

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041319\
 Data File : VX008943.D
 Acq On : 13 Apr 2019 19:39
 Operator : JC/SP
 Sample : K2385-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:16:49 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	199009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	320938	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	117398	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	129036	44.45	ug/l	0.00
Spiked Amount			Recovery	=	88.90%	
35) Dibromofluoromethane	5.50	113	94787	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	
50) Toluene-d8	8.71	98	391889	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	
62) 4-Bromofluorobenzene	11.13	95	131095	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	

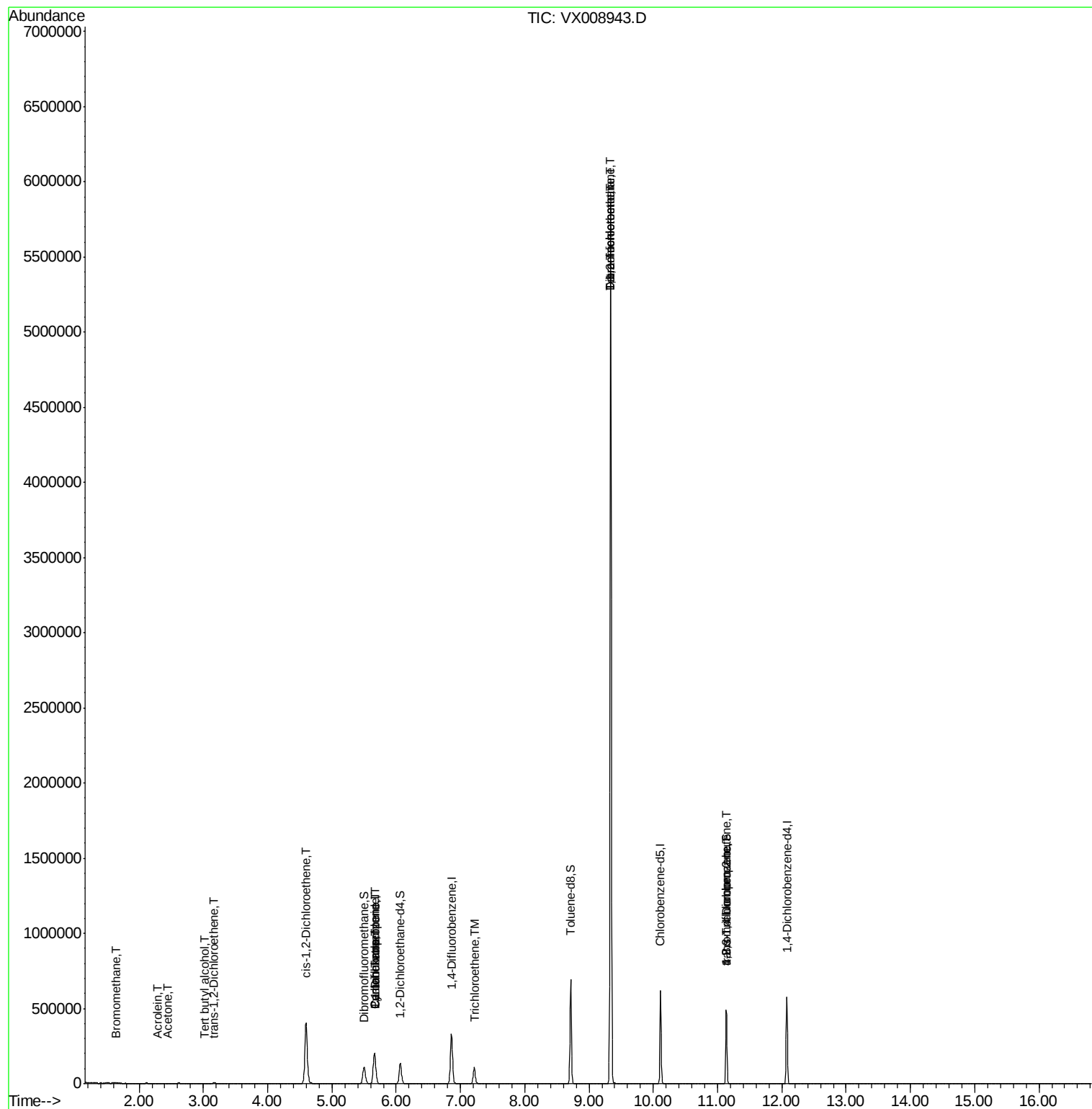
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	258	Below Cal		100
5) Bromomethane	1.65	94	82	1.937 ug/l #		78
6) Chloroethane	1.68	64	97	Below Cal #		43
11) Tert butyl alcohol	3.01	59	562	0.827 ug/l #		72
13) Acrolein	2.28	56	89	0.264 ug/l #		1
16) Acetone	2.45	43	1341	0.802 ug/l #		87
17) Carbon Disulfide	2.57	76	382	Below Cal #		52
21) trans-1,2-Dichloroethene	3.17	96	2593	1.042 ug/l		82
27) cis-1,2-Dichloroethene	4.60	96	254493	88.946 ug/l		88
28) Bromochloromethane	4.87	49	39	Below Cal #		22
31) Cyclohexane	5.66	56	4382	0.874 ug/l #		1
36) 1,1-Dichloropropene	5.67	75	15493	4.416 ug/l #		51
38) Carbon Tetrachloride	5.66	117	18975	6.535 ug/l #		17
44) Trichloroethene	7.21	130	43060	17.690 ug/l		99
55) 1,1,2-Trichloroethane	9.34	97	9022	3.648 ug/l #		1
60) Dibromochloromethane	9.34	129	1067841	458.176 ug/l #		11
64) Tetrachloroethene	9.34	164	1141641	564.796 ug/l		99
76) 1,2,3-Trichloropropane	11.13	75	67080	20.800 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.13	75	67080	57.336 ug/l #		9

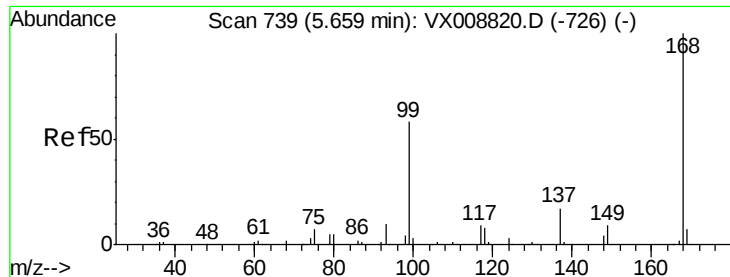
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

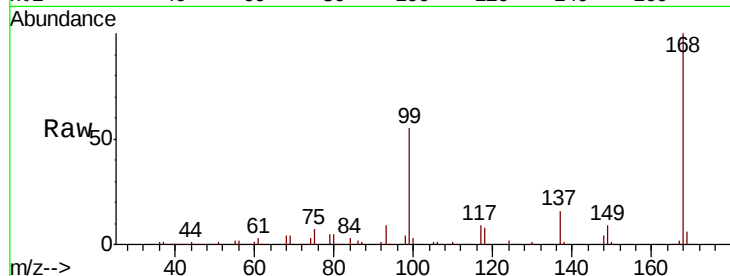
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 199009

Ion Ratio Lower Upper

168 100

99 55.3 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

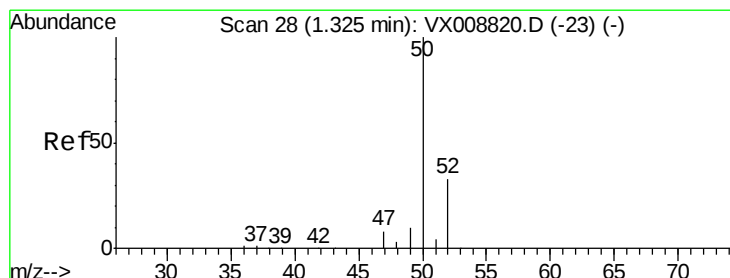
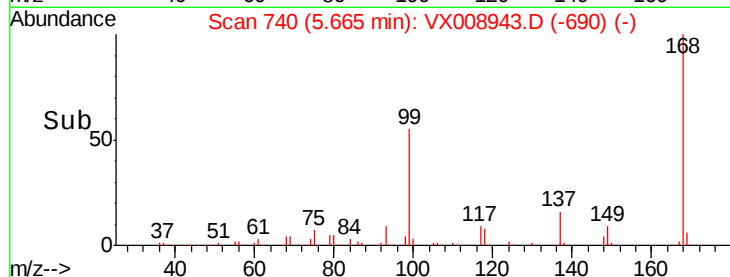
60000

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: VX008943.D

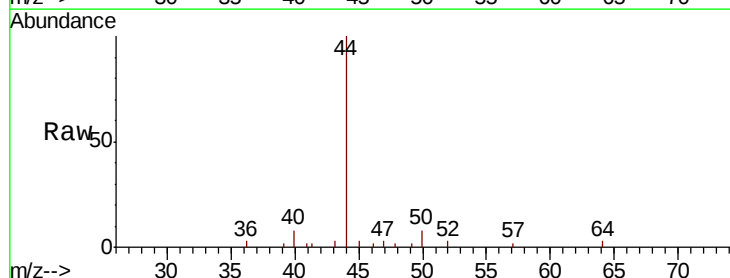
Acq: 13 Apr 2019 19:39

Tgt Ion: 50 Resp: 258

Ion Ratio Lower Upper

50 100

52 32.4 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

250

200

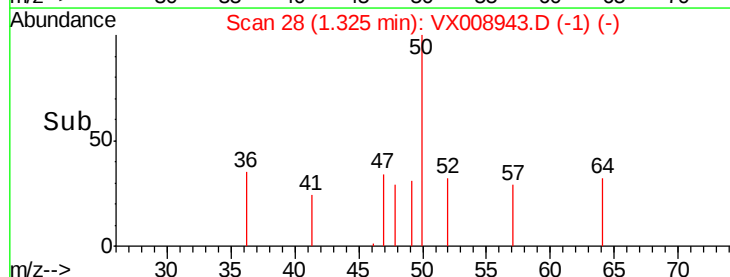
150

100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 1.937 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

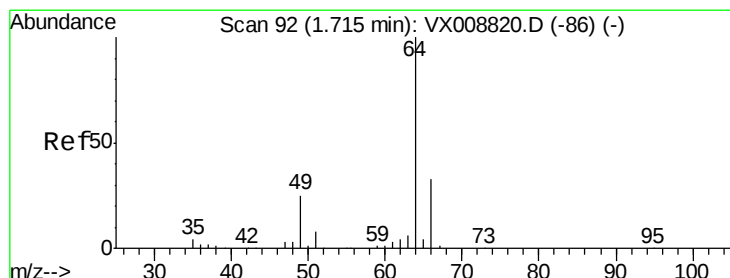
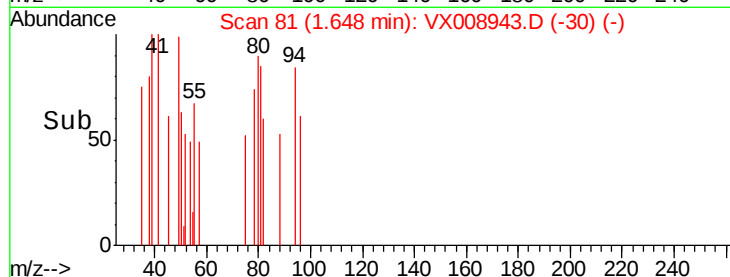
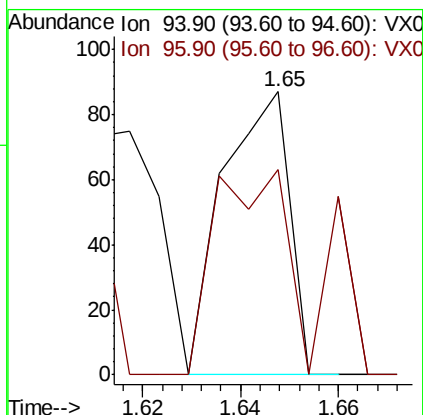
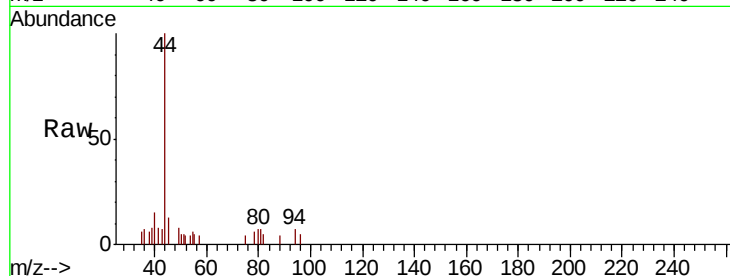
ClientSampleId :

Tot Ion: 94 Resp: 82

Ion Ratio Lower Upper

94 100

96 72.4 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX008943.D

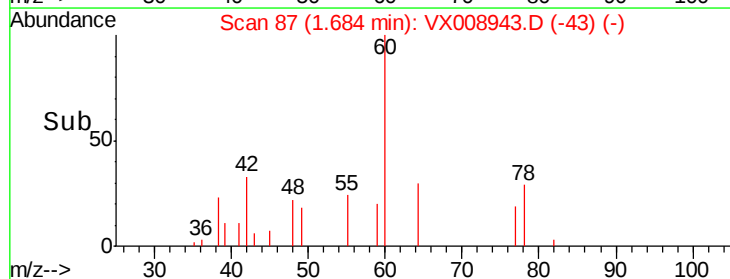
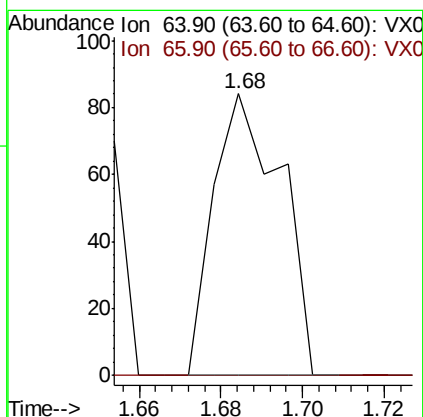
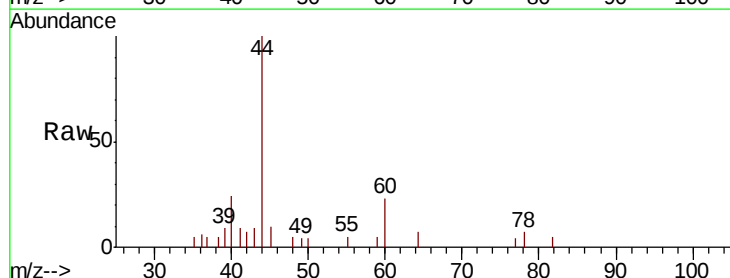
Acq: 13 Apr 2019 19:39

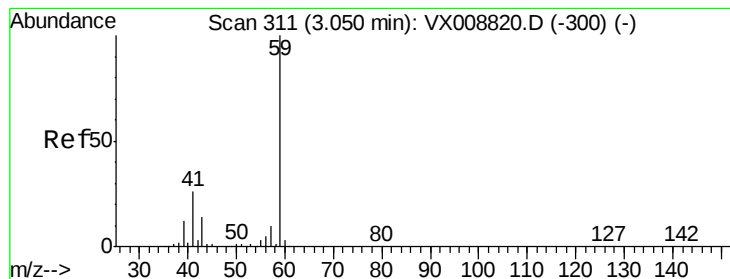
Tgt Ion: 64 Resp: 97

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



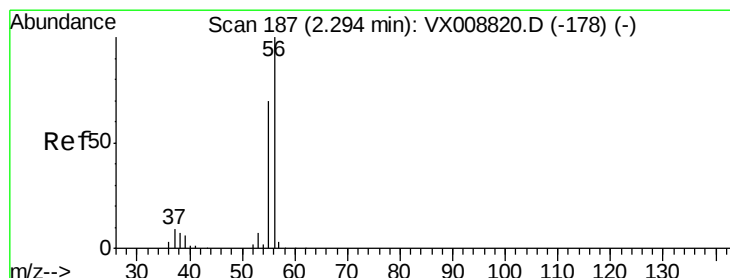
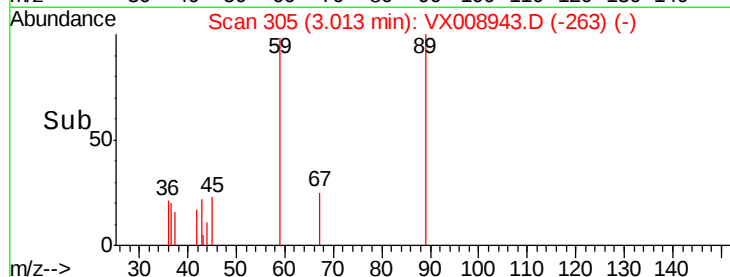
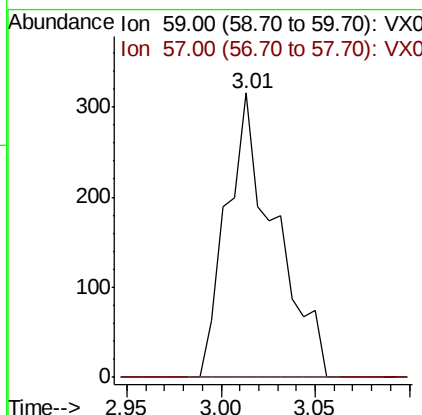
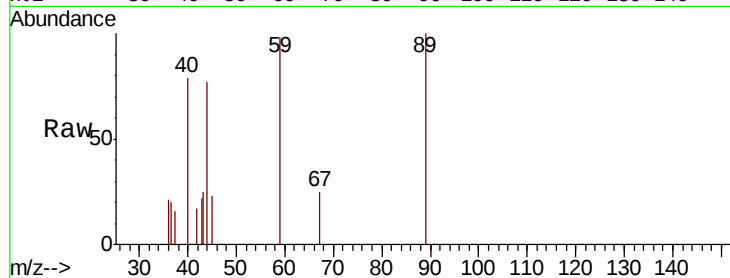


#11

Tert butyl alcohol
 Concen: 0.827 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

Instrument :
 MSVOA_X
 ClientSampled :

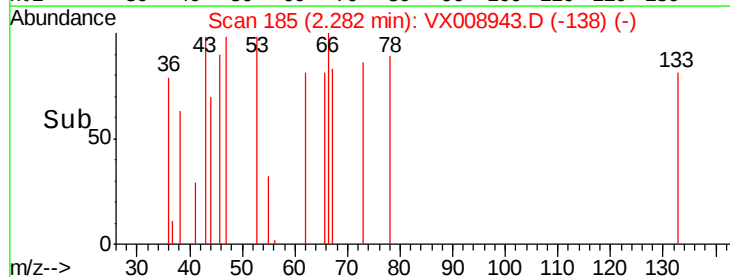
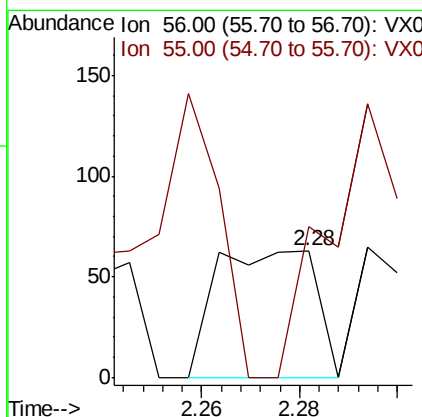
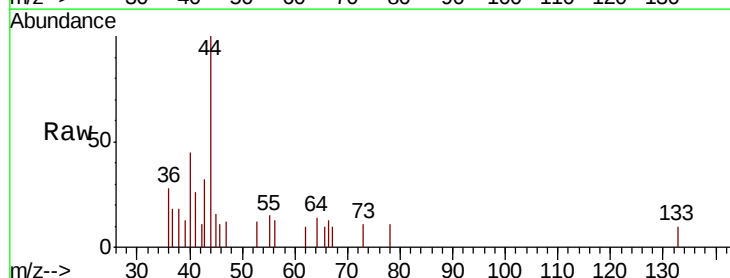
Tot Ion: 59 Resp: 562
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

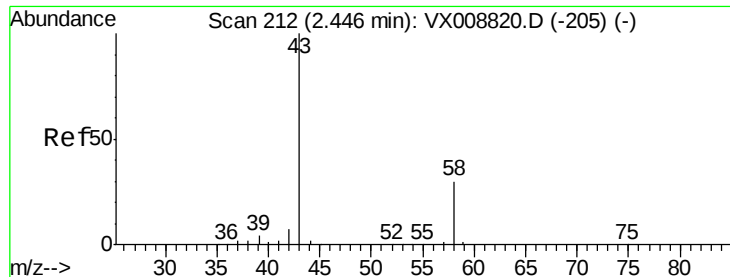


#13

Acrolein
 Concen: 0.264 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

Tgt Ion: 56 Resp: 89
 Ion Ratio Lower Upper
 56 100
 55 233.7 58.0 87.0#





#16

Acetone

Concen: 0.802 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

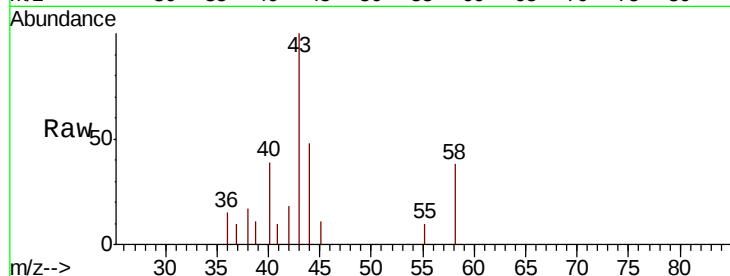
ClientSampled :

Tot Ion: 43 Resp: 1341

Ion Ratio Lower Upper

43 100

58 38.0 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

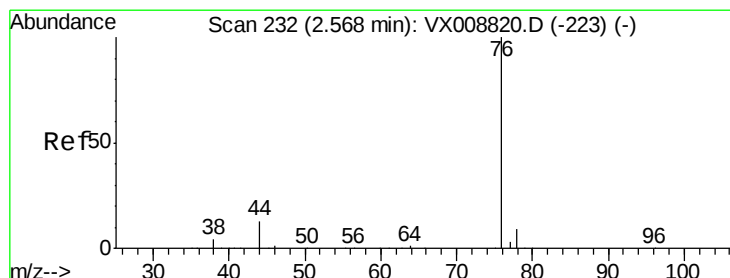
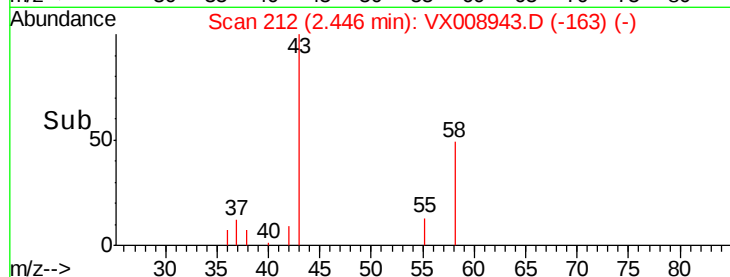
600

400

200

0

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008943.D

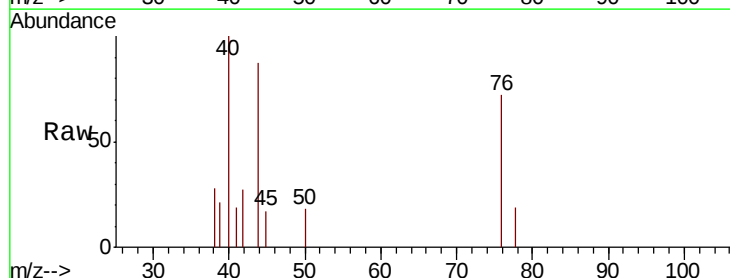
Acq: 13 Apr 2019 19:39

Tgt Ion: 76 Resp: 382

Ion Ratio Lower Upper

76 100

78 26.2 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

250

200

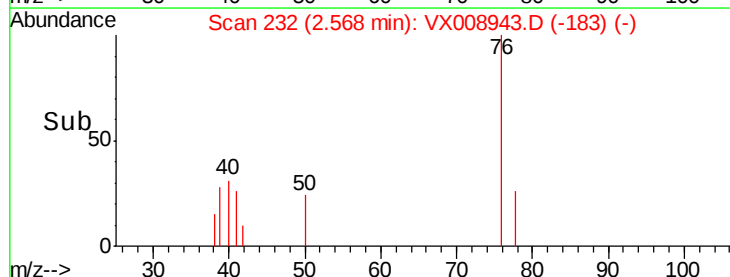
150

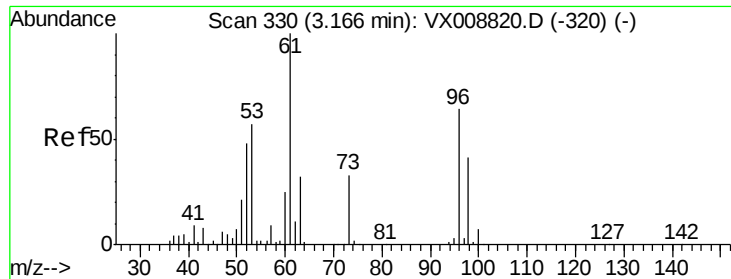
100

50

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 1.042 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

ClientSampleId :

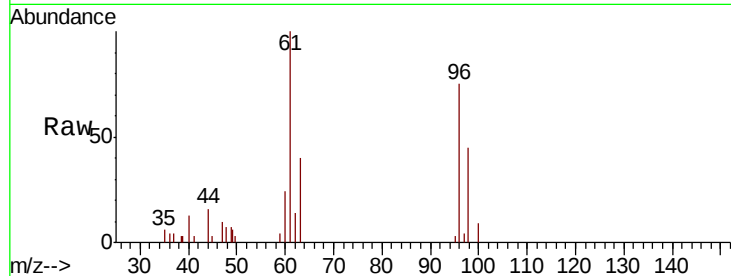
Tot Ion: 96 Resp: 2593

Ion Ratio Lower Upper

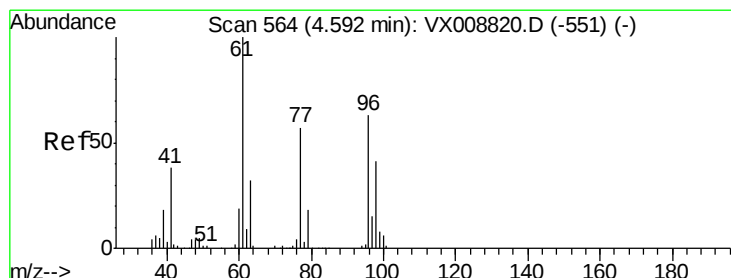
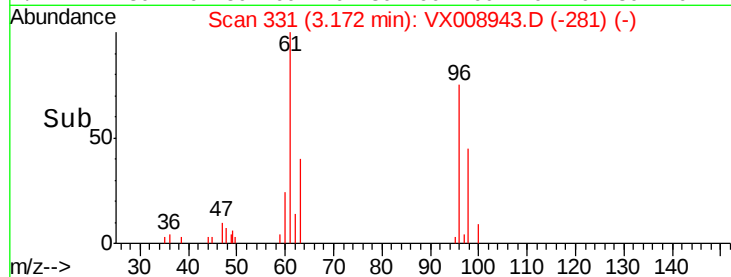
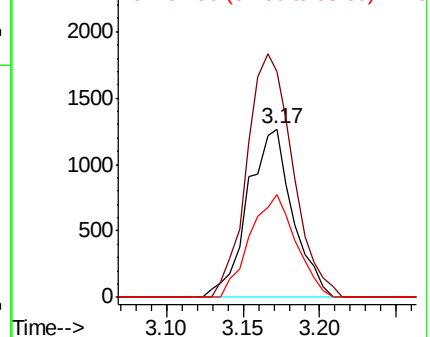
96 100

61 133.9 132.1 198.1

98 60.8 52.2 78.2



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



#27

cis-1,2-Dichloroethene

Concen: 88.946 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

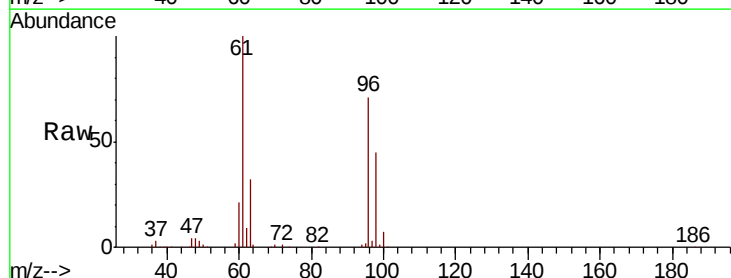
Tgt Ion: 96 Resp: 254493

Ion Ratio Lower Upper

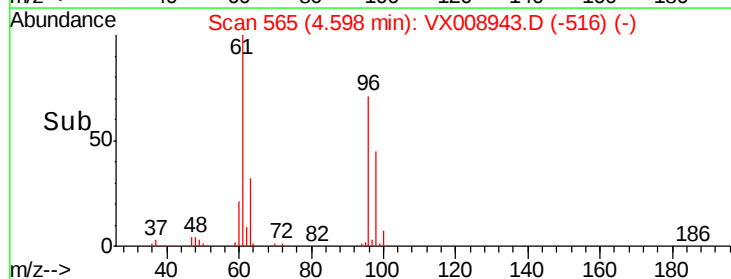
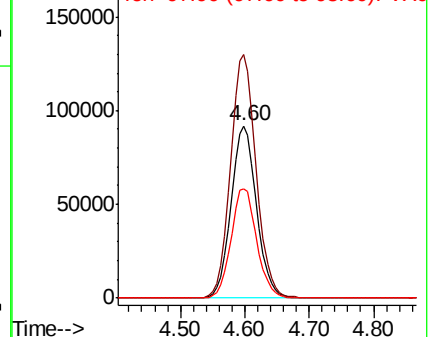
96 100

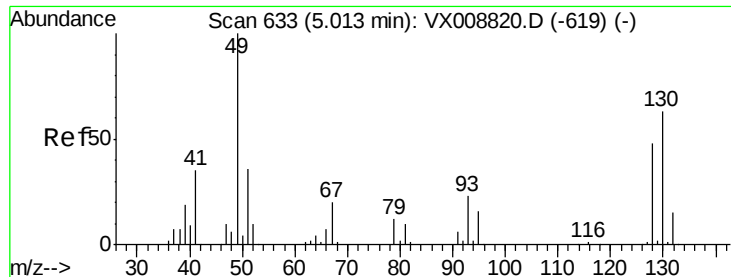
61 142.1 0.0 327.6

98 64.2 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: 4.87 min Scan# 610

Delta R.T. -0.15 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

ClientSampled :

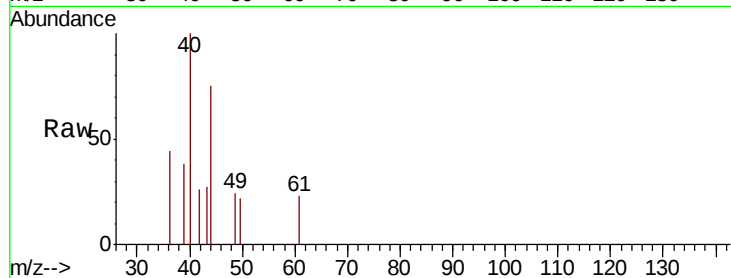
Tot Ion: 49 Resp: 39

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

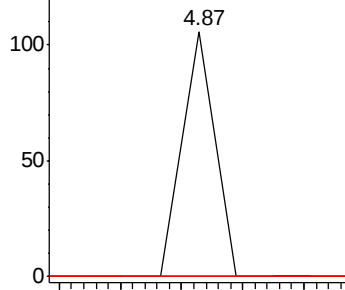
130 0.0 49.3 73.9#



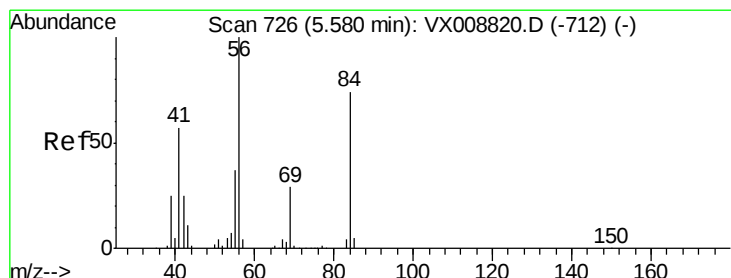
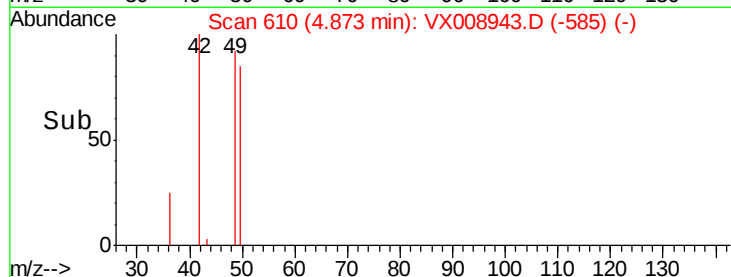
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time--> 4.85 4.86 4.87 4.88 4.89



#31

Cyclohexane

Concen: 0.874 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

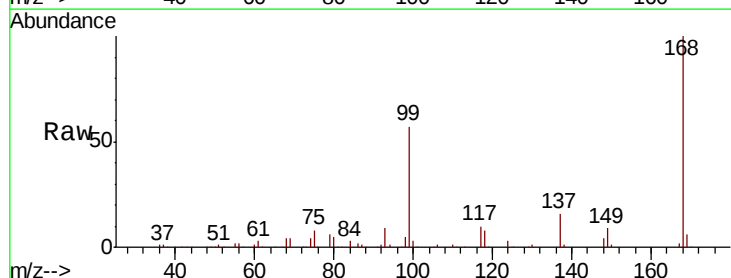
Tgt Ion: 56 Resp: 4382

Ion Ratio Lower Upper

56 100

69 202.6 22.6 33.8#

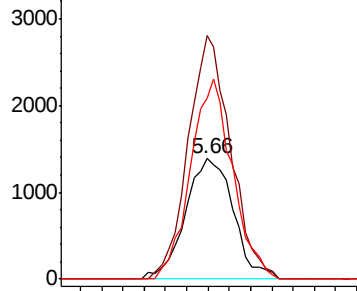
84 150.3 59.3 88.9#



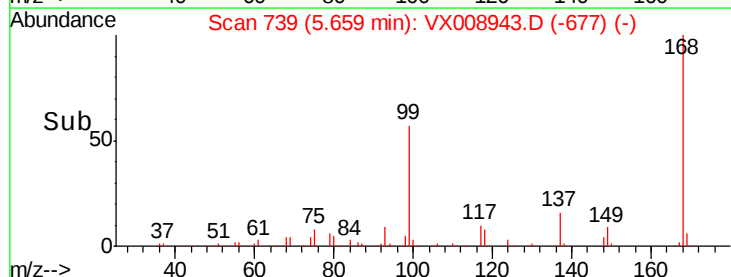
Abundance Ion 56.00 (55.70 to 56.70): VX0

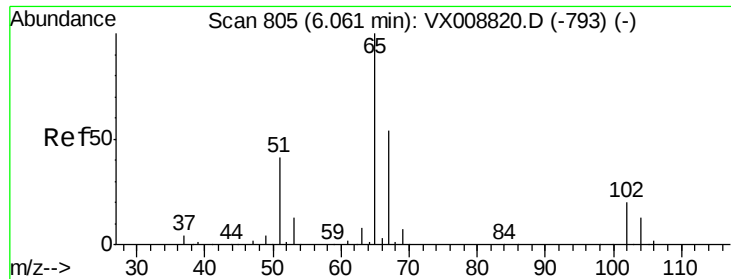
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time--> 5.60 5.70

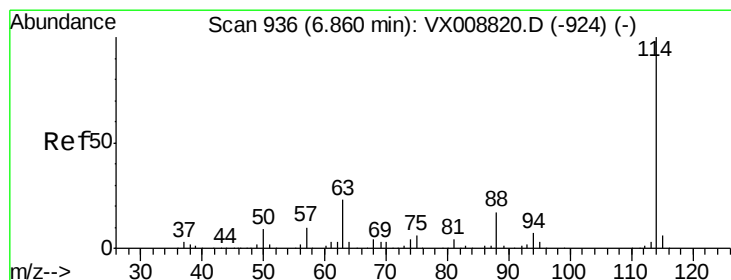
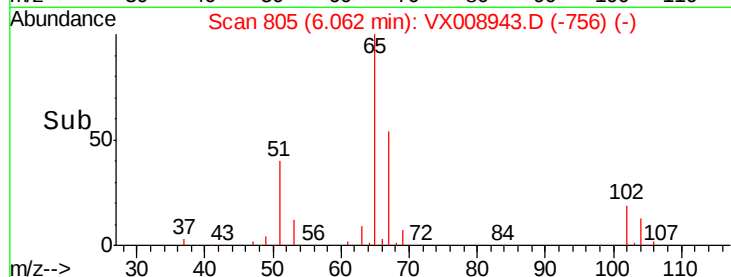
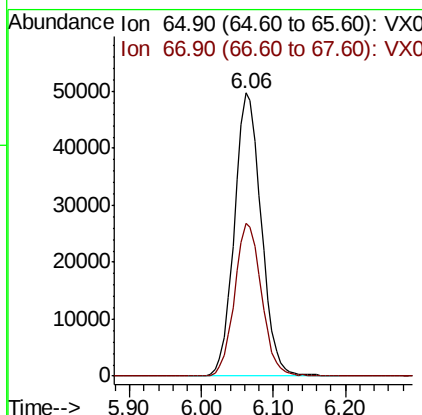
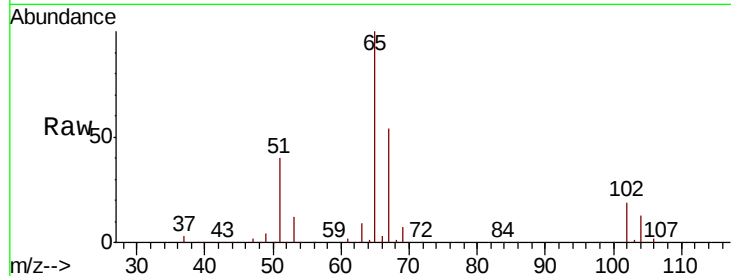




#33
 1,2-Dichloroethane-d4
 Concen: 44.454 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

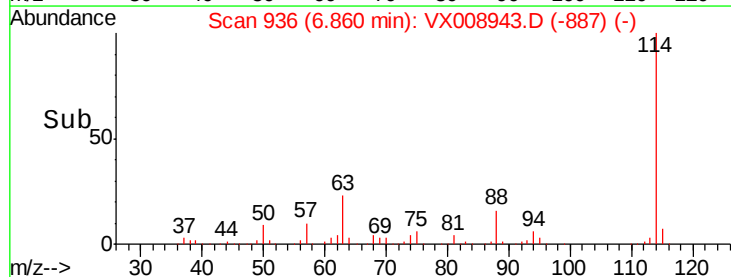
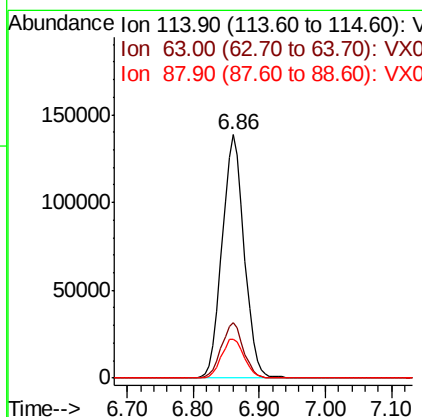
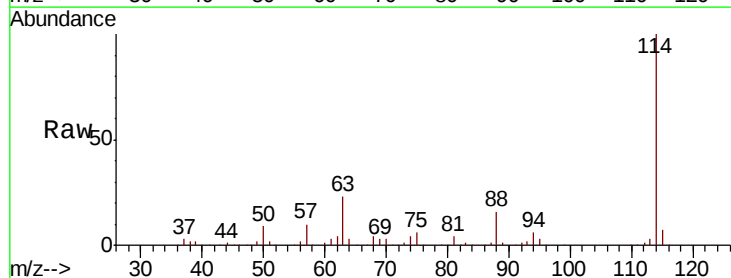
Instrument :
 MSVOA_X
 ClientSampleId :

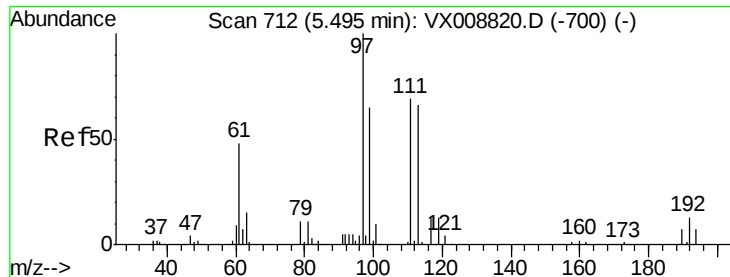
Tot Ion: 65 Resp: 129036
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

Tgt Ion: 114 Resp: 320938
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 47.2
 88 15.9 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.193 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

ClientSampleId :

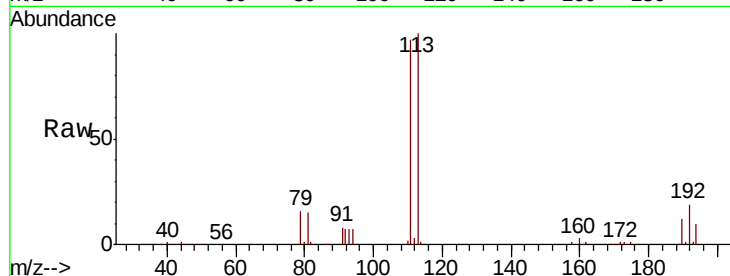
Tot Ion:113 Resp: 94787

Ion Ratio Lower Upper

113 100

111 102.4 83.4 125.2

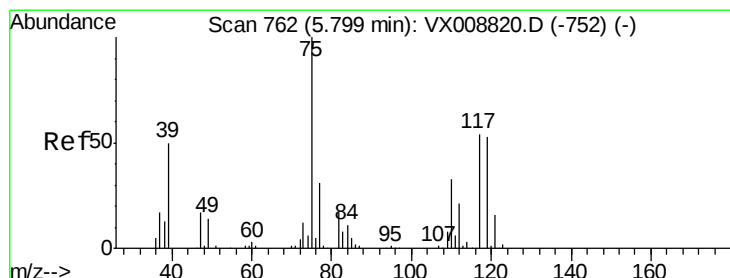
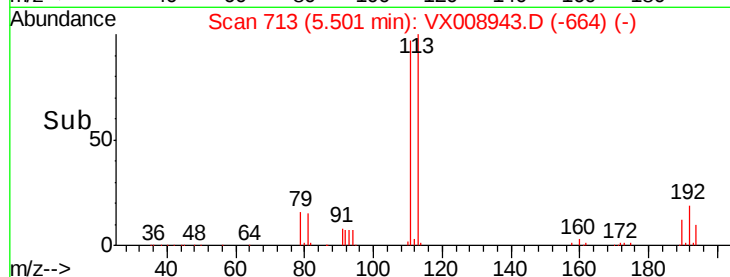
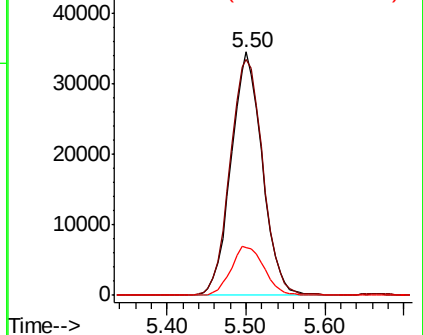
192 21.2 16.1 24.1



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: 4.416 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

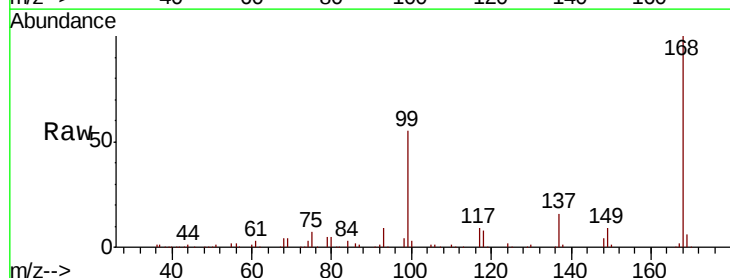
Tgt Ion: 75 Resp: 15493

Ion Ratio Lower Upper

75 100

110 8.6 16.4 49.2#

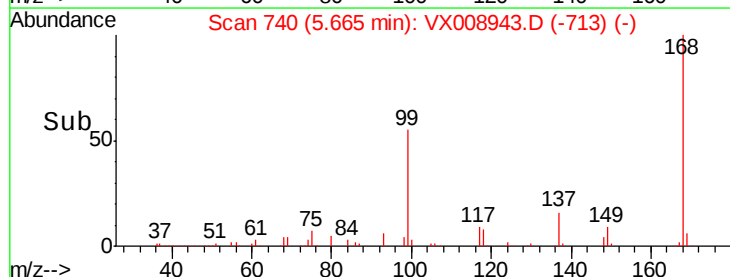
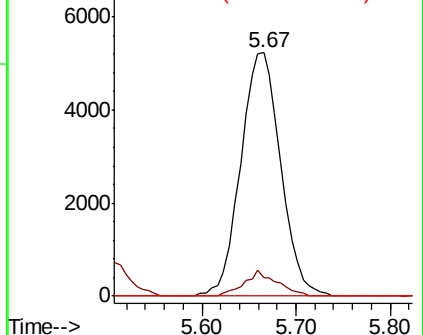
77 0.0 24.7 37.1#

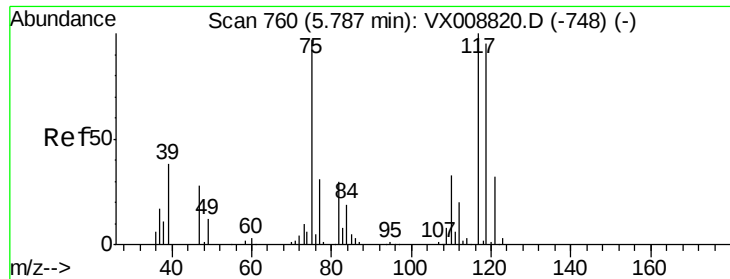


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.535 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

ClientSampleId :

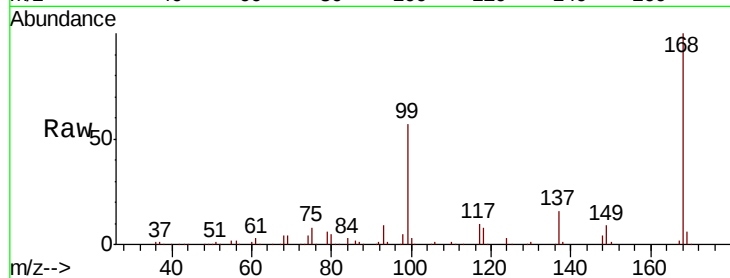
Tot Ion:117 Resp: 18975

Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

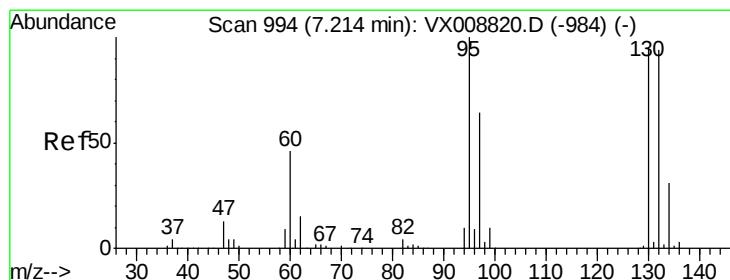
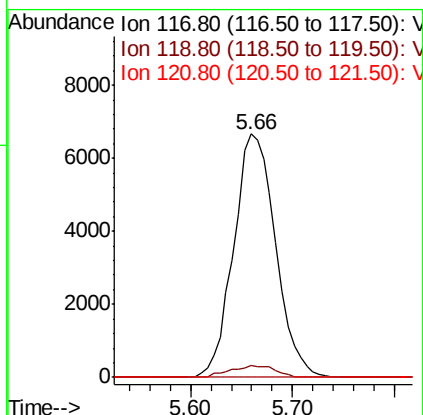
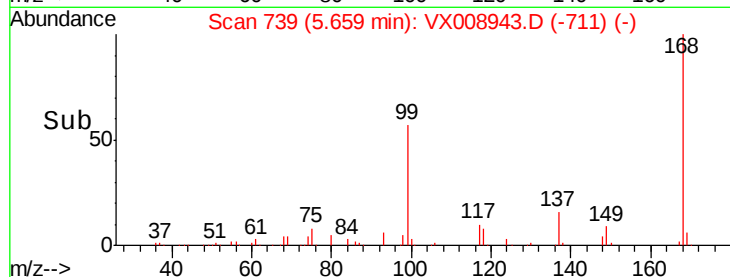
121 0.0 24.3 36.5#



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: 17.690 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008943.D

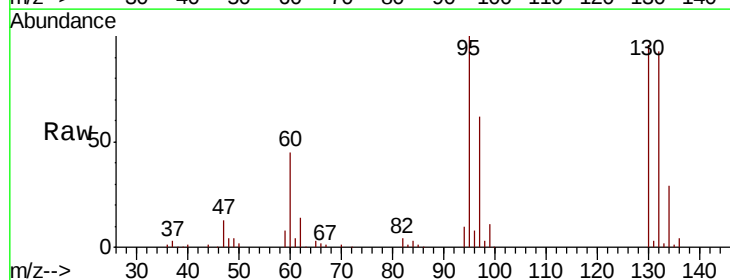
Acq: 13 Apr 2019 19:39

Tgt Ion:130 Resp: 43060

Ion Ratio Lower Upper

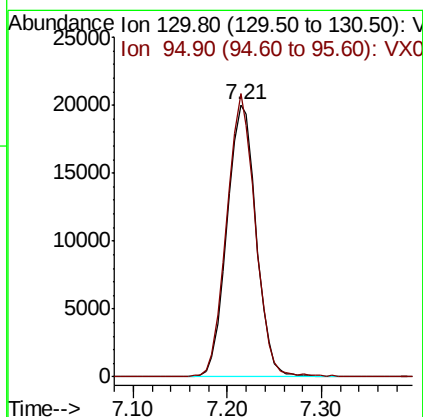
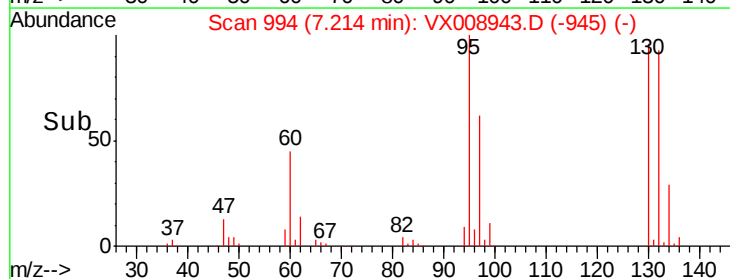
130 100

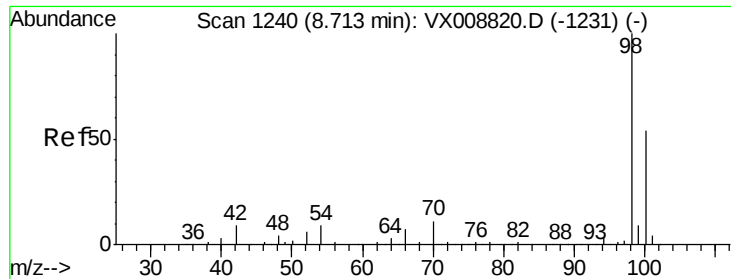
95 104.1 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 47.965 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

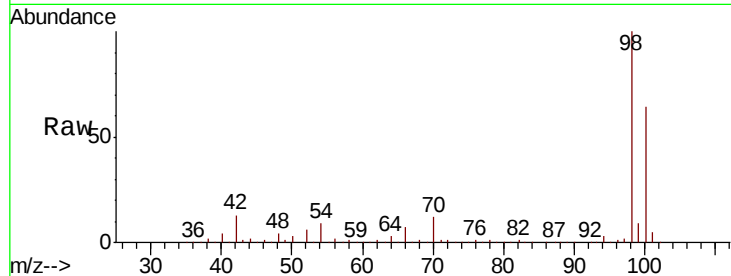
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 391889

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX008820.D (-1231) (-)

Ion 100.00 (99.70 to 100.70): VX008943.D (-1191) (-)

8.71

250000

200000

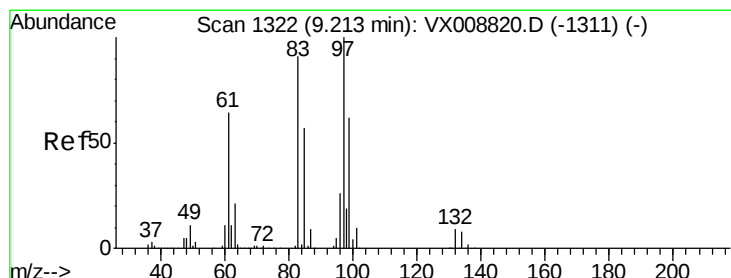
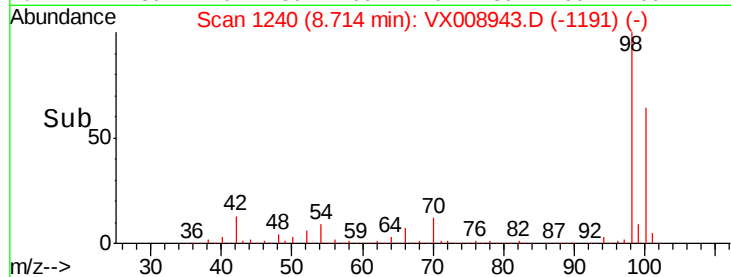
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#55

1,1,2-Trichloroethane

Concen: 3.648 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Tgt Ion: 97 Resp: 9022

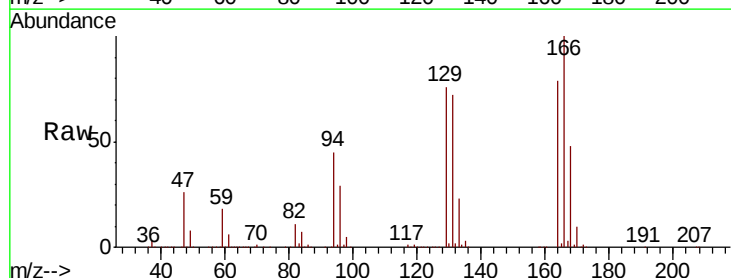
Ion Ratio Lower Upper

97 100

83 304.5 73.2 109.8#

85 44.3 46.6 69.8#

99 16.4 50.1 75.1#



Abundance Ion 96.90 (96.60 to 97.60): VX008820.D (-1311) (-)

Ion 82.90 (82.60 to 83.60): VX008943.D (-1273) (-)

Ion 84.90 (84.60 to 85.60): VX008943.D (-1273) (-)

Ion 98.90 (98.60 to 99.60): VX008943.D (-1273) (-)

9.34

20000

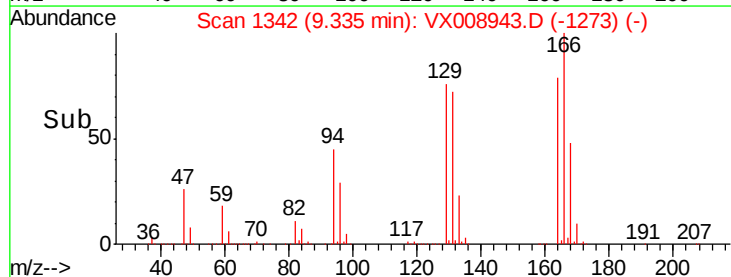
15000

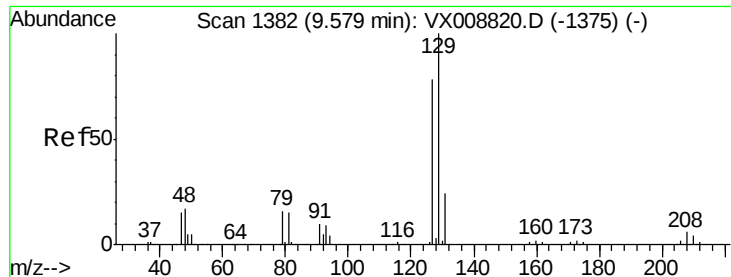
10000

5000

0

Time--> 9.30 9.35

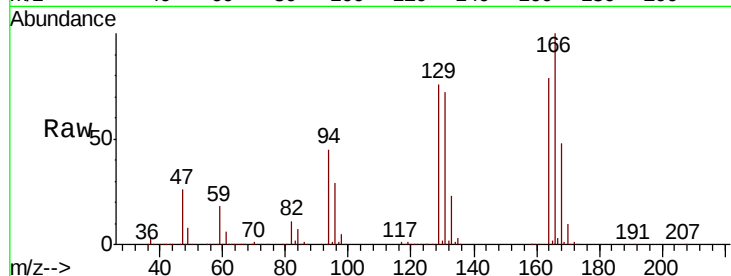




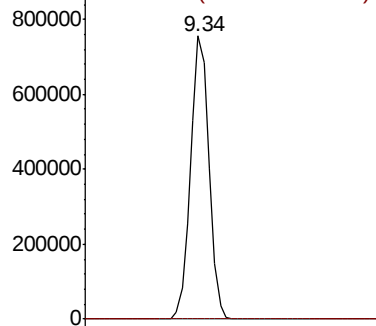
#60
 Dibromochloromethane
 Concen: 458.176 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

Instrument :
 MSVOA_X
 ClientSampleId :

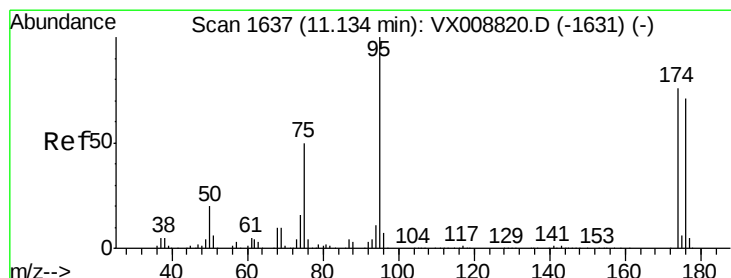
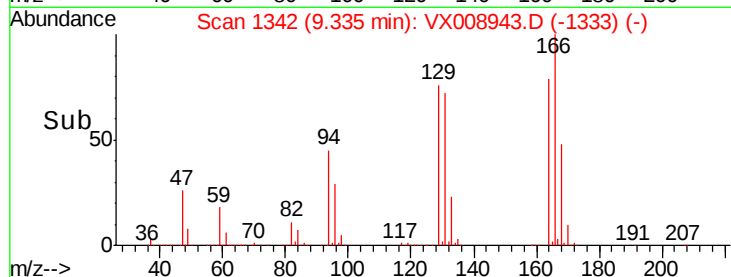
Tot Ion:129 Resp: 1067841
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

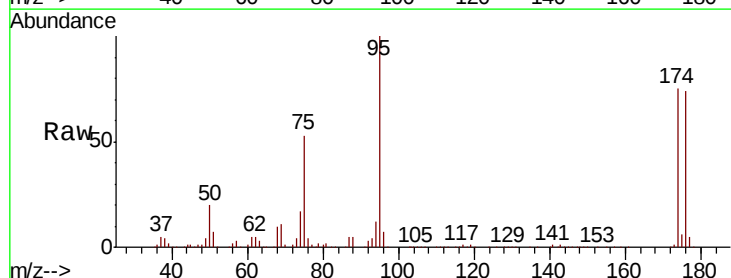


Time-->

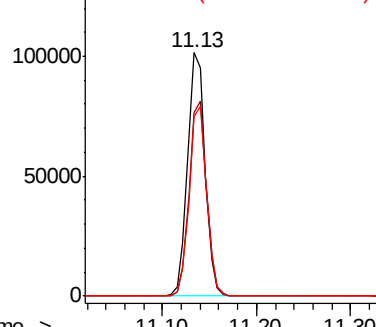


#62
 4-Bromofluorobenzene
 Concen: 45.247 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

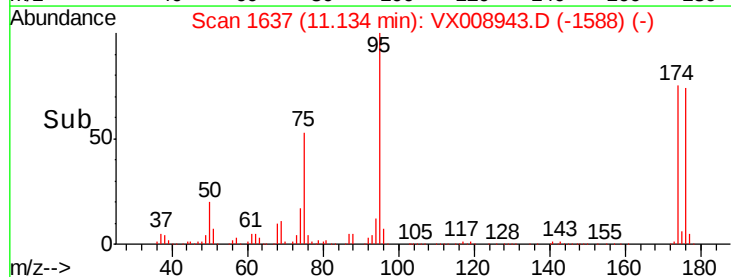
Tgt Ion: 95 Resp: 131095
 Ion Ratio Lower Upper
 95 100
 174 79.9 0.0 151.8
 176 77.8 0.0 145.8

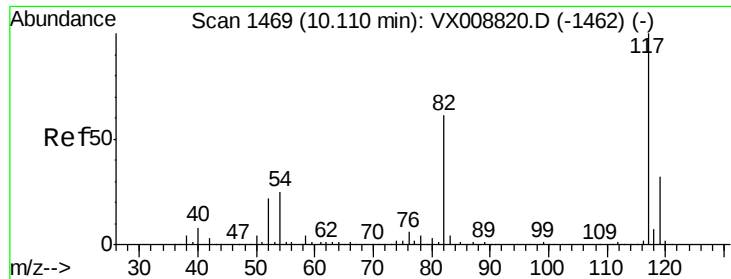


Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V



Time-->

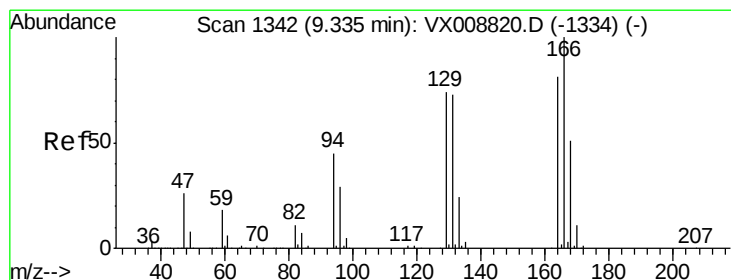
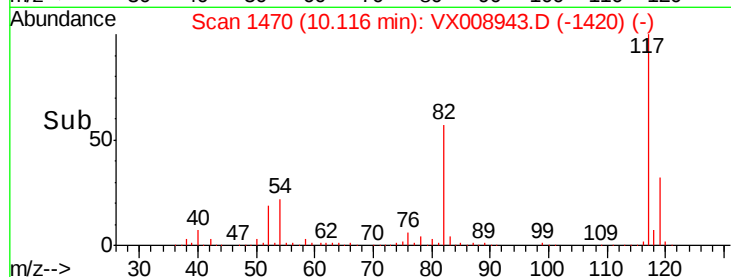
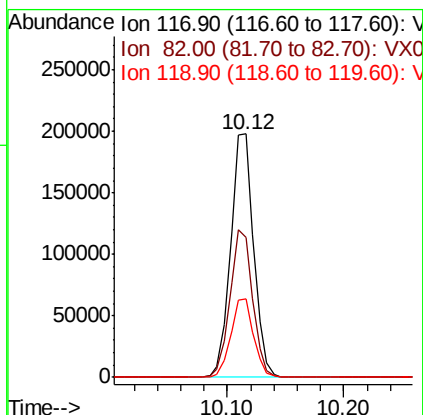
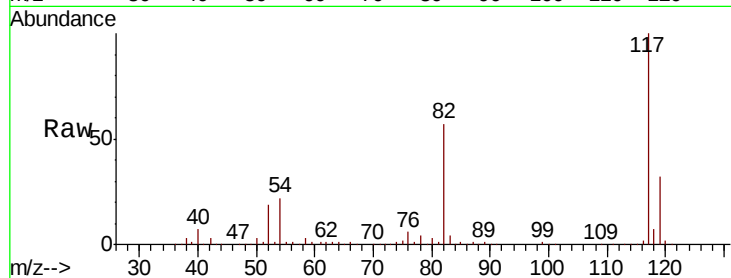




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008943.D
Acq: 13 Apr 2019 19:39

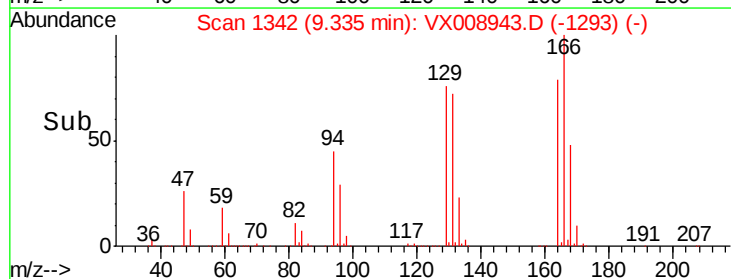
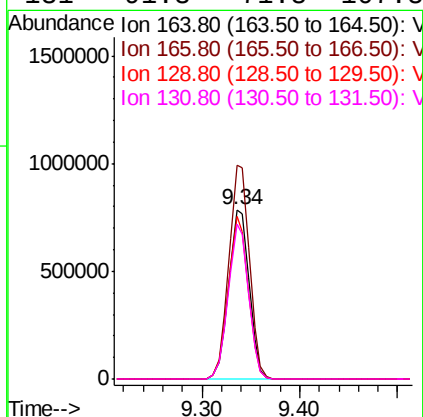
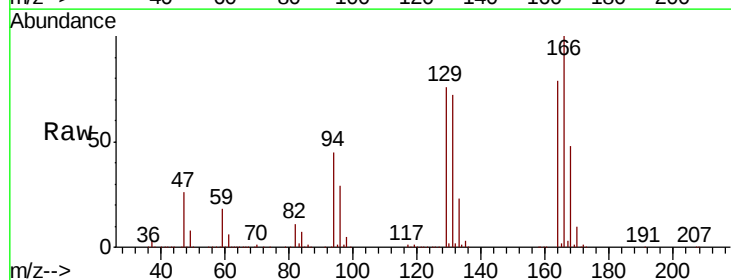
Instrument :
MSVOA_X
ClientSampled :

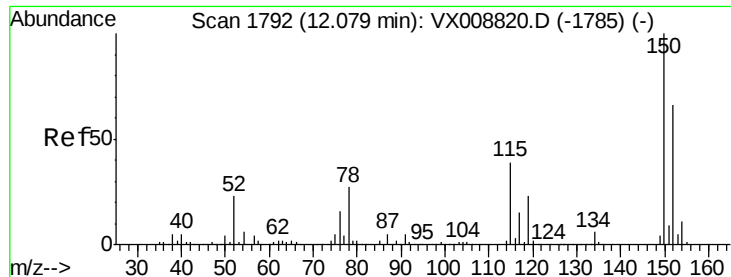
Tot Ion:117 Resp: 272823
Ion Ratio Lower Upper
117 100
82 57.3 49.6 74.4
119 32.2 25.0 37.4



#64
Tetrachloroethene
Concen: 564.796 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008943.D
Acq: 13 Apr 2019 19:39

Tgt Ion:164 Resp: 1141641
Ion Ratio Lower Upper
164 100
166 126.1 101.0 151.6
129 96.0 75.8 113.8
131 91.3 71.8 107.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008943.D

Acq: 13 Apr 2019 19:39

Instrument :

MSVOA_X

ClientSampleId :

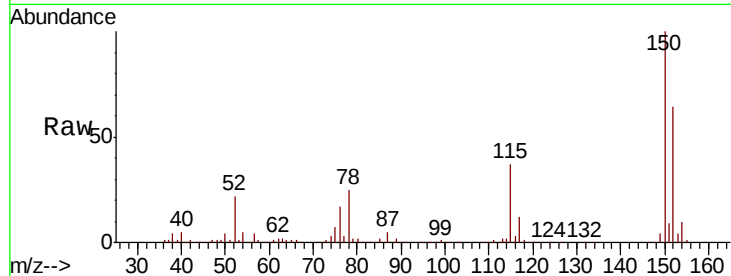
Tot Ion:152 Resp: 117398

Ion Ratio Lower Upper

152 100

115 59.5 43.5 130.5

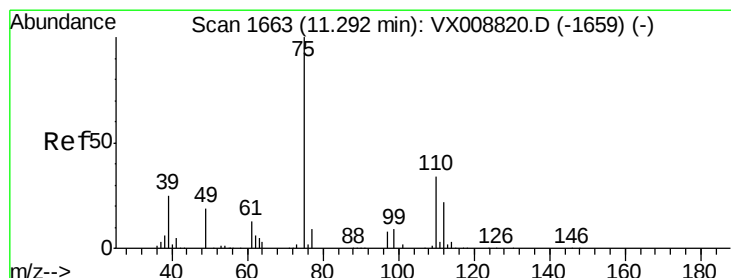
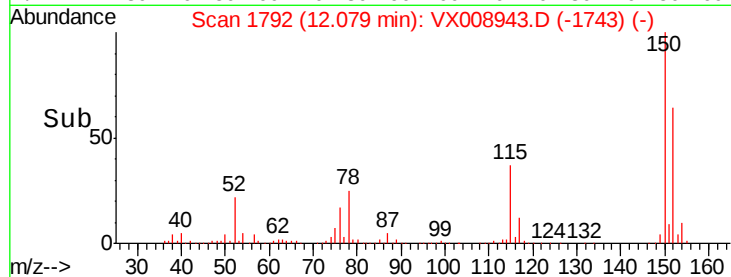
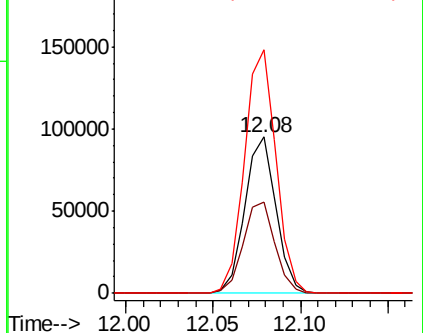
150 158.0 0.0 348.8



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: 20.800 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008943.D

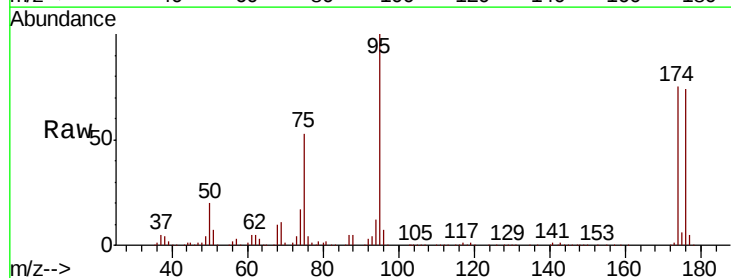
Acq: 13 Apr 2019 19:39

Tgt Ion: 75 Resp: 67080

Ion Ratio Lower Upper

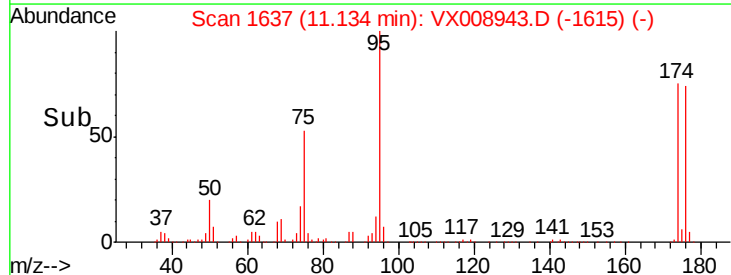
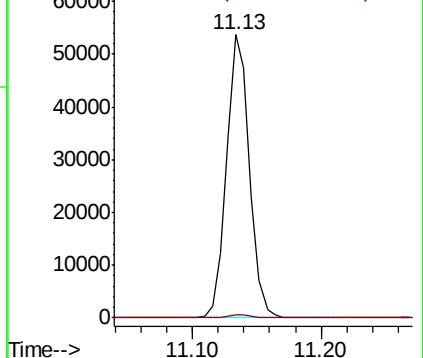
75 100

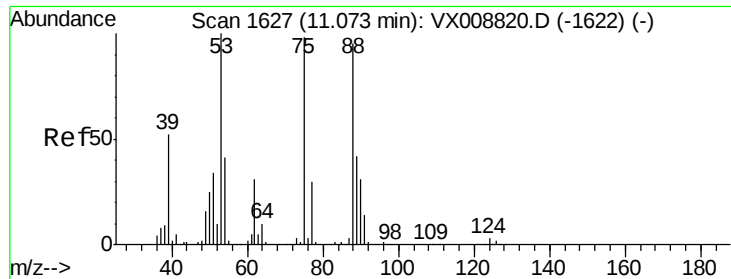
77 1.3 22.3 66.8#



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: 57.336 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008943.D
 Acq: 13 Apr 2019 19:39

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 67080
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.3 121.9#
 89 0.0 35.6 53.4#

