

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX091818\
 Data File : VX004663.D
 Acq On : 18 Sep 2018 17:36
 Operator : JC/MD
 Sample : J4936-34
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PHASE-3

Quant Time: Sep 19 02:38:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	246174	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	350412	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	335960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192091	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	144097	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	
35) Dibromofluoromethane	5.50	113	138740	43.27	ug/l	0.00
Spiked Amount			Recovery	=	86.54%	
50) Toluene-d8	8.71	98	491651	45.72	ug/l	0.00
Spiked Amount			Recovery	=	91.44%	
62) 4-Bromofluorobenzene	11.14	95	181722	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	

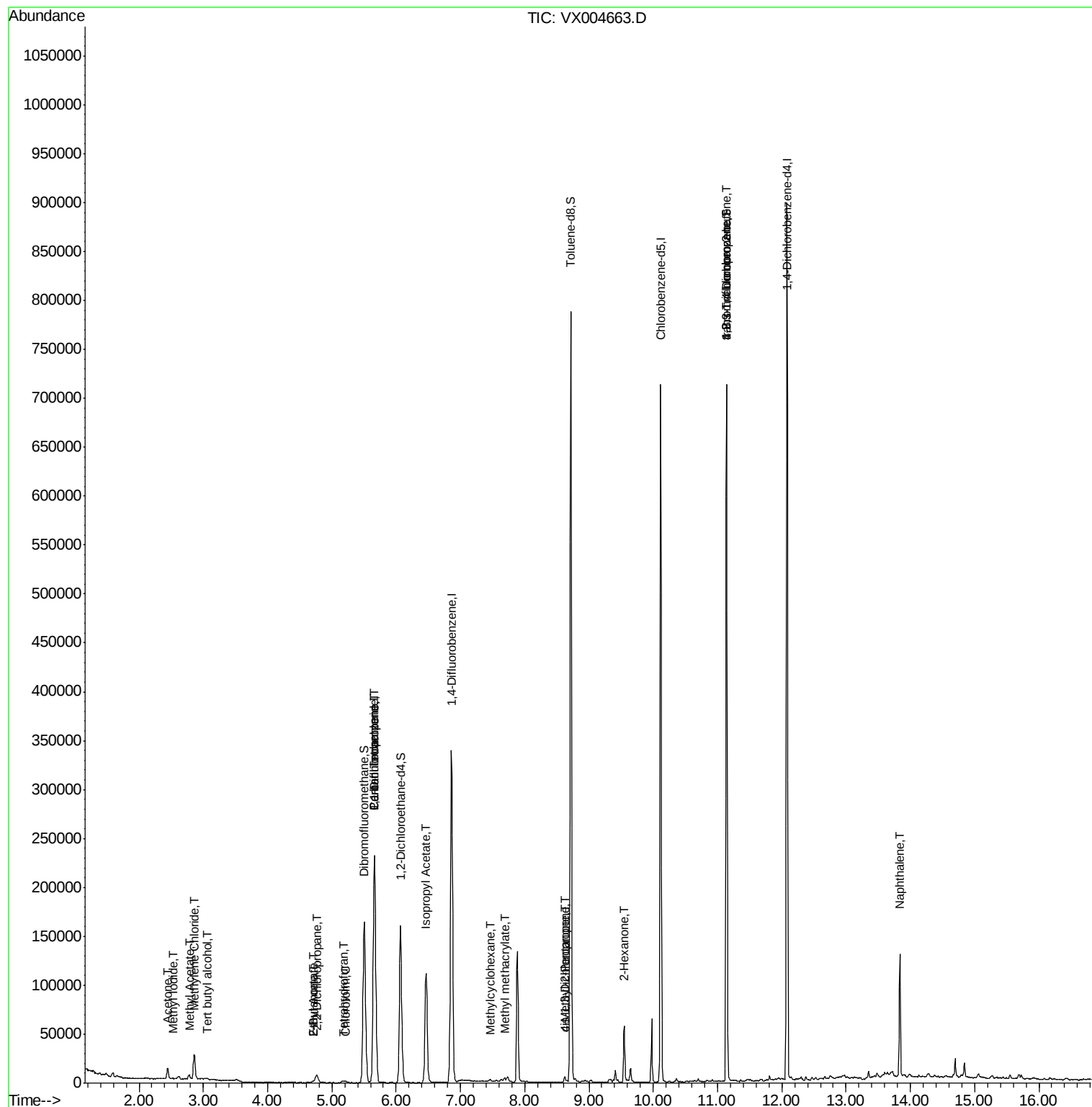
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	521	Below Cal		99
10) Methyl Iodide	2.53	142	221	4.318	ug/l #	78
11) Tert butyl alcohol	3.06	59	2013	2.658	ug/l #	84
16) Acetone	2.45	43	11995	7.742	ug/l	90
18) Methyl Acetate	2.78	43	5261	1.210	ug/l	96
20) Methylene Chloride	2.85	84	12854	4.045	ug/l	94
25) 2-Butanone	4.71	43	4001	1.623	ug/l	92
26) 2,2-Dichloropropane	4.76	77	758	0.205	ug/l #	52
29) Tetrahydrofuran	5.18	42	1711	1.151	ug/l	98
30) Chloroform	5.21	83	1853	0.353	ug/l	94
36) 1,1-Dichloropropene	5.66	75	15346	3.607	ug/l #	49
37) Ethyl Acetate	4.71	43	4001	0.827	ug/l #	67
38) Carbon Tetrachloride	5.66	117	20423	4.915	ug/l #	16
39) Methylcyclohexane	7.46	83	951	0.214	ug/l #	78
43) Isopropyl Acetate	6.47	43	151132	23.517	ug/l	99
48) Methyl methacrylate	7.69	41	4946	1.555	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2055	0.453	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1043	0.241	ug/l #	55
59) 2-Hexanone	9.55	43	6225	1.790	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	83440	21.590	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	83440	68.819	ug/l #	10
95) Naphthalene	13.83	128	79983	6.099	ug/l	100

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

Instrument :

MSVOA_X

ClientSampleId :

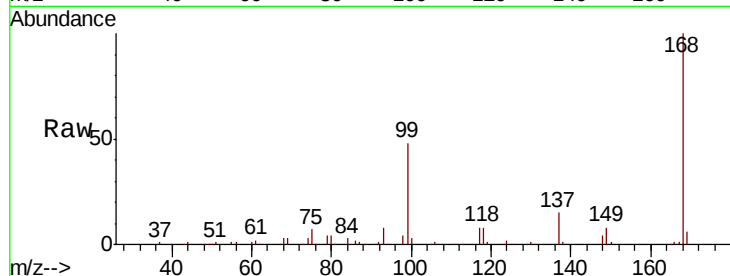
PHASE-3

Tgt Ion:168 Resp: 246174

Ion Ratio Lower Upper

168 100

99 47.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

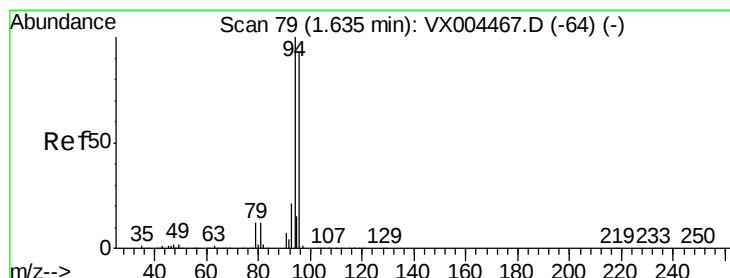
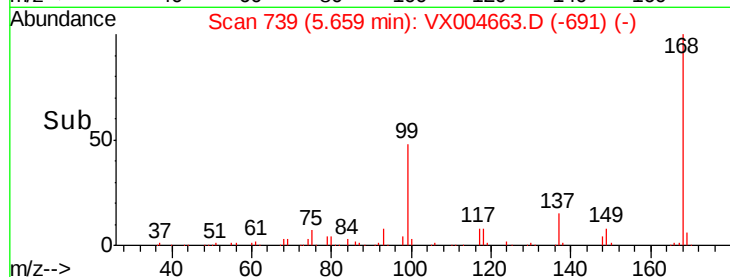
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004663.D

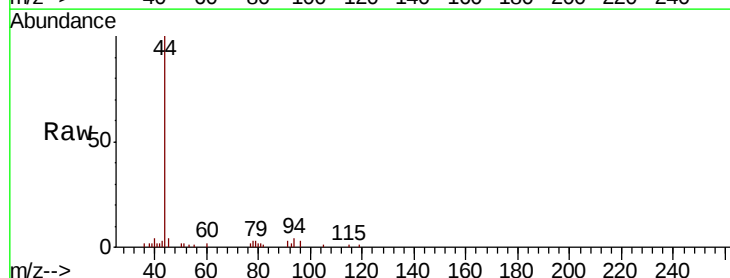
Acq: 18 Sep 2018 17:36

Tgt Ion: 94 Resp: 521

Ion Ratio Lower Upper

94 100

96 92.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

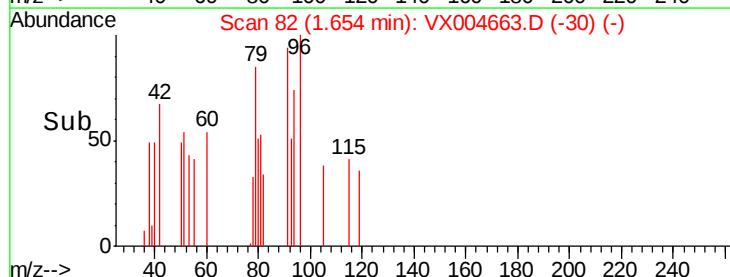
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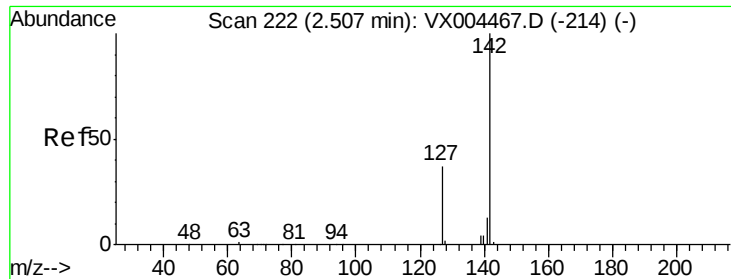
100

50

0

Time--> 1.60 1.65 1.70

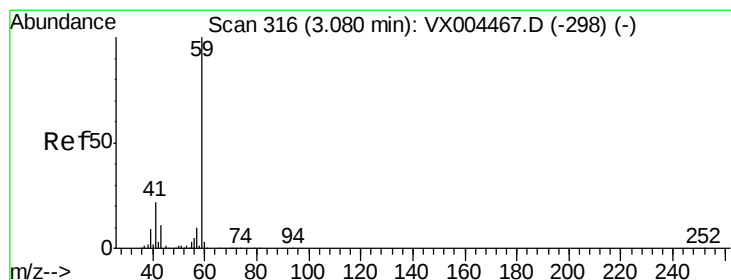
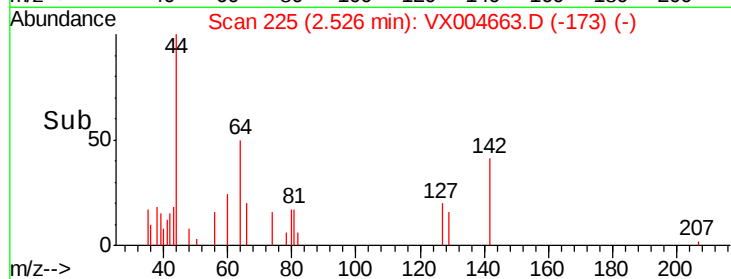
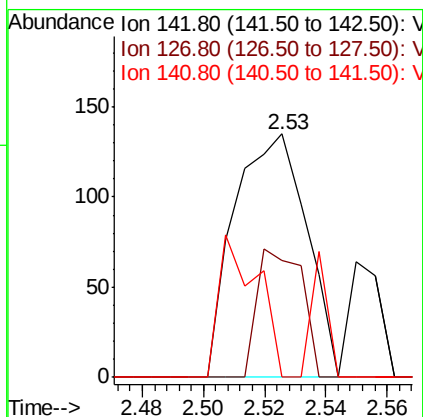
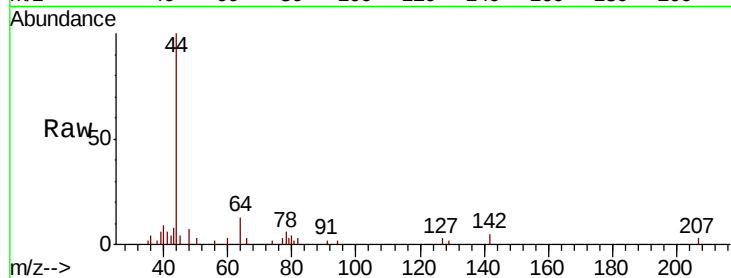




#10
Methyl Iodide
Concen: 4.318 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

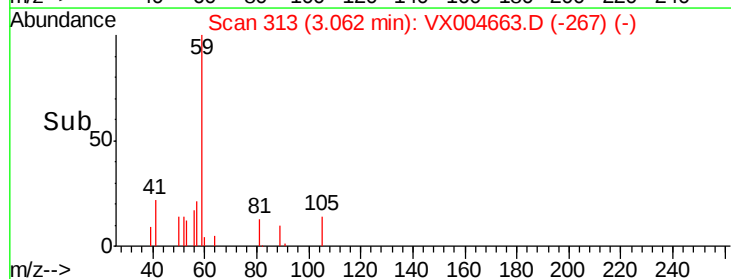
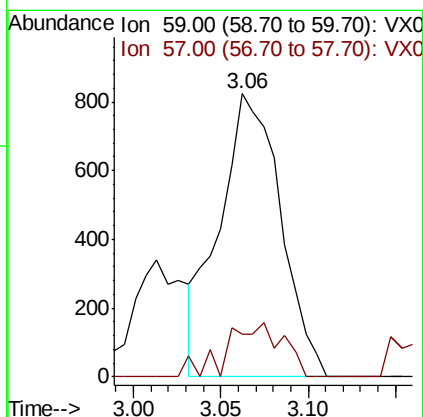
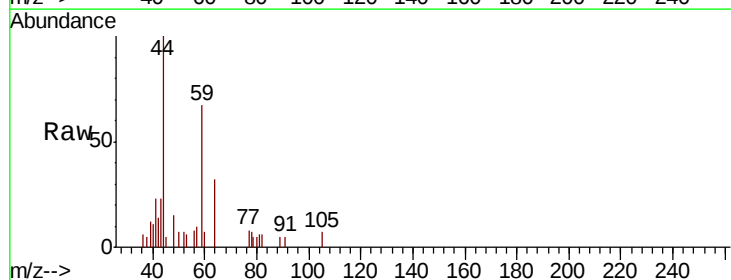
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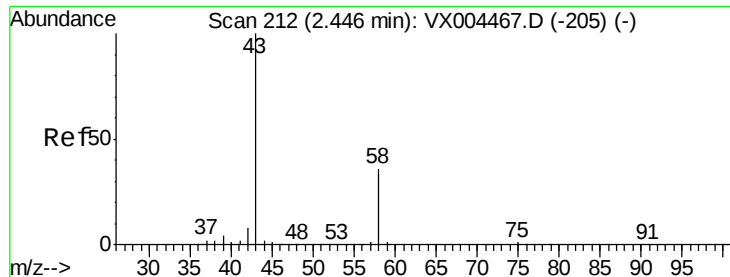
Tgt Ion: 142 Resp: 221
Ion Ratio Lower Upper
142 100
127 32.6 33.8 50.6#
141 31.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.658 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Tgt Ion: 59 Resp: 2013
Ion Ratio Lower Upper
59 100
57 16.3 8.2 12.4#

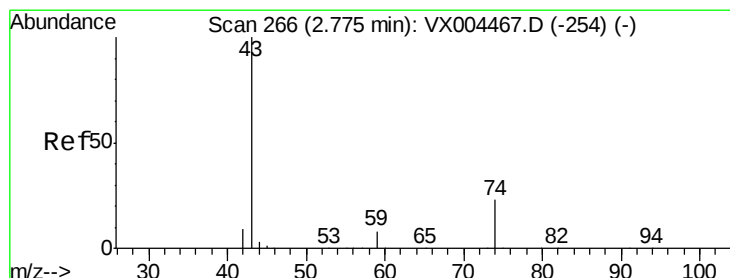
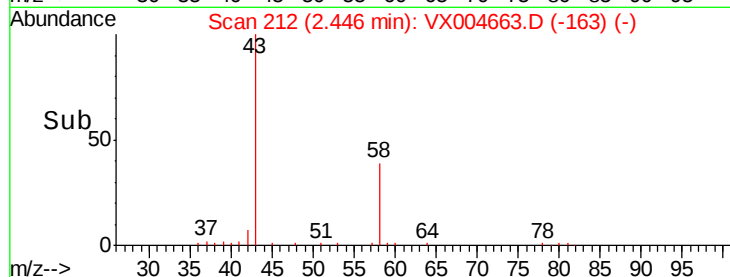
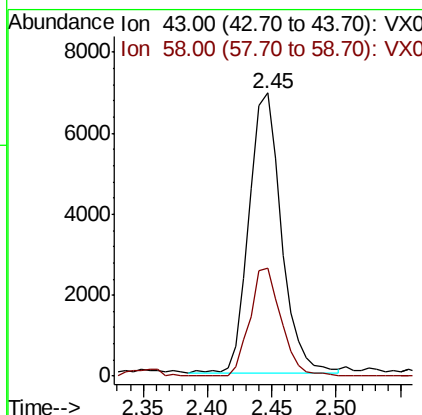
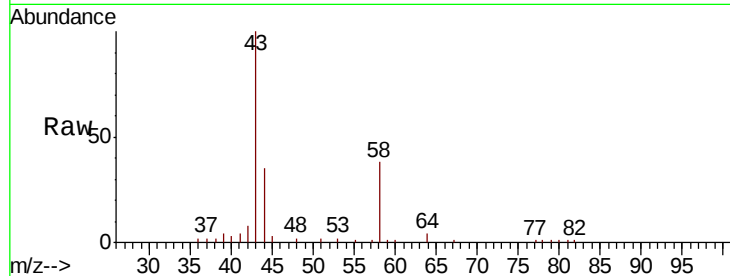




#16
Acetone
Concen: 7.742 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

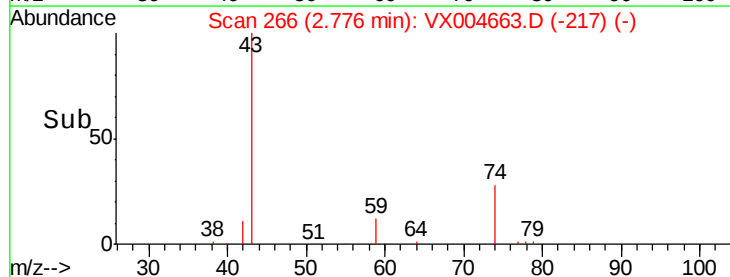
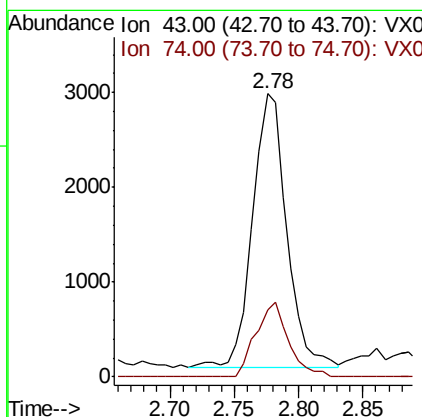
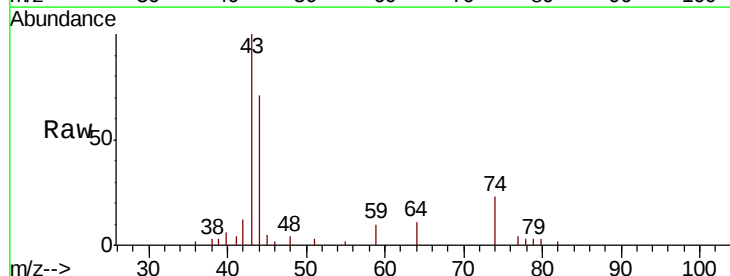
Instrument :
MSVOA_X
ClientSampleId :
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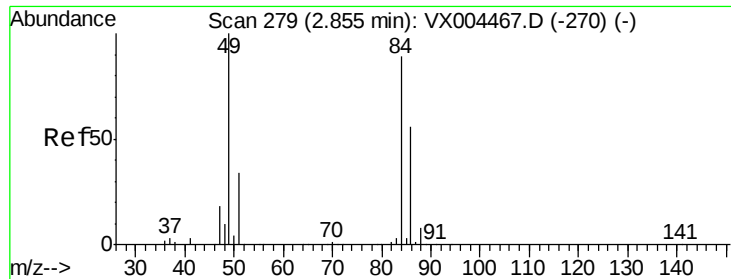
Tgt Ion: 43 Resp: 11995
Ion Ratio Lower Upper
43 100
58 38.5 26.2 39.4



#18
Methyl Acetate
Concen: 1.210 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Tgt Ion: 43 Resp: 5261
Ion Ratio Lower Upper
43 100
74 26.2 19.4 29.2

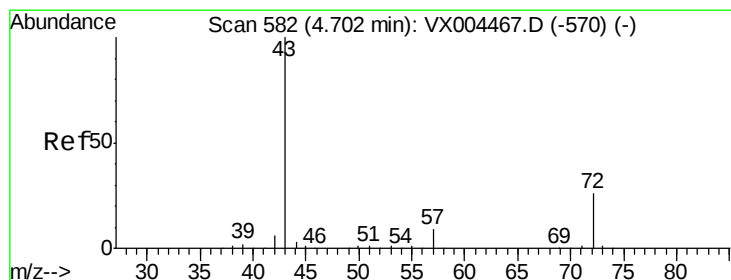
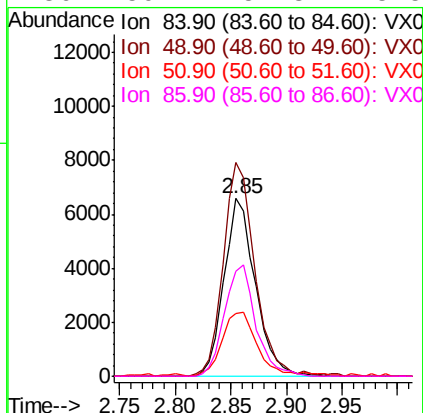
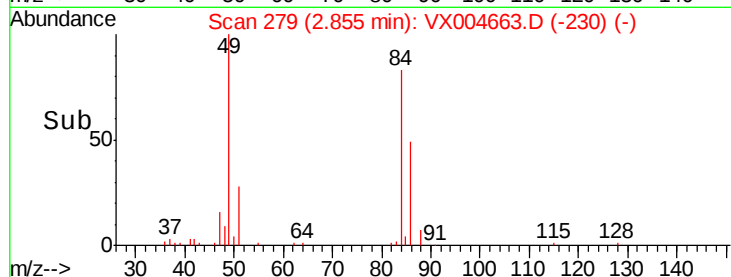
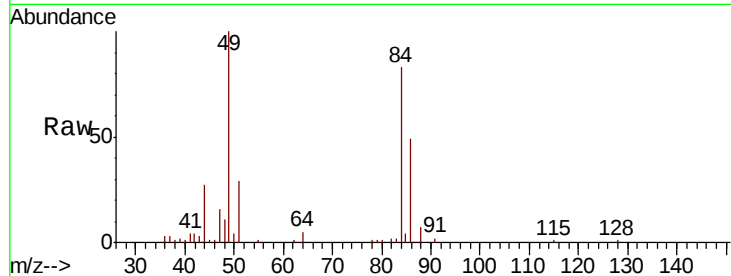




#20
Methylene Chloride
Concen: 4.045 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

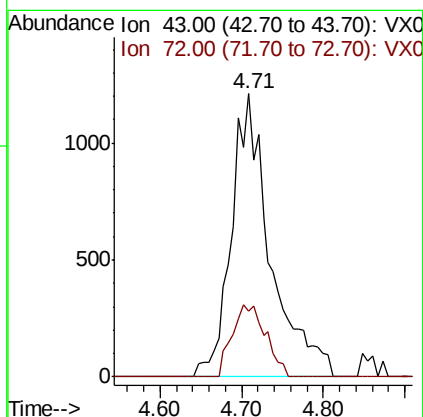
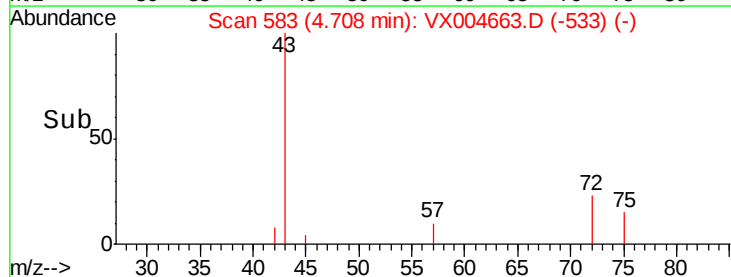
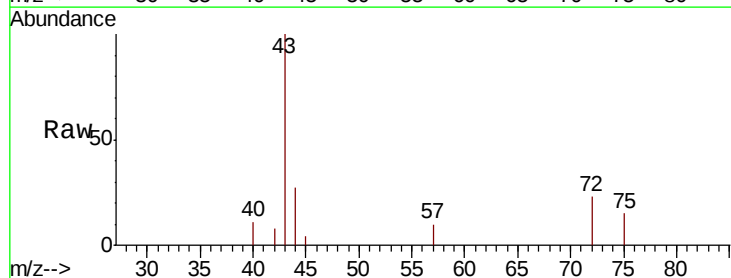
Instrument :
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ClientSampleId :
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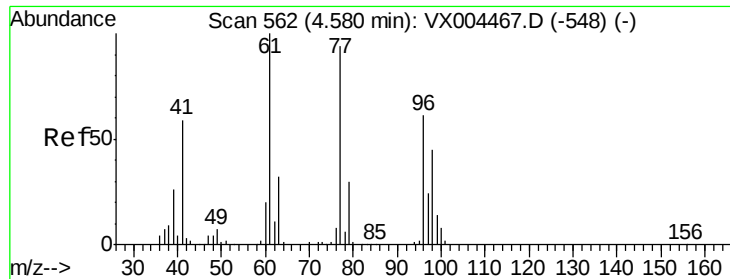
Tgt Ion:	84	Resp:	12854
Ion	Ratio	Lower	Upper
84	100		
49	120.3	101.2	151.8
51	35.2	29.5	44.3
86	59.4	52.3	78.5



#25
2-Butanone
Concen: 1.623 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Tgt Ion:	43	Resp:	4001
Ion	Ratio	Lower	Upper
43	100		
72	23.4	22.0	33.0

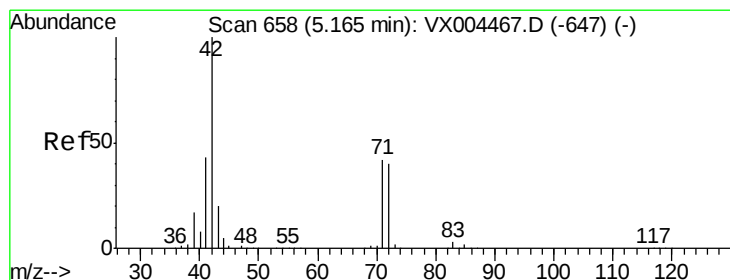
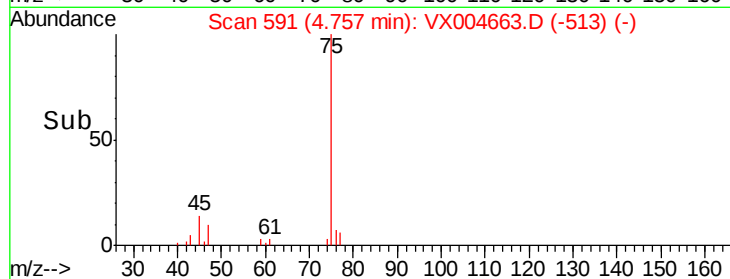
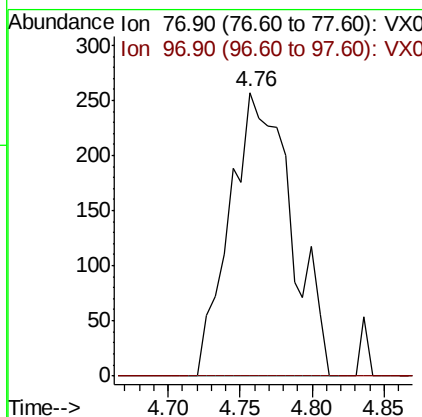
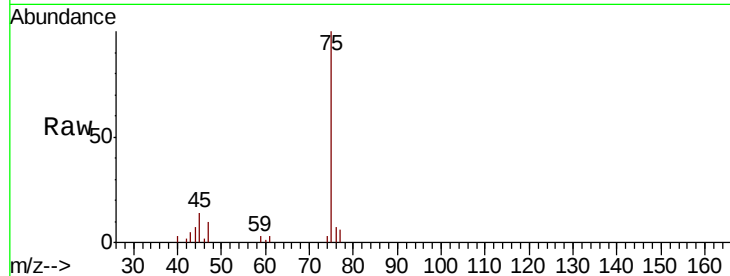




#26
 2,2-Dichloropropane
 Concen: 0.205 ug/l
 RT: 4.76 min Scan# 591
 Delta R.T. 0.18 min
 Lab File: VX004663.D
 Acq: 18 Sep 2018 17:36

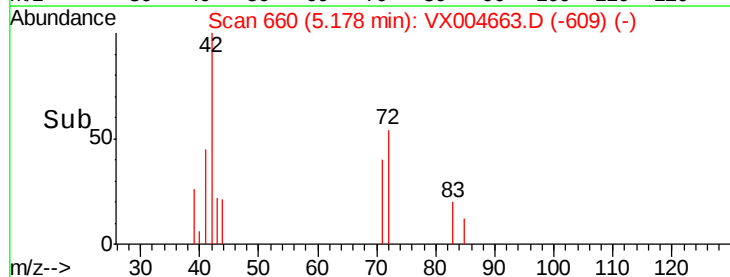
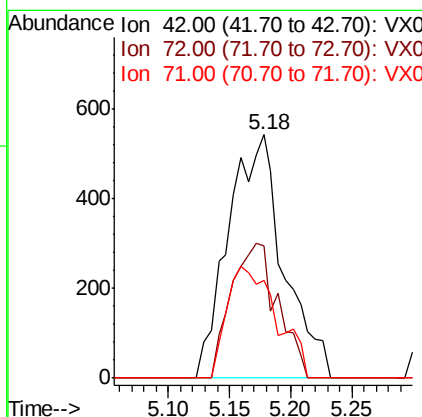
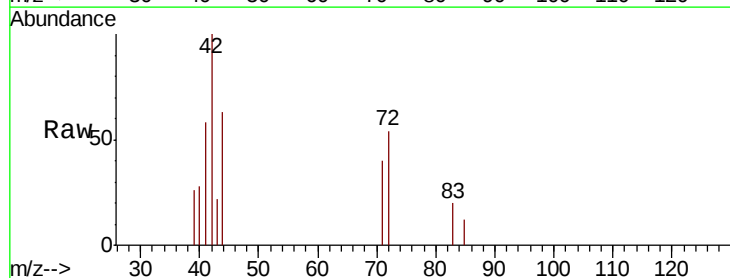
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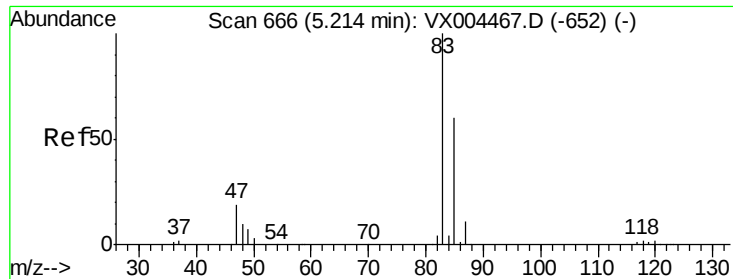
Tgt Ion: 77 Resp: 758
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.7 35.0#



#29
 Tetrahydrofuran
 Concen: 1.151 ug/l
 RT: 5.18 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VX004663.D
 Acq: 18 Sep 2018 17:36

Tgt Ion: 42 Resp: 1711
 Ion Ratio Lower Upper
 42 100
 72 46.5 37.4 56.0
 71 41.2 34.5 51.7

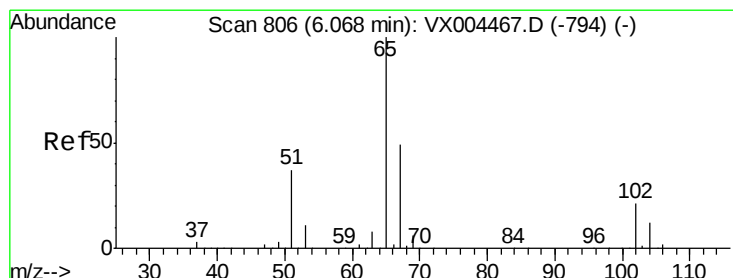
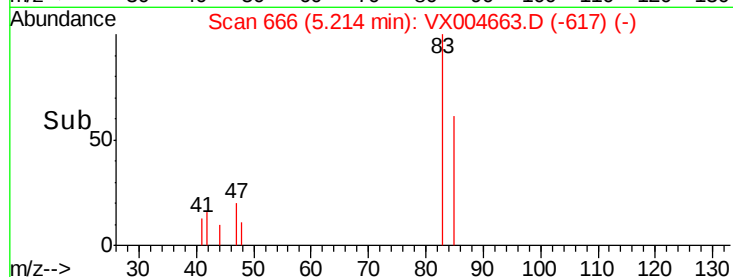
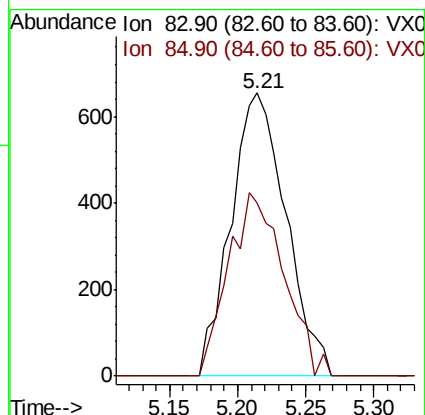
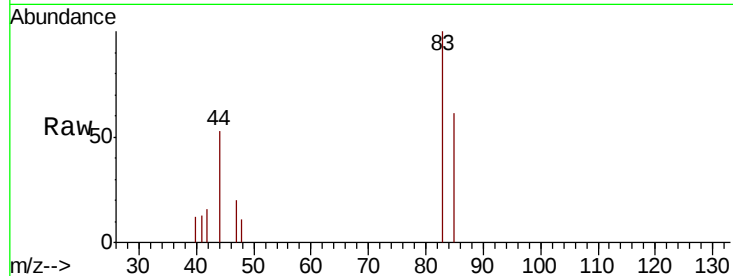




#30
Chloroform
Concen: 0.353 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

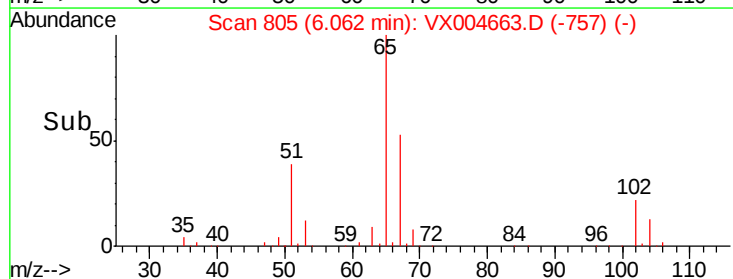
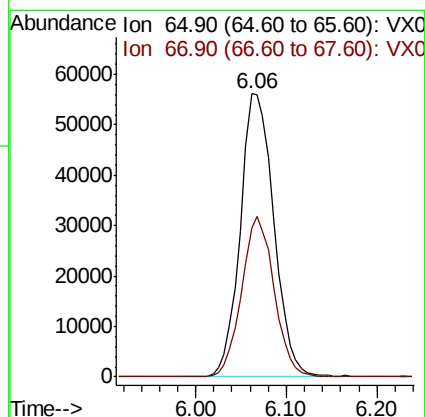
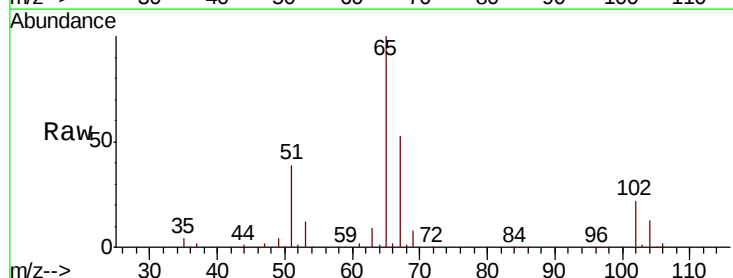
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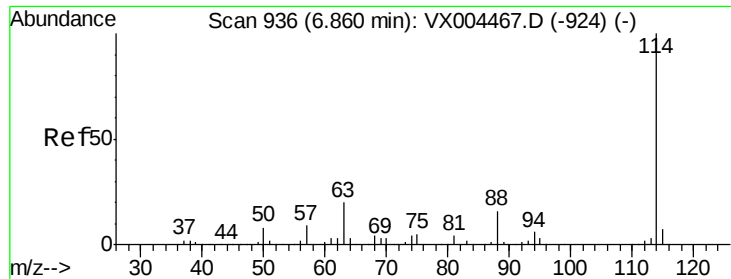
Tgt Ion: 83 Resp: 1853
Ion Ratio Lower Upper
83 100
85 61.0 52.6 79.0



#33
1,2-Dichloroethane-d4
Concen: 45.397 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Tgt Ion: 65 Resp: 144097
Ion Ratio Lower Upper
65 100
67 54.9 0.0 106.8

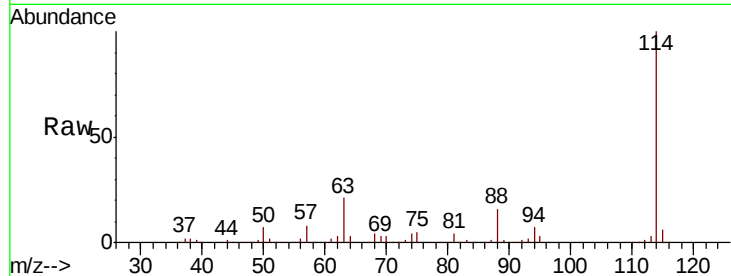




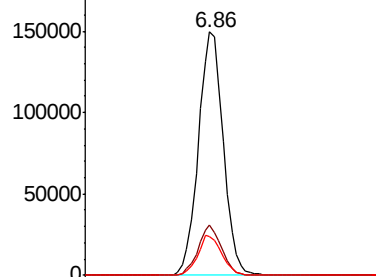
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004663.D
 Acq: 18 Sep 2018 17:36

Instrument :
 MSVOA_X
 ClientSampleId :
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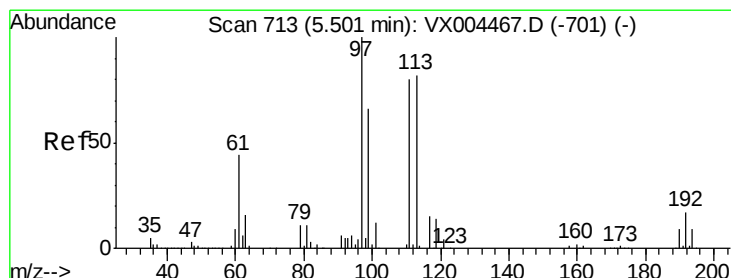
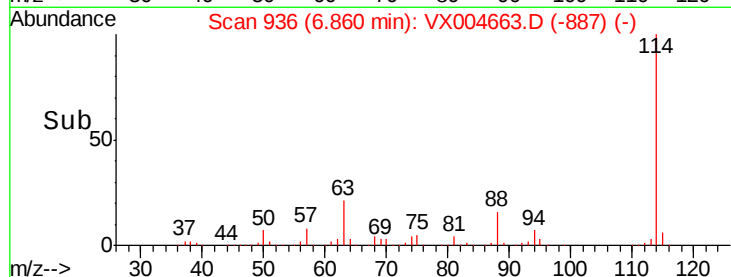
Tgt Ion:114 Resp: 350412
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 39.0
 88 16.1 0.0 30.4



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

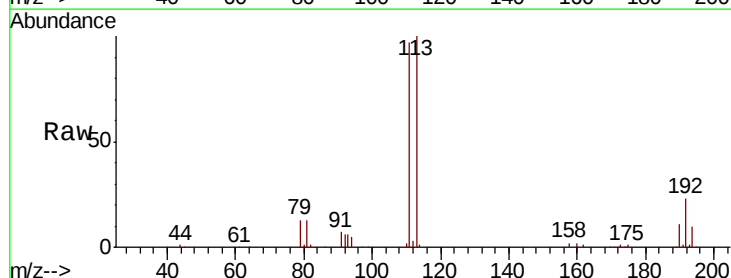


Time--> 6.70 6.80 6.90 7.00

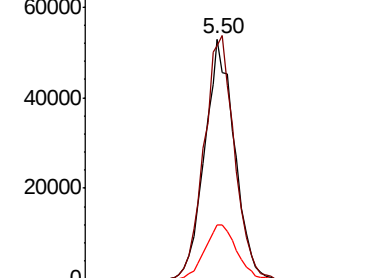


#35
 Dibromofluoromethane
 Concen: 43.267 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004663.D
 Acq: 18 Sep 2018 17:36

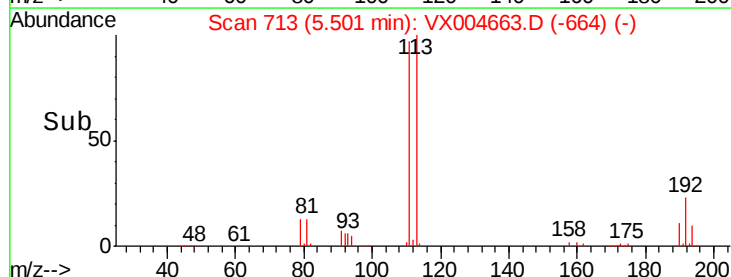
Tgt Ion:113 Resp: 138740
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.4 123.6
 192 23.9 19.4 29.2

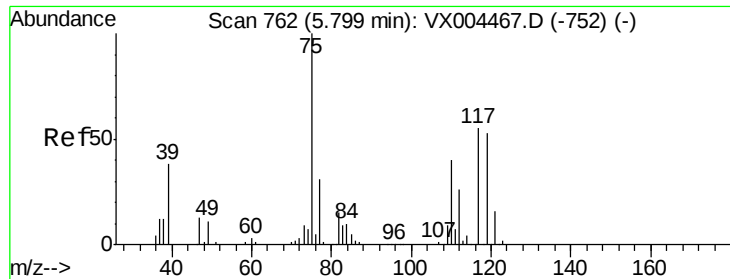


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



Time--> 5.40 5.50 5.60





#36

1,1-Dichloropropene

Concen: 3.607 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

Instrument :

MSVOA_X

ClientSampleId :

PHASE-3

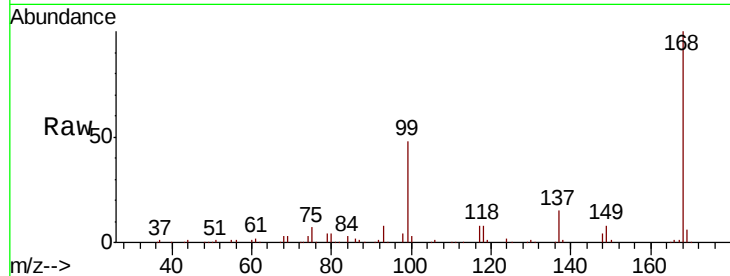
Tgt Ion: 75 Resp: 15346

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

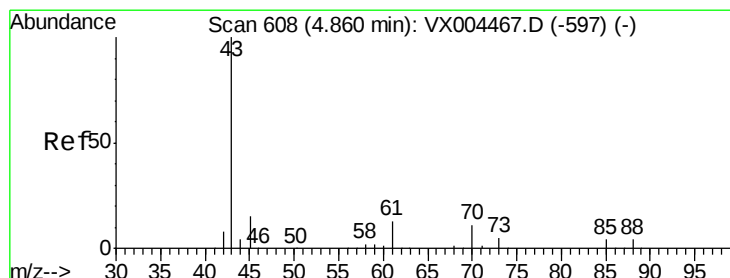
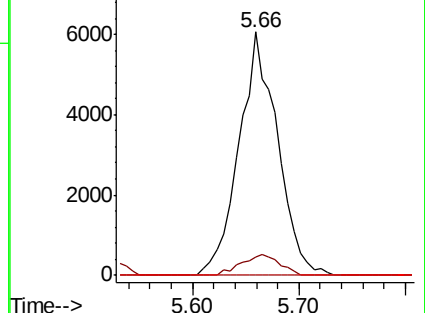
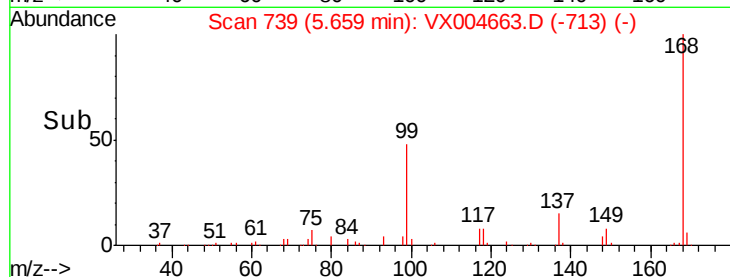
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.827 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

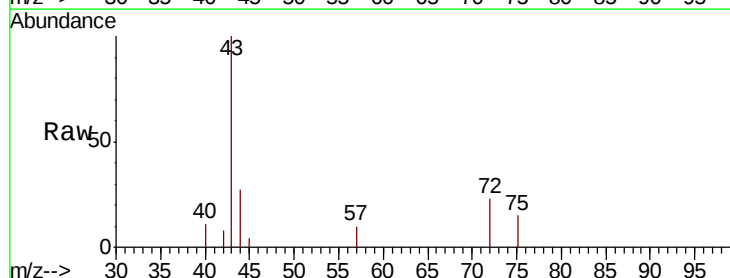
Tgt Ion: 43 Resp: 4001

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

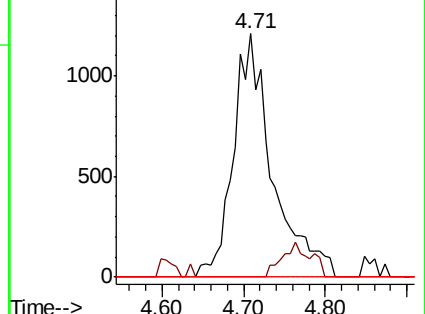
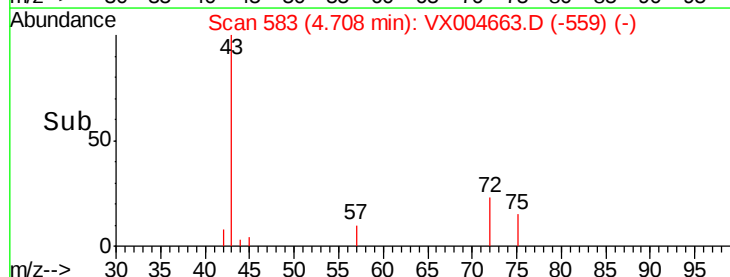
70 0.0 9.0 13.6#

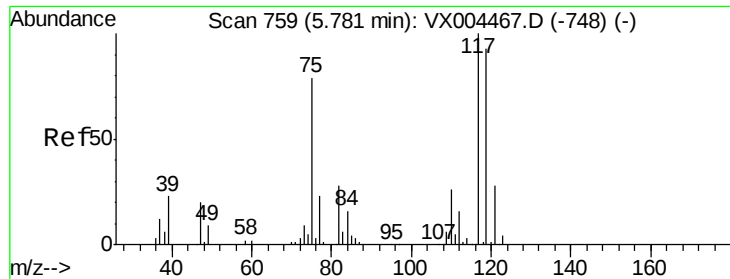


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 4.915 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

Instrument :

MSVOA_X

ClientSampleId :

PHASE-3

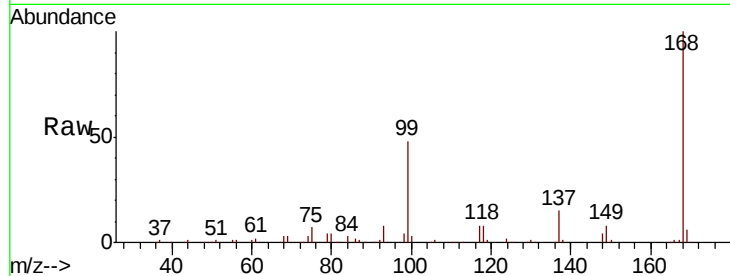
Tgt Ion:117 Resp: 20423

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

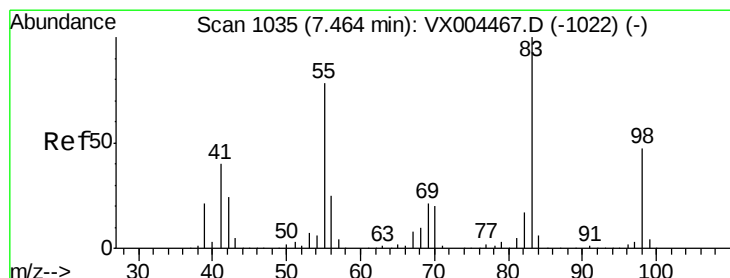
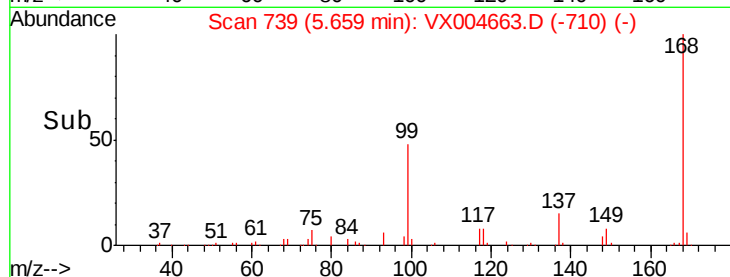
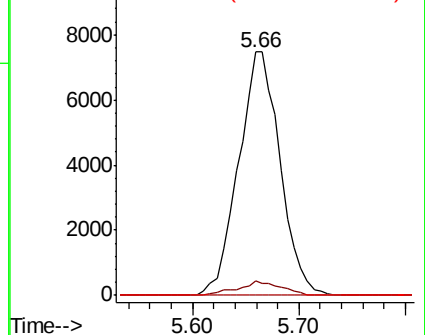
121 0.0 24.9 37.3#



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



#39

Methylcyclohexane

Concen: 0.214 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

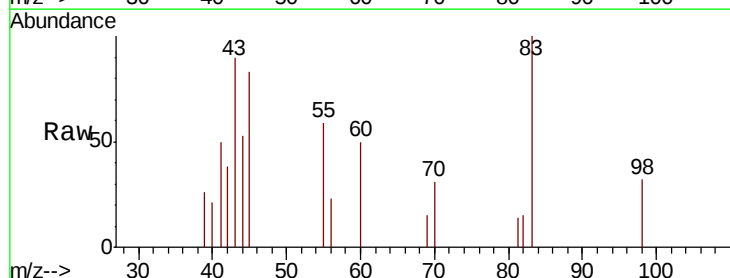
Tgt Ion: 83 Resp: 951

Ion Ratio Lower Upper

83 100

55 59.0 61.0 91.4#

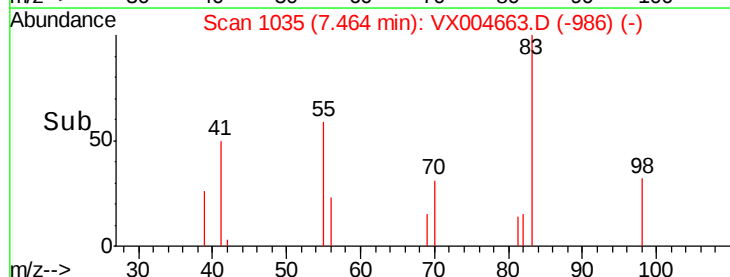
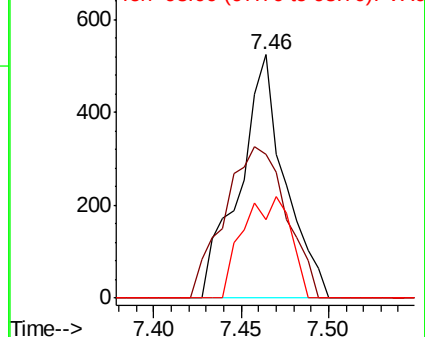
98 32.0 39.6 59.4#

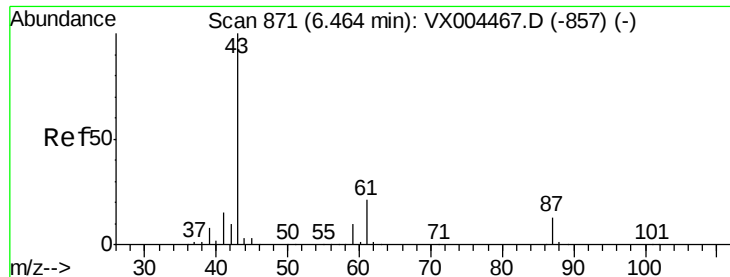


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#43

Isopropyl Acetate

Concen: 23.517 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.01 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

Instrument :

MSVOA_X

ClientSampleId :

PHASE-3

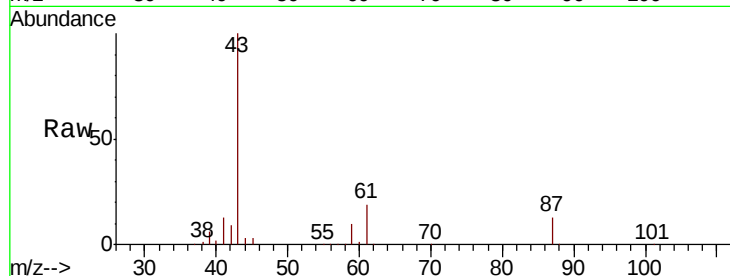
Tgt Ion: 43 Resp: 151132

Ion Ratio Lower Upper

43 100

61 20.9 17.0 25.4

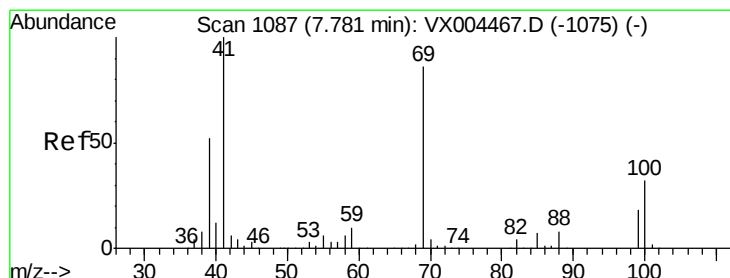
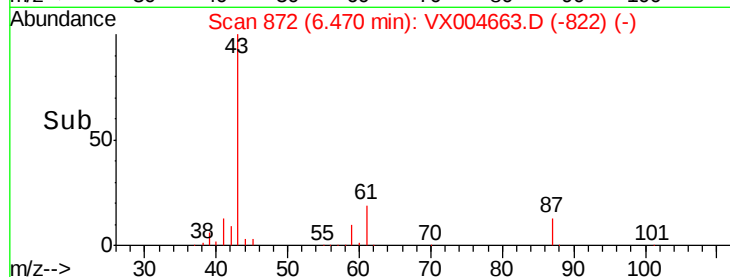
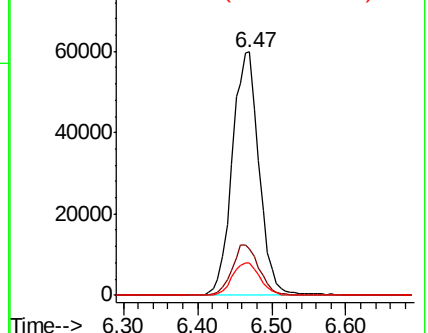
87 13.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.555 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

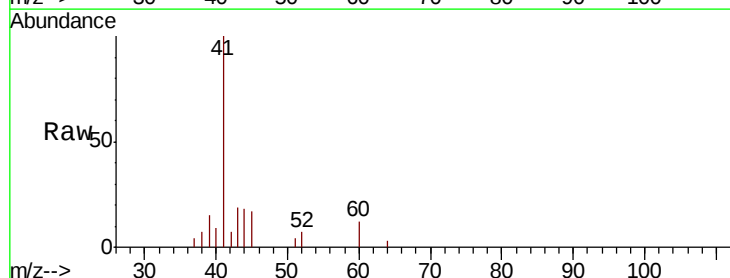
Tgt Ion: 41 Resp: 4946

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

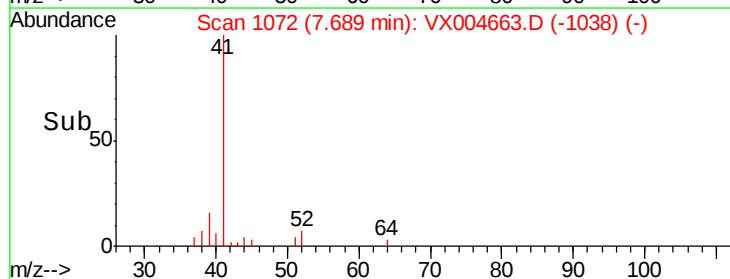
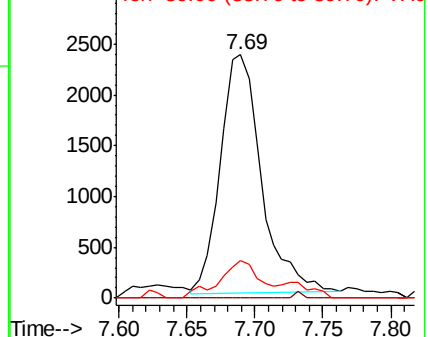
39 15.2 42.7 64.1#

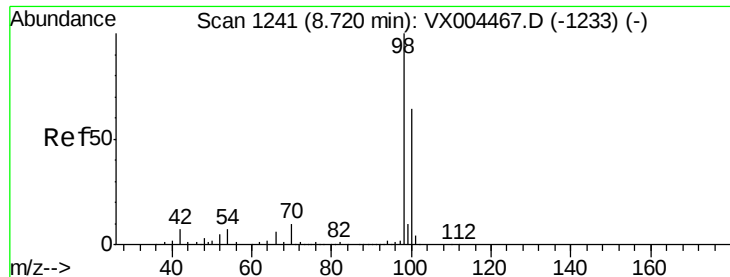


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

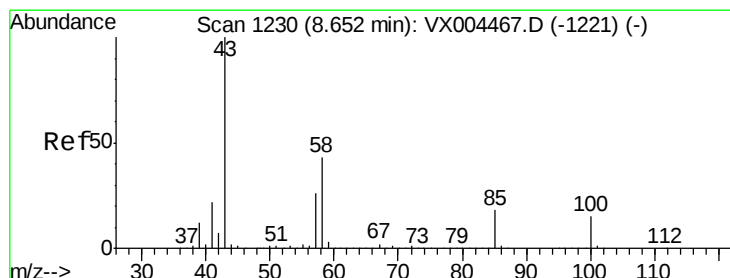
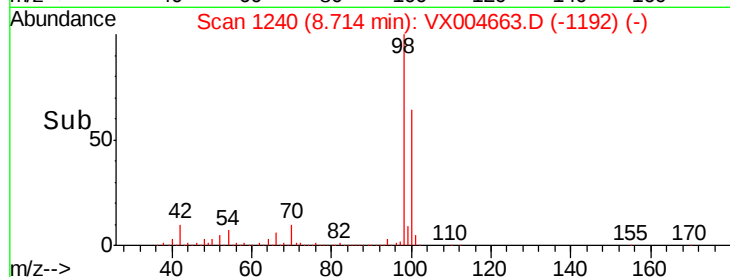
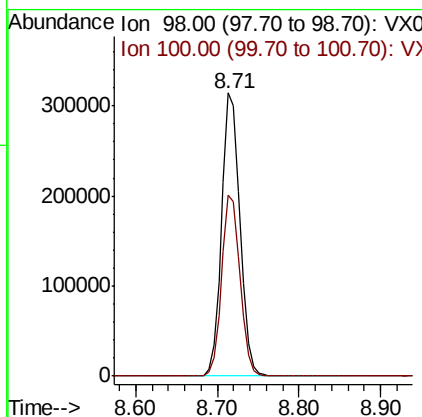
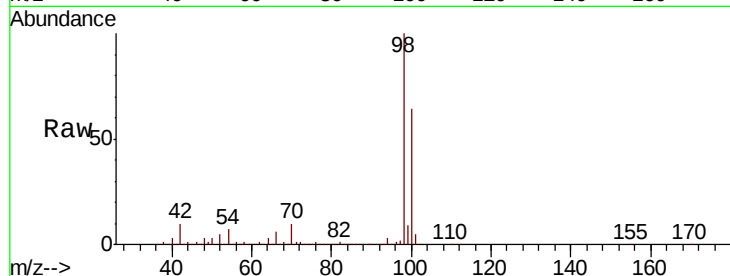




#50
Toluene-d8
Concen: 45.721 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

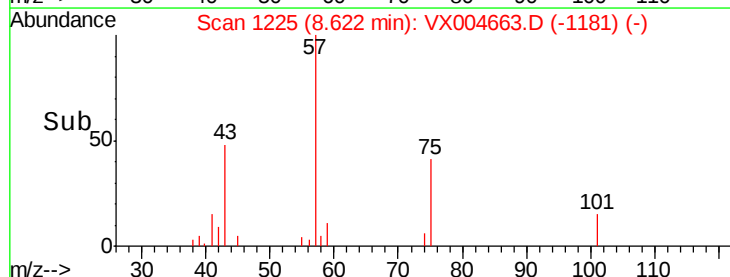
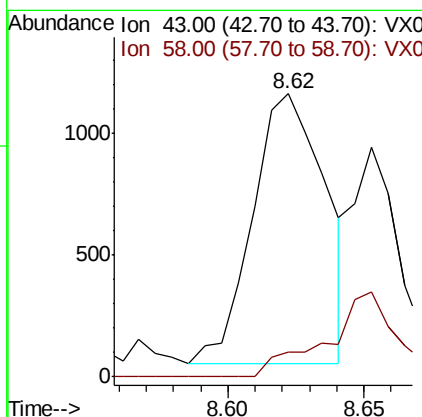
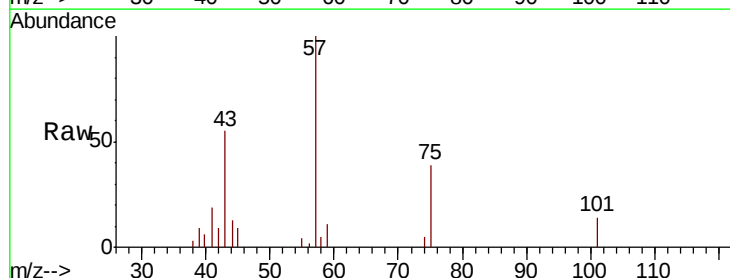
Instrument :
MSVOA_X
ClientSampleId :
PHASE-3

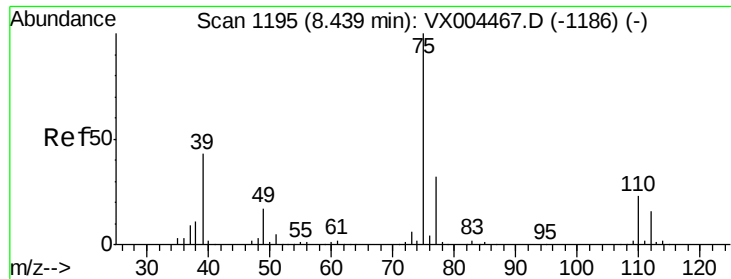
Tgt Ion: 98 Resp: 491651
Ion Ratio Lower Upper
98 100
100 64.1 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.453 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Tgt Ion: 43 Resp: 2055
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

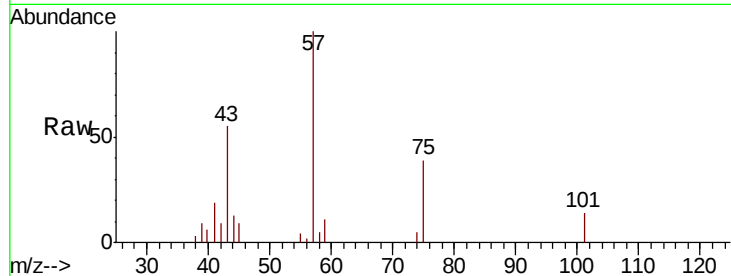




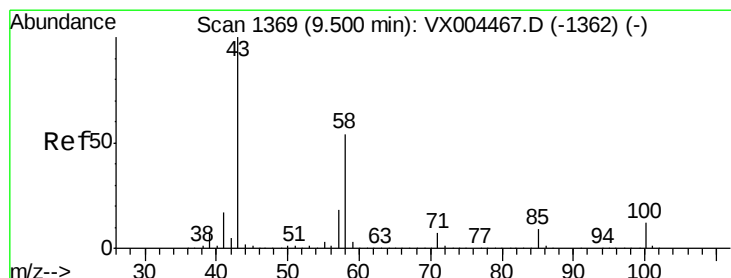
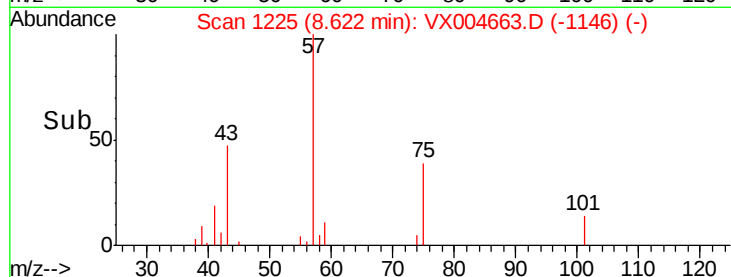
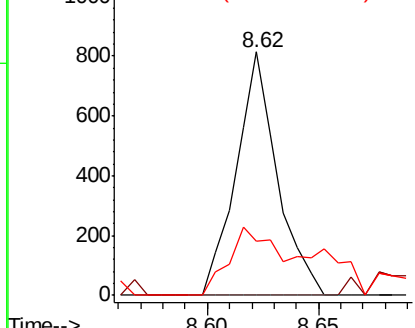
#54
 cis-1,3-Dichloropropene
 Concen: 0.241 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004663.D
 Acq: 18 Sep 2018 17:36

Instrument :
 MSVOA_X
 ClientSampled :
 PHASE-3

Tgt Ion: 75 Resp: 1043
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 22.5 36.4 54.6#

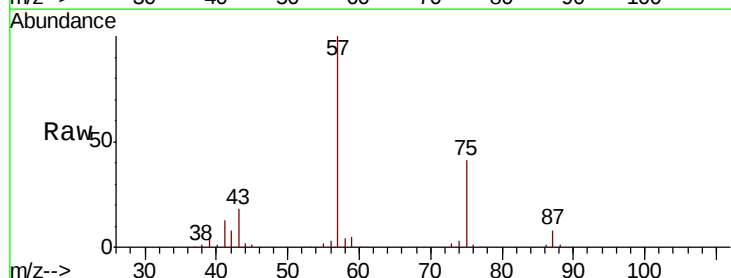


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

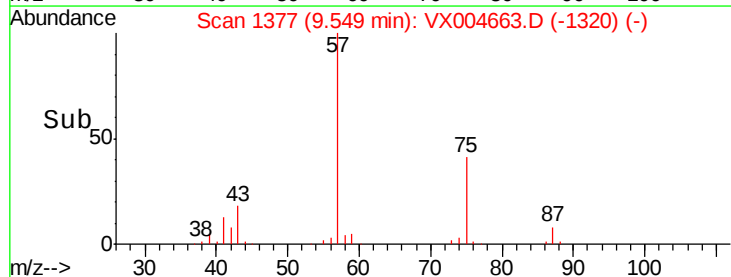
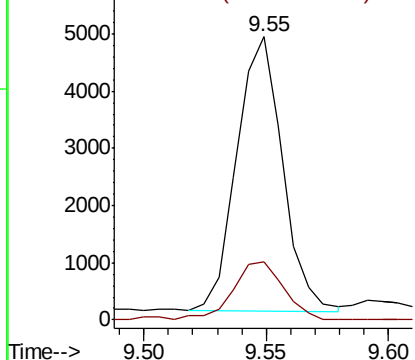


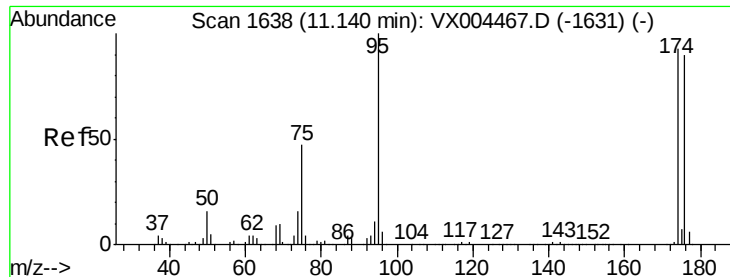
#59
 2-Hexanone
 Concen: 1.790 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004663.D
 Acq: 18 Sep 2018 17:36

Tgt Ion: 43 Resp: 6225
 Ion Ratio Lower Upper
 43 100
 58 23.6 29.0 87.0#



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

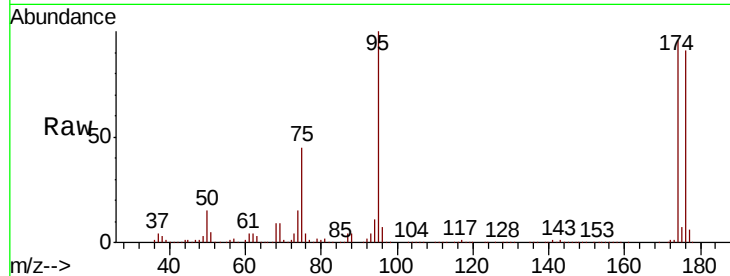




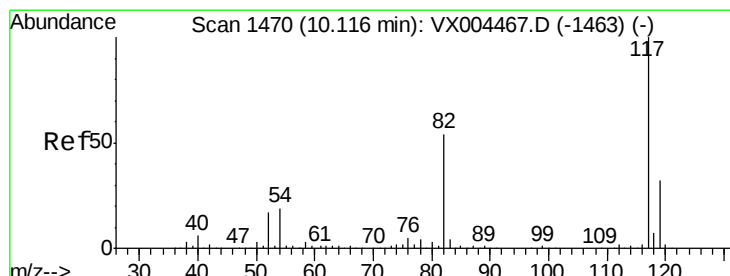
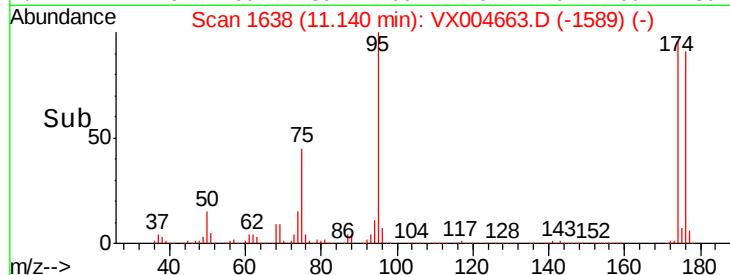
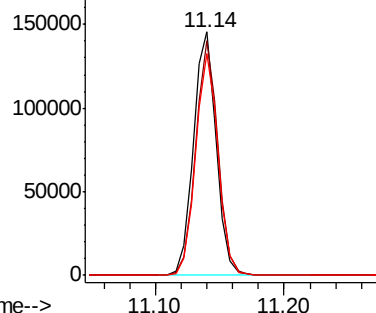
#62
4-Bromofluorobenzene
Concen: 47.342 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Instrument :
MSVOA_X
ClientSampled :
PHASE-3

Tgt Ion: 95 Resp: 181722
Ion Ratio Lower Upper
95 100
174 94.2 0.0 185.2
176 90.1 0.0 178.6

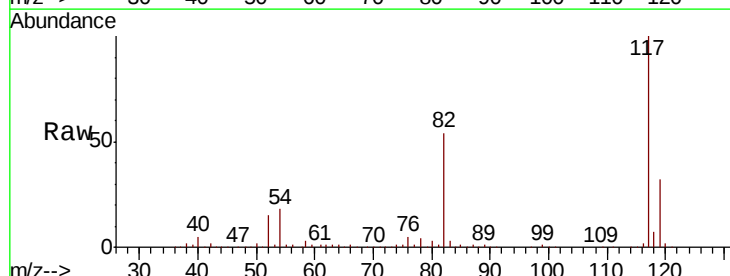


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

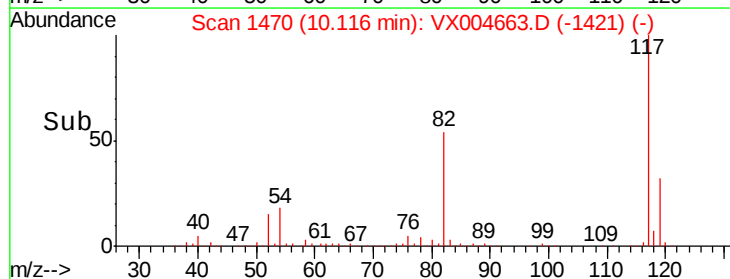
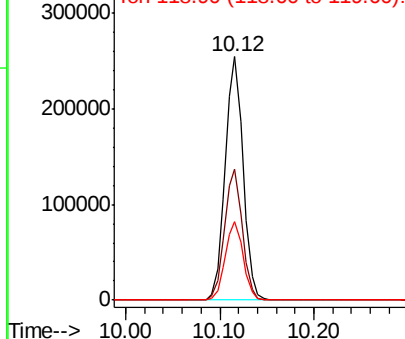


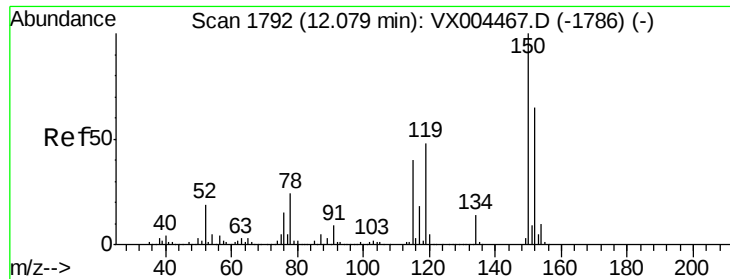
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004663.D
Acq: 18 Sep 2018 17:36

Tgt Ion: 117 Resp: 335960
Ion Ratio Lower Upper
117 100
82 53.6 47.8 71.6
119 32.1 29.3 43.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

Instrument :

MSVOA_X

ClientSampleId :

PHASE-3

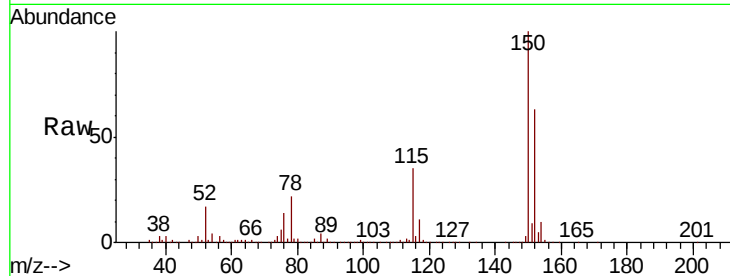
Tgt Ion:152 Resp: 192091

Ion Ratio Lower Upper

152 100

115 54.2 39.0 117.0

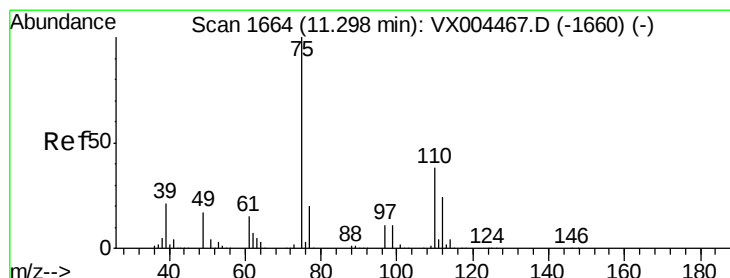
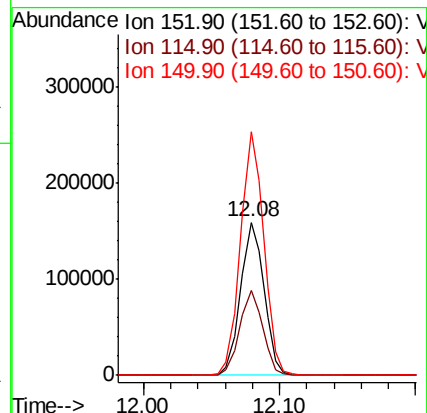
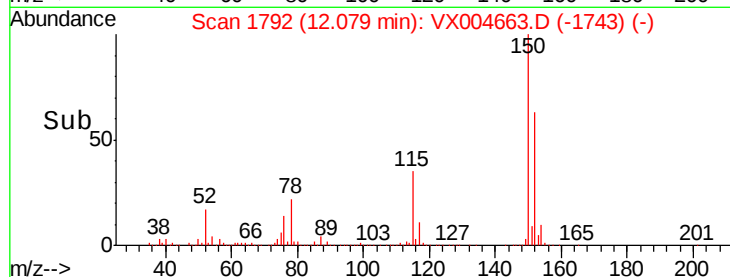
150 157.4 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 21.590 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004663.D

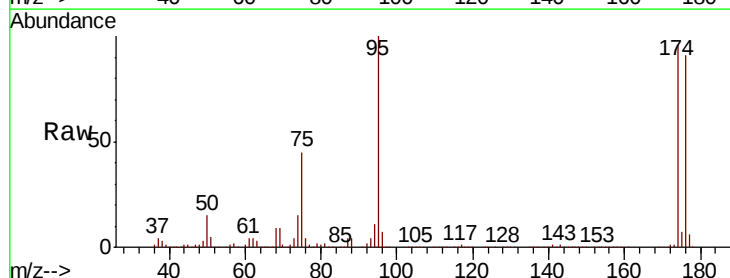
Acq: 18 Sep 2018 17:36

Tgt Ion: 75 Resp: 83440

Ion Ratio Lower Upper

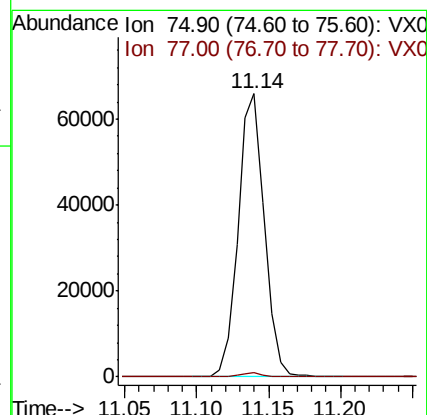
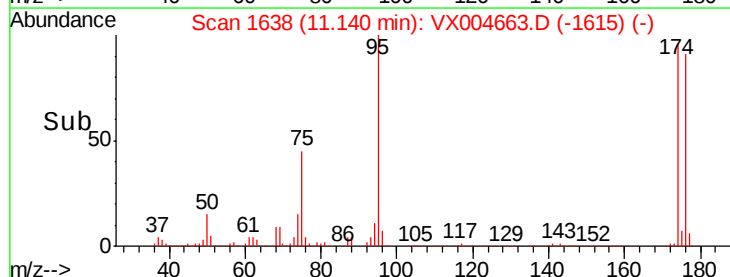
75 100

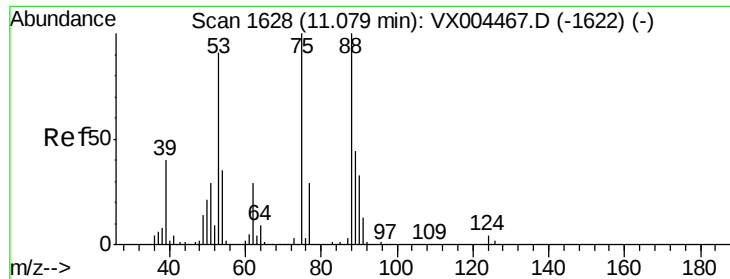
77 1.4 20.2 60.6#



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: 68.819 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

Instrument :

MSVOA_X

ClientSampled :

PHASE-3

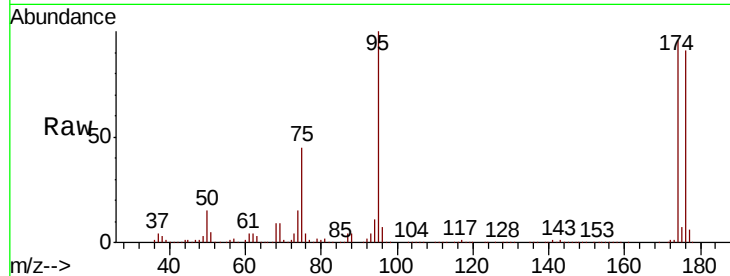
Tgt Ion: 75 Resp: 83440

Ion Ratio Lower Upper

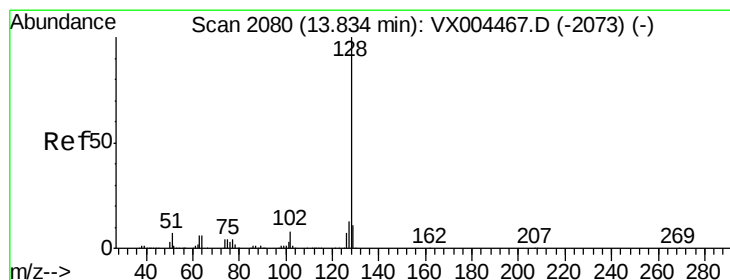
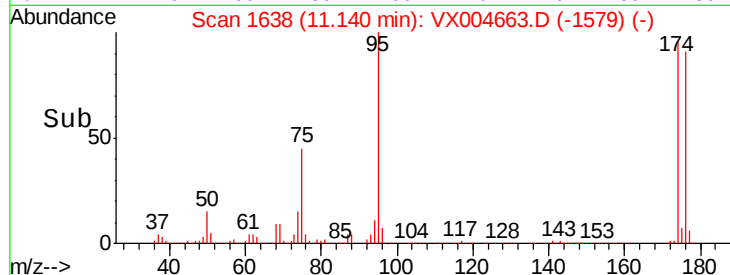
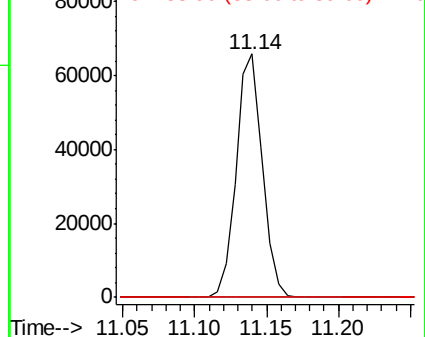
75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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: 6.099 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004663.D

Acq: 18 Sep 2018 17:36

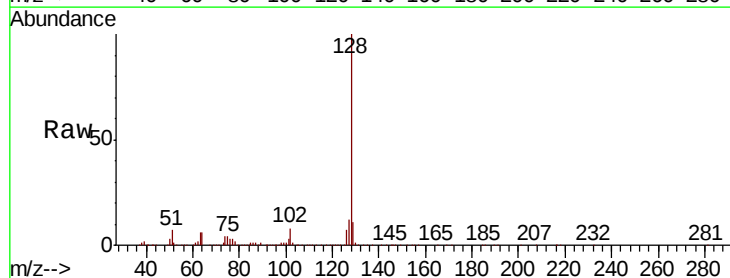
Tgt Ion: 128 Resp: 79983

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

129 11.0 8.6 12.8



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

