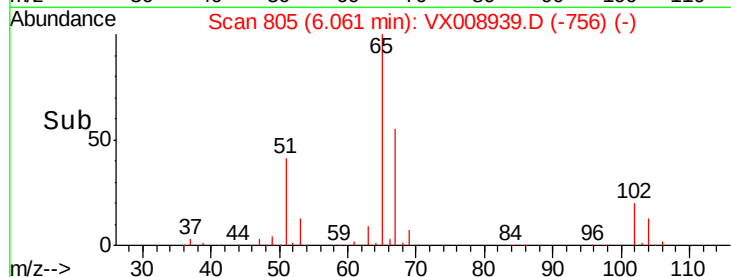
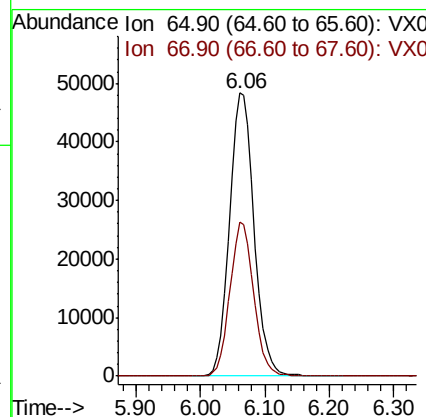
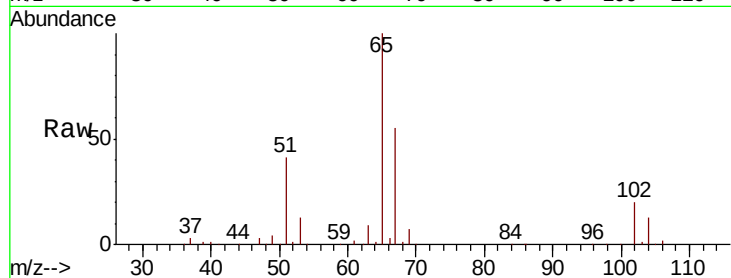




#33
 1,2-Dichloroethane-d4
 Concen: 45.303 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008939.D
 Acq: 13 Apr 2019 18:05

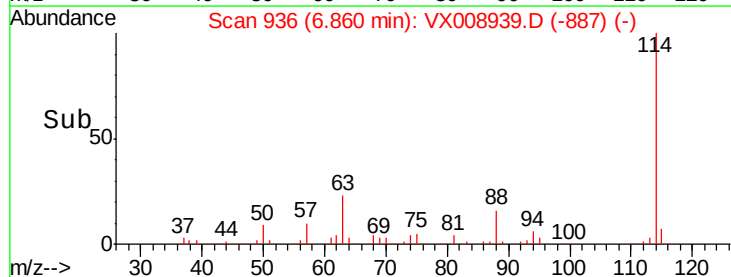
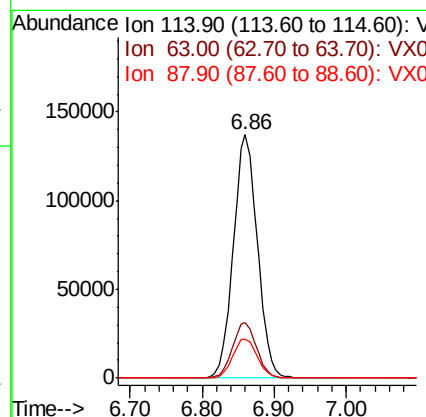
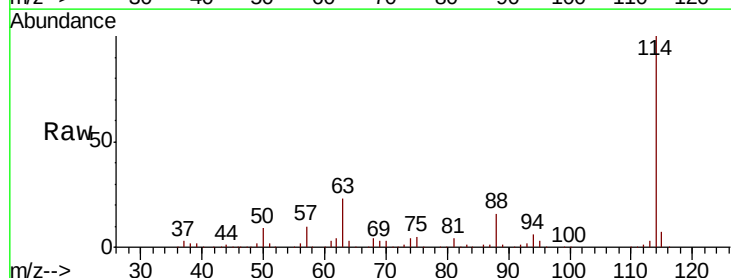
Instrument :
 MSVOA_X
 ClientSampled :

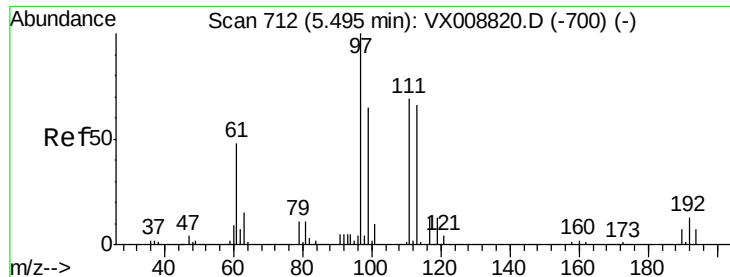
Tot Ion: 65 Resp: 129801
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008939.D
 Acq: 13 Apr 2019 18:05

Tgt Ion: 114 Resp: 318360
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 47.2
 88 16.0 0.0 34.0

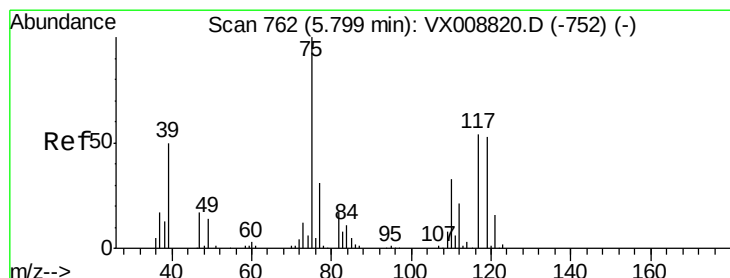
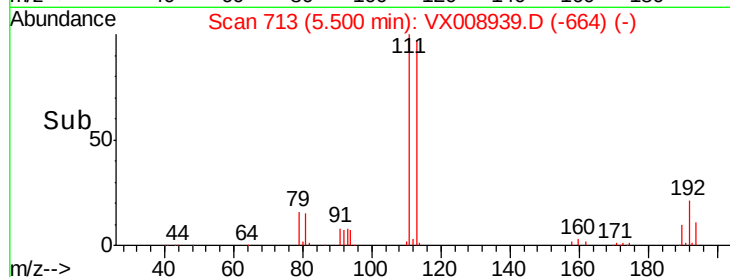
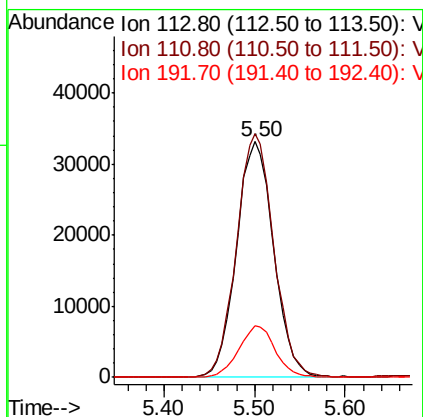
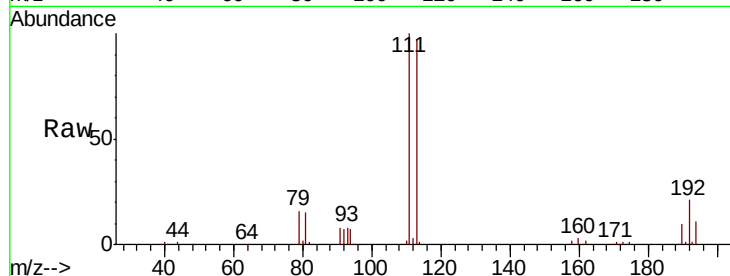




#35
 Dibromofluoromethane
 Concen: 46.373 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008939.D
 Acq: 13 Apr 2019 18:05

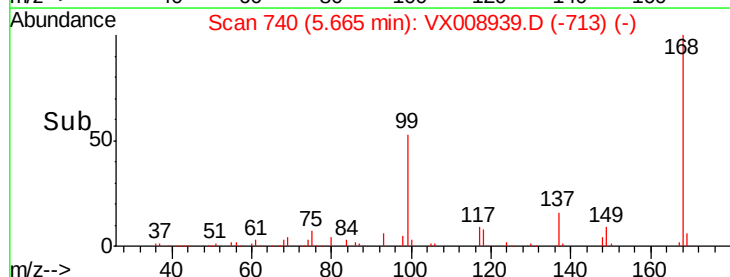
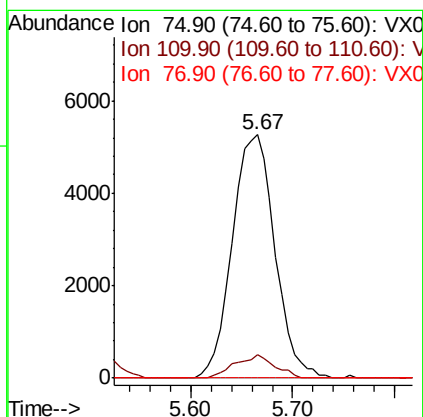
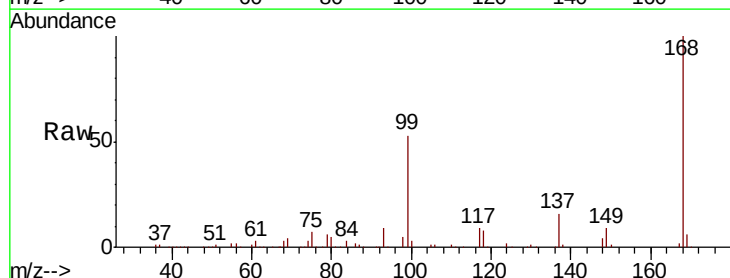
Instrument :
 MSVOA_X
 ClientSampleId :

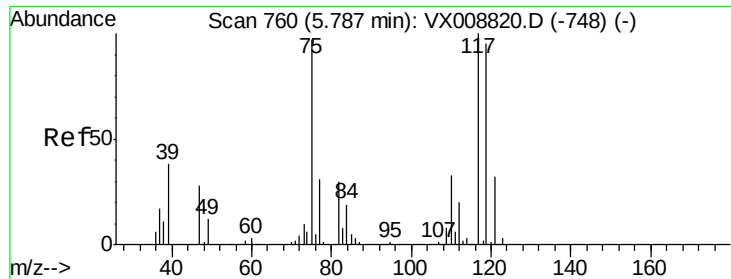
Tot Ion:113 Resp: 94392
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.4 125.2
 192 21.3 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 4.386 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008939.D
 Acq: 13 Apr 2019 18:05

Tgt Ion: 75 Resp: 15264
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.4 49.2#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.546 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

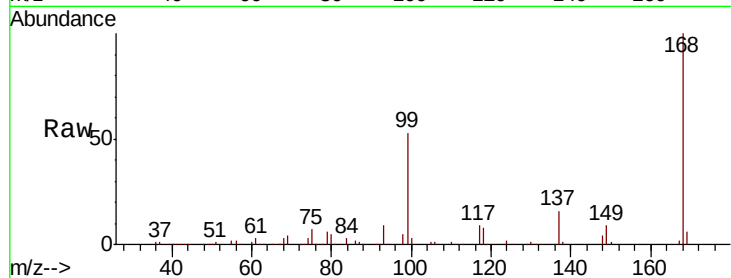
Tot Ion:117 Resp: 18853

Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.6#

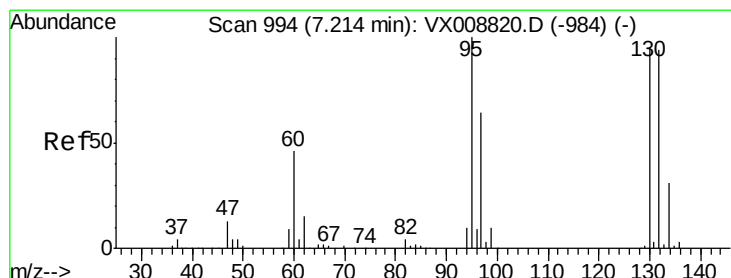
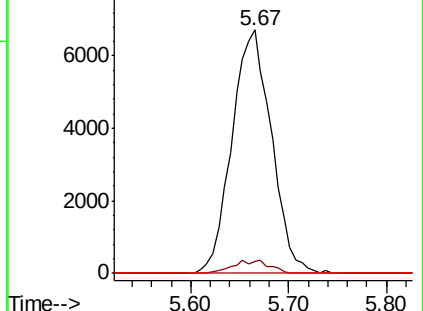
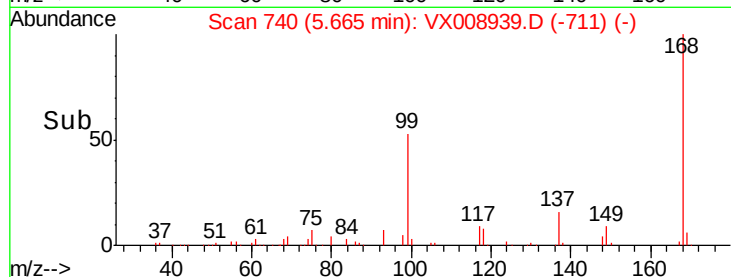
121 0.0 24.3 36.5#



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: 2.376 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008939.D

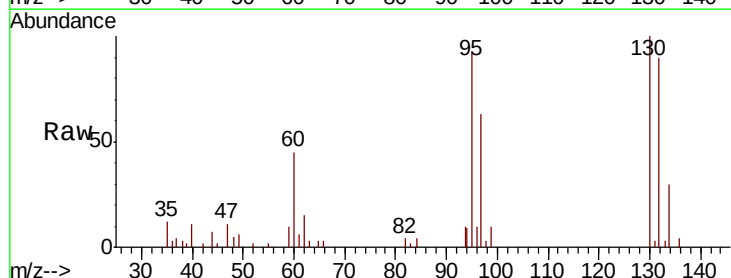
Acq: 13 Apr 2019 18:05

Tgt Ion:130 Resp: 5738

Ion Ratio Lower Upper

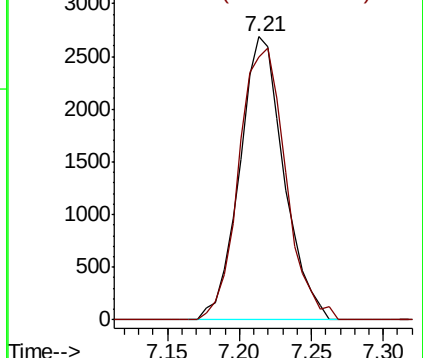
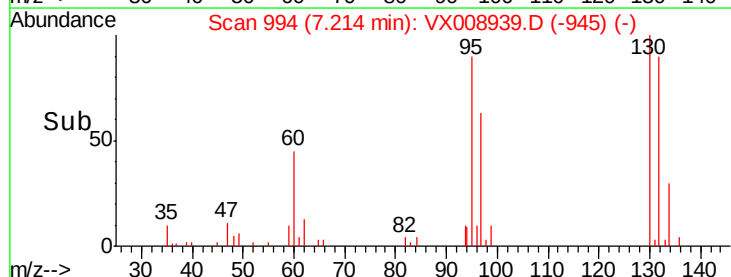
130 100

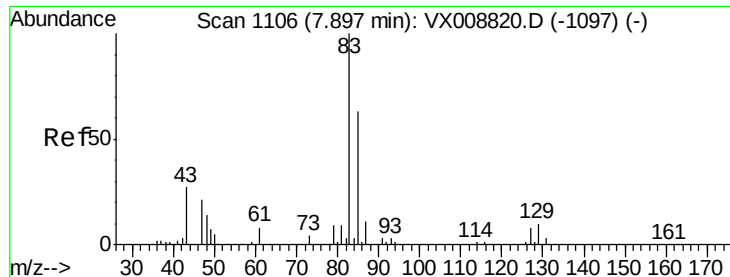
95 93.0 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.209 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

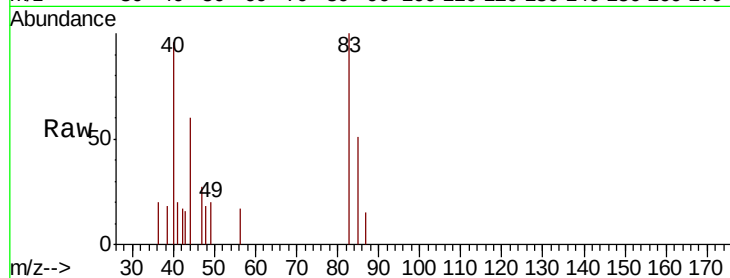
Tot Ion: 83 Resp: 677

Ion Ratio Lower Upper

83 100

85 51.3 51.2 76.8

127 0.0 6.6 10.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

7.90

400

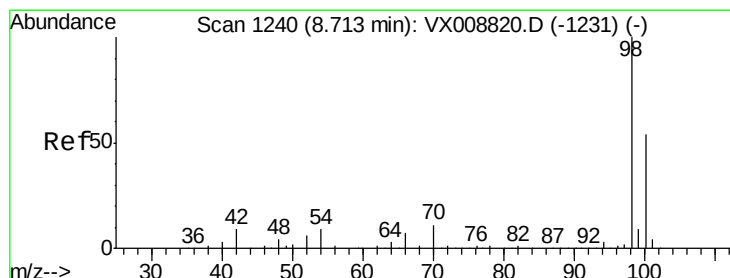
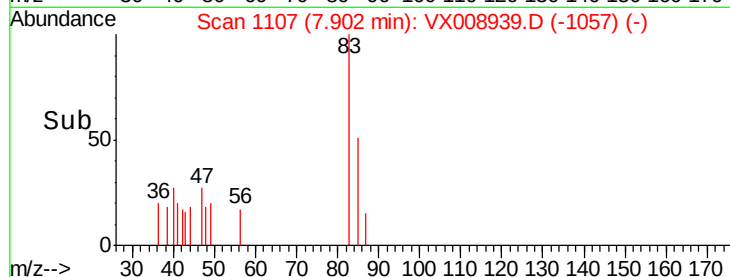
300

200

100

0

Time-->



#50

Toluene-d8

Concen: 47.893 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008939.D

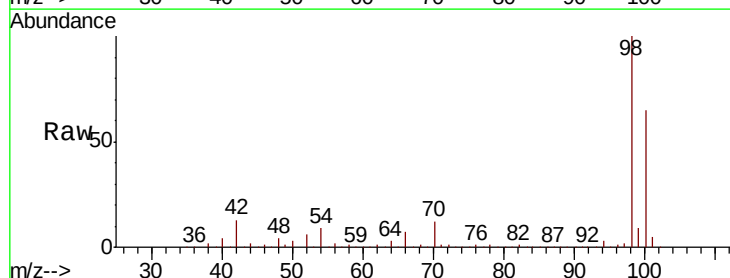
Acq: 13 Apr 2019 18:05

Tgt Ion: 98 Resp: 388157

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

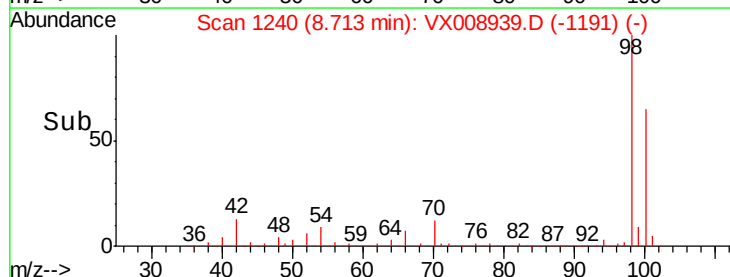
150000

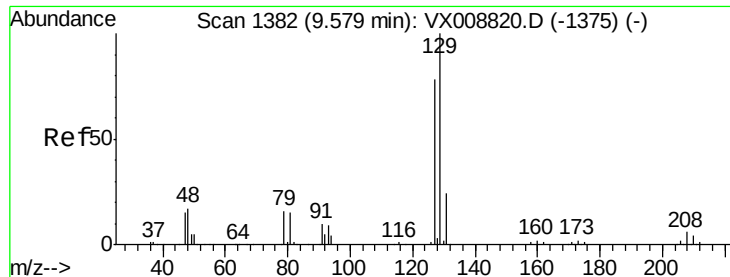
100000

50000

0

Time-->





#60

Dibromochloromethane

Concen: 6.450 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

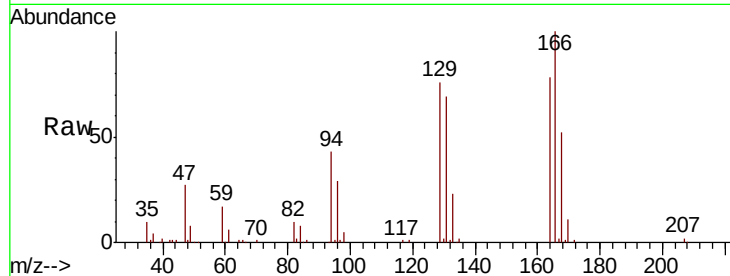
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 14911

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

12000

10000

8000

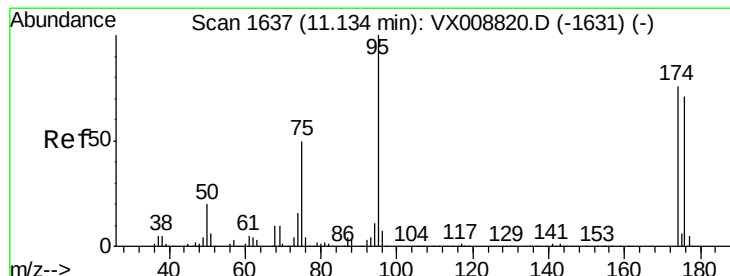
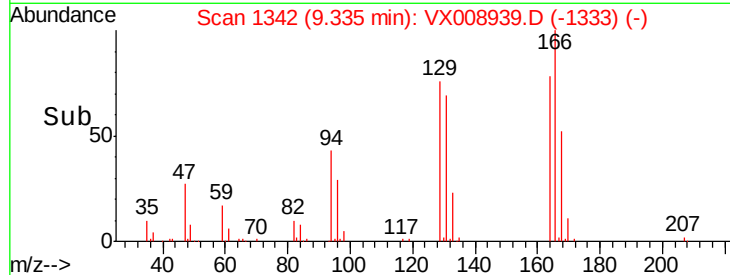
6000

4000

2000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 44.383 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

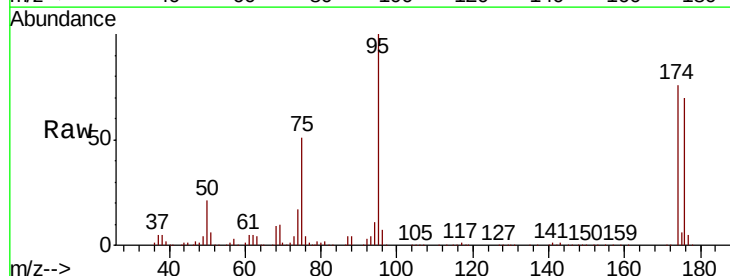
Tgt Ion: 95 Resp: 127559

Ion Ratio Lower Upper

95 100

174 80.5 0.0 151.8

176 77.9 0.0 145.8



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

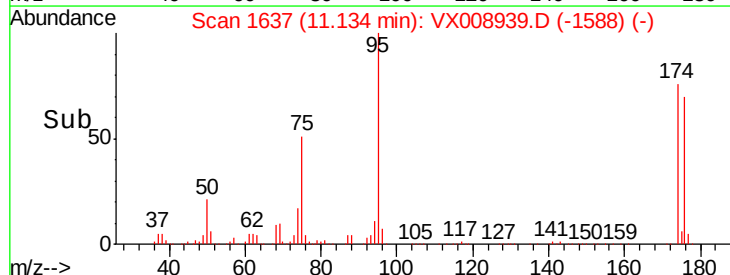
11.13

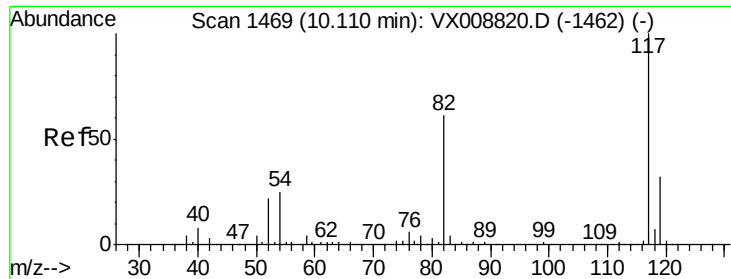
100000

50000

0

Time--> 11.05 11.10 11.15 11.20

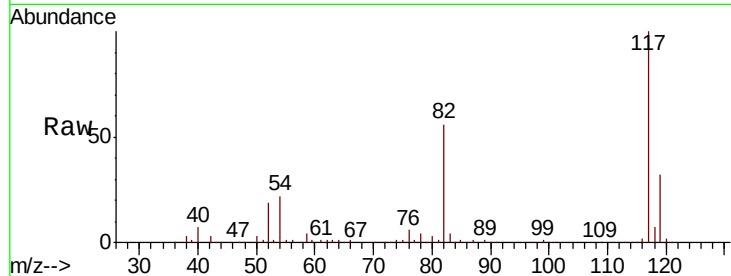




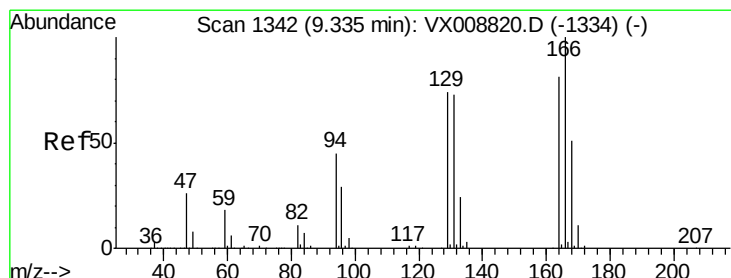
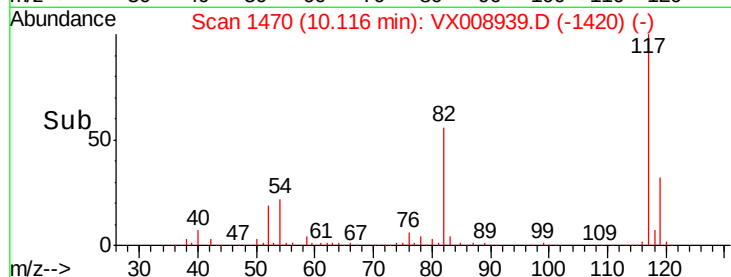
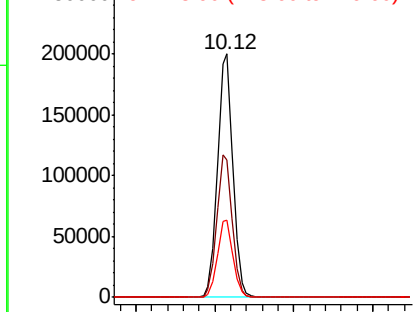
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 271822
Ion Ratio Lower Upper
117 100
82 56.5 49.6 74.4
119 32.0 25.0 37.4

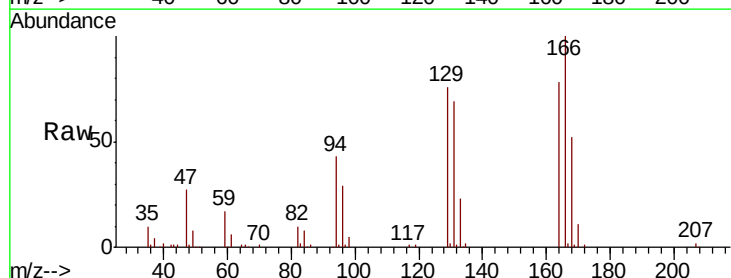


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

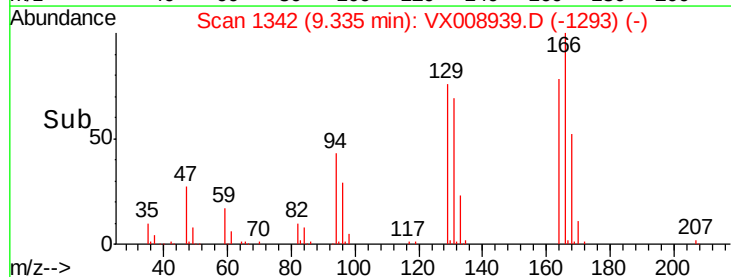
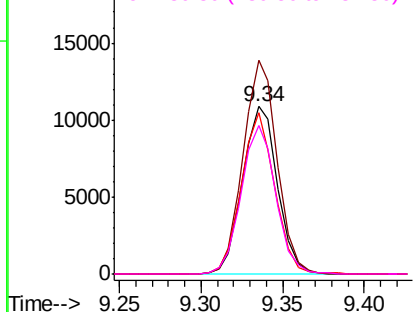


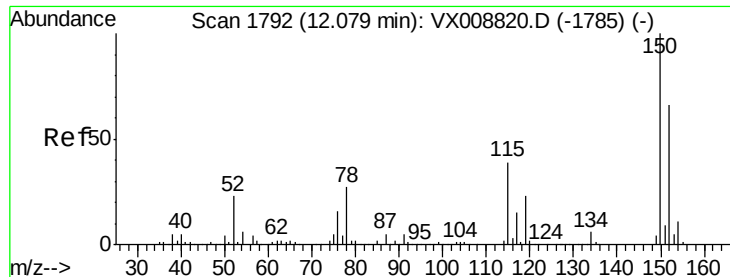
#64
Tetrachloroethene
Concen: 8.024 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Tgt Ion:164 Resp: 16160
Ion Ratio Lower Upper
164 100
166 127.4 101.0 151.6
129 96.4 75.8 113.8
131 88.4 71.8 107.8



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



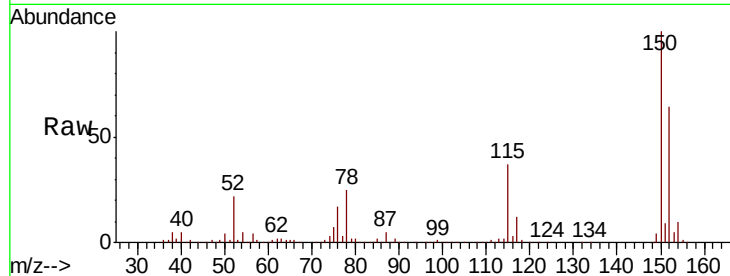


#72

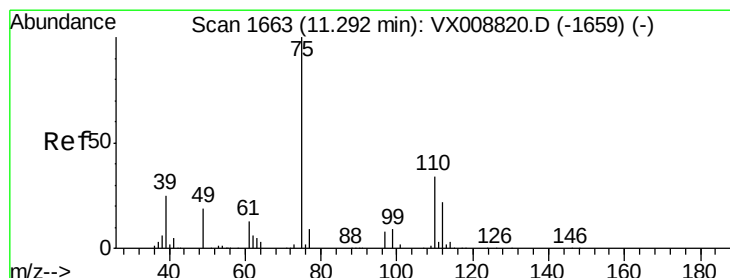
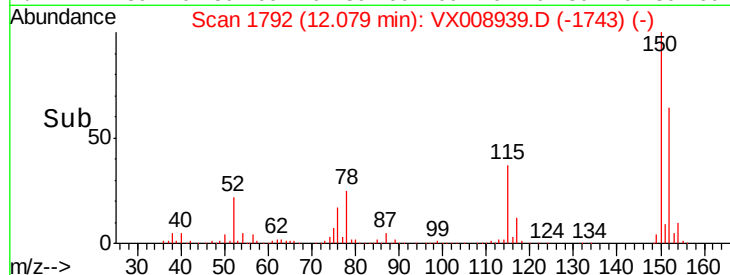
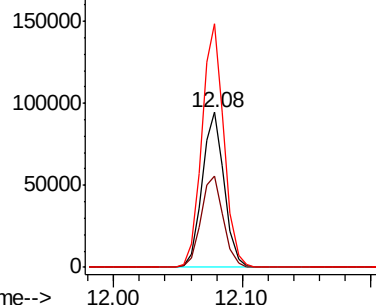
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 113142
Ion Ratio Lower Upper
152 100
115 59.9 43.5 130.5
150 156.8 0.0 348.8



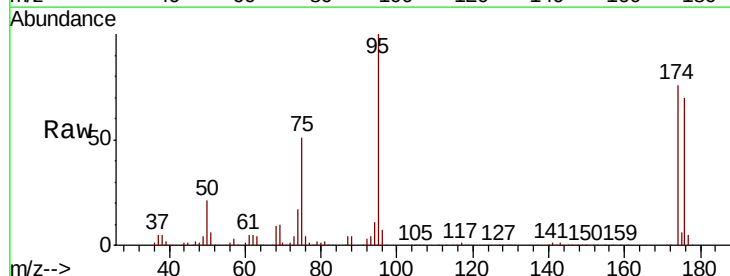
Abundance Ion 151.90 (151.60 to 152.60): V
200000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



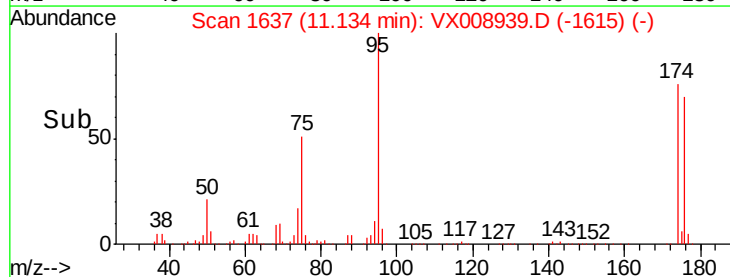
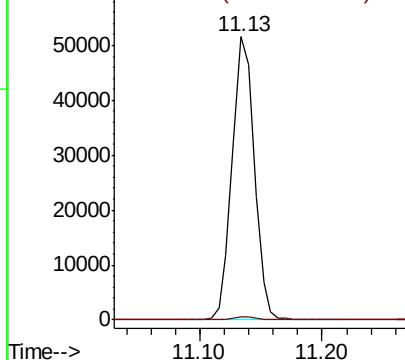
#76

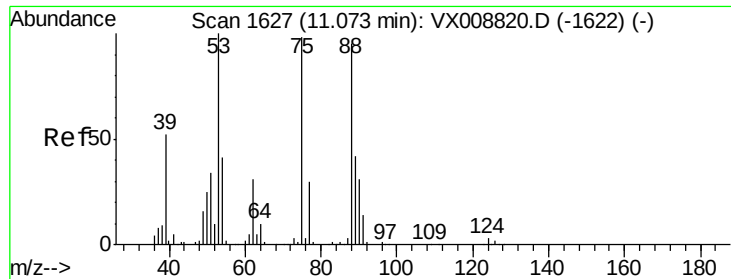
1,2,3-Trichloropropane
Concen: 20.816 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008939.D
Acq: 13 Apr 2019 18:05

Tgt Ion: 75 Resp: 64698
Ion Ratio Lower Upper
75 100
77 1.2 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
60000 Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.380 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008939.D

Acq: 13 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

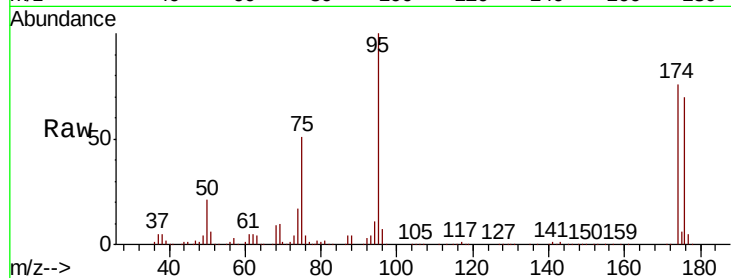
Tot Ion: 75 Resp: 64698

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



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

