

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005036.D
 Acq On : 04 Oct 2018 23:10
 Operator : JC/MD
 Sample : J5207-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 05 03:25:29 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

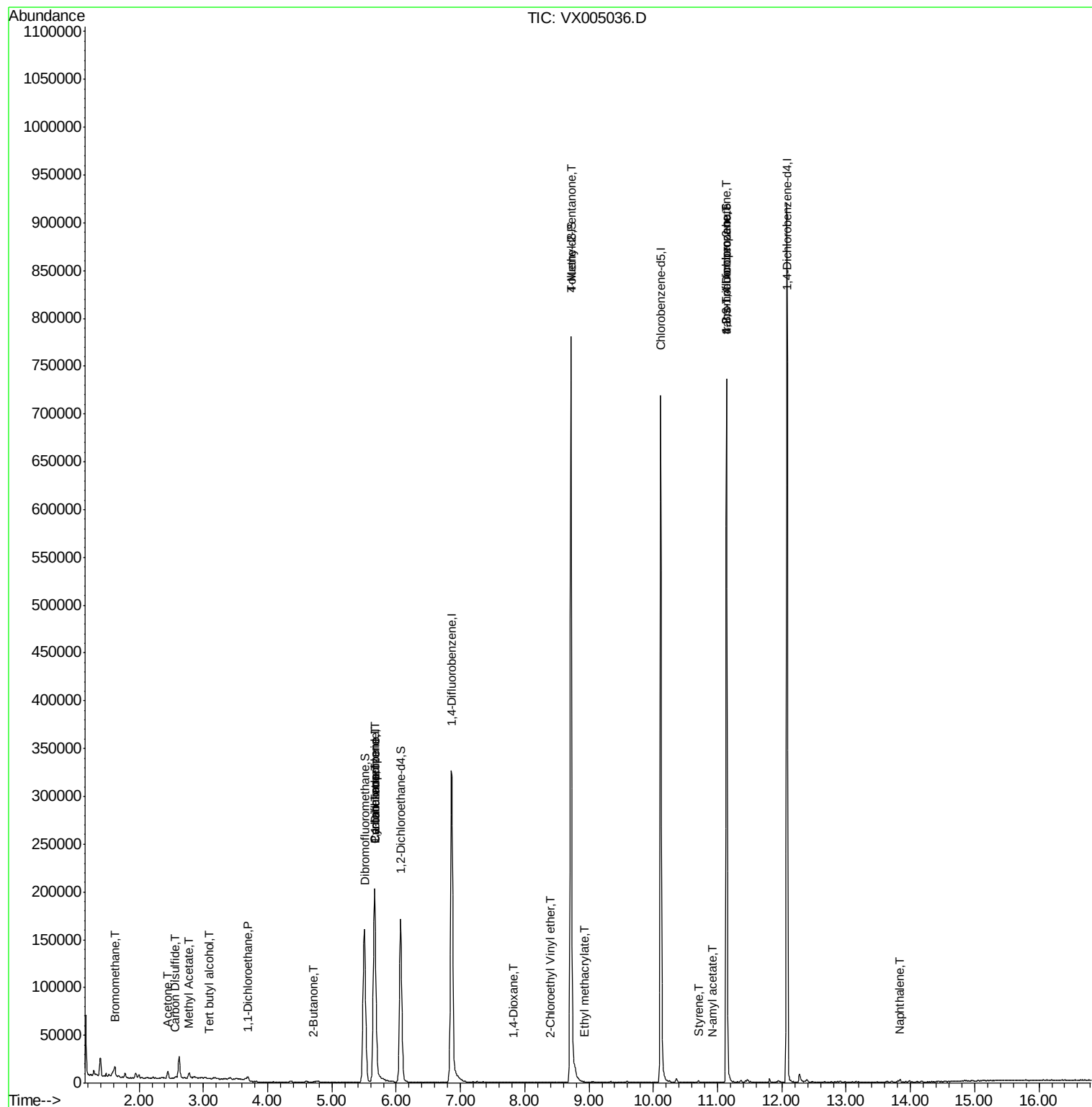
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	352798	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	344680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193145	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	163450	52.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.86%	
35) Dibromofluoromethane	5.50	113	138881	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	
50) Toluene-d8	8.72	98	502032	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
62) 4-Bromofluorobenzene	11.14	95	182823	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
Target Compounds				Qvalue		
5) Bromomethane	1.64	94	431	0.215	ug/l	92
6) Chloroethane	1.73	64	47	Below Cal	#	27
11) Tert butyl alcohol	3.08	59	348	0.399	ug/l #	72
16) Acetone	2.45	43	7545	4.146	ug/l	93
17) Carbon Disulfide	2.57	76	2297	0.323	ug/l #	94
18) Methyl Acetate	2.78	43	5762	1.250	ug/l	99
20) Methylene Chloride	2.86	84	531	Below Cal	#	81
24) 1,1-Dichloroethane	3.69	63	2522	0.487	ug/l #	84
25) 2-Butanone	4.71	43	1414	0.527	ug/l #	88
31) Cyclohexane	5.67	56	4101	1.034	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14860	3.643	ug/l #	46
38) Carbon Tetrachloride	5.67	117	18641	4.347	ug/l #	17
49) 1,4-Dioxane	7.82	88	20	0.227	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	2007	0.408	ug/l #	1
56) Ethyl methacrylate	8.93	69	45	2.871	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.40	63	21	14.250	ug/l #	49
70) Styrene	10.71	104	43	2.145	ug/l #	4
74) N-amyl acetate	10.92	43	106	1.763	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	89520	20.679	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	431	Below Cal		85
81) trans-1,4-Dichloro-2-buten	11.14	75	89520	56.144	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	1403	Below Cal		93
95) Naphthalene	13.83	128	1789	0.829	ug/l #	91

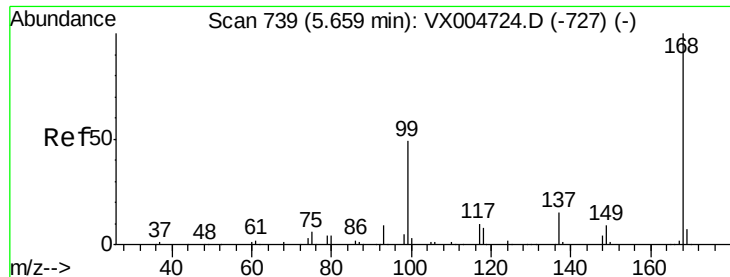
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

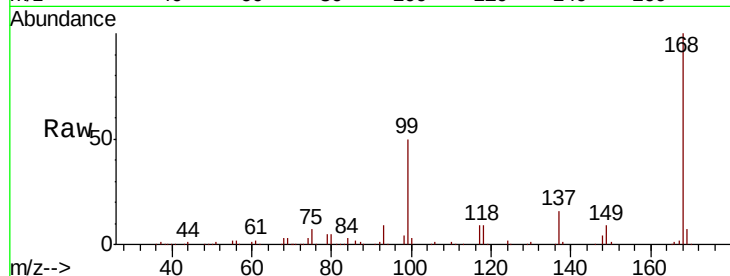
ClientSampleId :

Tot Ion:168 Resp: 218222

Ion Ratio Lower Upper

168 100

99 50.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

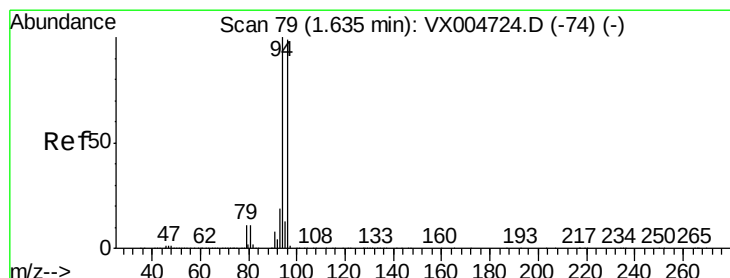
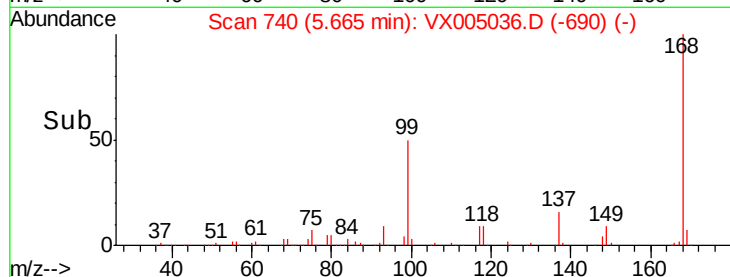
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.215 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX005036.D

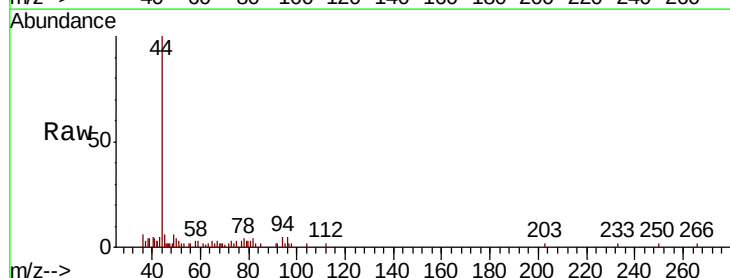
Acq: 04 Oct 2018 23:10

Tgt Ion: 94 Resp: 431

Ion Ratio Lower Upper

94 100

96 91.1 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

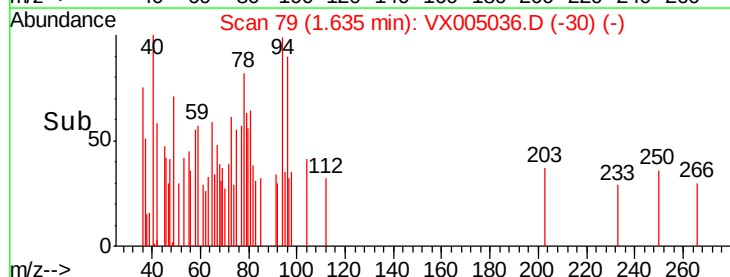
100

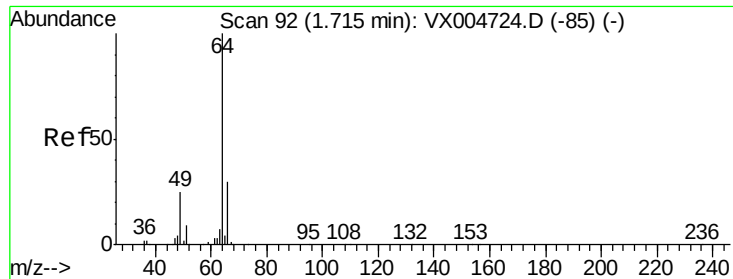
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

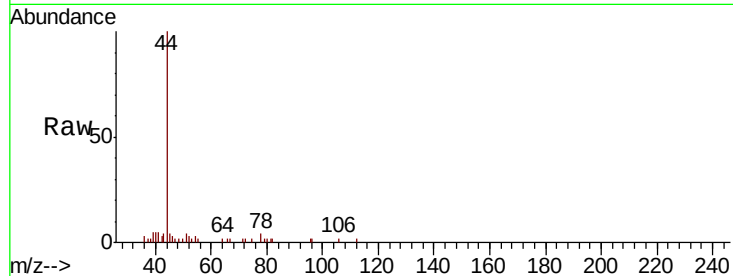
ClientSampled :

Tot Ion: 64 Resp: 47

Ion Ratio Lower Upper

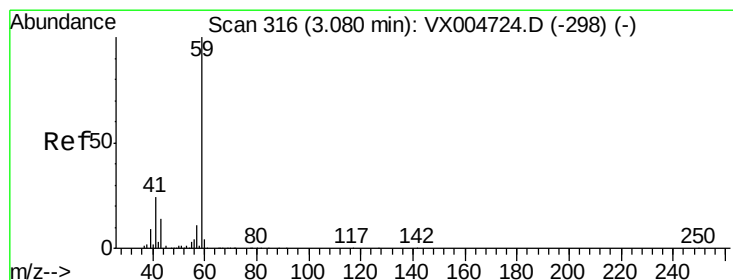
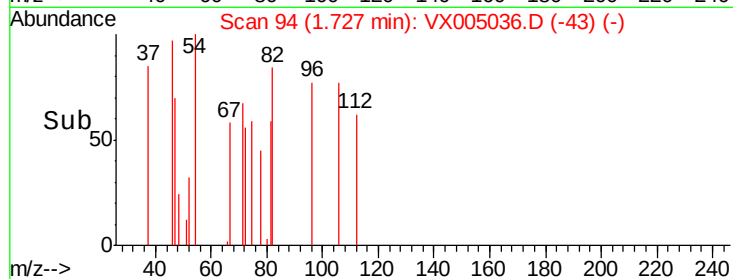
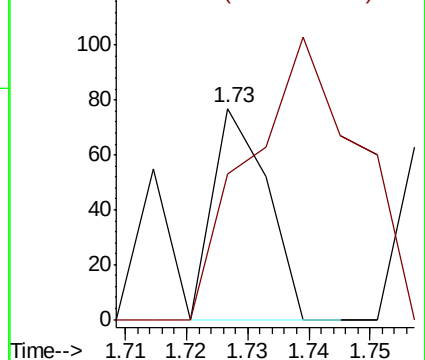
64 100

66 68.8 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.399 ug/l

RT: 3.08 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX005036.D

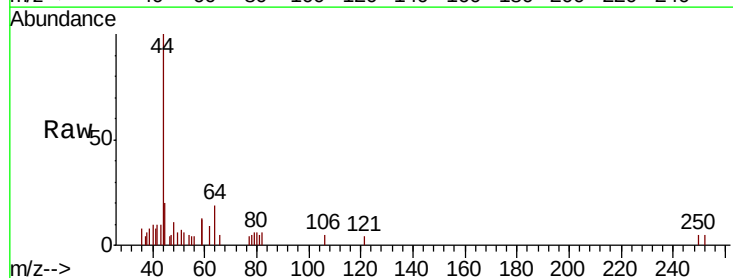
Acq: 04 Oct 2018 23:10

Tgt Ion: 59 Resp: 348

Ion Ratio Lower Upper

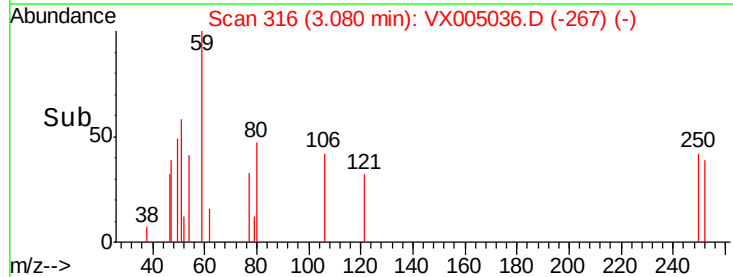
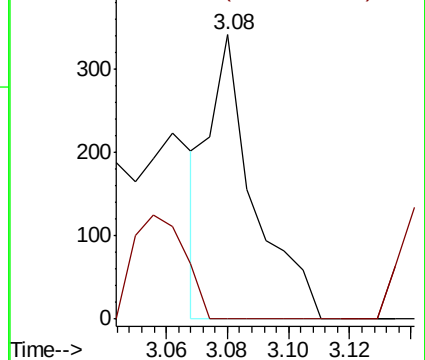
59 100

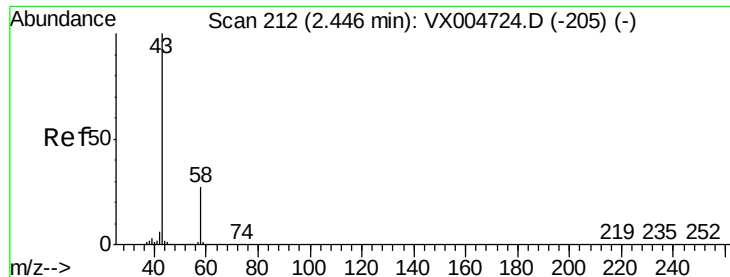
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.146 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

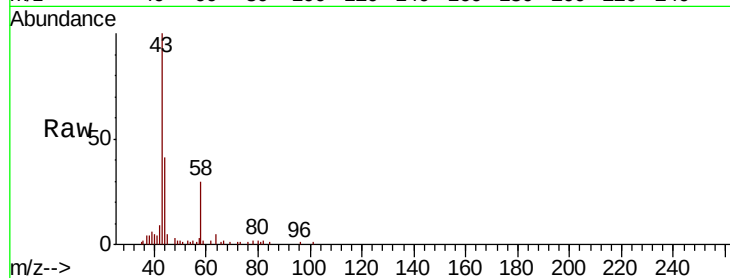
ClientSampled :

Tot Ion: 43 Resp: 7545

Ion Ratio Lower Upper

43 100

58 30.7 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

5000

4000

3000

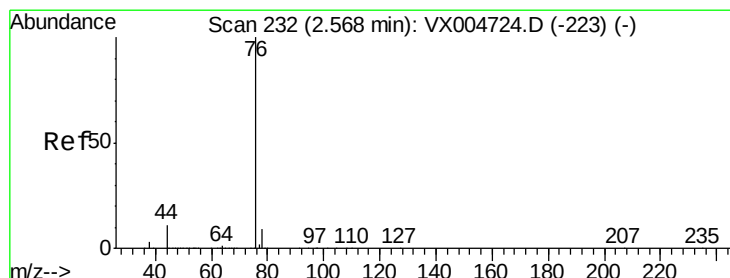
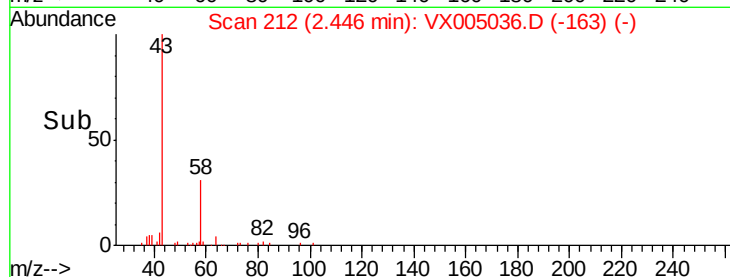
2000

1000

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.323 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005036.D

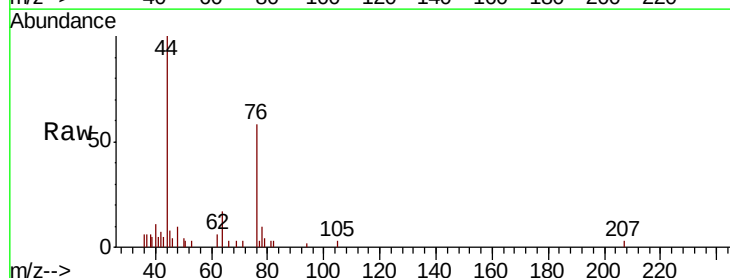
Acq: 04 Oct 2018 23:10

Tgt Ion: 76 Resp: 2297

Ion Ratio Lower Upper

76 100

78 10.9 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

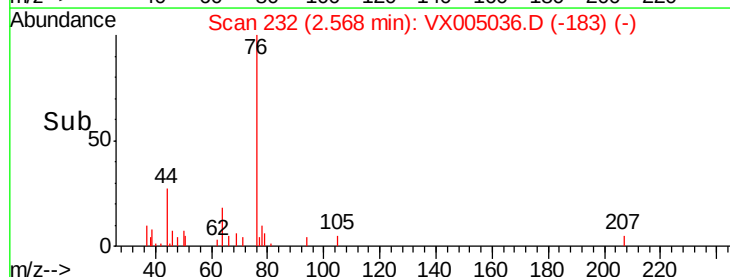
1000

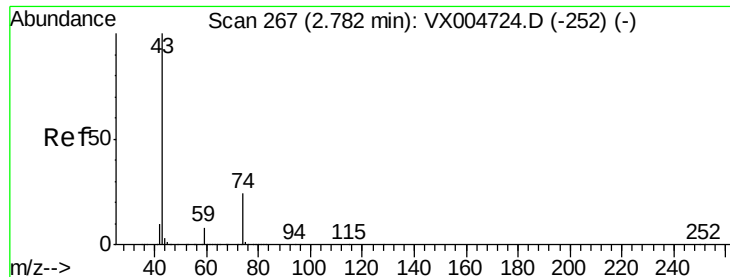
500

0

Time-->

2.50 2.55 2.60 2.65

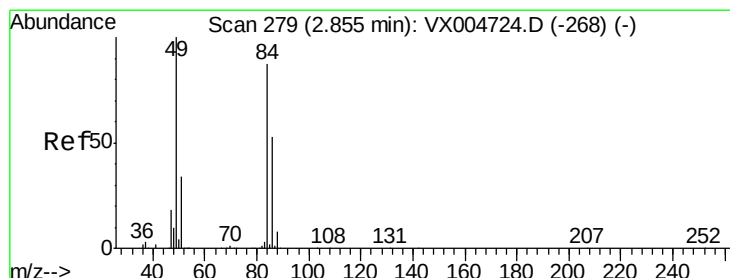
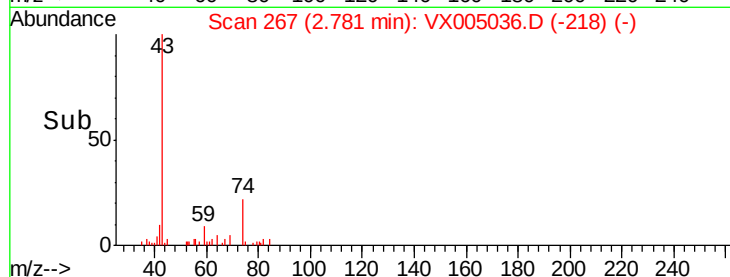
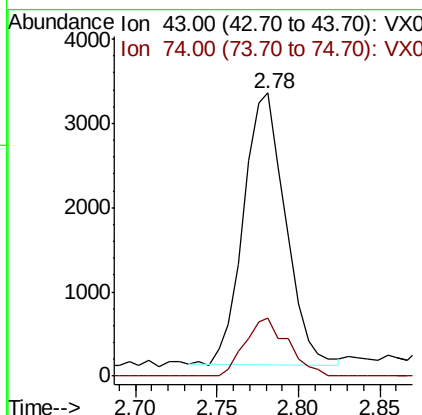
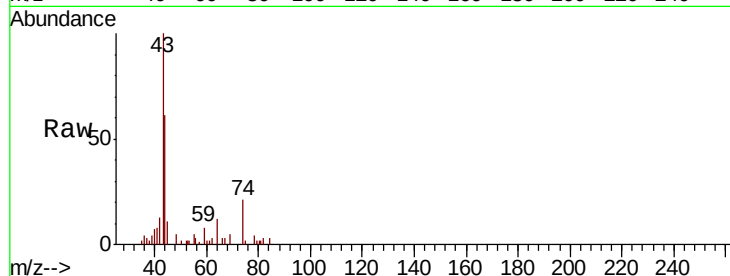




#18
Methyl Acetate
Concen: 1.250 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005036.D
Acq: 04 Oct 2018 23:10

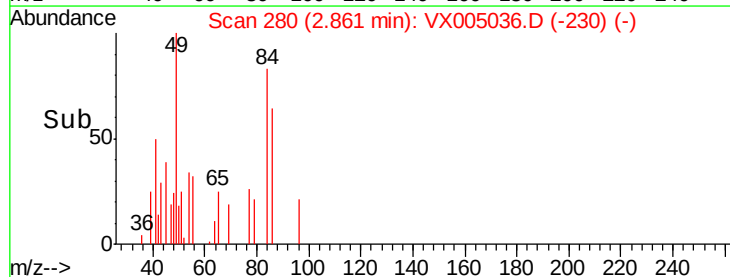
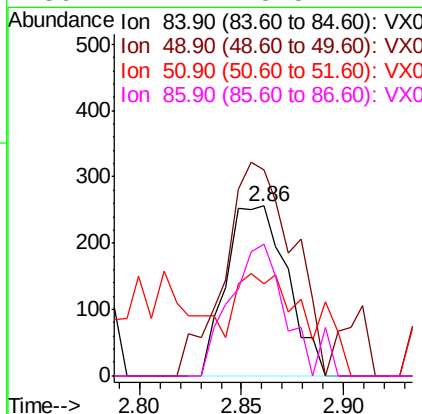
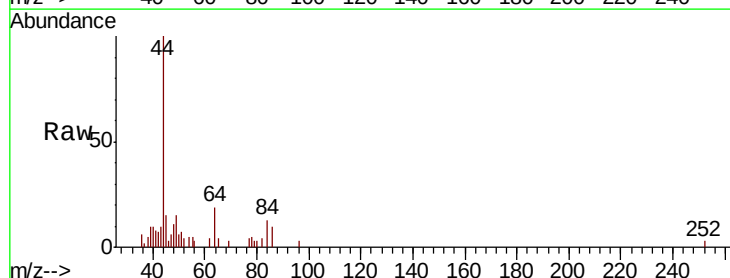
Instrument :
MSVOA_X
ClientSampleId :

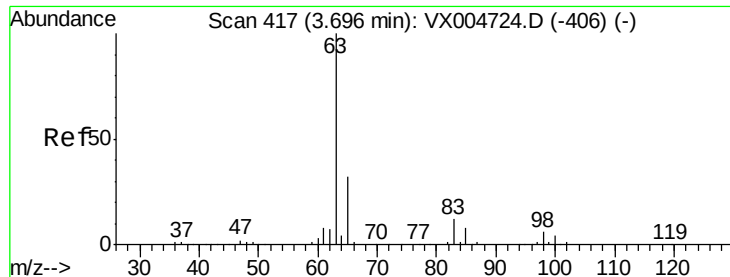
Tot Ion: 43 Resp: 5762
Ion Ratio Lower Upper
43 100
74 22.0 17.8 26.8



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005036.D
Acq: 04 Oct 2018 23:10

Tgt Ion: 84 Resp: 531
Ion Ratio Lower Upper
84 100
49 96.1 92.3 138.5
51 28.9 31.8 47.6#
86 77.7 48.5 72.7#





#24

1,1-Dichloroethane

Concen: 0.487 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

ClientSampleId :

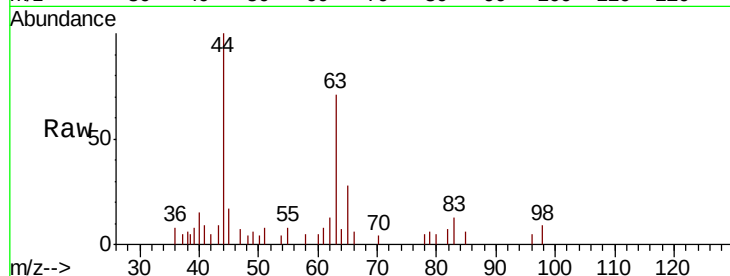
Tot Ion: 63 Resp: 2522

Ion Ratio Lower Upper

63 100

98 12.6 3.0 9.2#

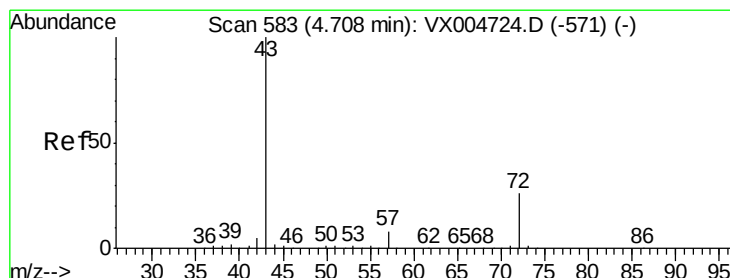
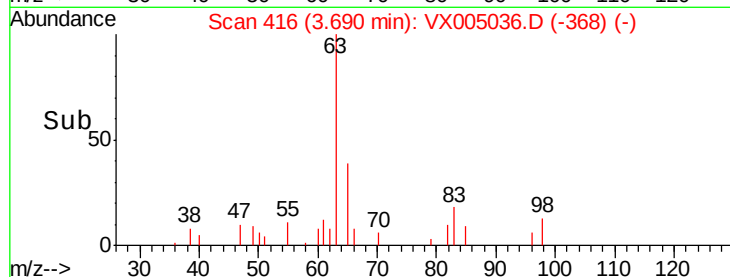
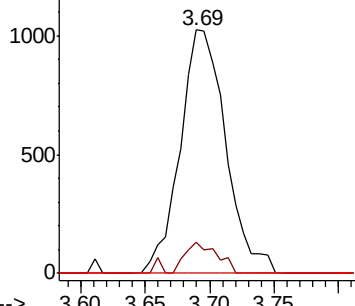
100 0.0 2.0 5.8#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.527 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005036.D

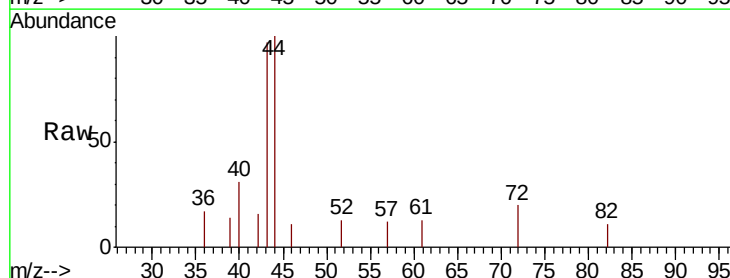
Acq: 04 Oct 2018 23:10

Tgt Ion: 43 Resp: 1414

Ion Ratio Lower Upper

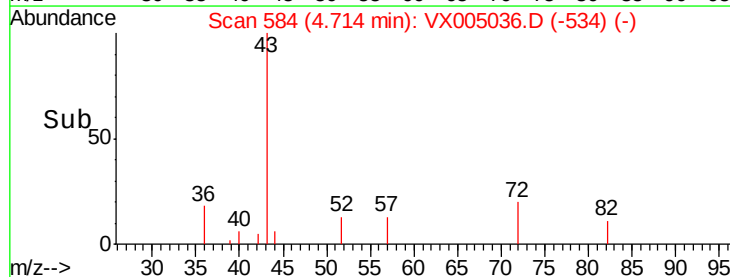
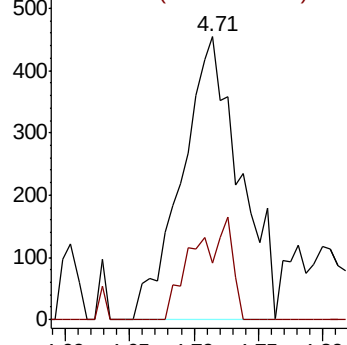
43 100

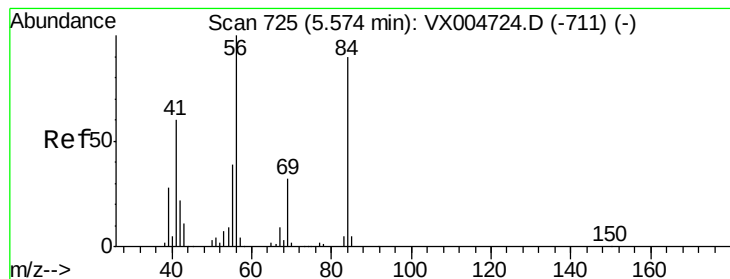
72 20.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.034 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

ClientSampleId :

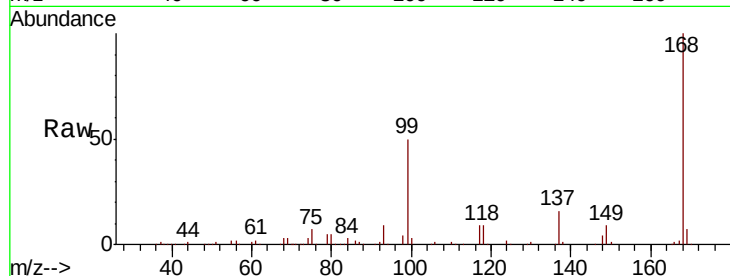
Tot Ion: 56 Resp: 4101

Ion Ratio Lower Upper

56 100

69 179.3 25.9 38.9#

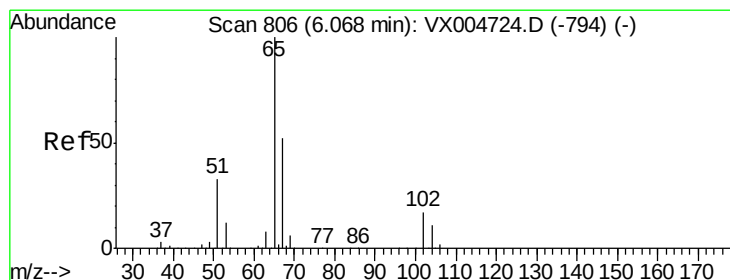
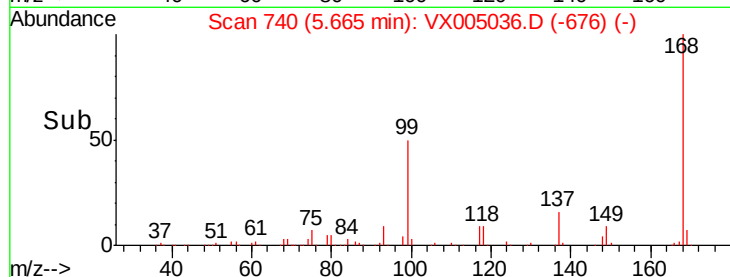
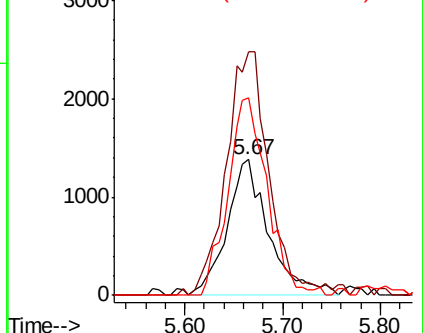
84 145.8 71.9 107.9#



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



#33

1,2-Dichloroethane-d4

Concen: 52.433 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005036.D

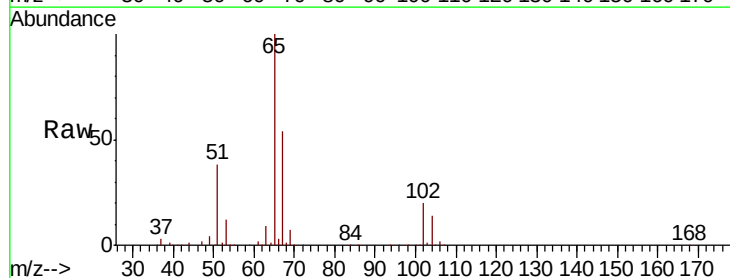
Acq: 04 Oct 2018 23:10

Tgt Ion: 65 Resp: 163450

Ion Ratio Lower Upper

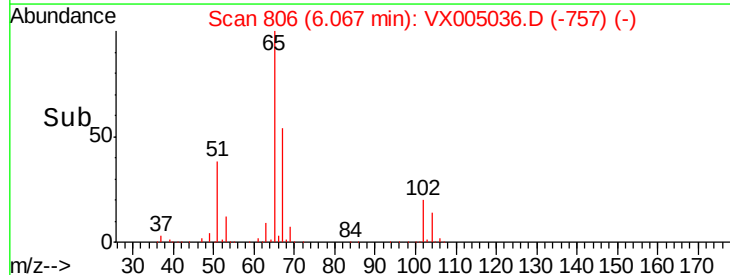
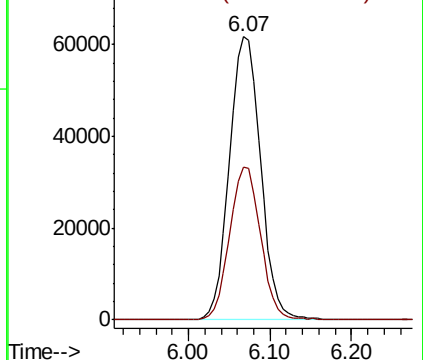
65 100

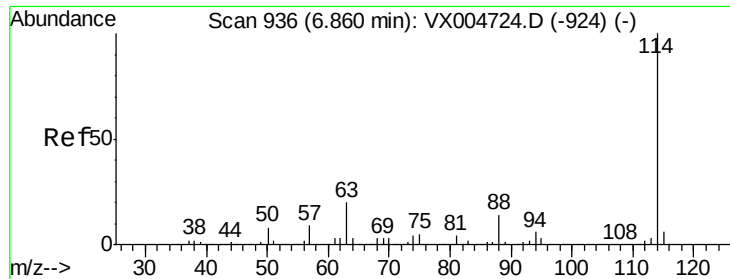
67 53.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

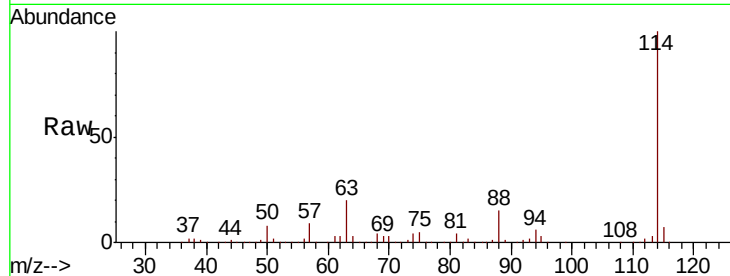




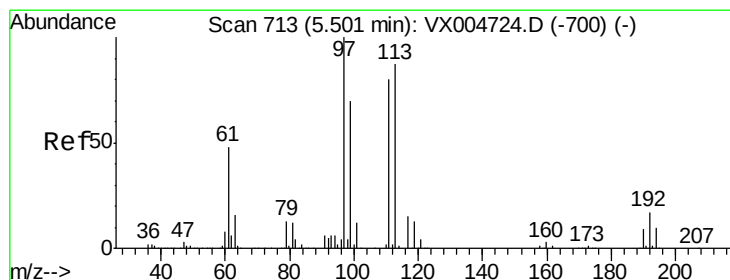
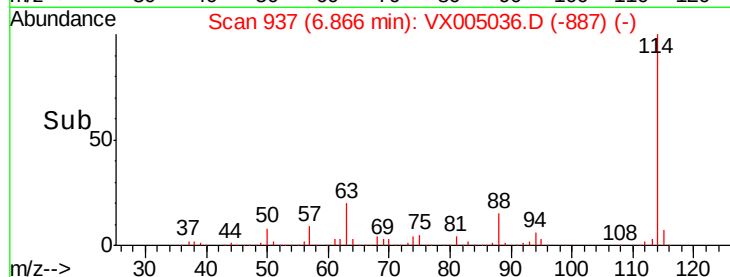
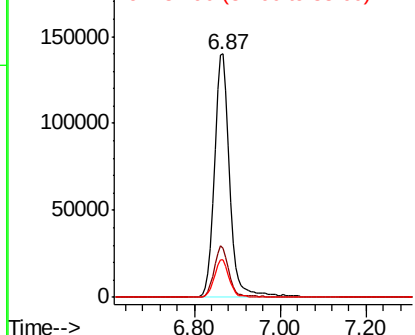
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005036.D
 Acq: 04 Oct 2018 23:10

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 352798
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.8
 88 15.5 0.0 27.0

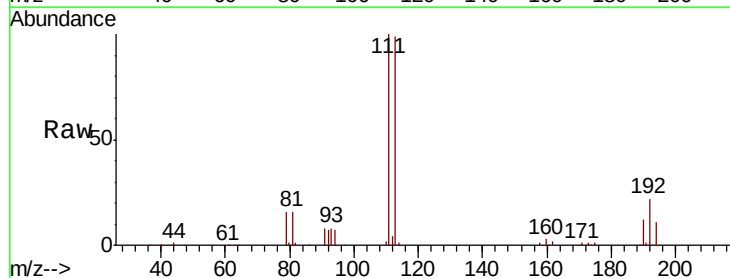


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

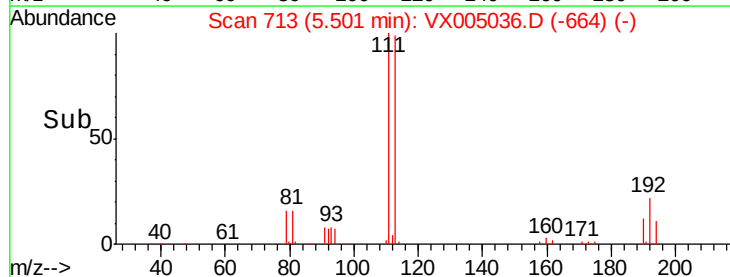
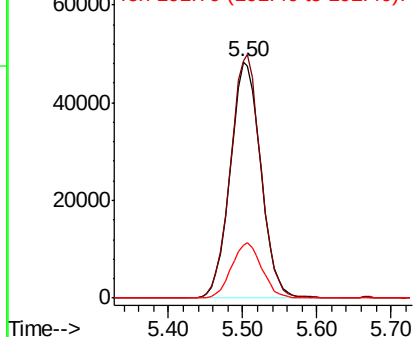


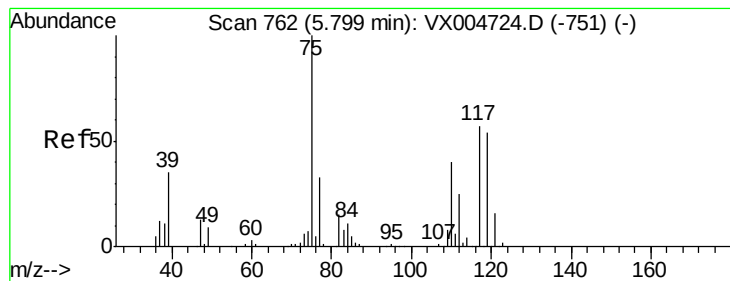
#35
 Dibromofluoromethane
 Concen: 46.448 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005036.D
 Acq: 04 Oct 2018 23:10

Tgt Ion:113 Resp: 138881
 Ion Ratio Lower Upper
 113 100
 111 102.2 77.0 115.4
 192 23.2 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: 3.643 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

ClientSampleId :

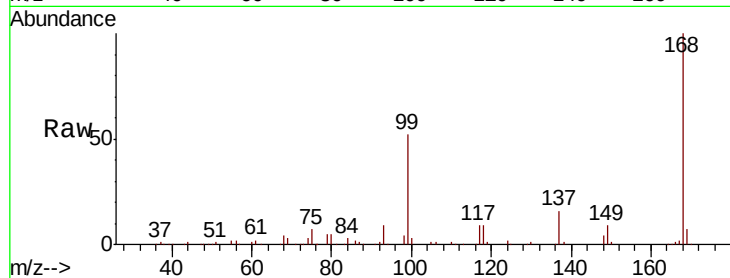
Tot Ion: 75 Resp: 14860

Ion Ratio Lower Upper

75 100

110 9.2 20.0 59.9#

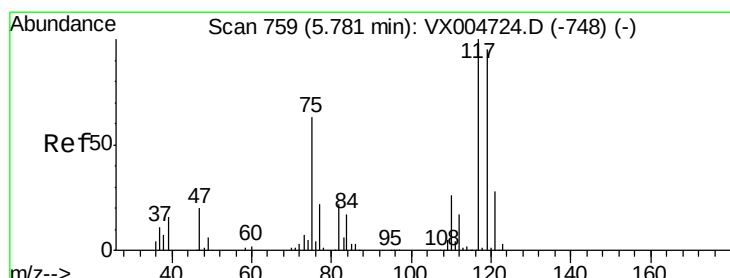
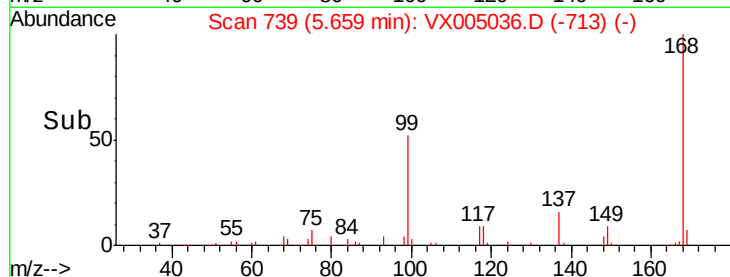
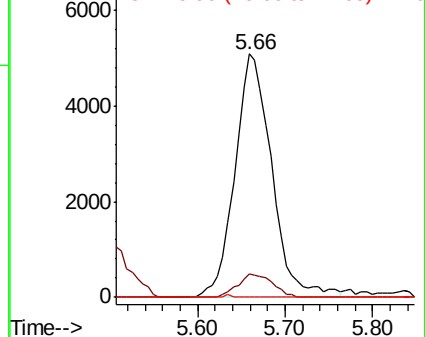
77 0.0 27.1 40.7#



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: 4.347 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

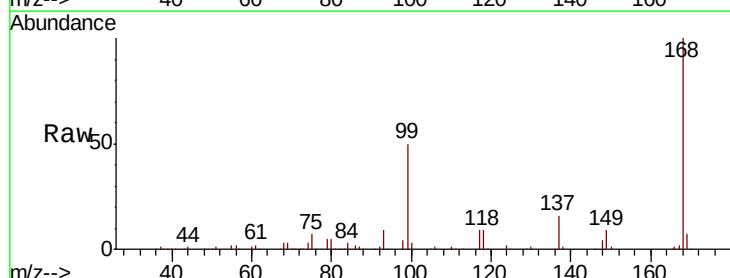
Tgt Ion: 117 Resp: 18641

Ion Ratio Lower Upper

117 100

119 5.5 75.2 112.8#

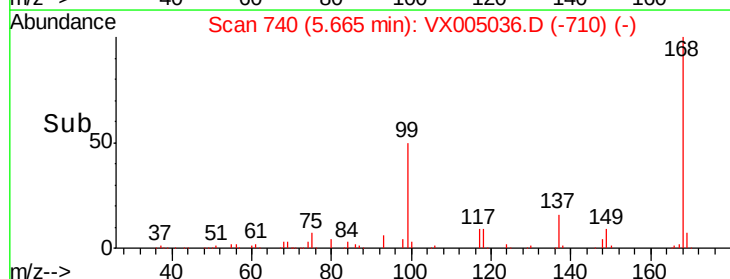
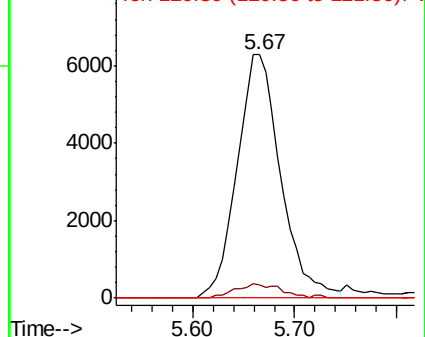
121 0.0 22.5 33.7#

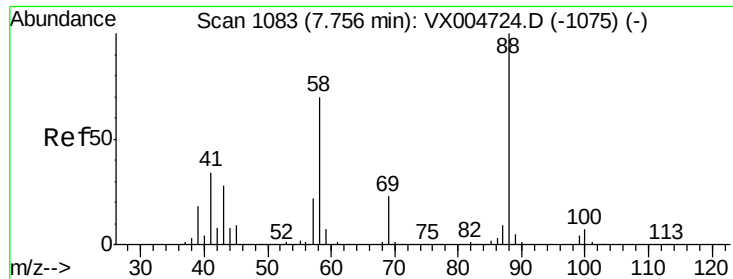


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

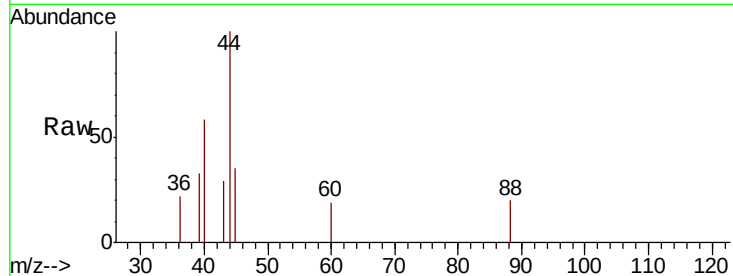




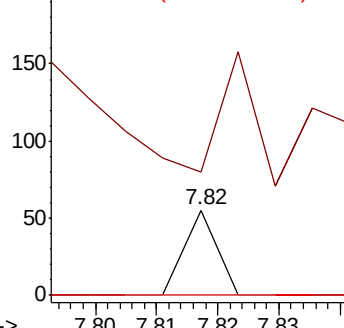
#49
1,4-Dioxane
Concen: 0.227 ug/l
RT: 7.82 min Scan# 1093
Delta R.T. 0.06 min
Lab File: VX005036.D
Acq: 04 Oct 2018 23:10

Instrument :
MSVOA_X
ClientSampleId :

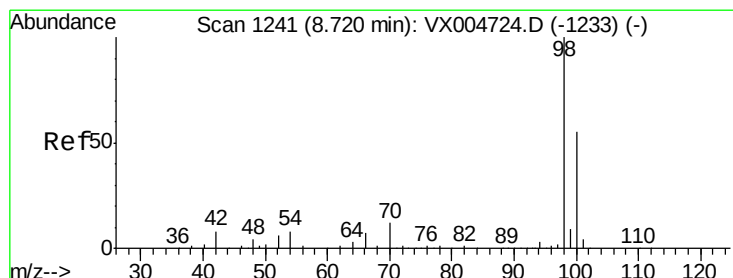
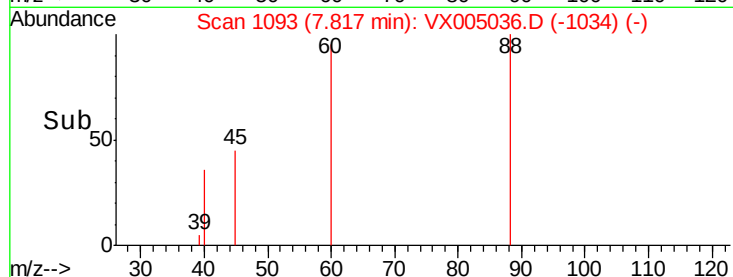
Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 160.0 25.1 37.7#
58 0.0 56.2 84.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

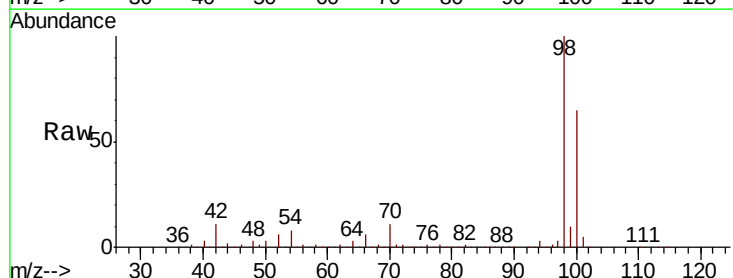


Time-->

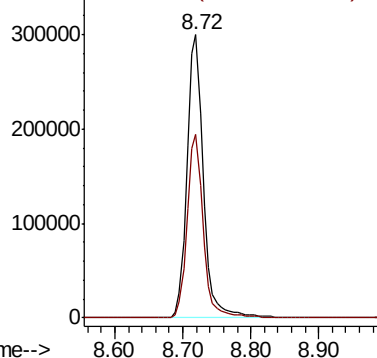


#50
Toluene-d8
Concen: 50.505 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005036.D
Acq: 04 Oct 2018 23:10

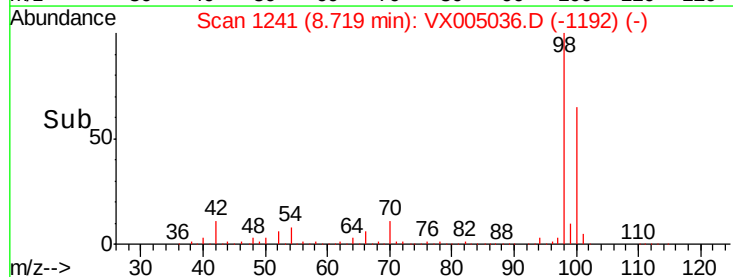
Tgt Ion: 98 Resp: 502032
Ion Ratio Lower Upper
98 100
100 63.8 51.9 77.9

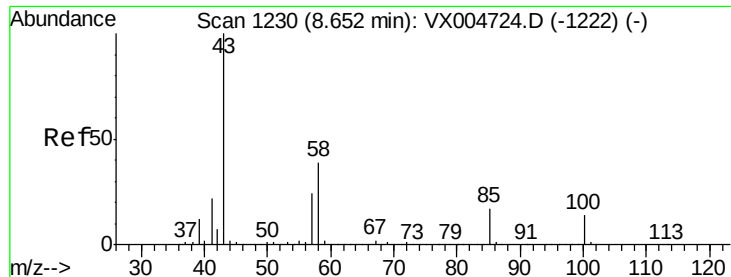


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.408 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

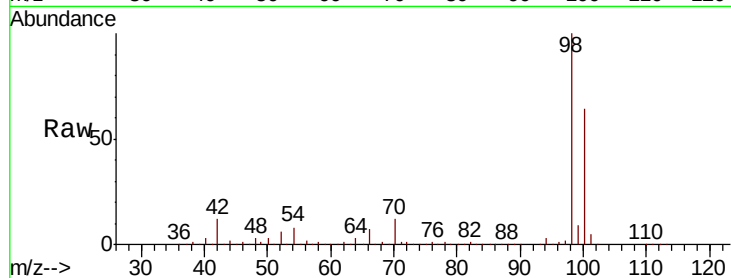
ClientSampled :

Tot Ion: 43 Resp: 2007

Ion Ratio Lower Upper

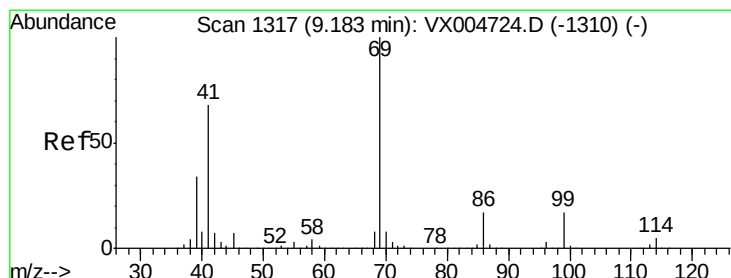
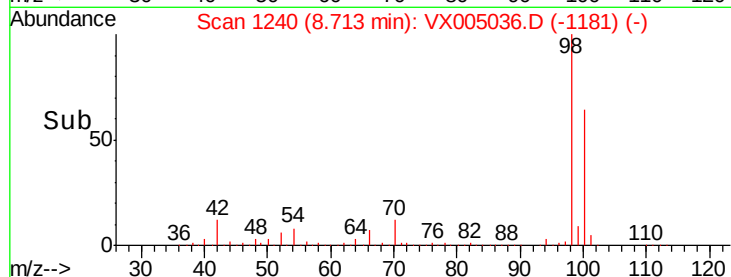
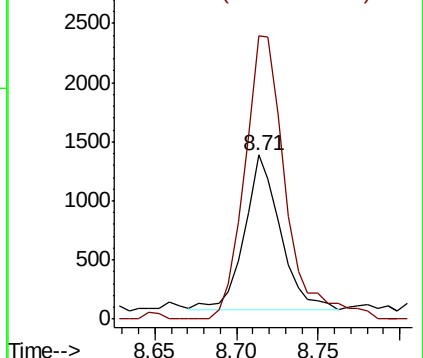
43 100

58 209.0 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#56

Ethyl methacrylate

Concen: 2.871 ug/l

RT: 8.93 min Scan# 1276

Delta R.T. -0.25 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

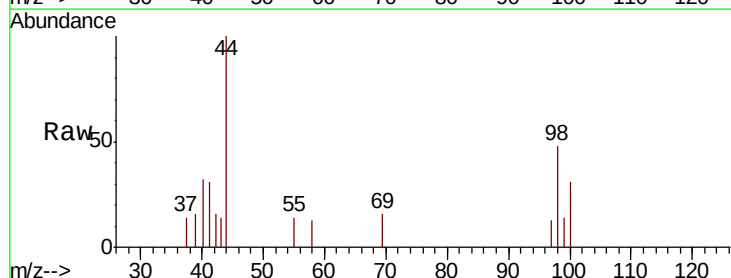
Tgt Ion: 69 Resp: 45

Ion Ratio Lower Upper

69 100

41 397.8 56.9 85.3#

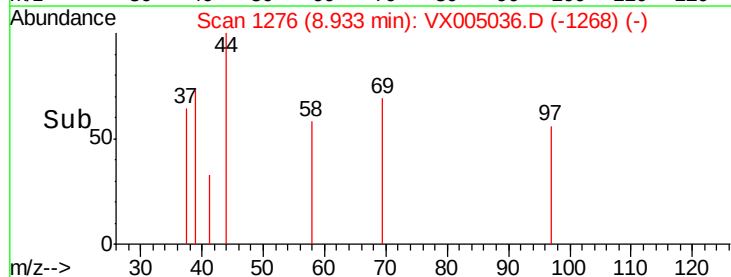
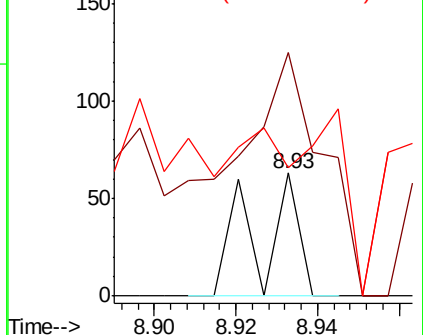
39 0.0 28.4 42.6#

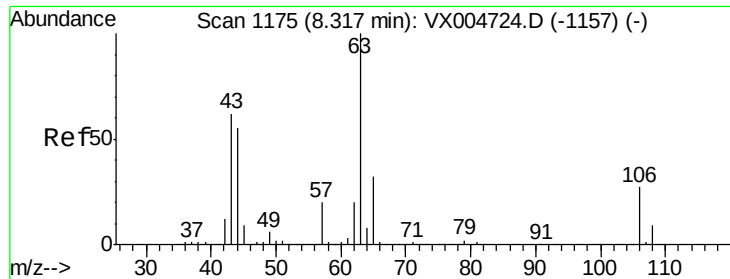


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

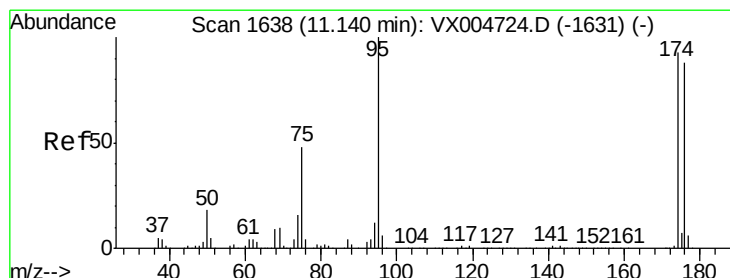
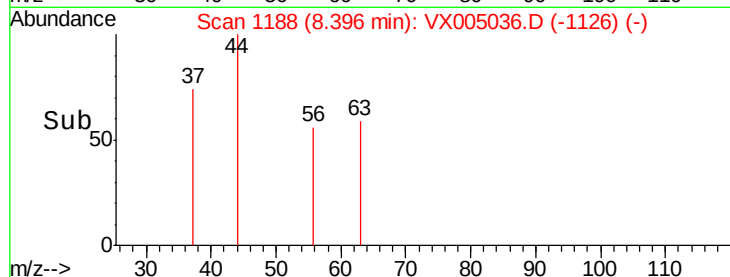
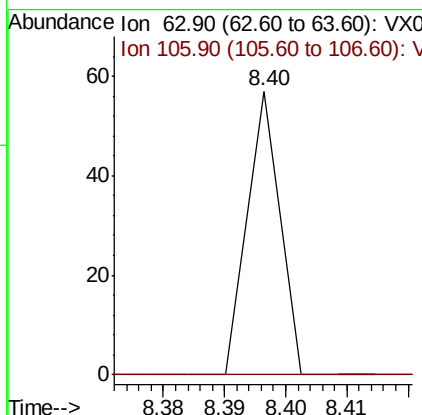
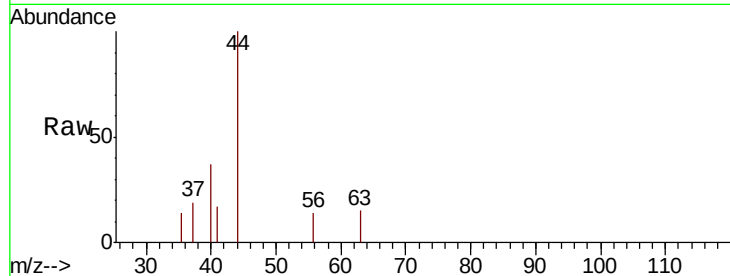




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.250 ug/l
 RT: 8.40 min Scan# 1188
 Delta R.T. 0.08 min
 Lab File: VX005036.D
 Acq: 04 Oct 2018 23:10

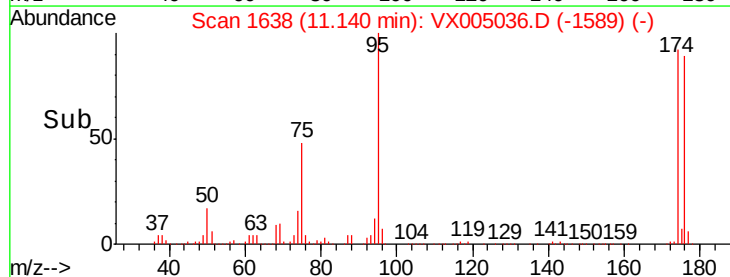
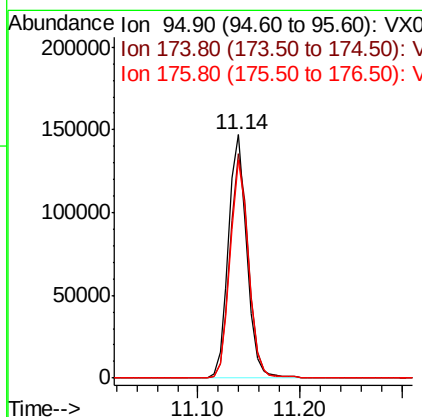
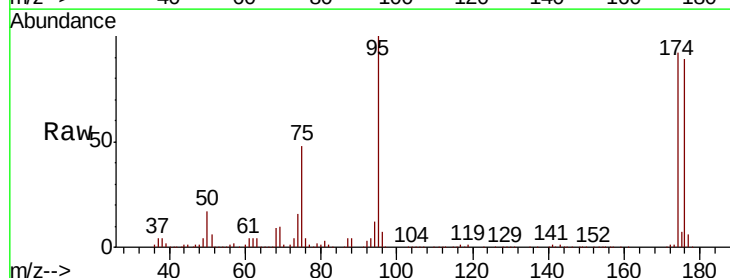
Instrument :
 MSVOA_X
 ClientSampled :

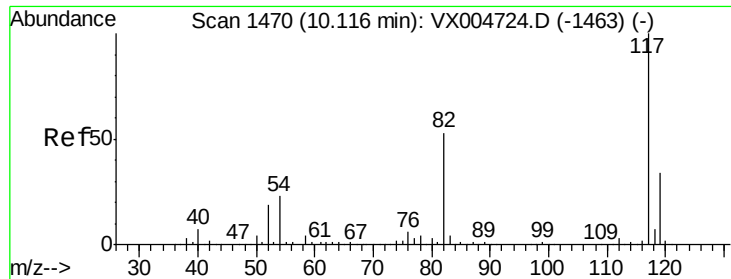
Tot Ion: 63 Resp: 21
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#



#62
 4-Bromofluorobenzene
 Concen: 51.053 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX005036.D
 Acq: 04 Oct 2018 23:10

Tgt Ion: 95 Resp: 182823
 Ion Ratio Lower Upper
 95 100
 174 93.2 0.0 185.0
 176 89.7 0.0 180.2

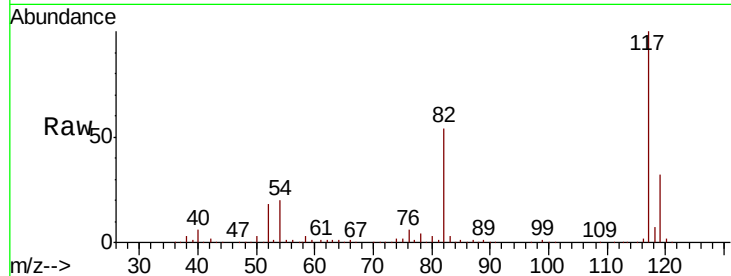




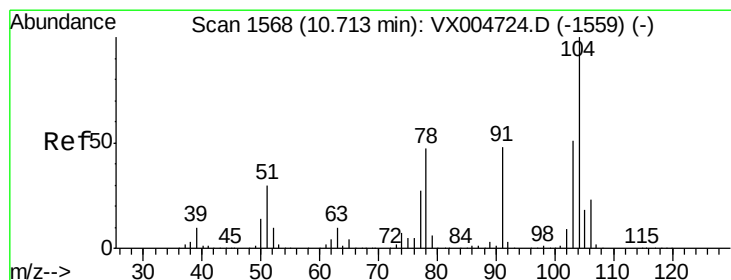
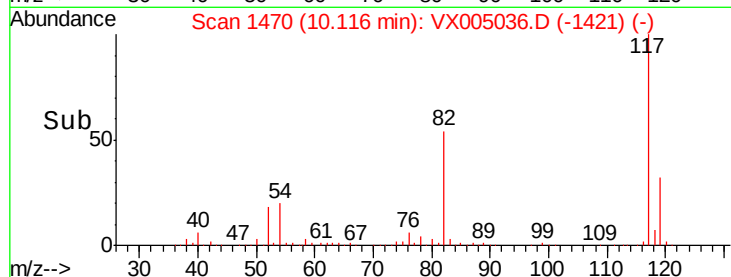
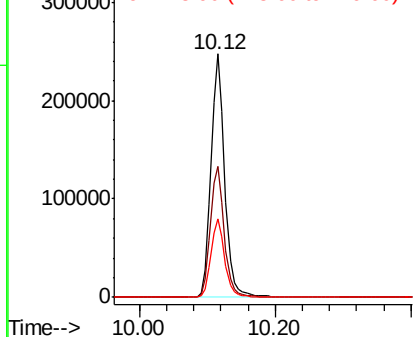
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005036.D
Acq: 04 Oct 2018 23:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 344680
Ion Ratio Lower Upper
117 100
82 54.0 42.2 63.4
119 32.4 27.4 41.0

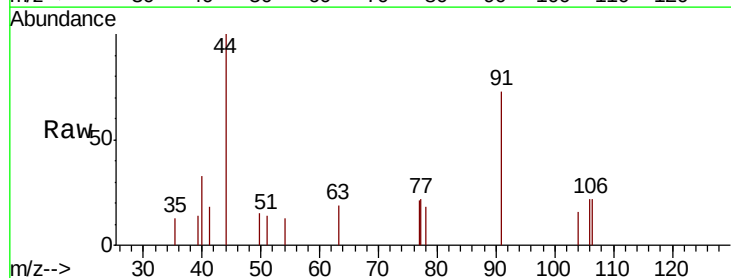


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

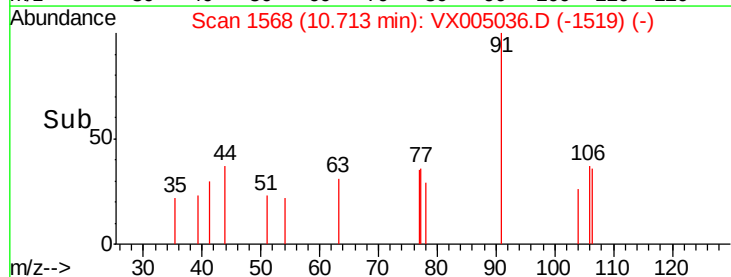
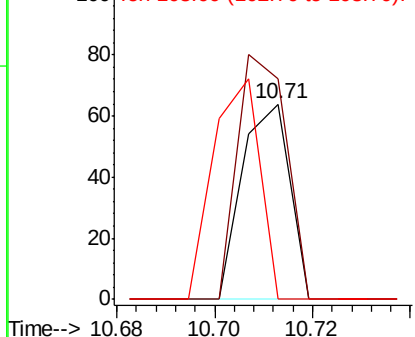


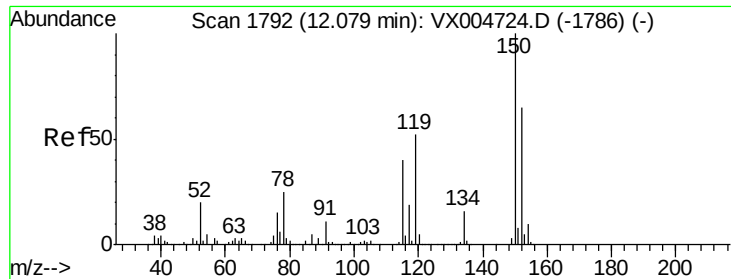
#70
Styrene
Concen: 2.145 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005036.D
Acq: 04 Oct 2018 23:10

Tgt Ion:104 Resp: 43
Ion Ratio Lower Upper
104 100
78 130.2 40.0 60.0#
103 111.6 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

ClientSampleId :

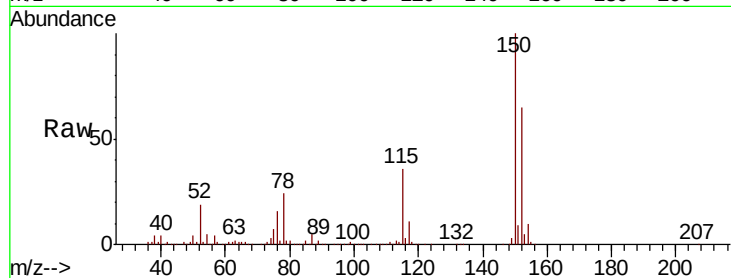
Tot Ion:152 Resp: 193145

Ion Ratio Lower Upper

152 100

115 55.4 40.2 120.6

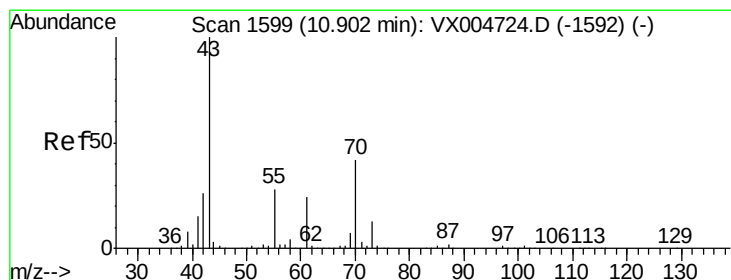
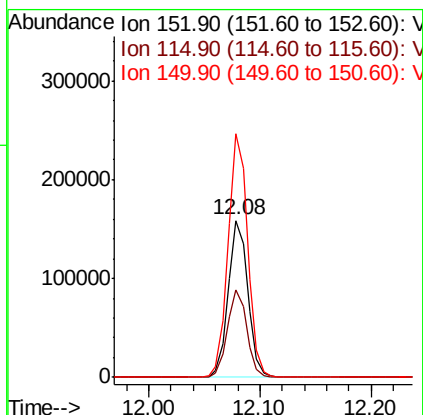
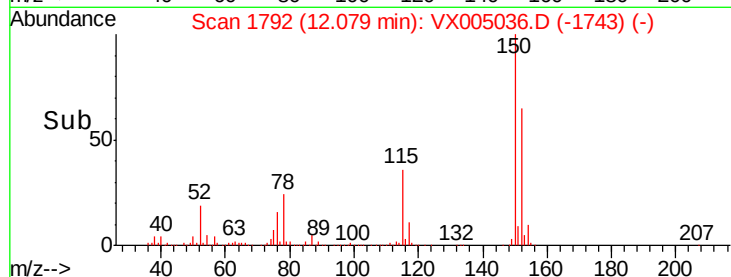
150 155.3 0.0 351.0



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



#74

N-amyl acetate

Concen: 1.763 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Tgt Ion: 43 Resp: 106

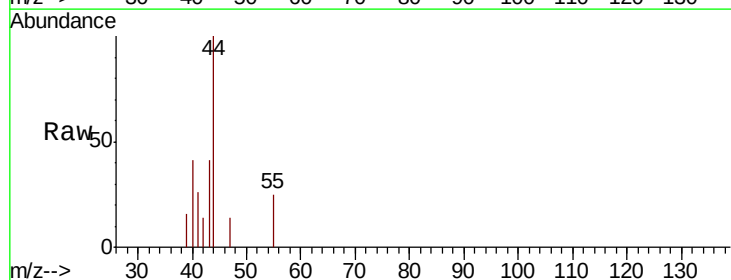
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 202.8 21.6 32.4#

61 0.0 19.1 28.7#

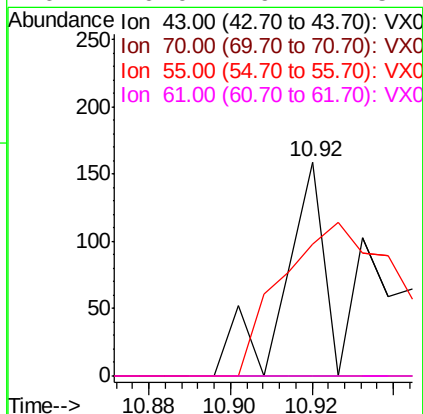
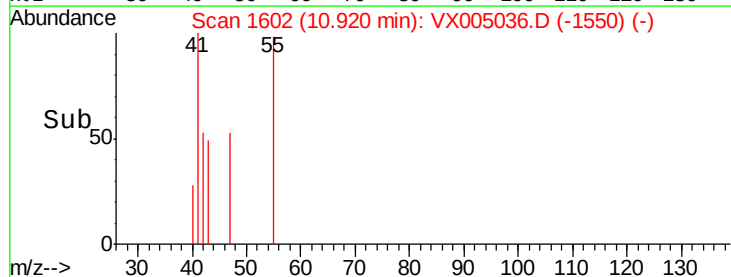


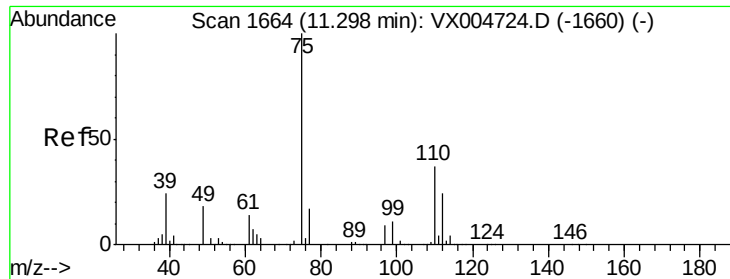
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.679 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

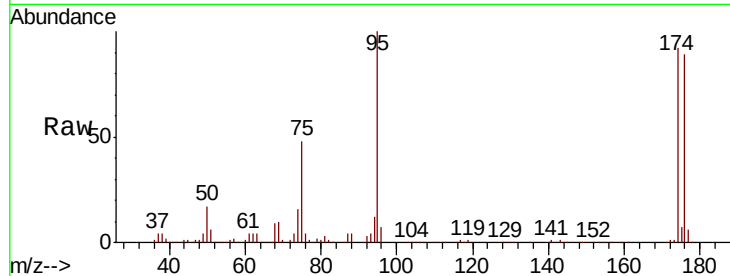
ClientSampleId :

Tot Ion: 75 Resp: 89520

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

11.14

80000

60000

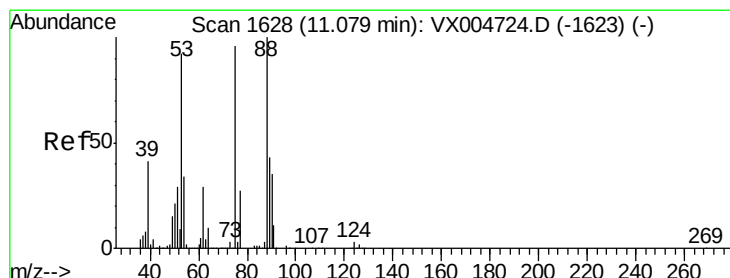
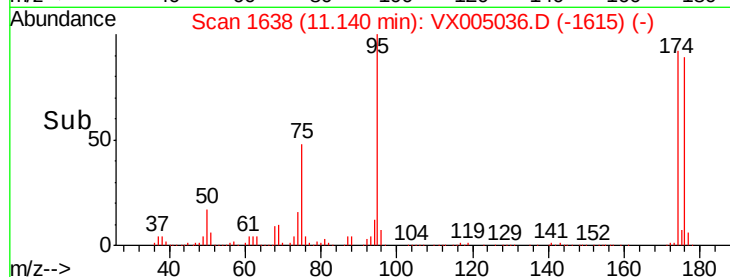
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 56.144 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

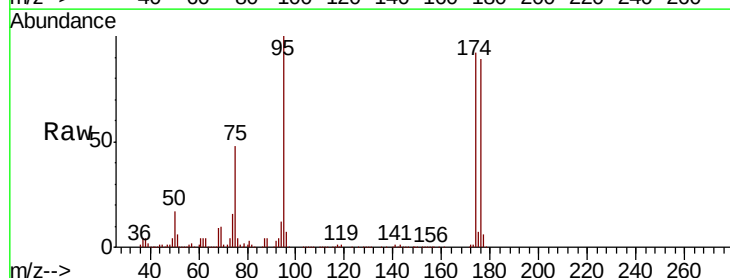
Tgt Ion: 75 Resp: 89520

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

11.14

80000

60000

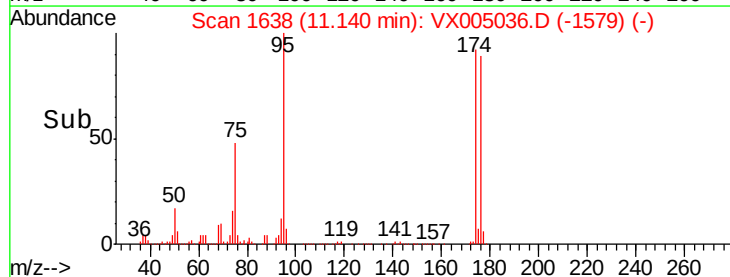
40000

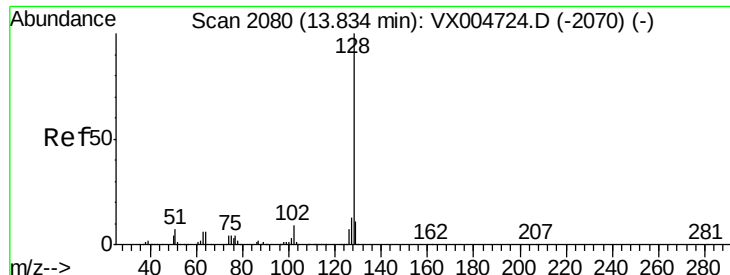
20000

0

Time-->

11.10 11.20





#95

Naphthalene

Concen: 0.829 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005036.D

Acq: 04 Oct 2018 23:10

Instrument :

MSVOA_X

ClientSampleId :

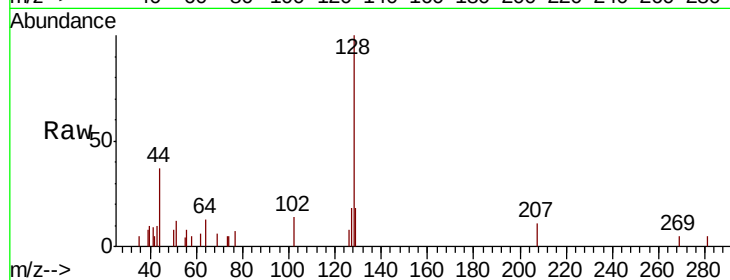
Tot Ion:128 Resp: 1789

Ion Ratio Lower Upper

128 100

127 14.1 10.4 15.6

129 17.3 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

