

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100418\
 Data File : VX005029.D
 Acq On : 04 Oct 2018 20:02
 Operator : JC/MD
 Sample : J5207-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 05 03:23:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	224324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	368987	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353408	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	186560	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	166860	52.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.14%	
35) Dibromofluoromethane	5.51	113	143036	45.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.48%	
50) Toluene-d8	8.72	98	526508	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
62) 4-Bromofluorobenzene	11.14	95	185951	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.65	94	565	0.274	ug/l	98
6) Chloroethane	1.72	64	72	Below Cal	#	45
11) Tert butyl alcohol	3.03	59	6312	7.045	ug/l #	72
13) Acrolein	2.28	56	128	0.201	ug/l #	1
14) Allyl chloride	2.62	41	5167	0.974	ug/l #	54
16) Acetone	2.45	43	4198	2.244	ug/l	96
17) Carbon Disulfide	2.57	76	1880	0.257	ug/l #	94
18) Methyl Acetate	2.78	43	1585	0.334	ug/l #	83
20) Methylene Chloride	2.87	84	623	Below Cal	#	70
26) 2,2-Dichloropropane	4.77	77	1177	0.317	ug/l #	50
31) Cyclohexane	5.67	56	4281	1.050	ug/l #	4
36) 1,1-Dichloropropene	5.67	75	15198	3.562	ug/l #	47
38) Carbon Tetrachloride	5.67	117	19904	4.438	ug/l #	17
56) Ethyl methacrylate	9.16	69	20	2.866	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.20	63	21	14.249	ug/l #	49
70) Styrene	10.72	104	101	2.150	ug/l #	54
74) N-amyl acetate	10.91	43	116	1.765	ug/l #	70
76) 1,2,3-Trichloropropane	11.14	75	89775	21.470	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	469	Below Cal		87
81) trans-1,4-Dichloro-2-buten	11.14	75	89775	58.216	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1221	Below Cal		94
95) Naphthalene	13.84	128	3677	0.953	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005029.D

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Instrument :

MSVOA_X

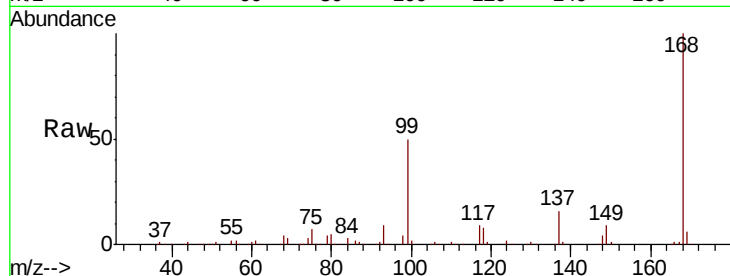
ClientSampleId :

Tot Ion:168 Resp: 224324

Ion Ratio Lower Upper

168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): VX004724.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX004724.D (-727) (-)

5.67

80000

60000

40000

20000

0

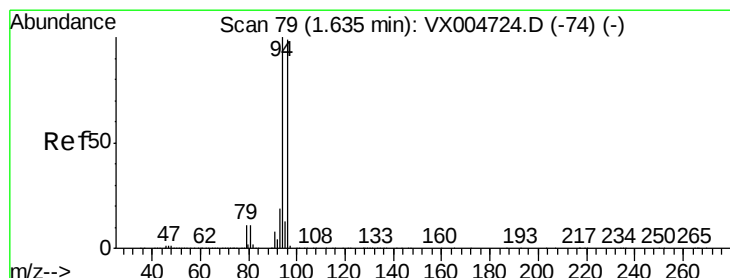
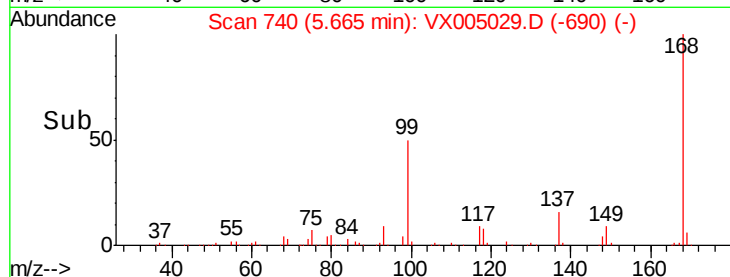
Time-->

5.50

5.60

5.70

5.80



#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005029.D

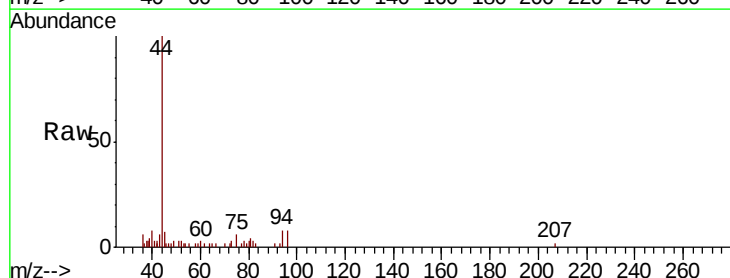
Acq: 04 Oct 2018 20:02

Tgt Ion: 94 Resp: 565

Ion Ratio Lower Upper

94 100

96 97.1 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX004724.D (-74) (-)

Ion 95.90 (95.60 to 96.60): VX004724.D (-74) (-)

1.65

250

200

150

100

50

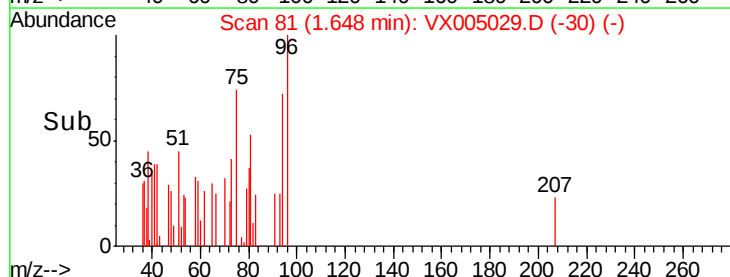
0

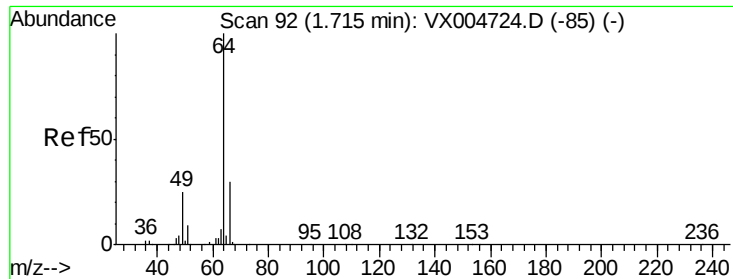
Time-->

1.60

1.65

1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

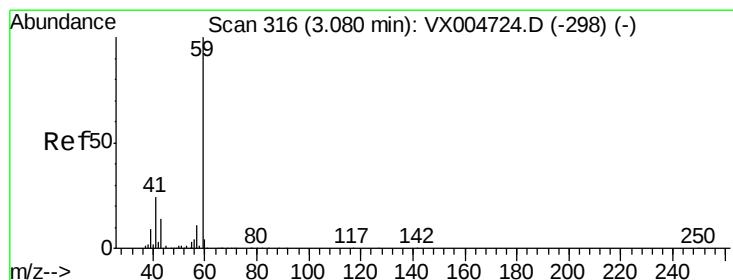
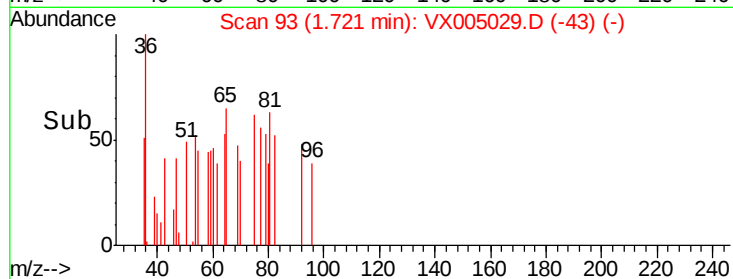
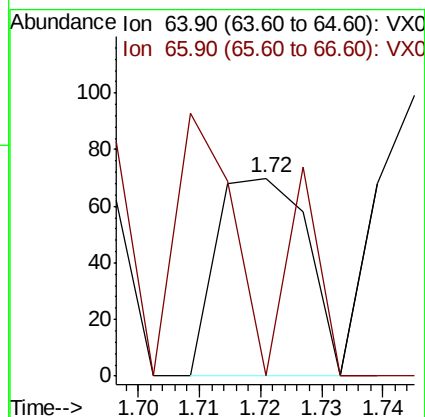
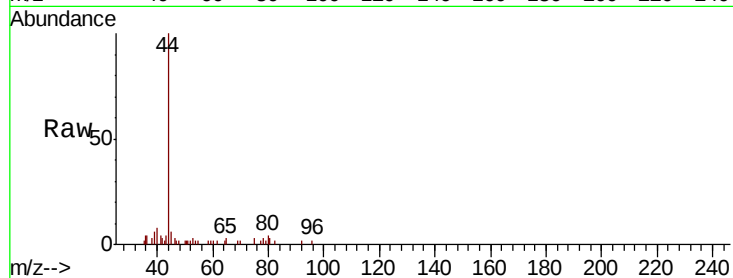
ClientSampled :

Tot Ion: 64 Resp: 72

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



#11

Tert butyl alcohol

Concen: 7.045 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005029.D

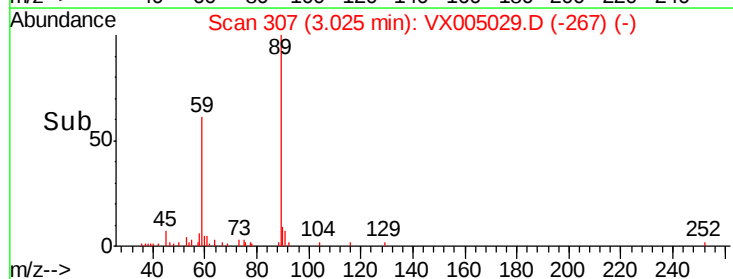
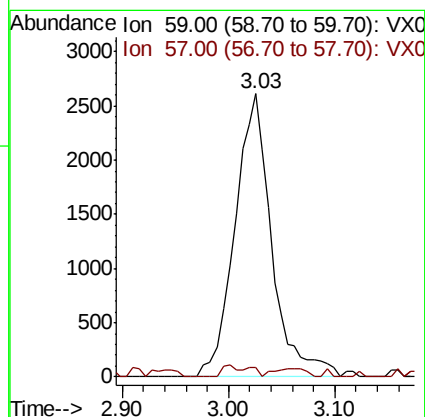
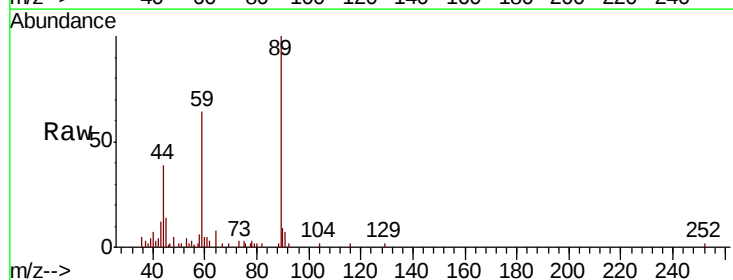
Acq: 04 Oct 2018 20:02

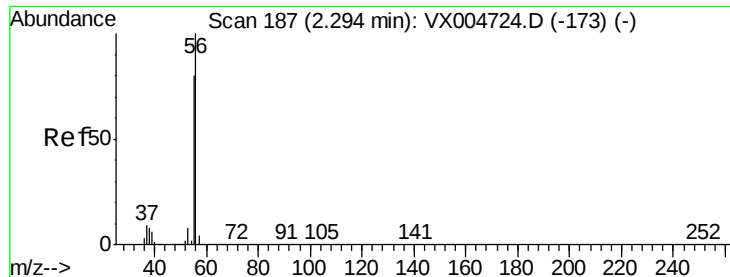
Tgt Ion: 59 Resp: 6312

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

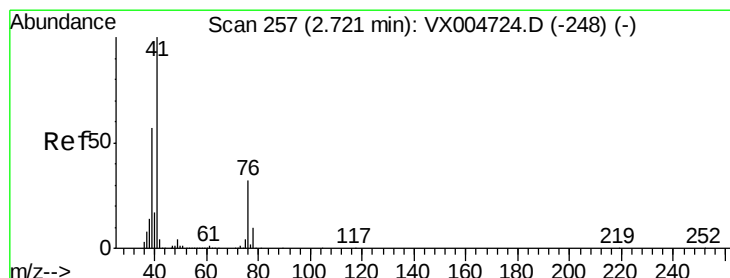
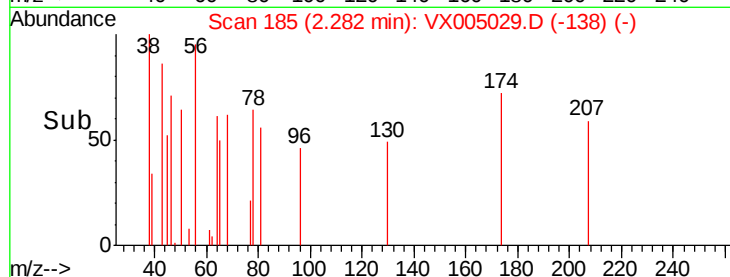
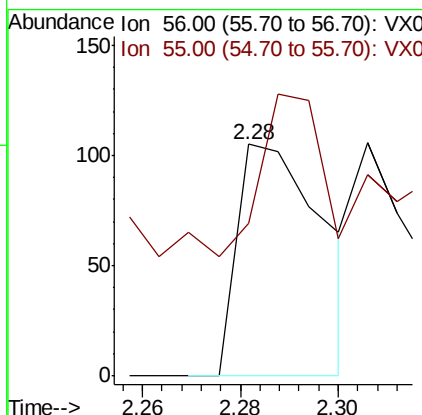
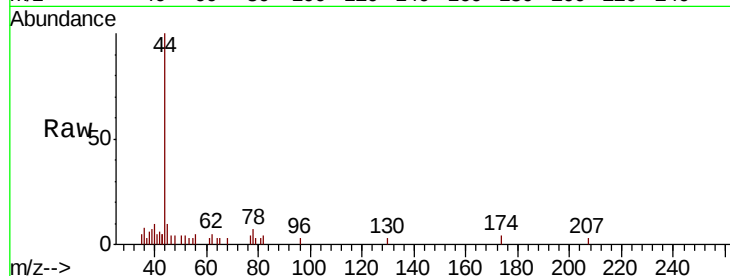




#13
Acrolein
Concen: 0.201 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

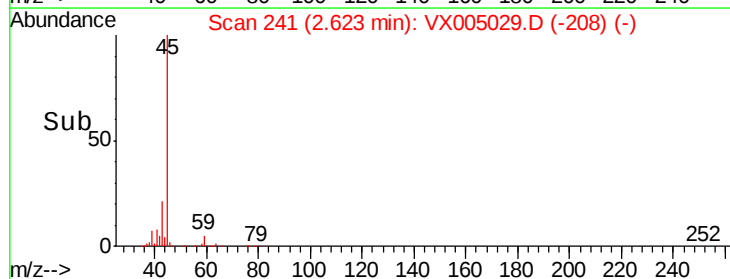
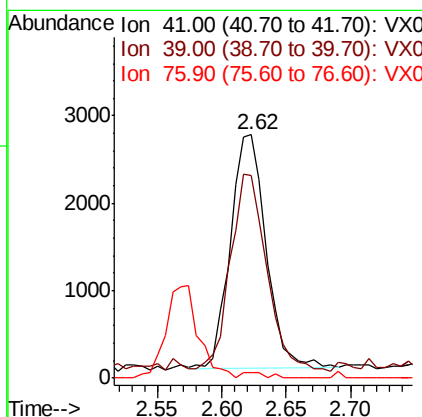
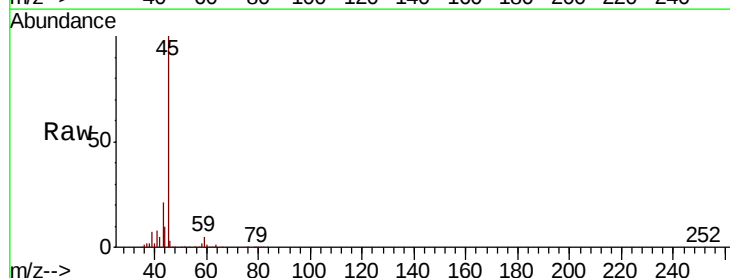
Instrument :
MSVOA_X
ClientSampled :

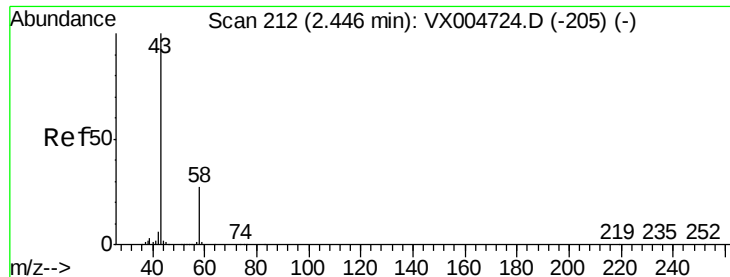
Tot Ion: 56 Resp: 128
Ion Ratio Lower Upper
56 100
55 222.7 63.4 95.2#



#14
Allyl chloride
Concen: 0.974 ug/l
RT: 2.62 min Scan# 241
Delta R.T. -0.10 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

Tgt Ion: 41 Resp: 5167
Ion Ratio Lower Upper
41 100
39 85.7 44.1 66.1#
76 1.8 25.0 37.4#





#16

Acetone

Concen: 2.244 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

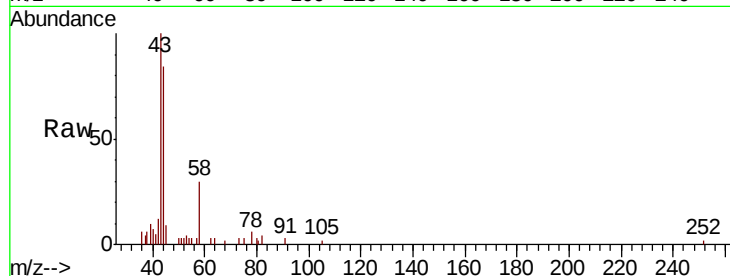
ClientSampleId :

Tot Ion: 43 Resp: 4198

Ion Ratio Lower Upper

43 100

58 29.3 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

2500

2000

1500

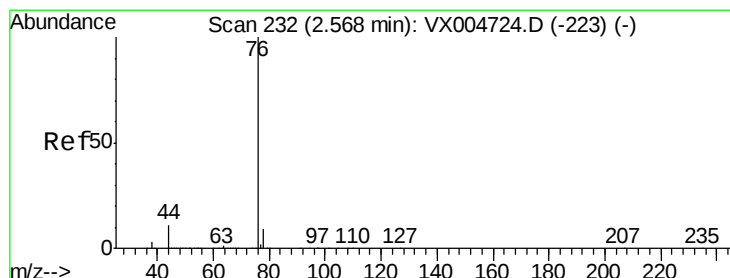
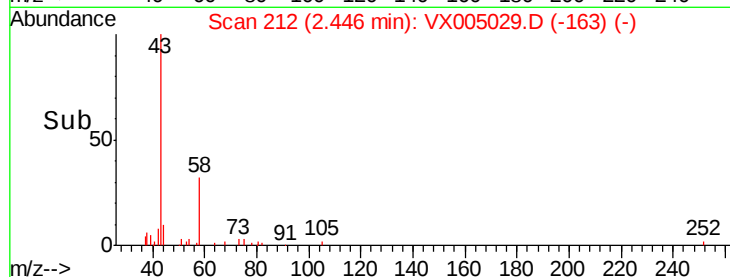
1000

500

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.257 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005029.D

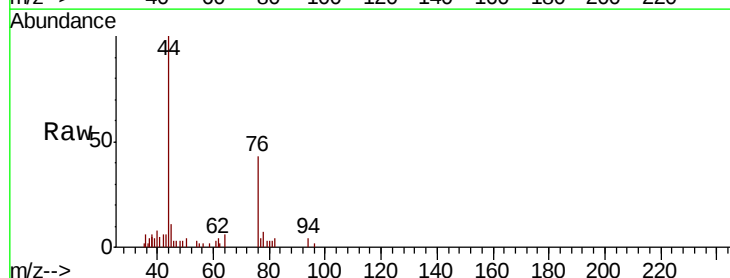
Acq: 04 Oct 2018 20:02

Tgt Ion: 76 Resp: 1880

Ion Ratio Lower Upper

76 100

78 10.8 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1200

1000

800

600

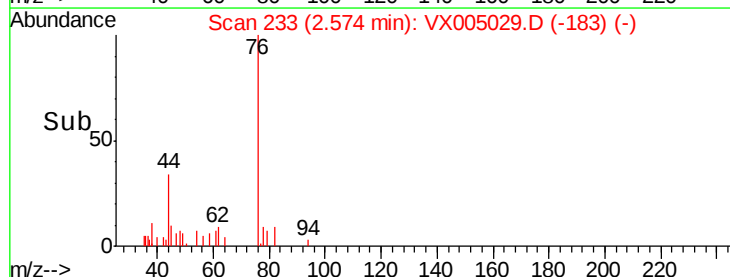
400

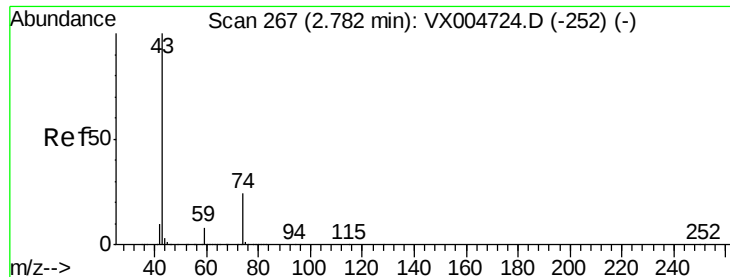
200

0

Time-->

2.50 2.55 2.60

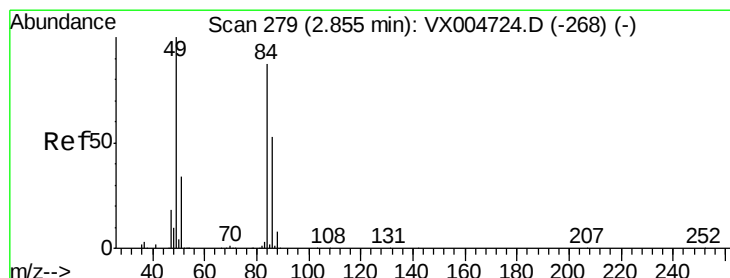
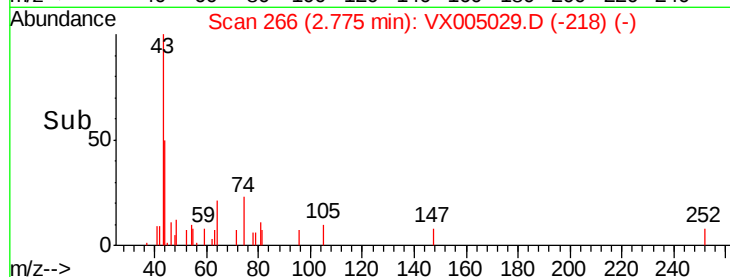
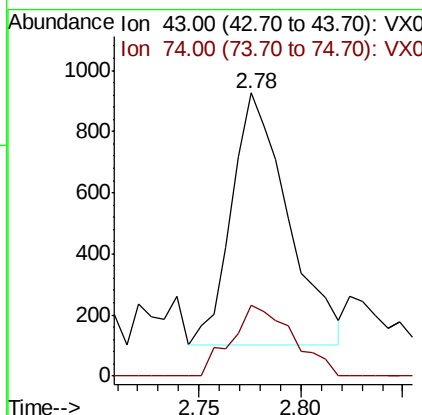
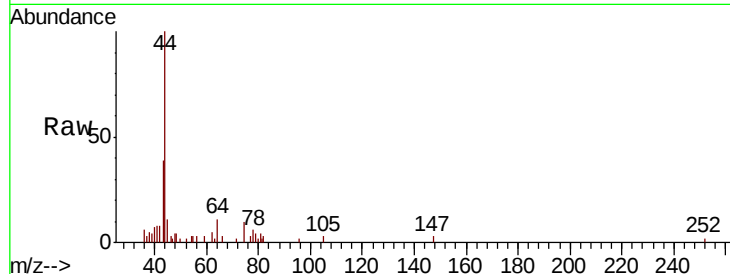




#18
Methyl Acetate
Concen: 0.334 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

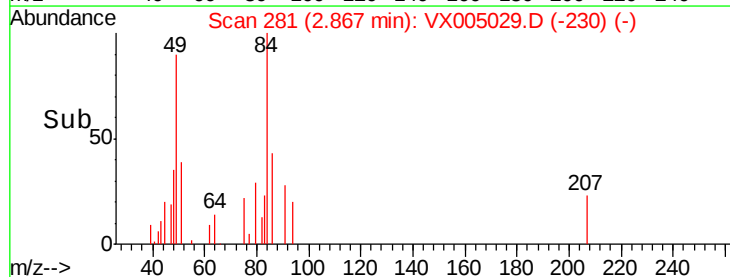
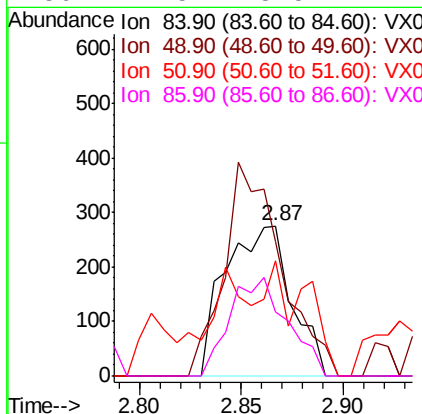
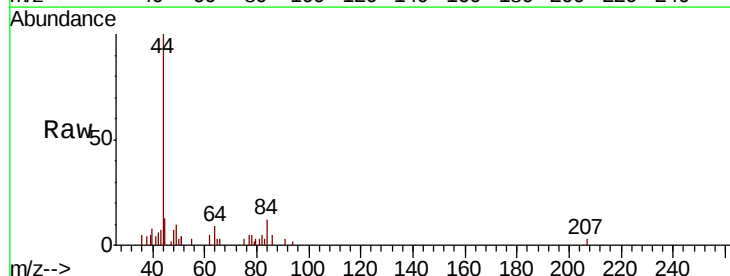
Instrument :
MSVOA_X
ClientSampled :

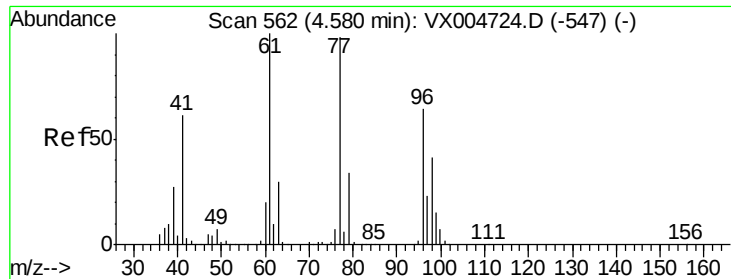
Tot Ion: 43 Resp: 1585
Ion Ratio Lower Upper
43 100
74 30.7 17.8 26.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

Tgt Ion: 84 Resp: 623
Ion Ratio Lower Upper
84 100
49 89.8 92.3 138.5#
51 77.1 31.8 47.6#
86 42.5 48.5 72.7#





#26

2,2-Dichloropropane

Concen: 0.317 ug/l

RT: 4.77 min Scan# 593

Delta R.T. 0.19 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

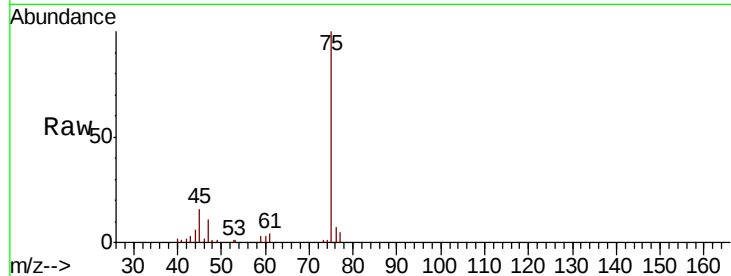
ClientSampleId :

Tot Ion: 77 Resp: 1177

Ion Ratio Lower Upper

77 100

97 0.0 12.6 37.8#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.77

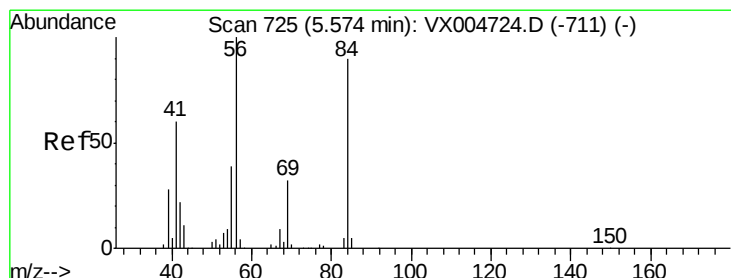
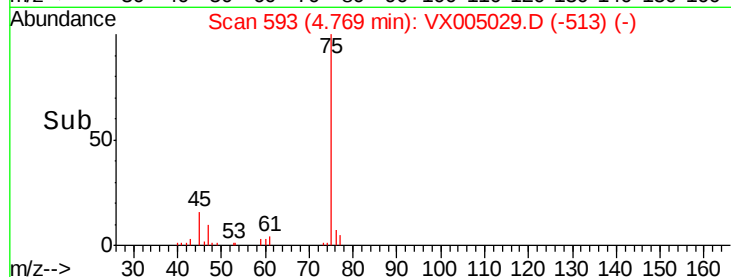
300

200

100

0

Time--> 4.65 4.70 4.75 4.80 4.85



#31

Cyclohexane

Concen: 1.050 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

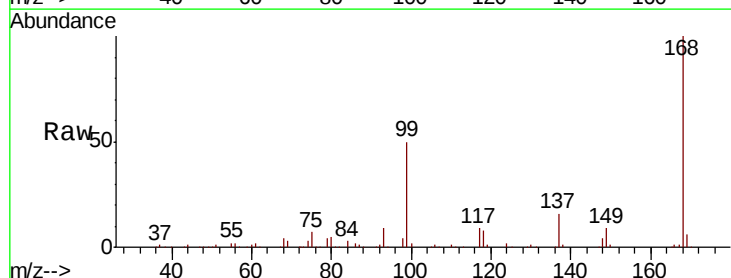
Tgt Ion: 56 Resp: 4281

Ion Ratio Lower Upper

56 100

69 159.2 25.9 38.9#

84 135.7 71.9 107.9#



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

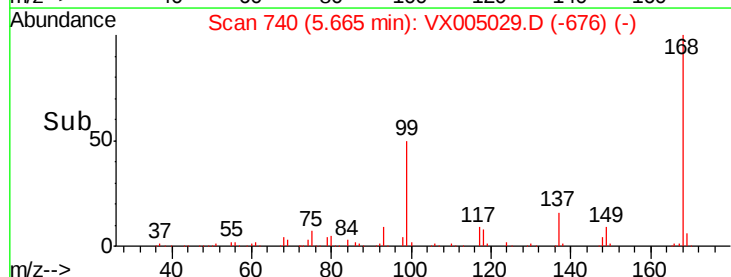
3000

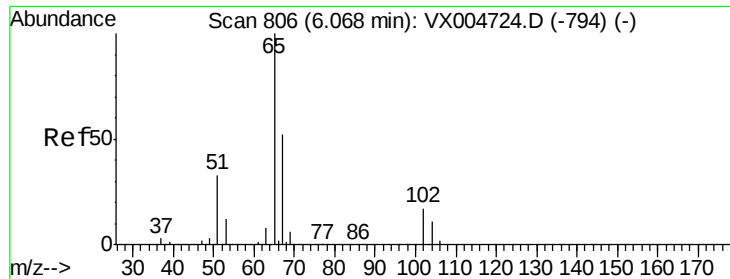
2000

1000

0

Time--> 5.60 5.67 5.70 5.80





#33

1,2-Dichloroethane-d4

Concen: 52.071 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

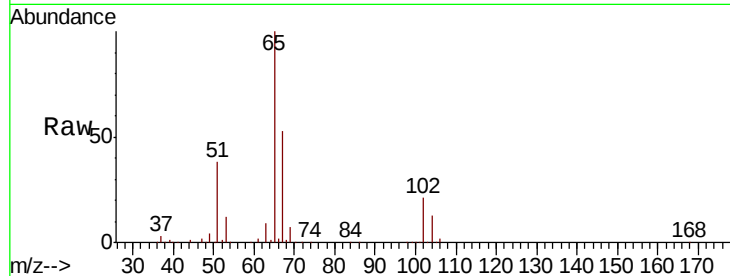
ClientSampleId :

Tot Ion: 65 Resp: 166860

Ion Ratio Lower Upper

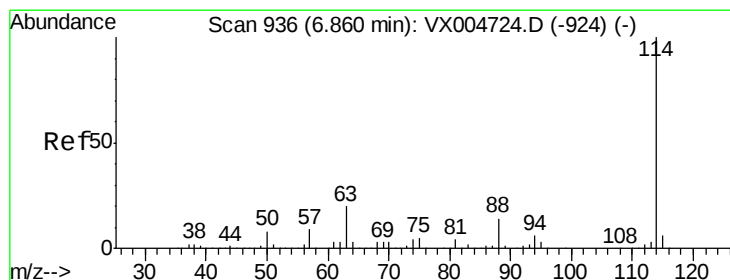
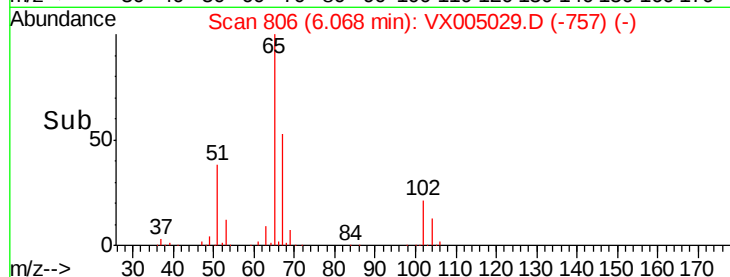
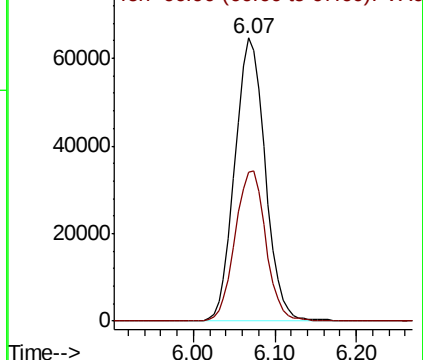
65 100

67 53.8 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

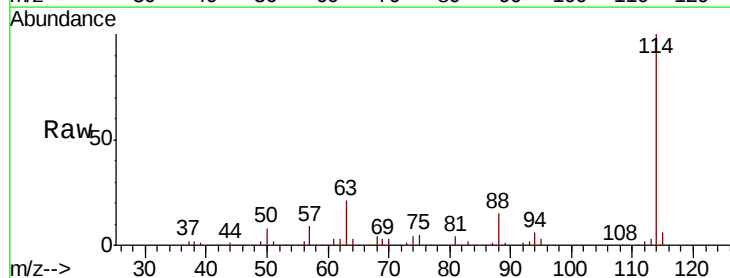
Tgt Ion: 114 Resp: 368987

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.8

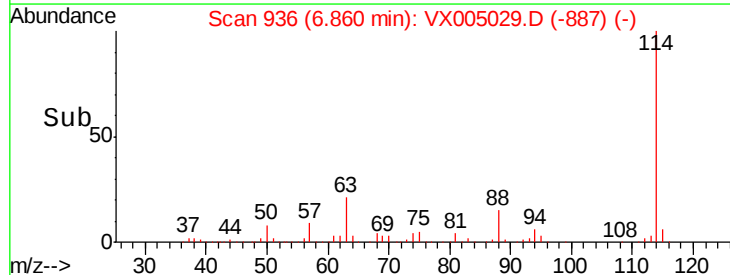
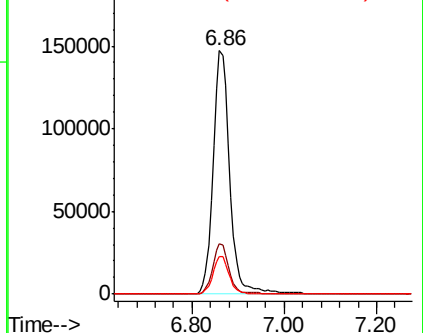
88 15.4 0.0 27.0

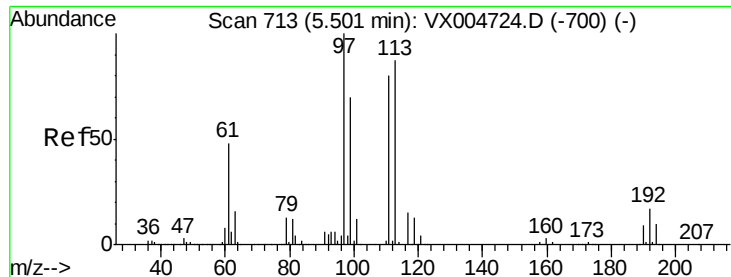


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

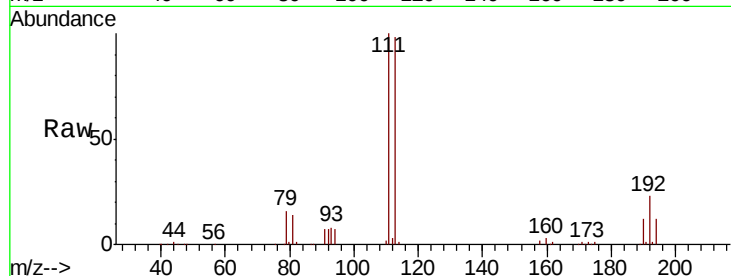




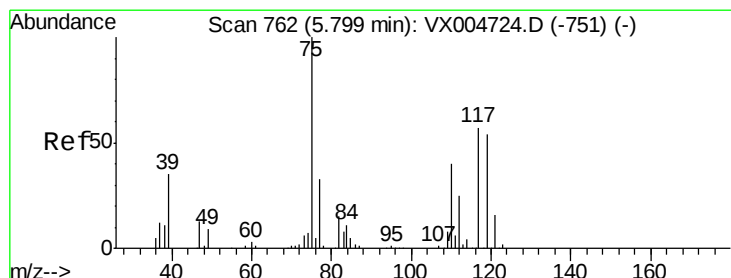
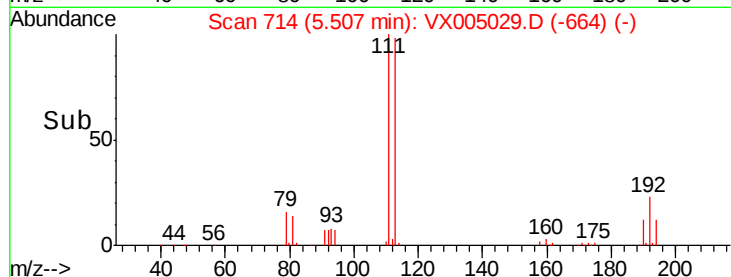
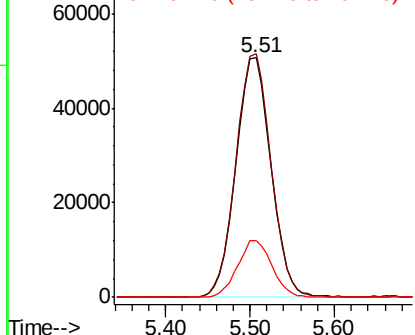
#35
 Dibromofluoromethane
 Concen: 45.739 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005029.D
 Acq: 04 Oct 2018 20:02

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:113 Resp: 143036
 Ion Ratio Lower Upper
 113 100
 111 102.1 77.0 115.4
 192 23.3 17.0 25.6

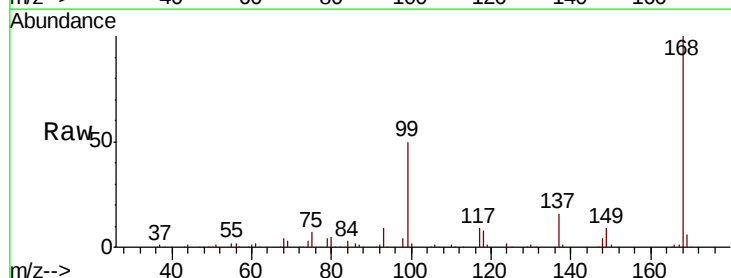


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

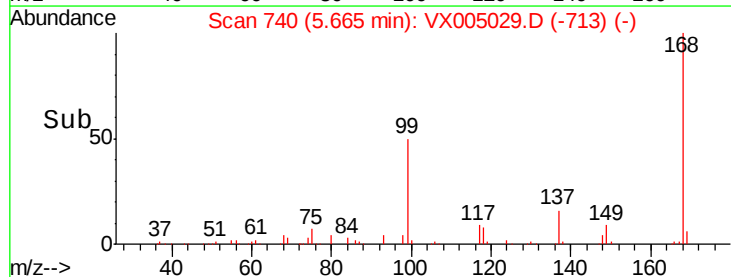
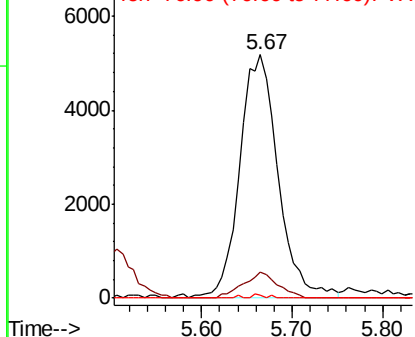


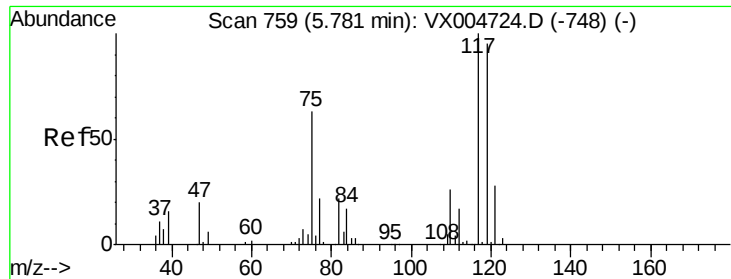
#36
 1,1-Dichloropropene
 Concen: 3.562 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005029.D
 Acq: 04 Oct 2018 20:02

Tgt Ion: 75 Resp: 15198
 Ion Ratio Lower Upper
 75 100
 110 9.7 20.0 59.9#
 77 0.5 27.1 40.7#



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

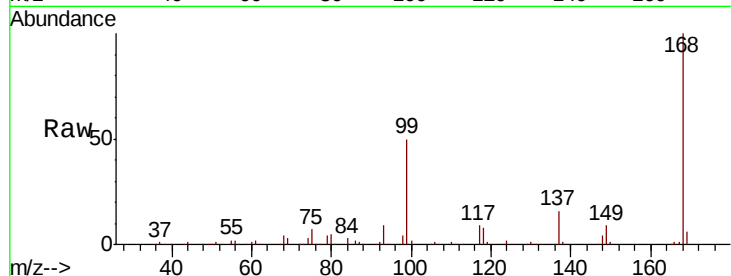




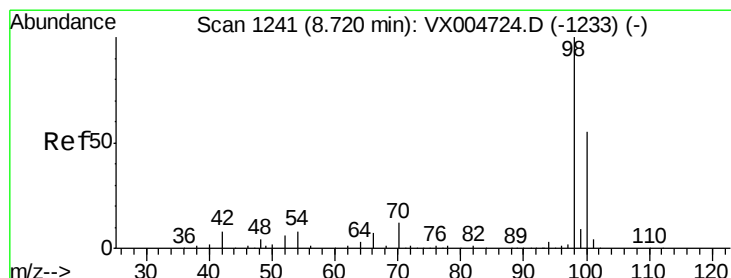
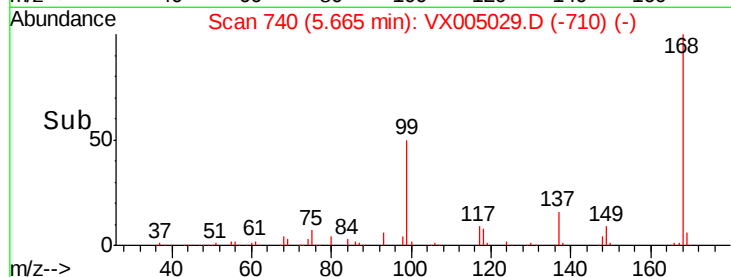
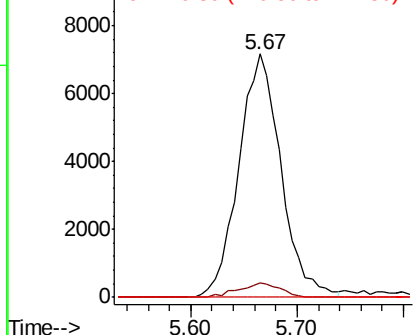
#38
Carbon Tetrachloride
Concen: 4.438 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 19904
Ion Ratio Lower Upper
117 100
119 5.8 75.2 112.8#
121 0.0 22.5 33.7#

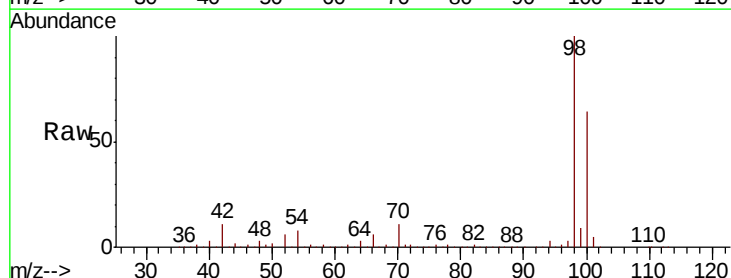


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

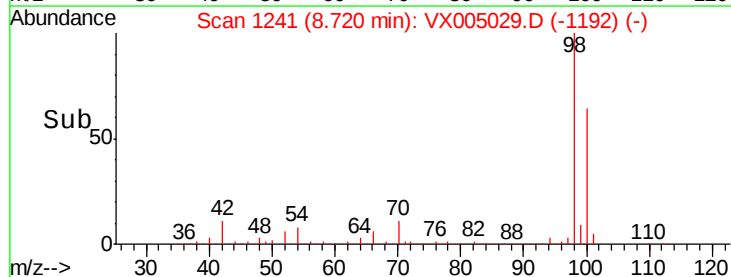
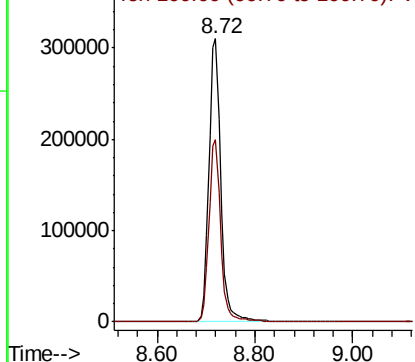


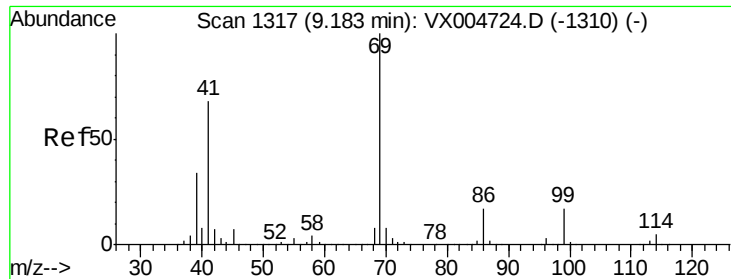
#50
Toluene-d8
Concen: 50.643 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

Tgt Ion: 98 Resp: 526508
Ion Ratio Lower Upper
98 100
100 63.7 51.9 77.9



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





#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.16 min Scan# 1313

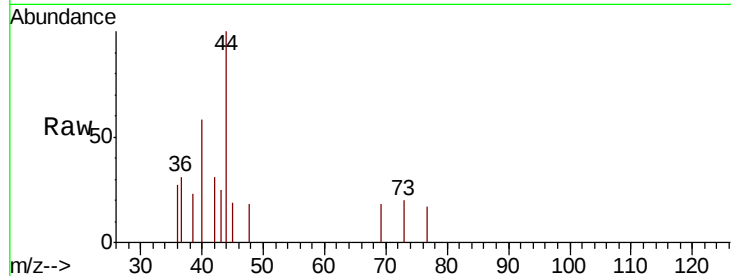
Delta R.T. -0.02 min

Lab File: VX005029.D

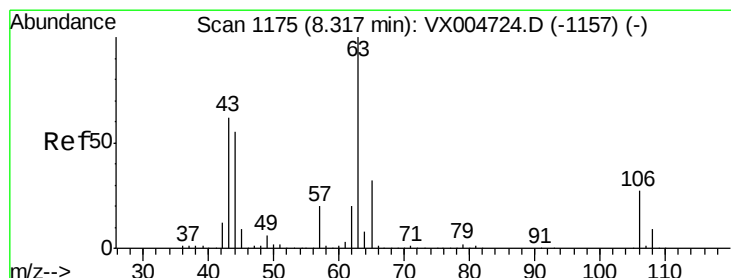
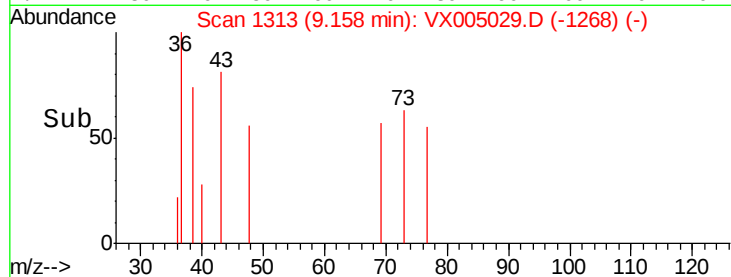
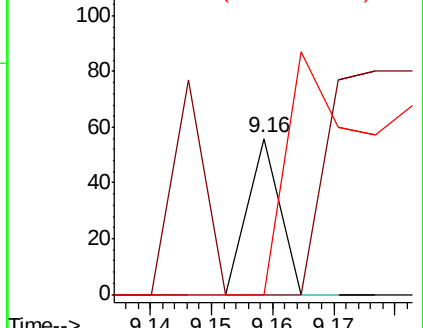
Acq: 04 Oct 2018 20:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	69	Resp:	20
Ion	Ratio	Lower	Upper
69	100		
41	435.0	56.9	85.3#
39	695.0	28.4	42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.249 ug/l

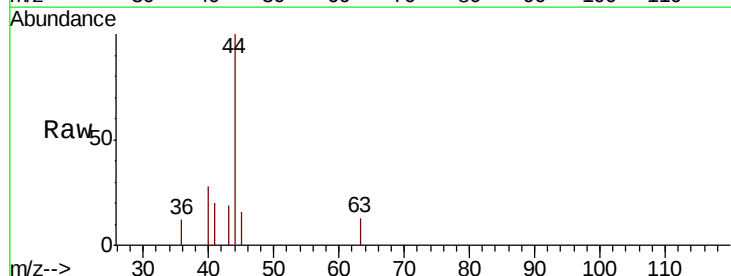
RT: 8.20 min Scan# 1156

Delta R.T. -0.12 min

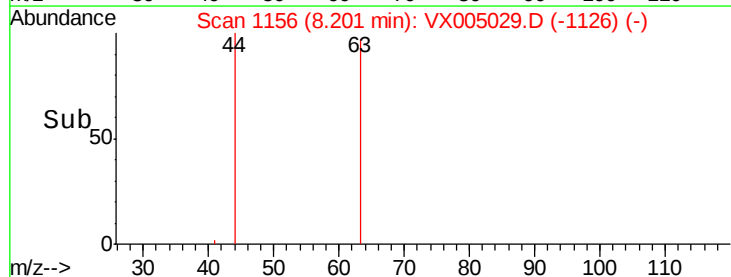
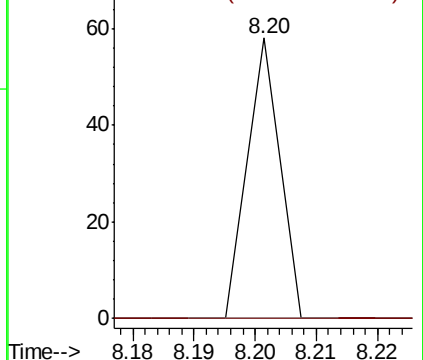
Lab File: VX005029.D

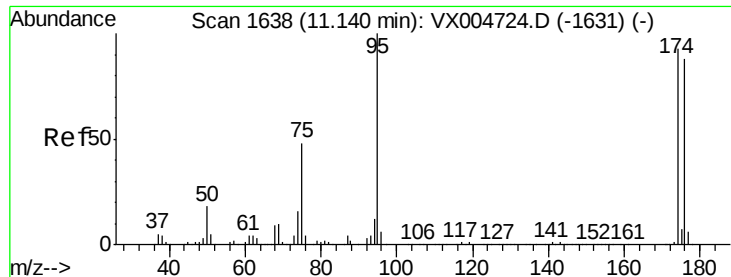
Acq: 04 Oct 2018 20:02

Tgt Ion:	63	Resp:	21
Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.0	31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 49.648 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

ClientSampleId :

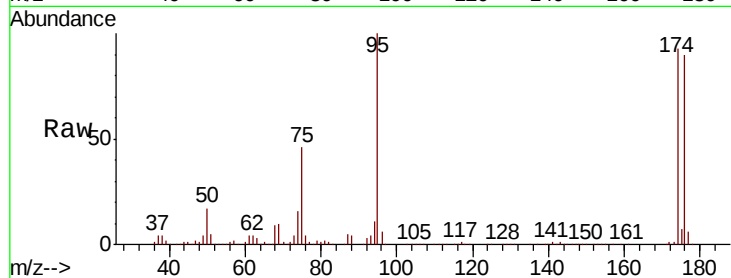
Tot Ion: 95 Resp: 185951

Ion Ratio Lower Upper

95 100

174 91.9 0.0 185.0

176 88.8 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX005029.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005029.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005029.D (-1589) (-)

11.14

150000

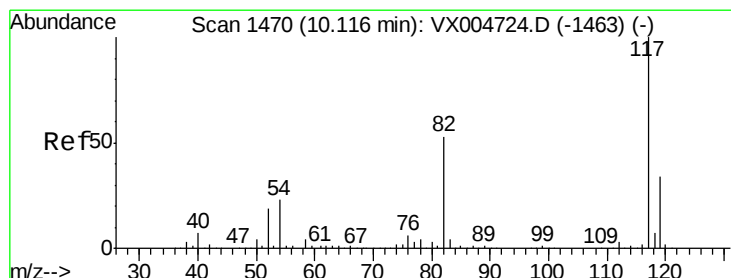
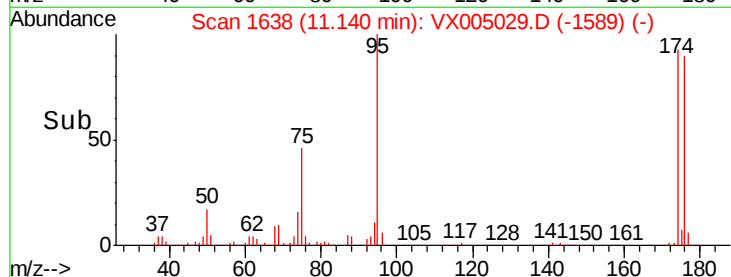
100000

50000

0

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

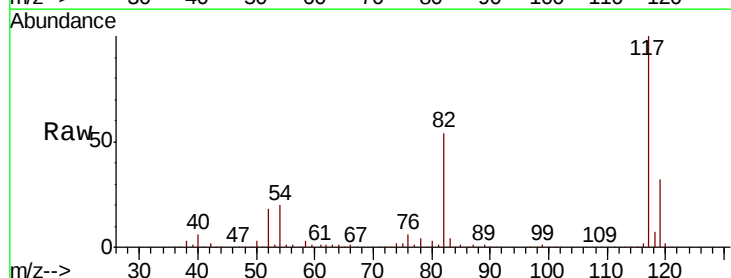
Tgt Ion: 117 Resp: 353408

Ion Ratio Lower Upper

117 100

82 54.4 42.2 63.4

119 32.2 27.4 41.0



Abundance Ion 116.90 (116.60 to 117.60): VX005029.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005029.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005029.D (-1421) (-)

10.12

300000

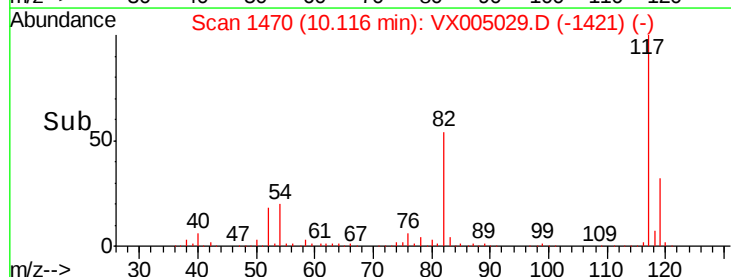
200000

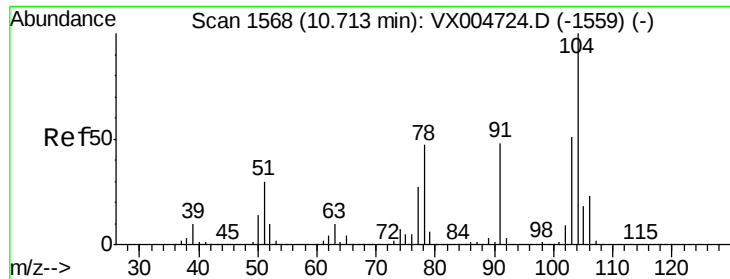
100000

0

Time-->

10.00 10.20

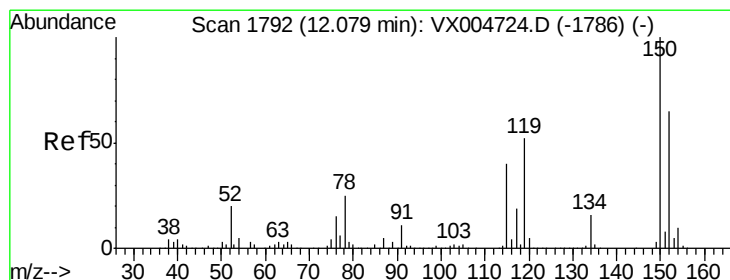
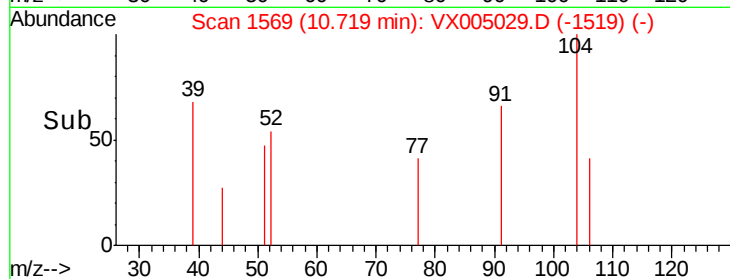
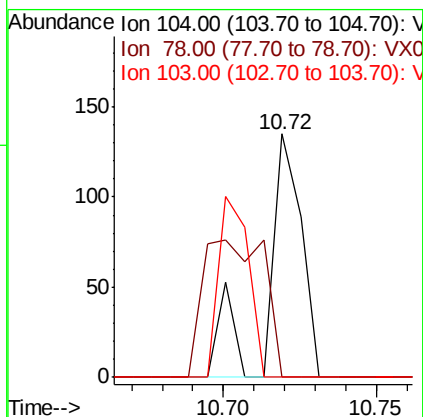
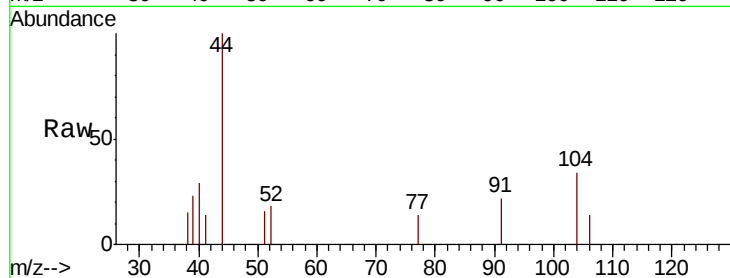




#70
Stvrene
Concen: 2.150 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

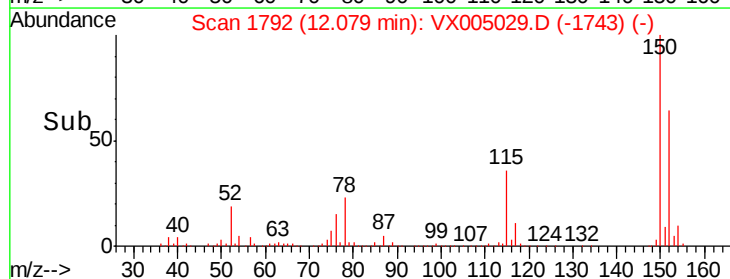
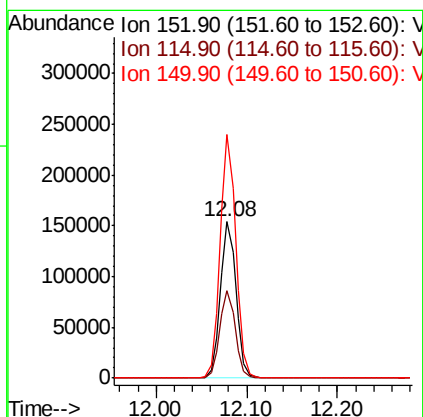
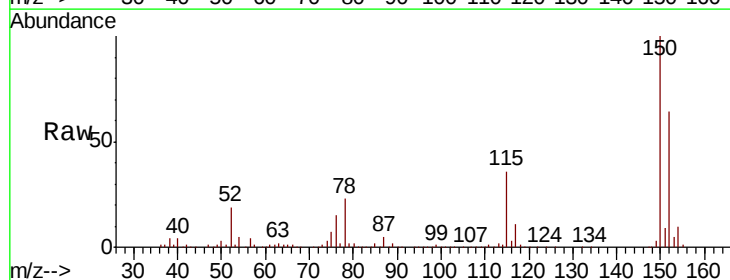
Instrument :
MSVOA_X
ClientSampled :

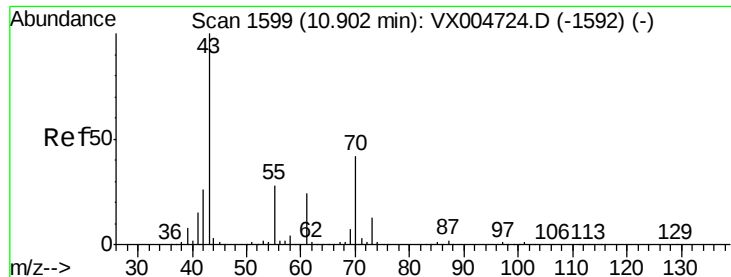
Tot Ion:104 Resp: 101
Ion Ratio Lower Upper
104 100
78 105.0 40.0 60.0#
103 66.3 44.3 66.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005029.D
Acq: 04 Oct 2018 20:02

Tgt Ion:152 Resp: 186560
Ion Ratio Lower Upper
152 100
115 55.5 40.2 120.6
150 155.0 0.0 351.0





#74

N-amvl acetate

Concen: 1.765 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 116

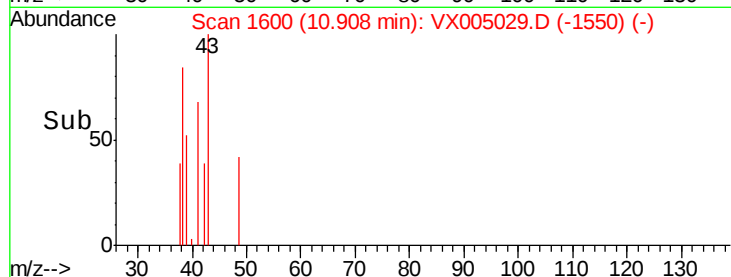
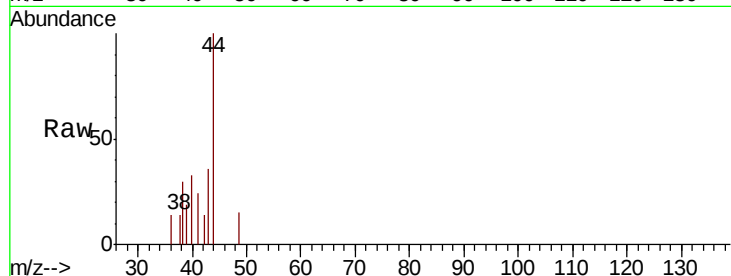
Ion Ratio Lower Upper

43 100

70 44.0 32.6 48.8

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

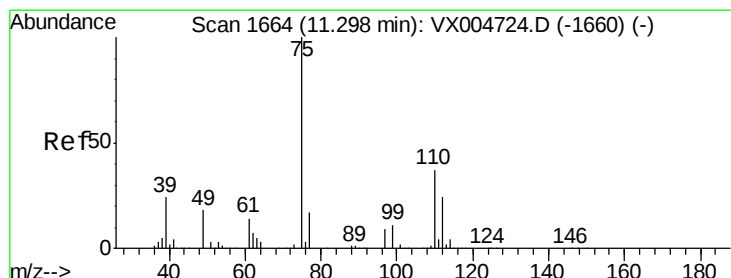
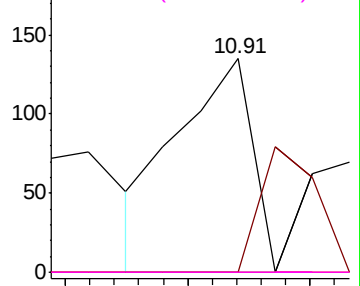


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.470 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005029.D

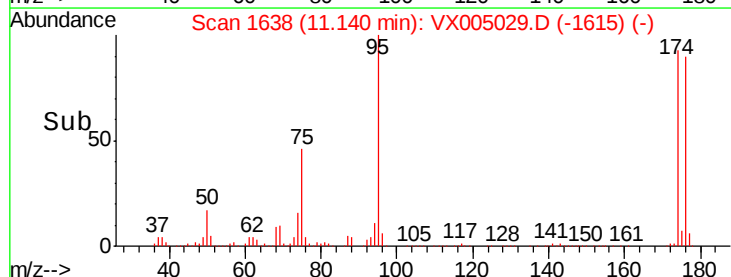
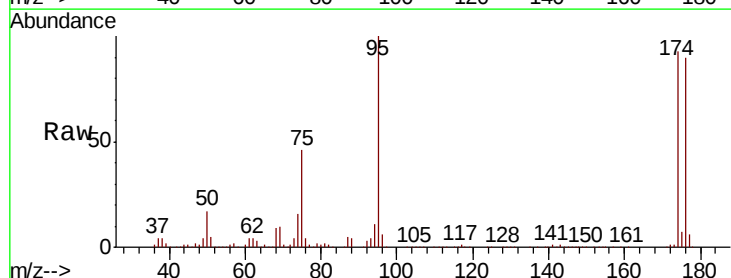
Acq: 04 Oct 2018 20:02

Tgt Ion: 75 Resp: 89775

Ion Ratio Lower Upper

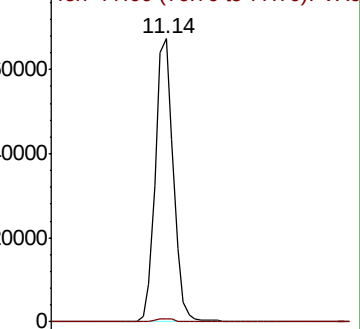
75 100

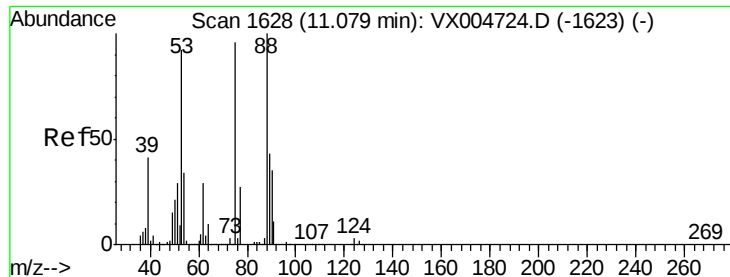
77 1.2 21.4 64.3#



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: 58.216 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

Instrument :

MSVOA_X

ClientSampleId :

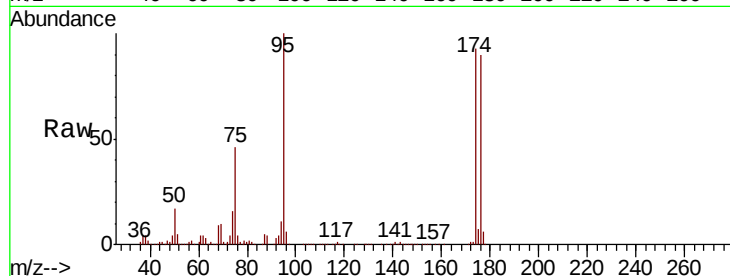
Tot Ion: 75 Resp: 89775

Ion Ratio Lower Upper

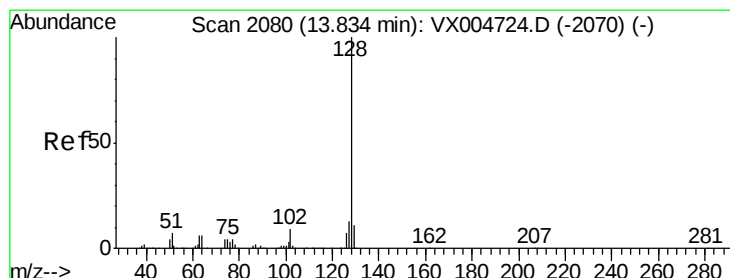
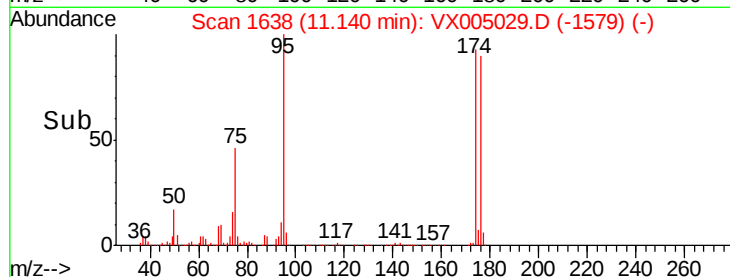
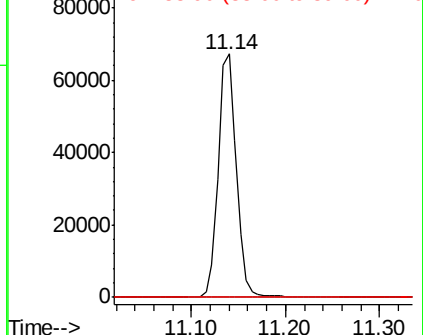
75 100

53 0.2 80.2 120.4#

89 0.0 37.1 55.7#



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



#95

Naphthalene

Concen: 0.953 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005029.D

Acq: 04 Oct 2018 20:02

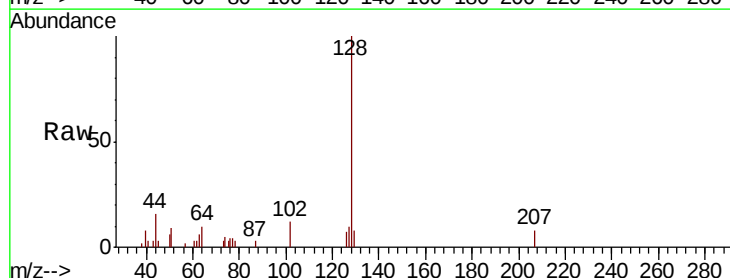
Tgt Ion: 128 Resp: 3677

Ion Ratio Lower Upper

128 100

127 12.6 10.4 15.6

129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

