

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005120.D
 Acq On : 08 Oct 2018 12:01
 Operator : JC/MD
 Sample : J5189-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-117D2-20180926

Quant Time: Oct 09 05:52:09 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

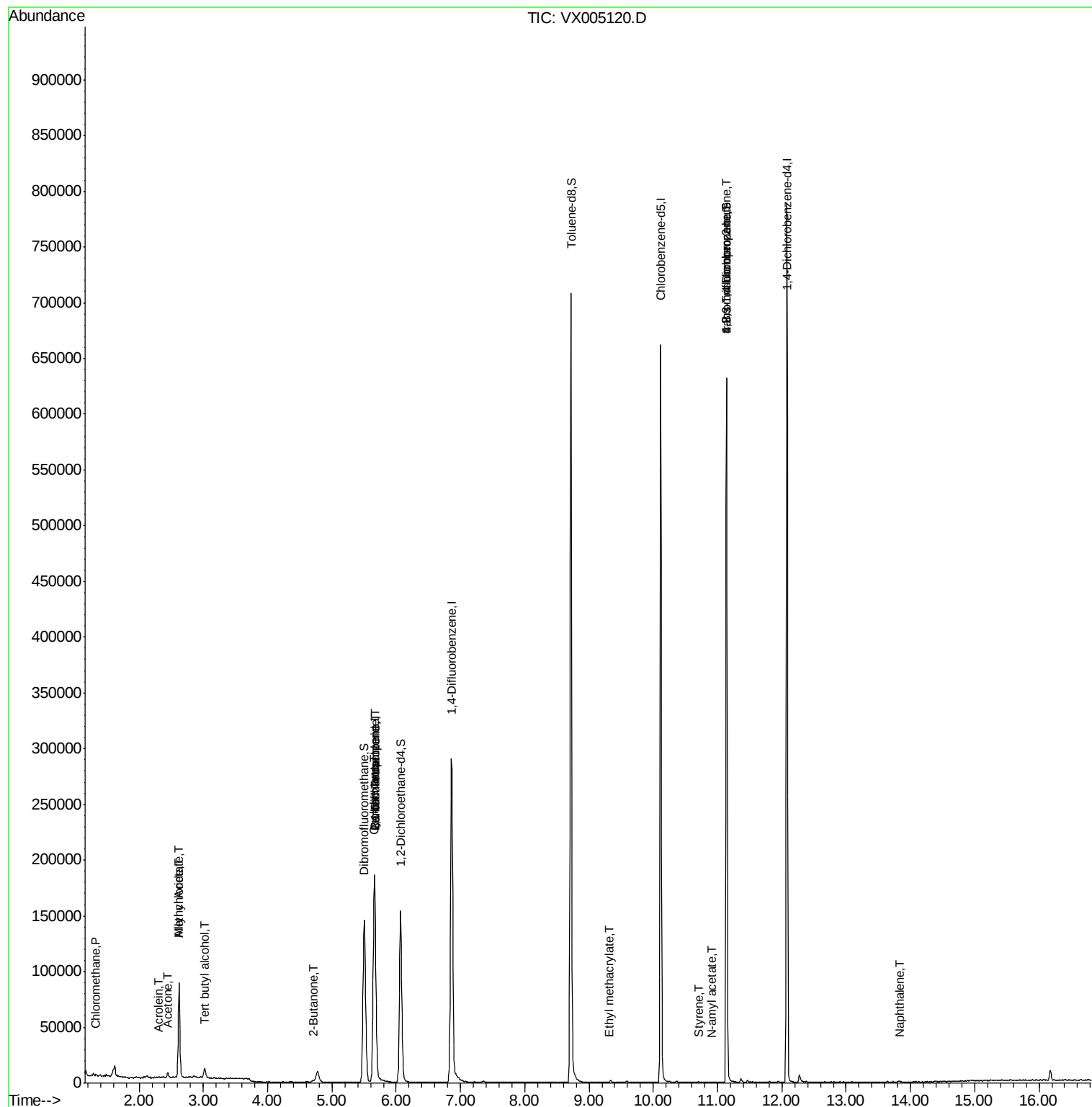
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	307047	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165639	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	145562	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	
35) Dibromofluoromethane	5.50	113	124126	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	
50) Toluene-d8	8.72	98	442873	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
62) 4-Bromofluorobenzene	11.14	95	157372	50.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.98%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	916	0.283	ug/l #	86
6) Chloroethane	1.73	64	83	Below Cal	#	1
11) Tert butyl alcohol	3.02	59	5566	7.124	ug/l #	81
13) Acrolein	2.31	56	145	0.261	ug/l #	57
14) Allyl chloride	2.62	41	8460	1.829	ug/l #	58
16) Acetone	2.45	43	5066	3.105	ug/l	95
18) Methyl Acetate	2.62	43	21723	5.256	ug/l #	54
20) Methylene Chloride	2.85	84	772	Below Cal	#	76
25) 2-Butanone	4.70	43	3141	1.306	ug/l	96
31) Cyclohexane	5.65	56	3754	1.056	ug/l #	13
36) 1,1-Dichloropropene	5.66	75	13334	3.756	ug/l #	46
38) Carbon Tetrachloride	5.67	117	17795	4.768	ug/l #	19
56) Ethyl methacrylate	9.31	69	20	2.866	ug/l #	1
70) Styrene	10.71	104	117	2.154	ug/l #	57
74) N-amyl acetate	10.90	43	103	1.765	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	77058	20.756	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	140	Below Cal		79
81) trans-1,4-Dichloro-2-buten	11.14	75	77058	56.347	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	578	Below Cal		84
95) Naphthalene	13.83	128	614	0.763	ug/l #	74

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

ClientSampleId :

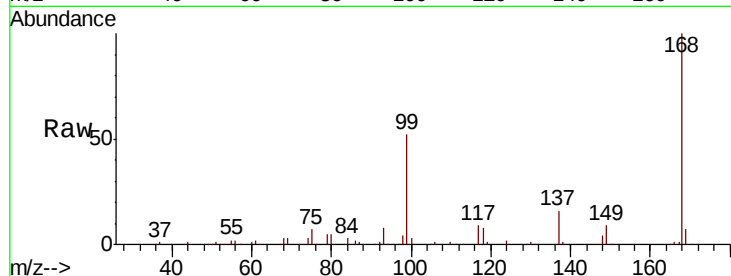
RE-117D2-20180926

Tot Ion:168 Resp: 195606

Ion Ratio Lower Upper

168 100

99 51.5 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

60000

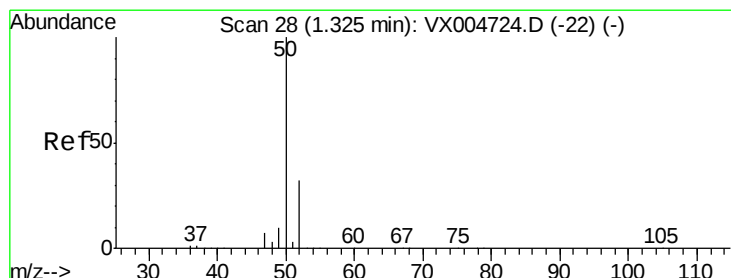
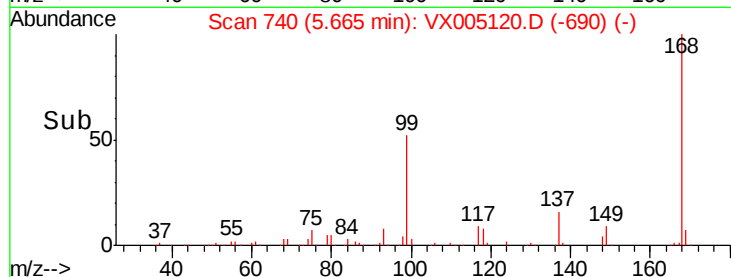
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.283 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005120.D

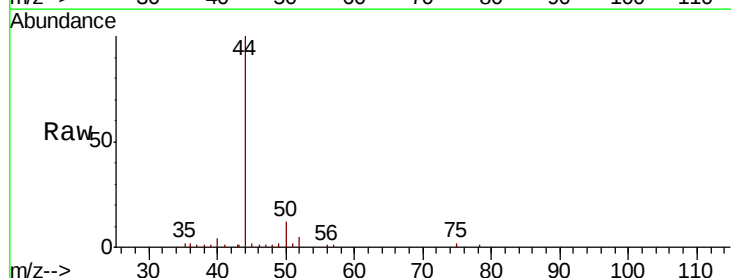
Acq: 08 Oct 2018 12:01

Tgt Ion: 50 Resp: 916

Ion Ratio Lower Upper

50 100

52 40.0 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

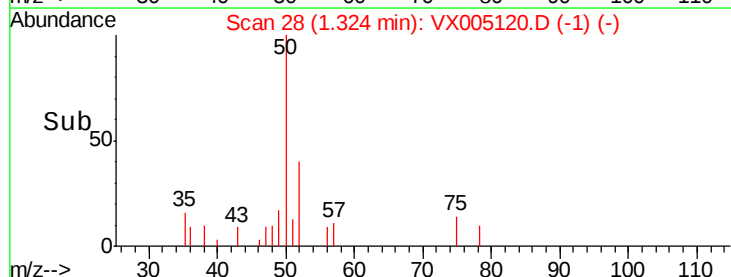
400

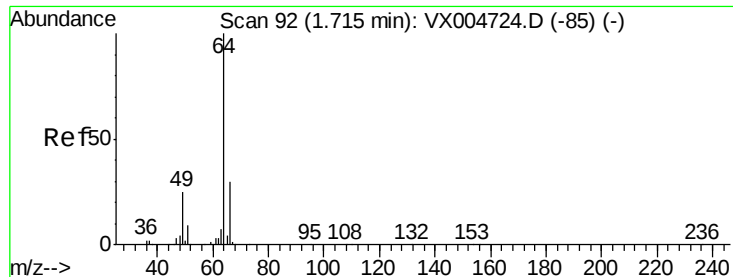
200

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

ClientSampleId :

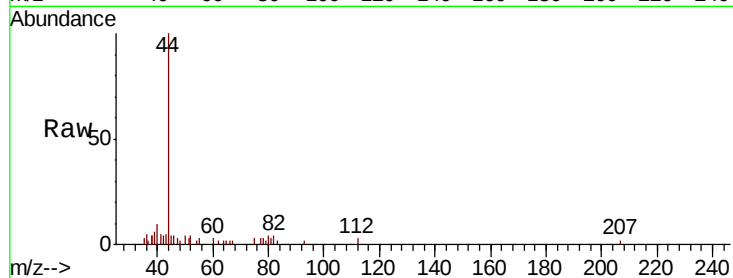
RE-117D2-20180926

Tot Ion: 64 Resp: 83

Ion Ratio Lower Upper

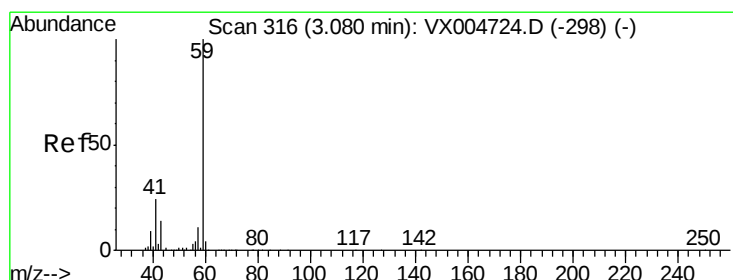
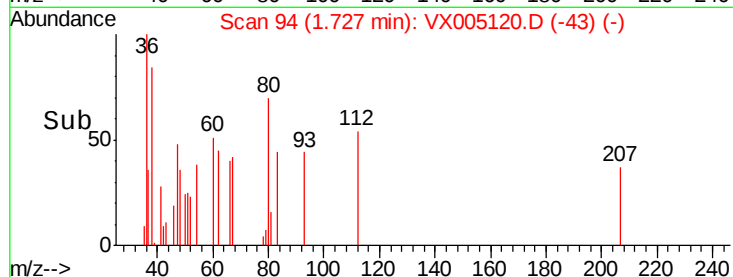
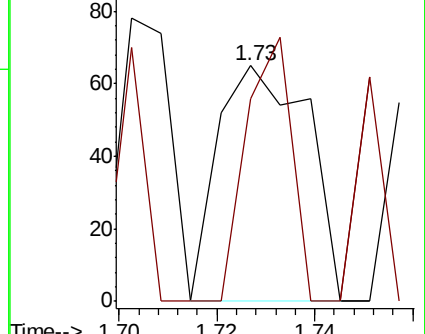
64 100

66 86.2 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: 7.124 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005120.D

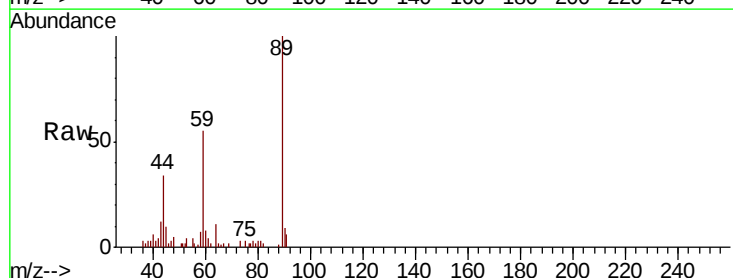
Acq: 08 Oct 2018 12:01

Tgt Ion: 59 Resp: 5566

Ion Ratio Lower Upper

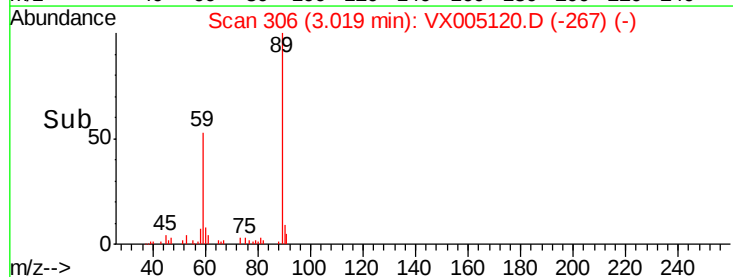
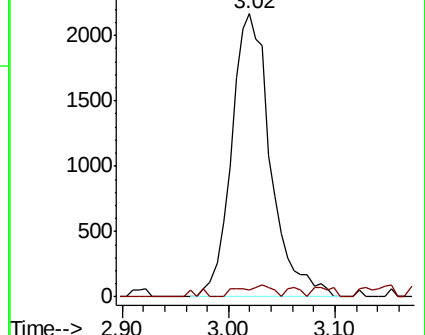
59 100

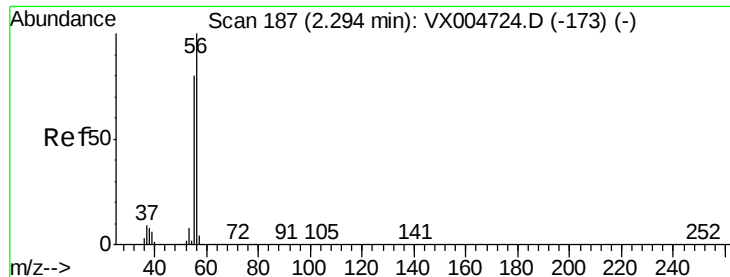
57 3.6 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

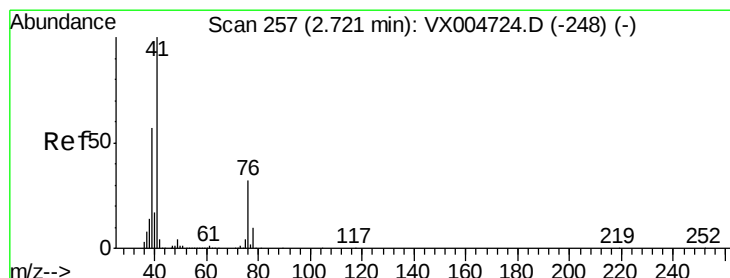
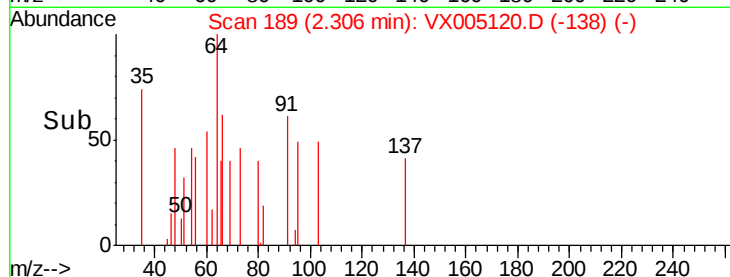
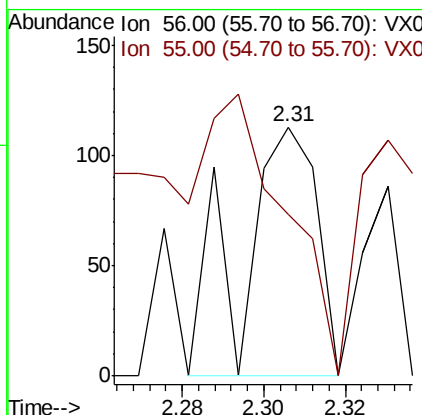
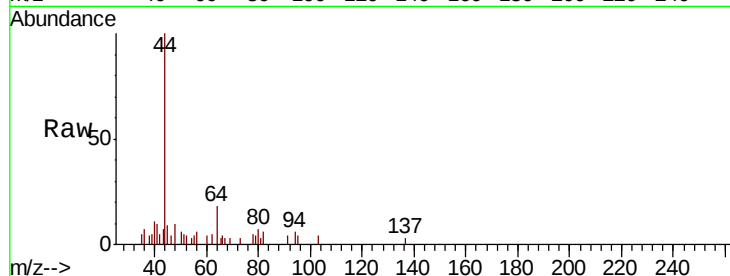




#13
Acrolein
Concen: 0.261 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

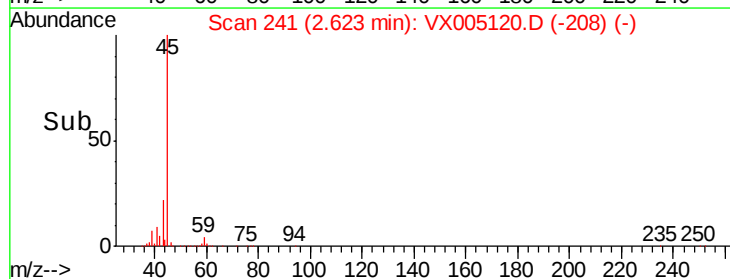
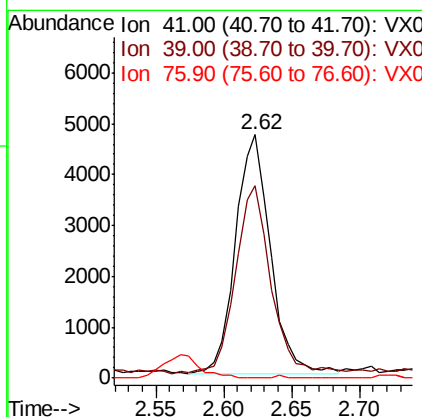
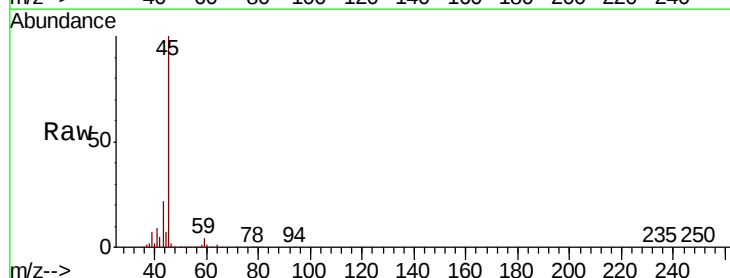
Instrument :
MSVOA_X
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RE-117D2-20180926

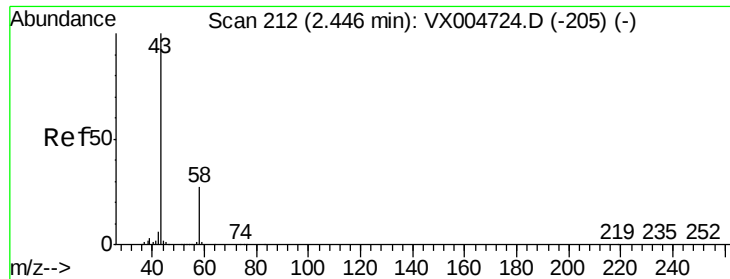
Tot Ion: 56 Resp: 145
Ion Ratio Lower Upper
56 100
55 117.2 63.4 95.2#



#14
Allyl chloride
Concen: 1.829 ug/l
RT: 2.62 min Scan# 241
Delta R.T. -0.10 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

Tgt Ion: 41 Resp: 8460
Ion Ratio Lower Upper
41 100
39 78.9 44.1 66.1#
76 0.0 25.0 37.4#

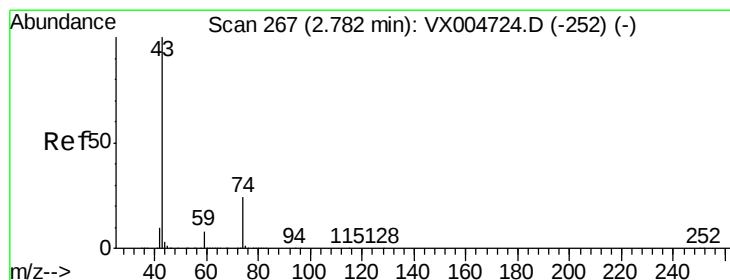
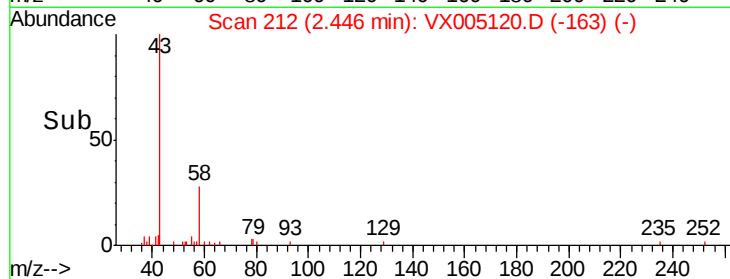
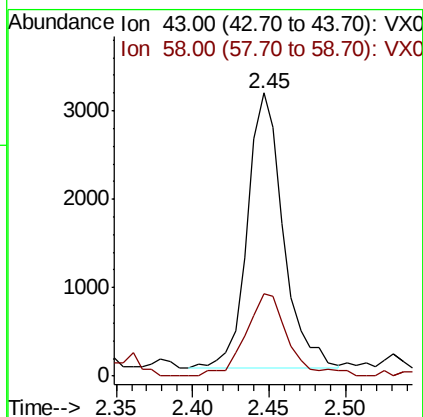
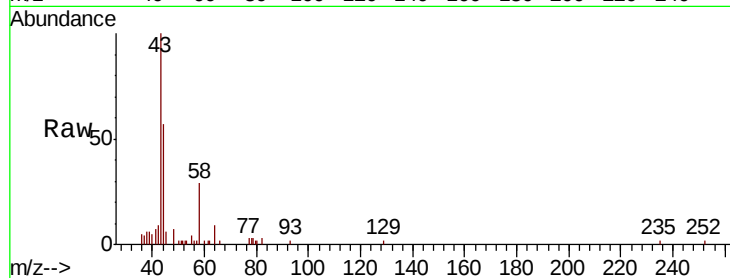




#16
Acetone
Concen: 3.105 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

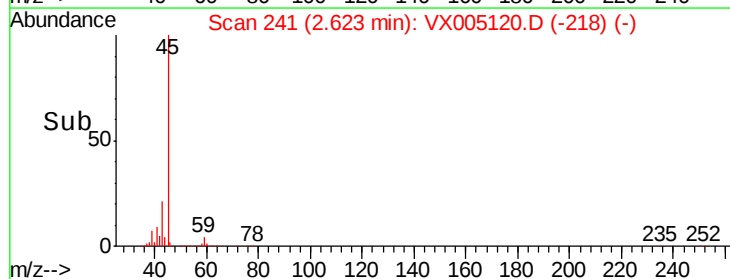
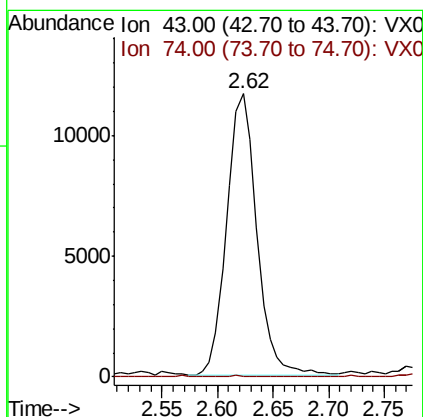
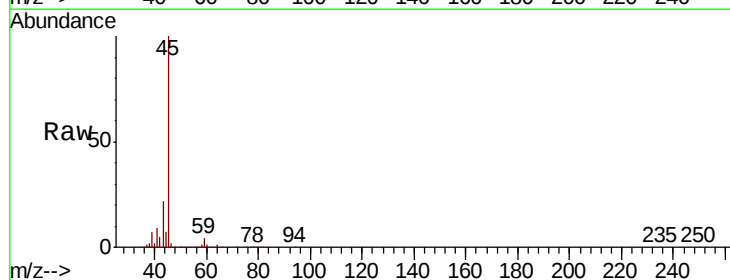
Instrument :
MSVOA_X
ClientSampleId :
RE-117D2-20180926

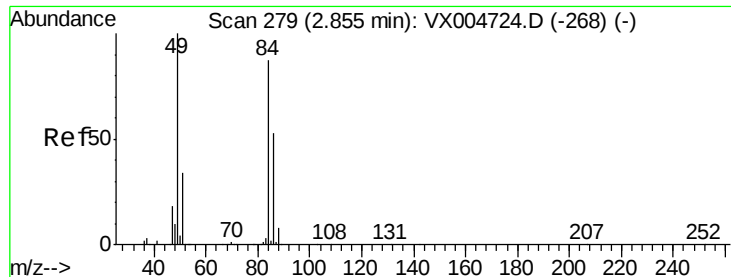
Tot Ion: 43 Resp: 5066
Ion Ratio Lower Upper
43 100
58 30.0 21.8 32.6



#18
Methyl Acetate
Concen: 5.256 ug/l
RT: 2.62 min Scan# 241
Delta R.T. -0.16 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

Tgt Ion: 43 Resp: 21723
Ion Ratio Lower Upper
43 100
74 0.1 17.8 26.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE-117D2-20180926

Tot Ion: 84 Resp: 772

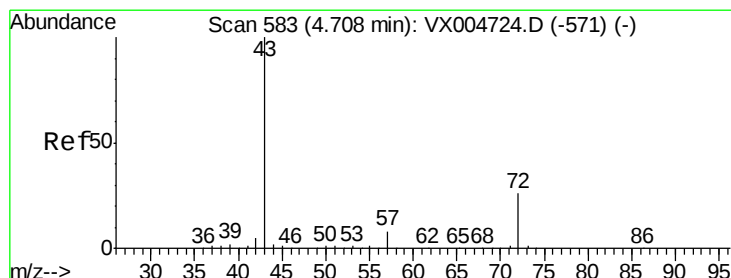
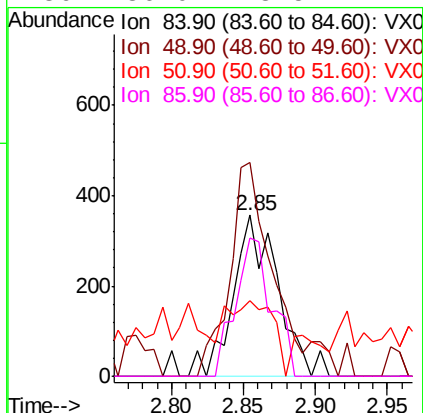
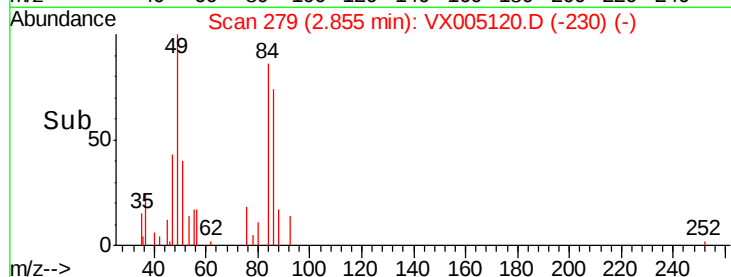
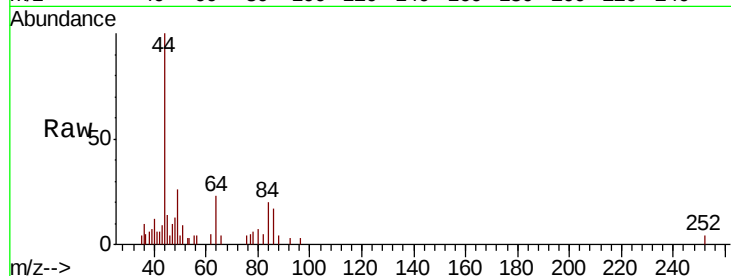
Ion Ratio Lower Upper

84 100

49 132.5 92.3 138.5

51 17.9 31.8 47.6#

86 86.0 48.5 72.7#



#25

2-Butanone

Concen: 1.306 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005120.D

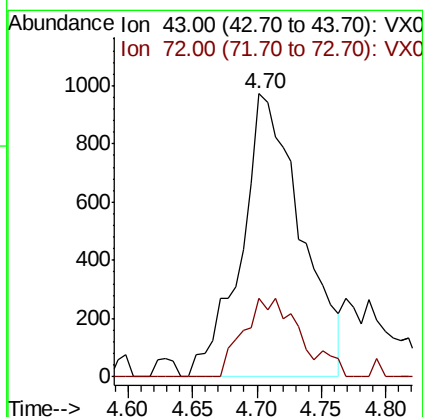
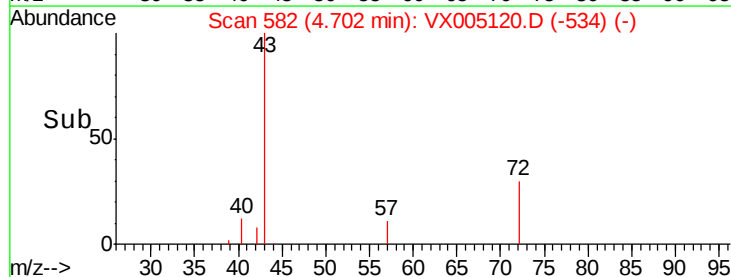
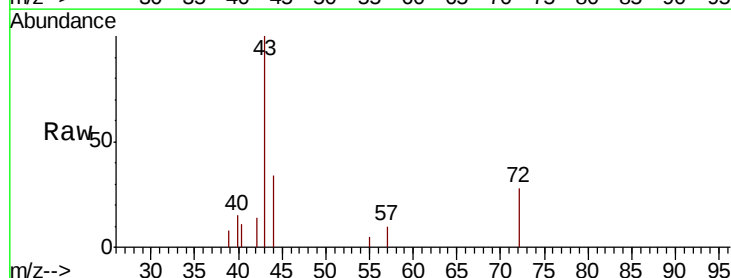
Acq: 08 Oct 2018 12:01

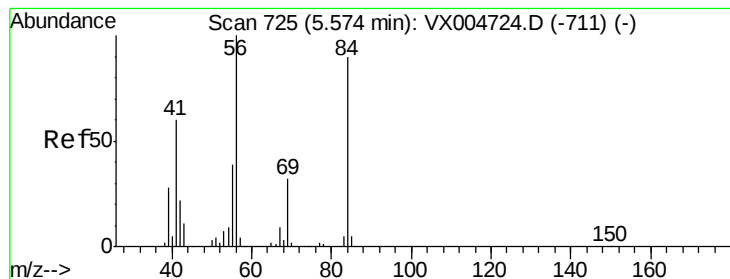
Tgt Ion: 43 Resp: 3141

Ion Ratio Lower Upper

43 100

72 28.0 20.8 31.2





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

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RE-117D2-20180926

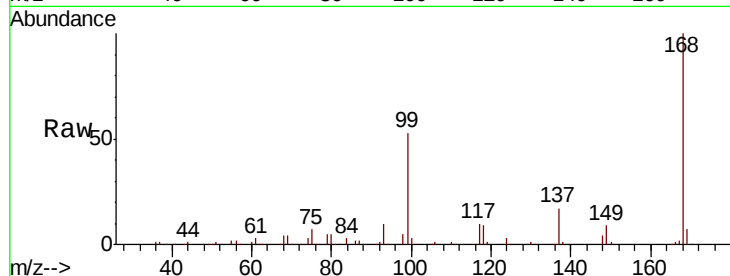
Tot Ion: 56 Resp: 3754

Ion Ratio Lower Upper

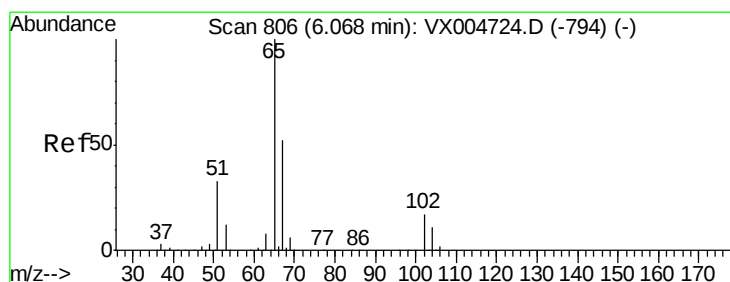
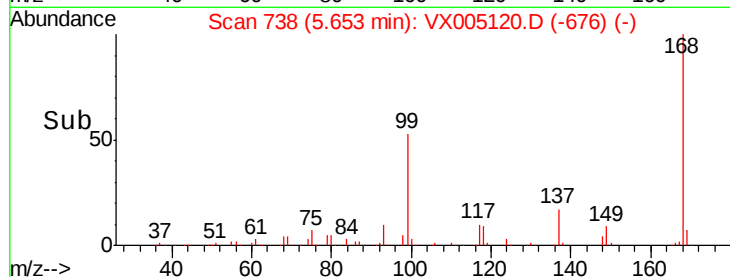
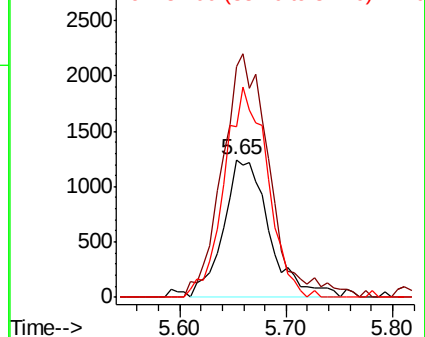
56 100

69 161.5 25.9 38.9#

84 123.8 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: 52.094 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005120.D

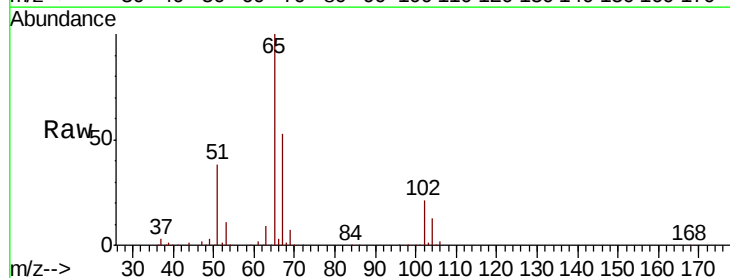
Acq: 08 Oct 2018 12:01

Tgt Ion: 65 Resp: 145562

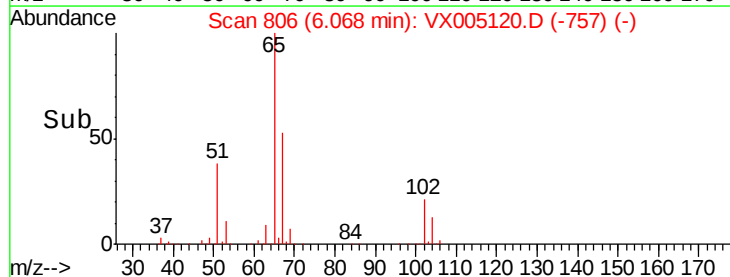
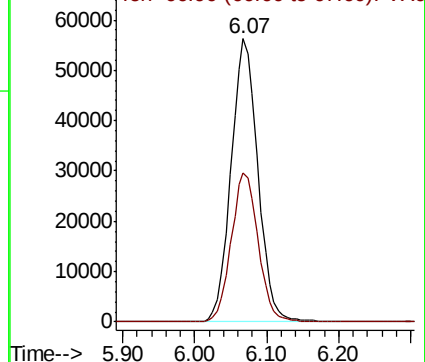
Ion Ratio Lower Upper

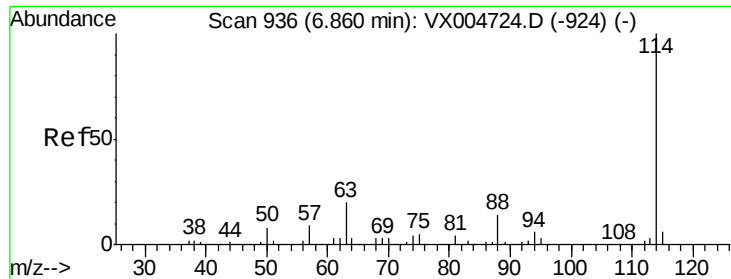
65 100

67 53.0 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

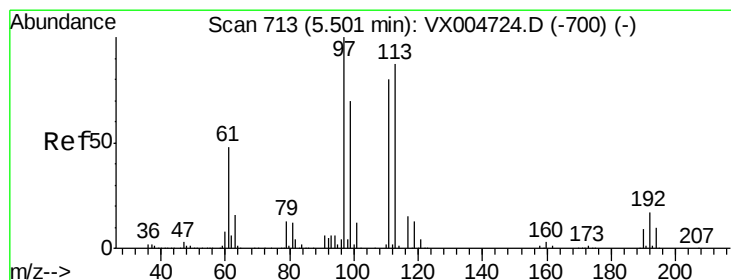
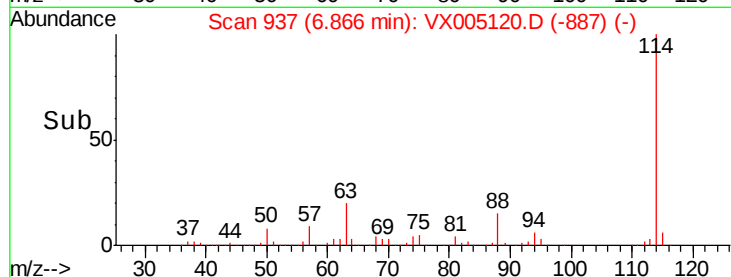
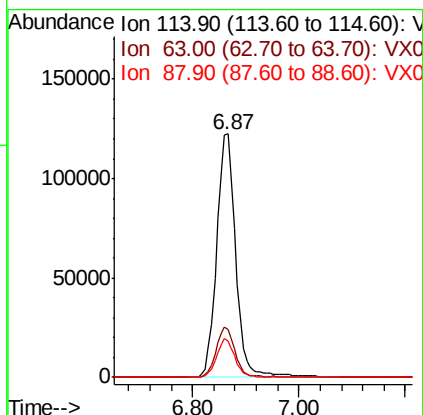
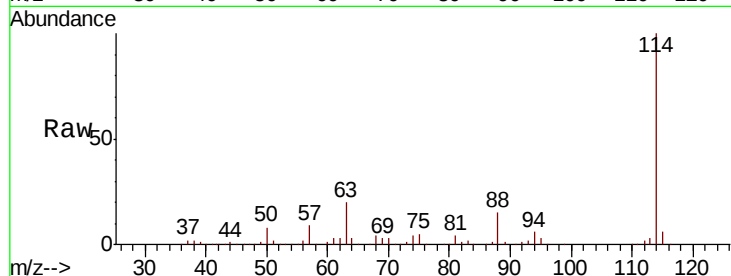




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 937
Delta R.T. 0.01 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

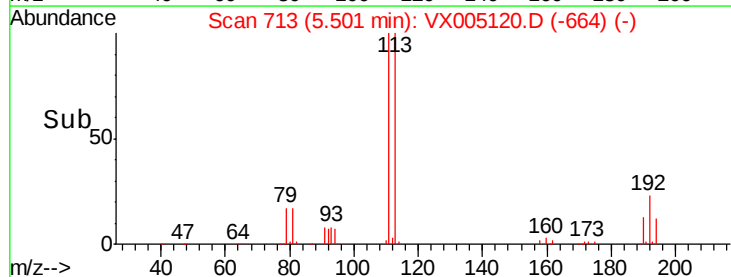
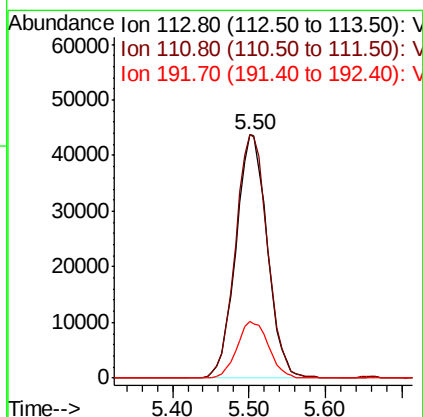
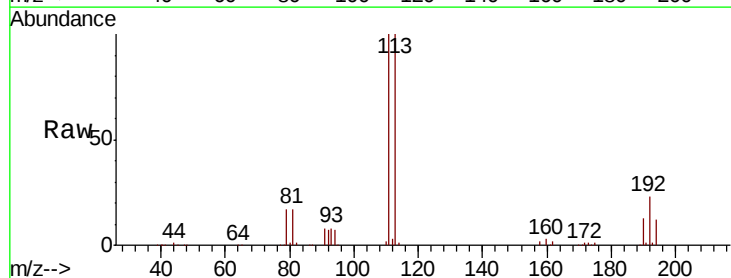
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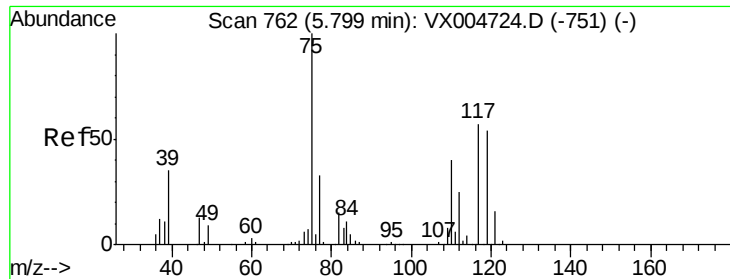
Tot Ion:114 Resp: 307047
Ion Ratio Lower Upper
114 100
63 19.7 0.0 39.8
88 15.1 0.0 27.0



#35
Dibromofluoromethane
Concen: 47.699 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

Tgt Ion:113 Resp: 124126
Ion Ratio Lower Upper
113 100
111 102.2 77.0 115.4
192 23.6 17.0 25.6





#36

1,1-Dichloropropene

Concen: 3.756 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE-117D2-20180926

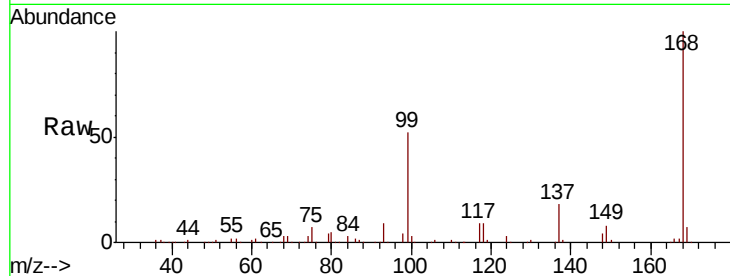
Tot Ion: 75 Resp: 13334

Ion Ratio Lower Upper

75 100

110 9.7 20.0 59.9#

77 0.2 27.1 40.7#

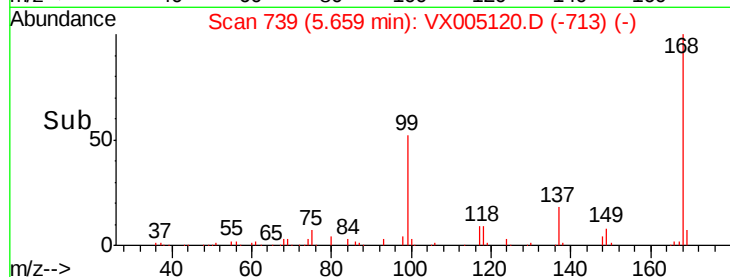


Abundance Ion 74.90 (74.60 to 75.60): VX004724.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX004724.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX004724.D (-751) (-)

Time-->

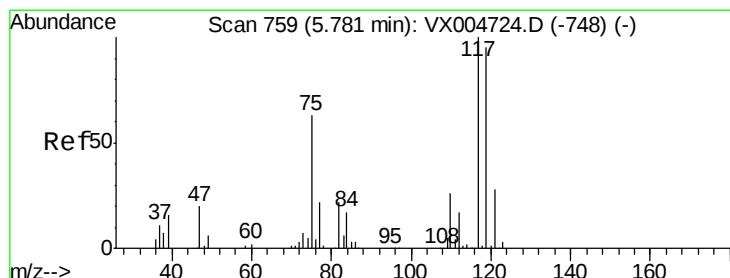


Abundance Ion 74.90 (74.60 to 75.60): VX005120.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX005120.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX005120.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.768 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

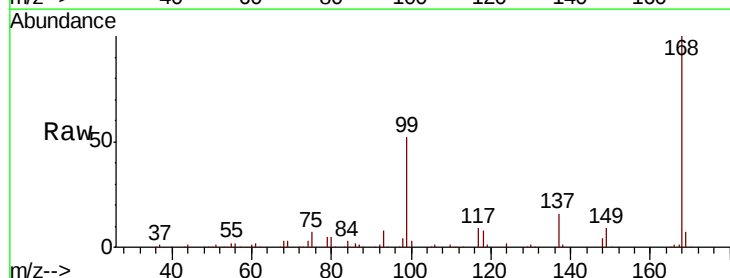
Tgt Ion: 117 Resp: 17795

Ion Ratio Lower Upper

117 100

119 7.3 75.2 112.8#

121 0.0 22.5 33.7#

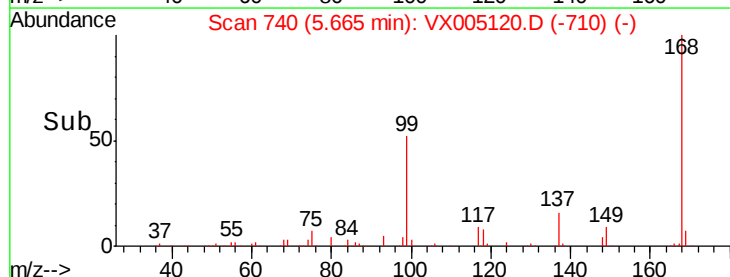


Abundance Ion 116.80 (116.50 to 117.50): VX004724.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX004724.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX004724.D (-748) (-)

Time-->

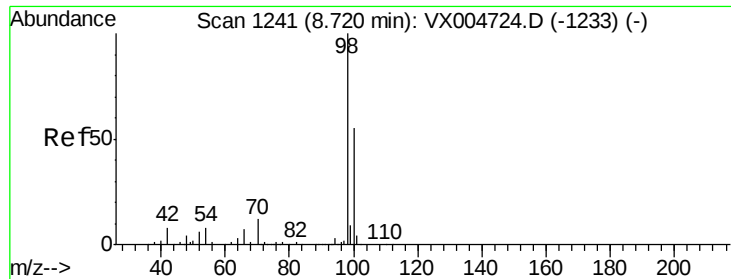


Abundance Ion 116.80 (116.50 to 117.50): VX005120.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX005120.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX005120.D (-710) (-)

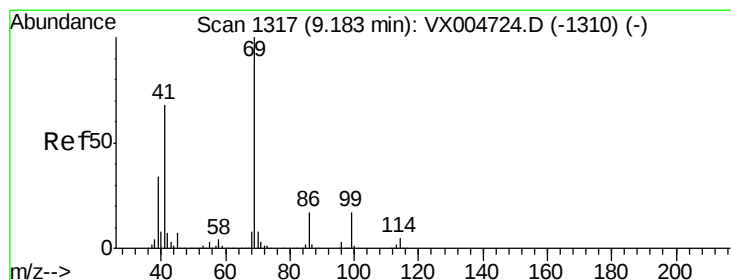
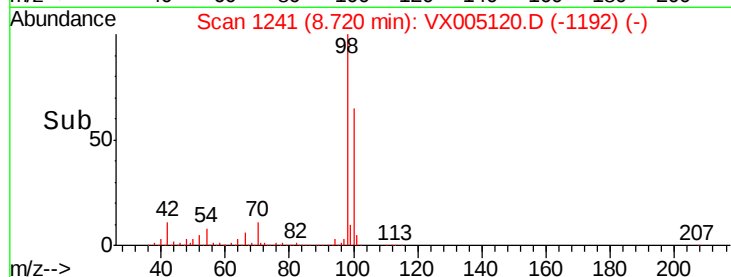
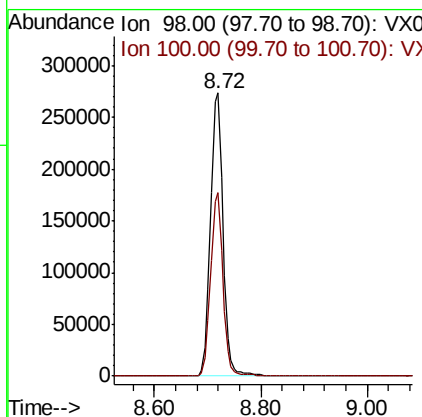
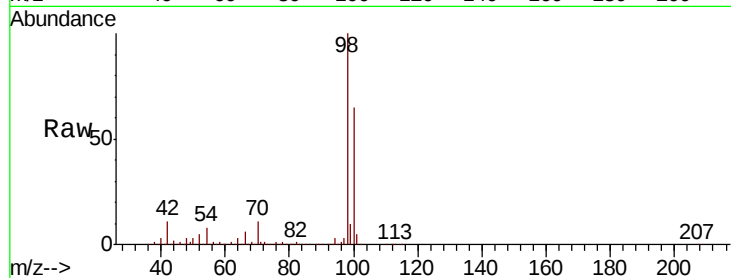
Time-->



#50
Toluene-d8
Concen: 51.192 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

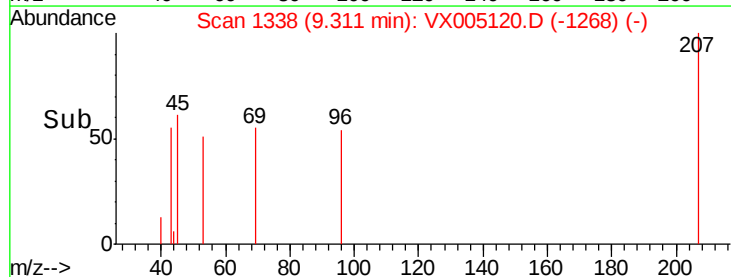
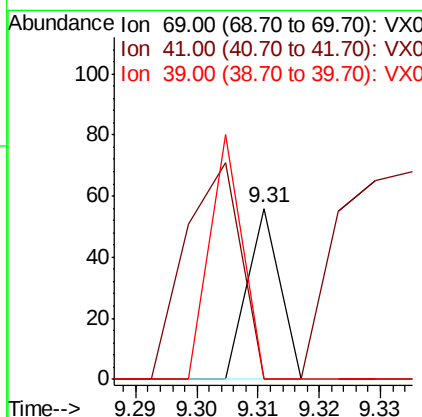
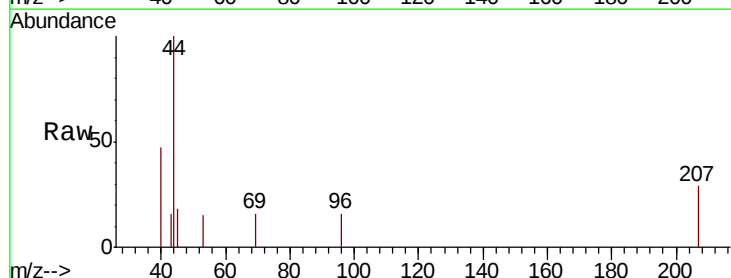
Instrument :
MSVOA_X
ClientSampleId :
RE-117D2-20180926

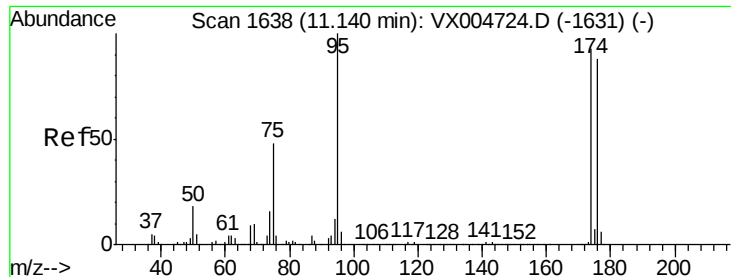
Tot Ion: 98 Resp: 442873
Ion Ratio Lower Upper
98 100
100 63.6 51.9 77.9



#56
Ethyl methacrylate
Concen: 2.866 ug/l
RT: 9.31 min Scan# 1338
Delta R.T. 0.13 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

Tgt Ion: 69 Resp: 20
Ion Ratio Lower Upper
69 100
41 225.0 56.9 85.3#
39 145.0 28.4 42.6#

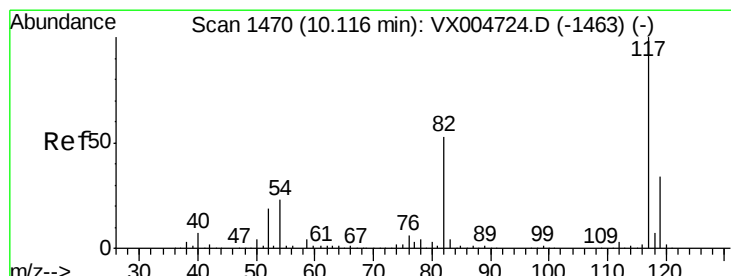
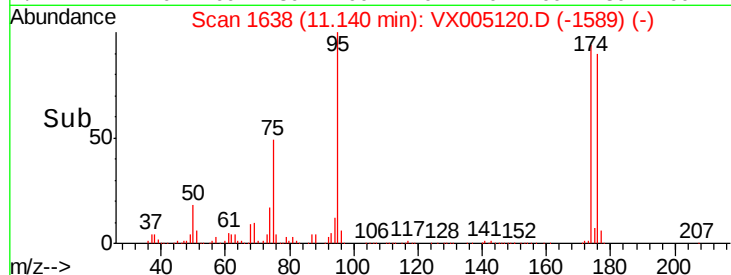
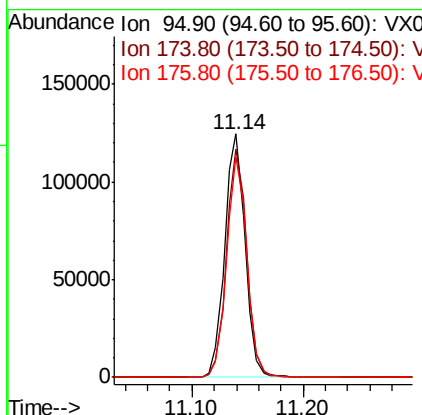
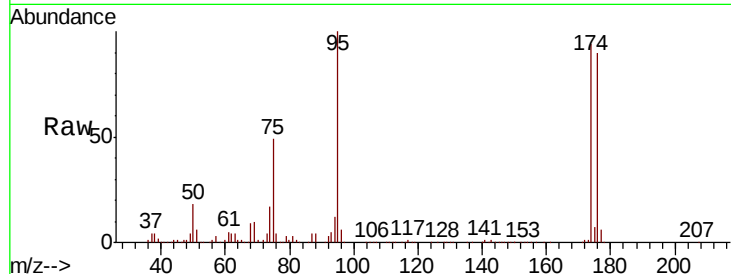




#62
4-Bromofluorobenzene
Concen: 50.494 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

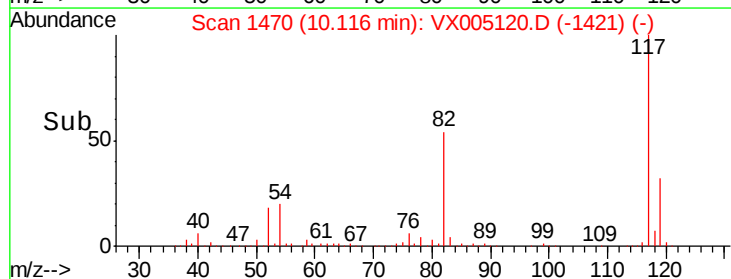
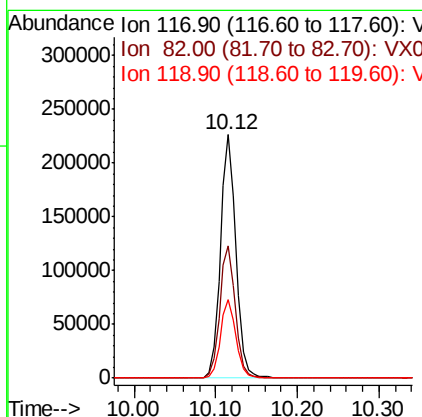
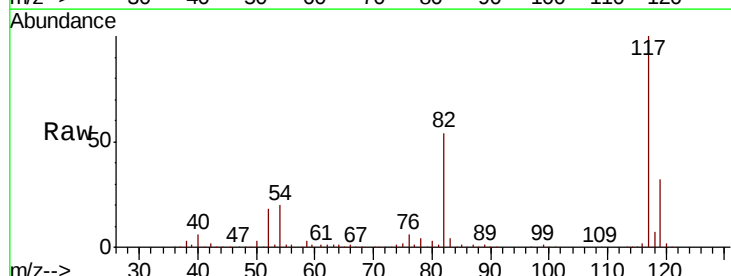
Instrument :
MSVOA_X
ClientSampleId :
RE-117D2-20180926

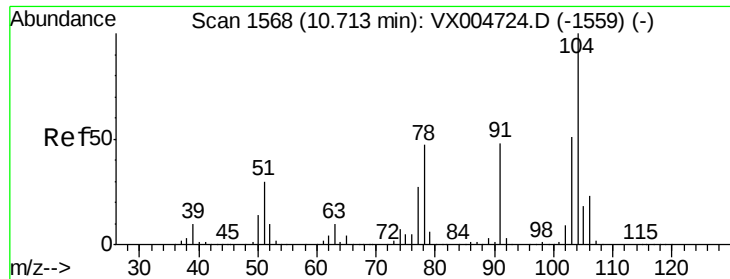
Tot Ion: 95 Resp: 157372
Ion Ratio Lower Upper
95 100
174 93.8 0.0 185.0
176 89.9 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

Tgt Ion: 117 Resp: 300700
Ion Ratio Lower Upper
117 100
82 54.5 42.2 63.4
119 32.3 27.4 41.0

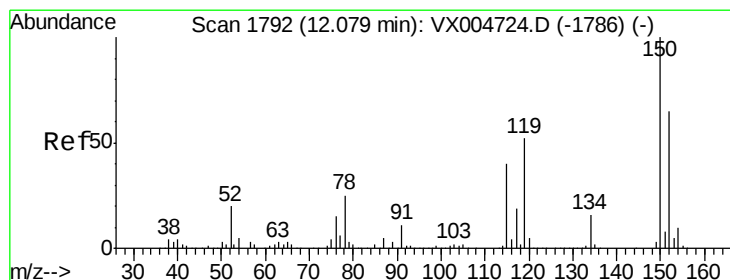
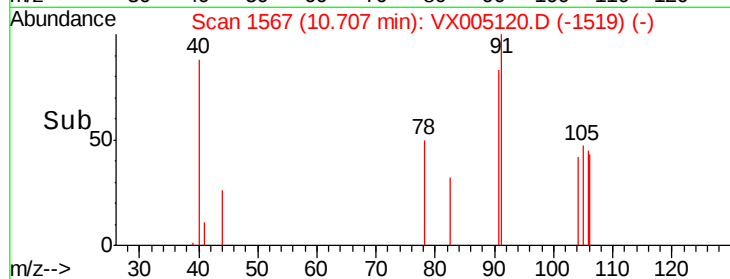
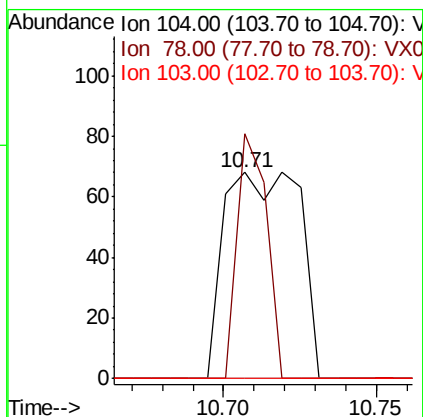
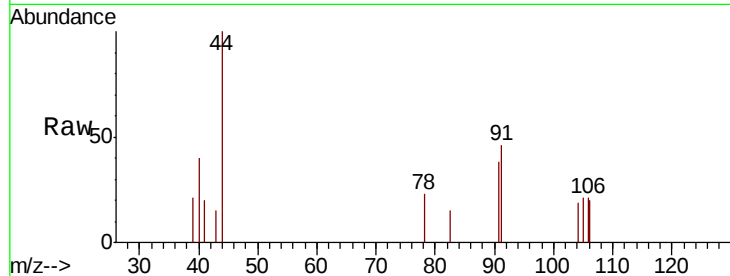




#70
Stvrene
Concen: 2.154 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

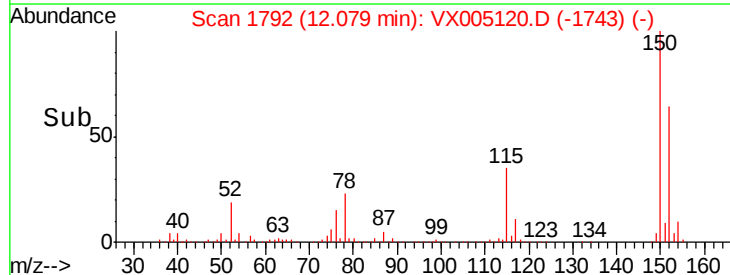
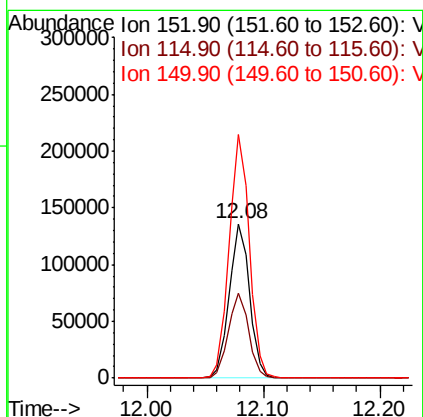
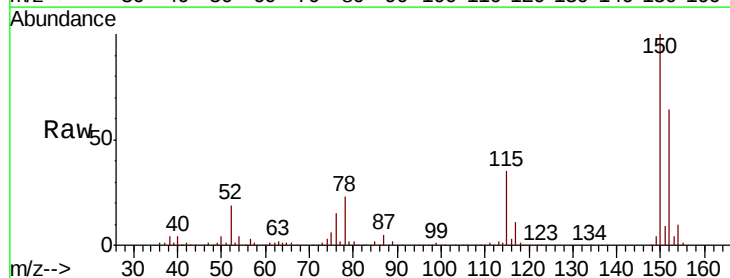
Instrument :
MSVOA_X
ClientSampleId :
RE-117D2-20180926

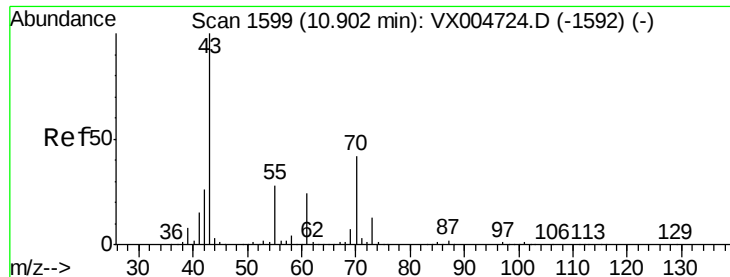
Tot Ion:104 Resp: 117
Ion Ratio Lower Upper
104 100
78 45.3 40.0 60.0
103 0.0 44.3 66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005120.D
Acq: 08 Oct 2018 12:01

Tgt Ion:152 Resp: 165639
Ion Ratio Lower Upper
152 100
115 55.1 40.2 120.6
150 157.0 0.0 351.0





#74

N-amvl acetate

Concen: 1.765 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE-117D2-20180926

Tot Ion: 43 Resp: 103

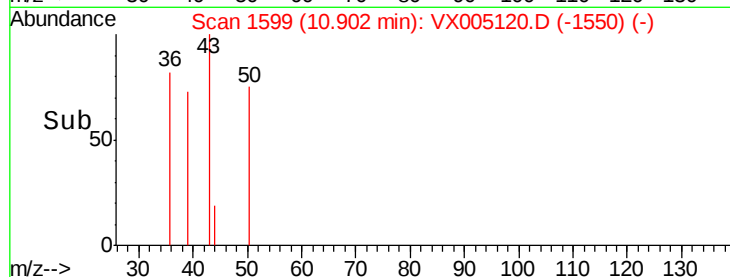
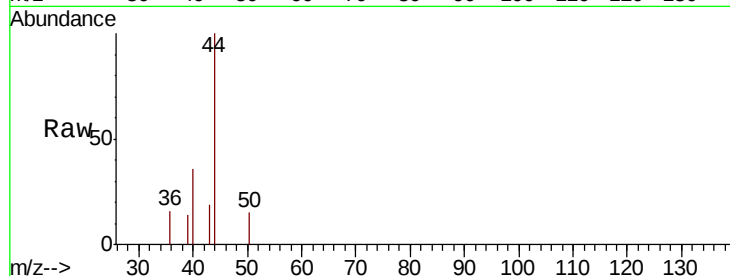
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 23.3 21.6 32.4

61 0.0 19.1 28.7#

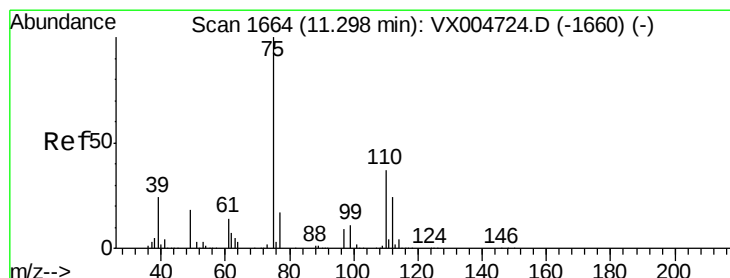
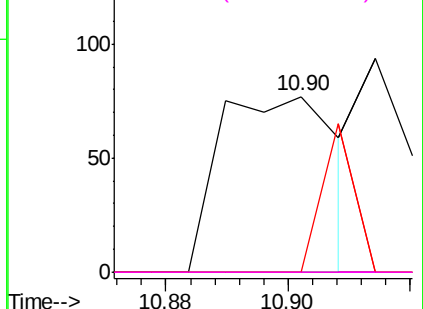


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.756 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005120.D

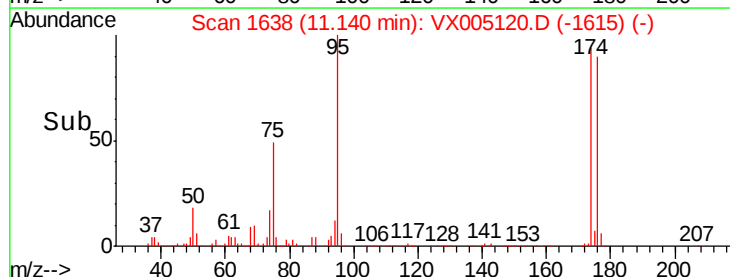
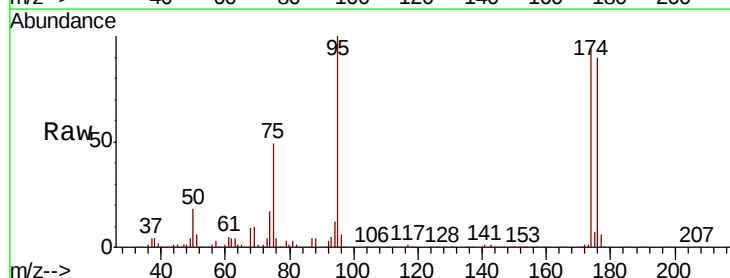
Acq: 08 Oct 2018 12:01

Tgt Ion: 75 Resp: 77058

Ion Ratio Lower Upper

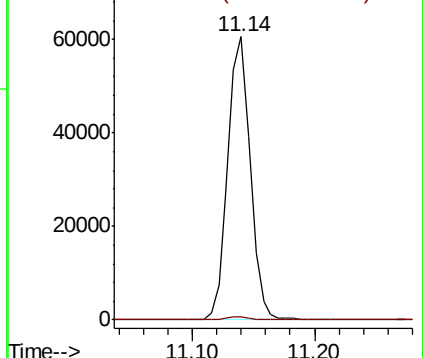
75 100

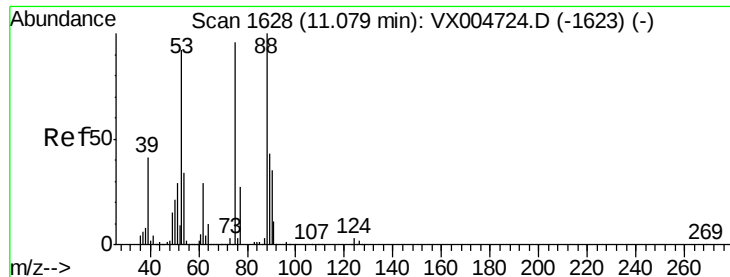
77 1.2 21.4 64.3#



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: 56.347 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

Instrument :

MSVOA_X

ClientSampleId :

RE-117D2-20180926

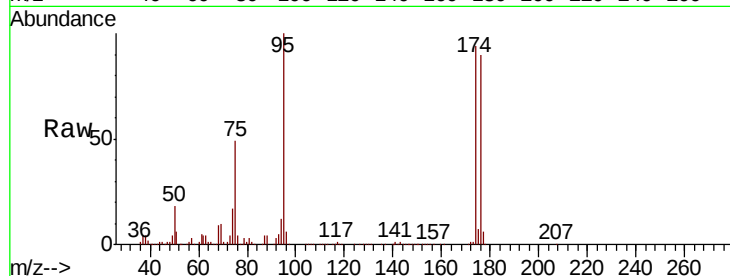
Tot Ion: 75 Resp: 77058

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

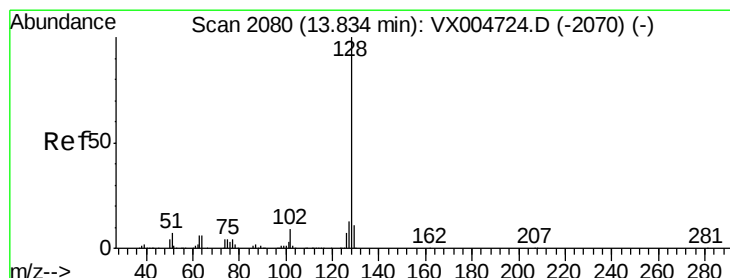
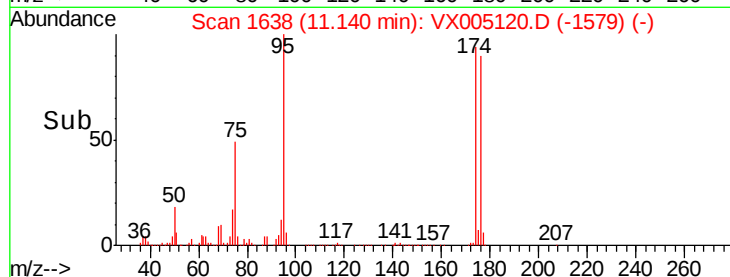
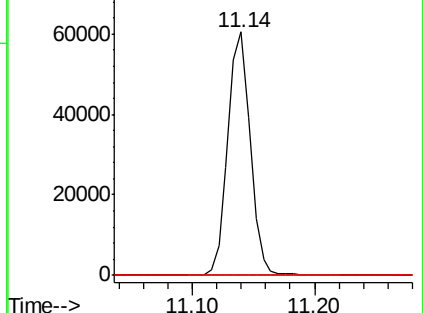
89 0.0 37.1 55.7#



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: 0.763 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005120.D

Acq: 08 Oct 2018 12:01

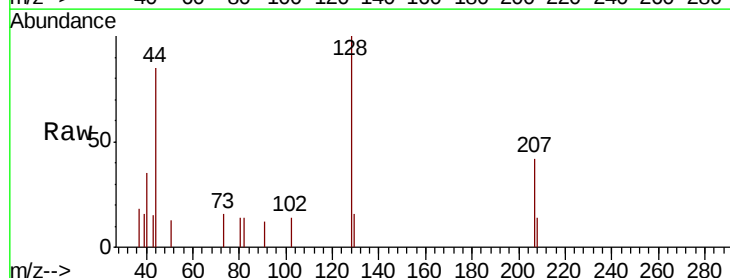
Tgt Ion:128 Resp: 614

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 4.1 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

