

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011611.D
 Acq On : 17 Aug 2019 04:08
 Operator : JC/SP
 Sample : K4265-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A2-(3.4)

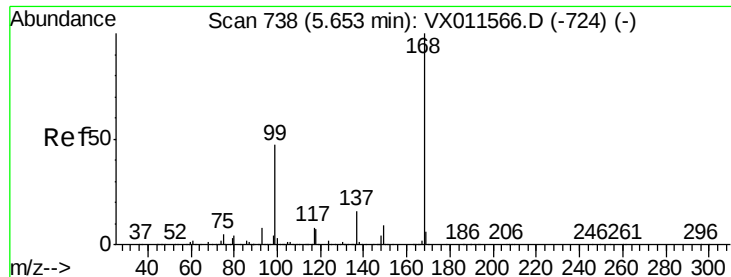
Quant Time: Aug 19 01:19:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	449143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	625397	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	545896	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	267437	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	213312	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
35) Dibromofluoromethane	5.49	113	182702	44.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.34%	
50) Toluene-d8	8.71	98	708794	55.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.22%	
62) 4-Bromofluorobenzene	11.13	95	245239	45.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	498	0.253	ug/l	95
11) Tert butyl alcohol	3.01	59	8032	7.860	ug/l #	81
13) Acrolein	2.28	56	301	13.095	ug/l #	51
16) Acetone	2.43	43	12457	5.948	ug/l	99
18) Methyl Acetate	2.76	43	6538	1.007	ug/l	99
20) Methylene Chloride	2.85	84	8838	2.010	ug/l	99
25) 2-Butanone	4.68	43	2838	0.863	ug/l #	77
29) Tetrahydrofuran	5.14	42	797	0.370	ug/l #	65
36) 1,1-Dichloropropene	5.65	75	24814	4.641	ug/l #	50
38) Carbon Tetrachloride	5.65	117	36780	6.243	ug/l #	16
43) Isopropyl Acetate	6.44	43	77266	8.050	ug/l	99
48) Methyl methacrylate	7.67	41	4535	0.954	ug/l #	20
49) 1,4-Dioxane	7.73	88	150	1.187	ug/l #	25
51) 4-Methyl-2-Pentanone	8.61	43	70509	11.223	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	34682	5.523	ug/l #	60
59) 2-Hexanone	9.54	43	82010	16.928	ug/l #	51
68) m/p-Xylenes	10.35	106	2937	0.394	ug/l	91
74) N-amyl acetate	10.82	43	3445	0.467	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	115468	22.769	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	115468	60.632	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	310	0.227	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

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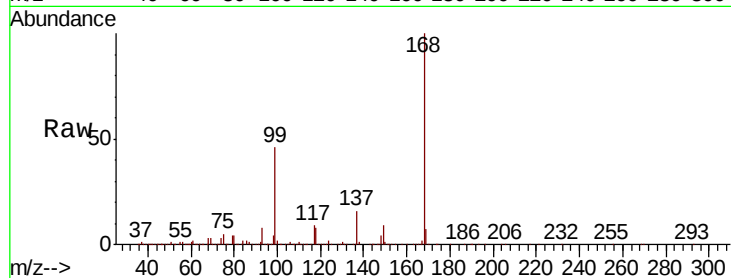
REACTOR-4-A2-(3.4)

Tgt Ion:168 Resp: 449143

Ion Ratio Lower Upper

168 100

99 46.4 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

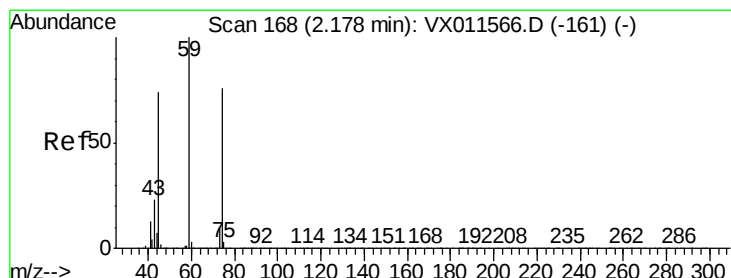
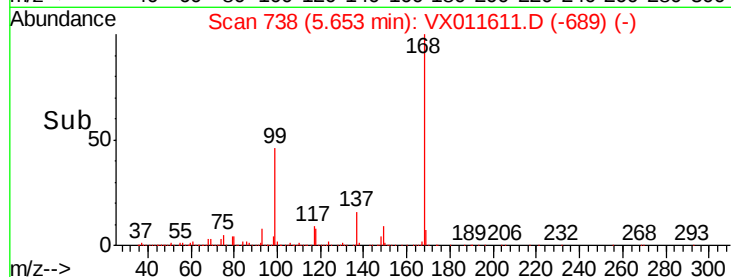
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.253 ug/l

RT: 2.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VX011611.D

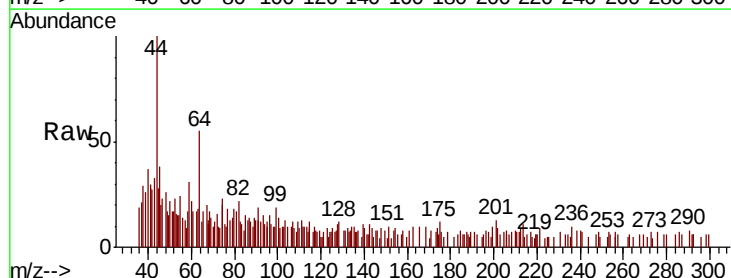
Acq: 17 Aug 2019 04:08

Tgt Ion: 74 Resp: 498

Ion Ratio Lower Upper

74 100

45 91.4 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

800

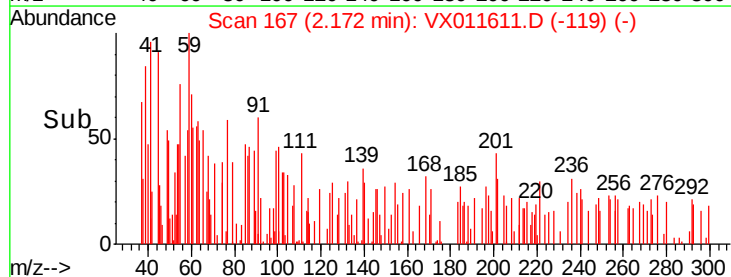
600

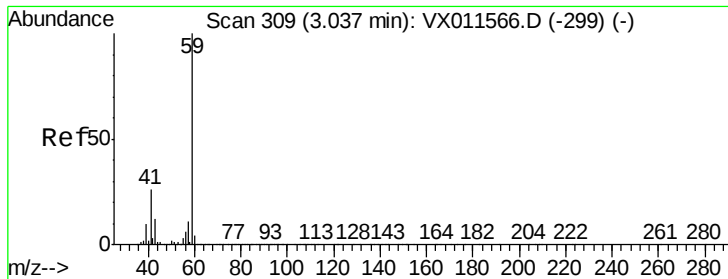
400

200

0

Time-->

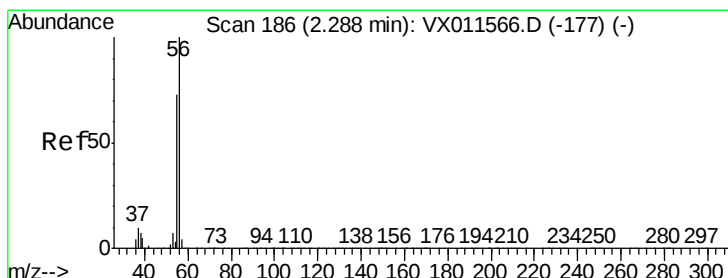
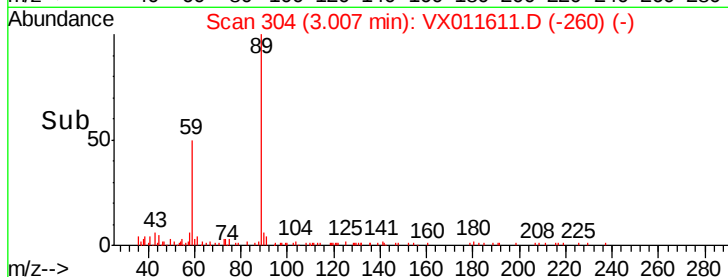
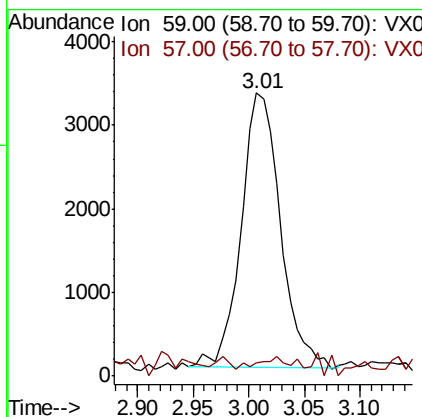
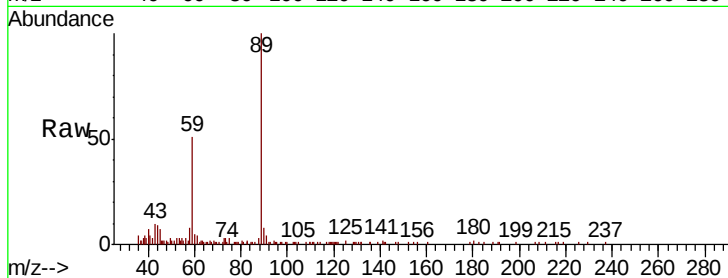




#11
Tert butyl alcohol
Concen: 7.860 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

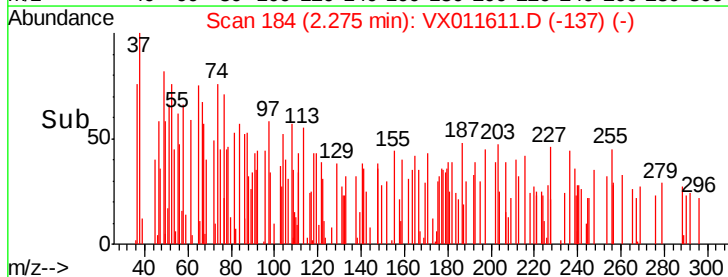
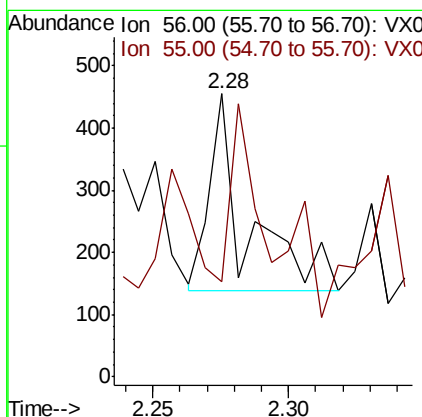
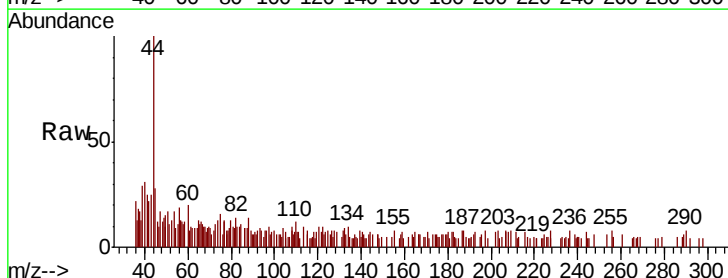
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(3.4)

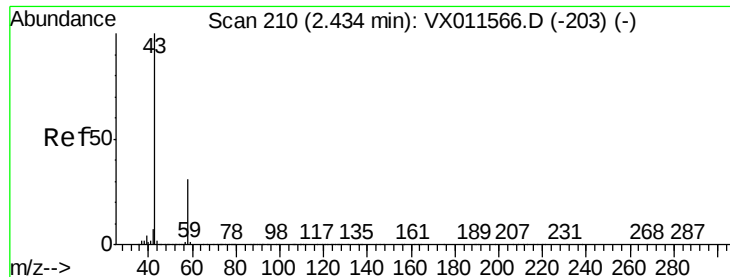
Tgt Ion: 59 Resp: 8032
Ion Ratio Lower Upper
59 100
57 3.6 8.7 13.1#



#13
Acrolein
Concen: 13.095 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.01 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

Tgt Ion: 56 Resp: 301
Ion Ratio Lower Upper
56 100
55 109.3 55.5 83.3#





#16

Acetone

Concen: 5.948 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

Instrument :

MSVOA_X

ClientSampleId :

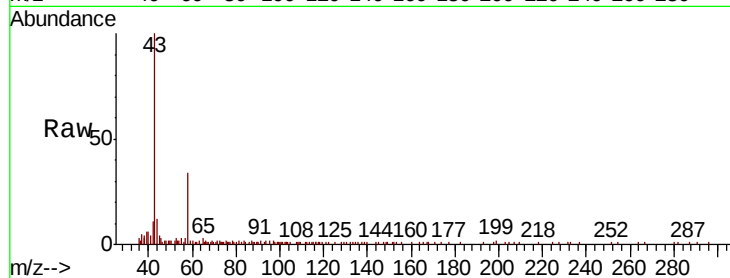
REACTOR-4-A2-(3.4)

Tgt Ion: 43 Resp: 12457

Ion Ratio Lower Upper

43 100

58 31.2 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

8000

6000

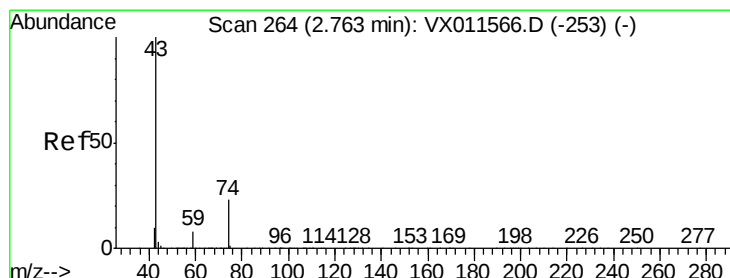
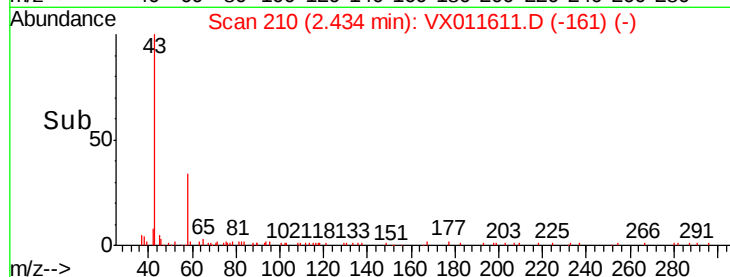
4000

2000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 1.007 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX011611.D

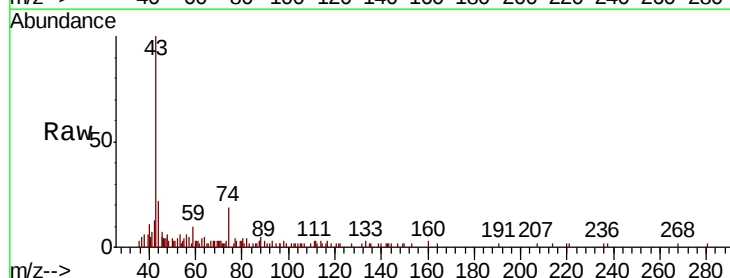
Acq: 17 Aug 2019 04:08

Tgt Ion: 43 Resp: 6538

Ion Ratio Lower Upper

43 100

74 25.2 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.76

3000

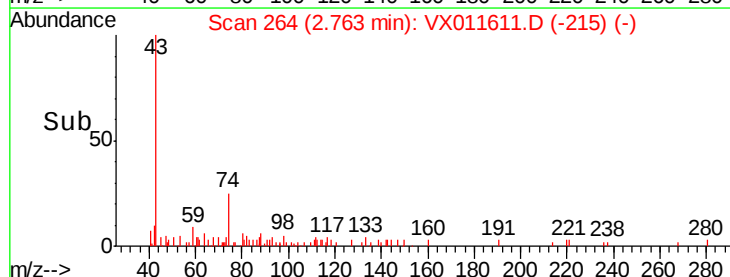
2000

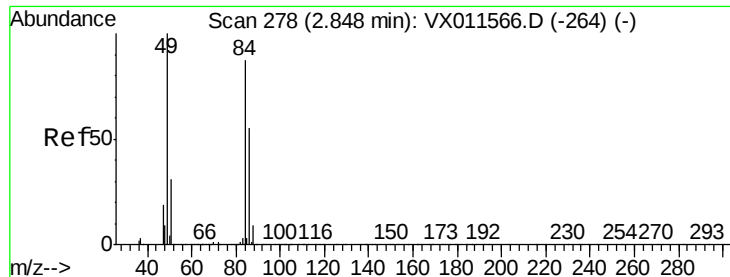
1000

0

Time-->

2.70 2.75 2.80 2.85





#20

Methylene Chloride

Concen: 2.010 ug/l

RT: 2.85 min Scan# 278

Delta R.T. 0.00 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(3.4)

Tgt Ion: 84 Resp: 8838

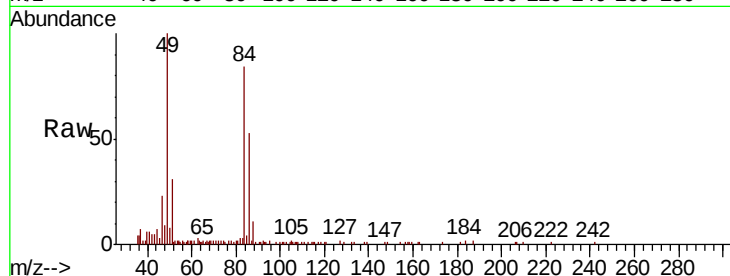
Ion	Ratio	Lower	Upper
84	100		
49	114.8	92.4	138.6
51	34.3	28.5	42.7
86	63.3	51.0	76.6

84 100

49 114.8 92.4 138.6

51 34.3 28.5 42.7

86 63.3 51.0 76.6



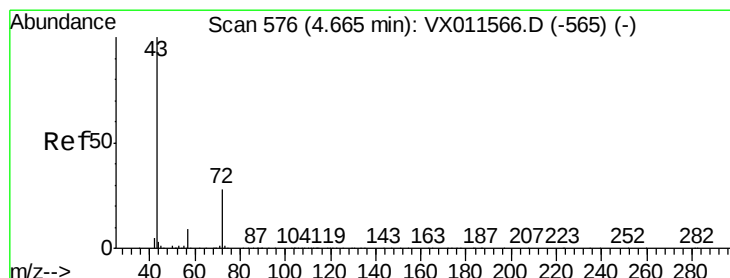
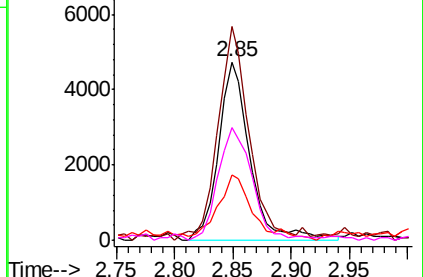
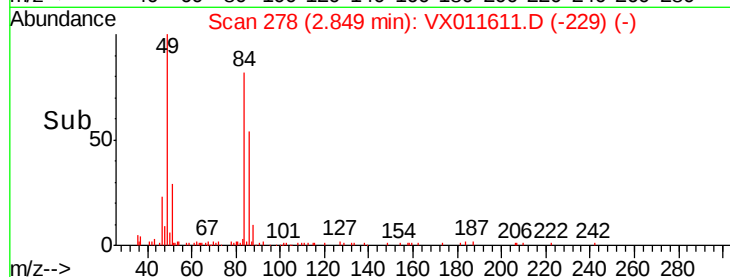
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

Time-->



#25

2-Butanone

Concen: 0.863 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011611.D

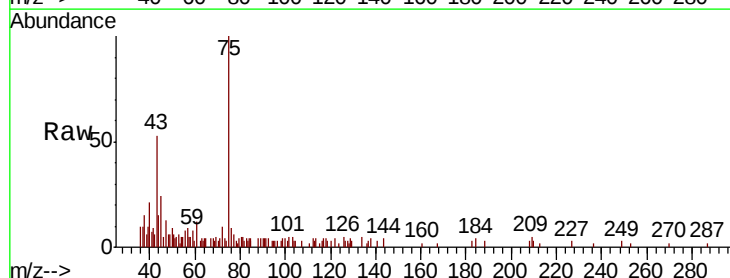
Acq: 17 Aug 2019 04:08

Tgt Ion: 43 Resp: 2838

Ion	Ratio	Lower	Upper
43	100		
72	15.9	22.2	33.4#

43 100

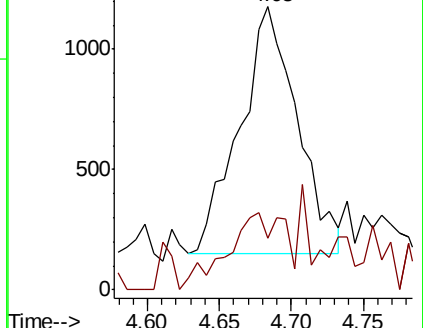
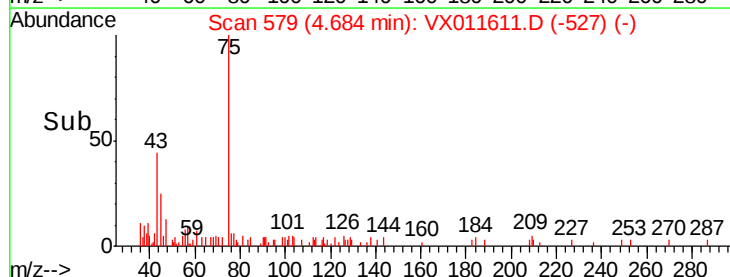
72 15.9 22.2 33.4#

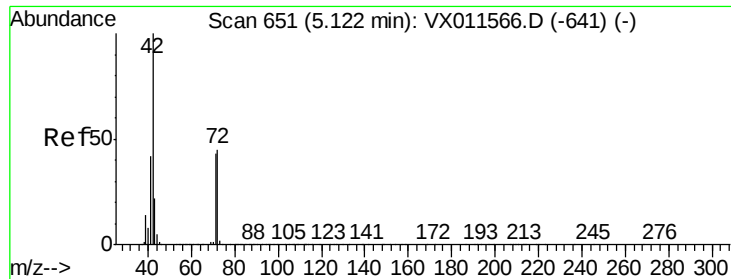


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->

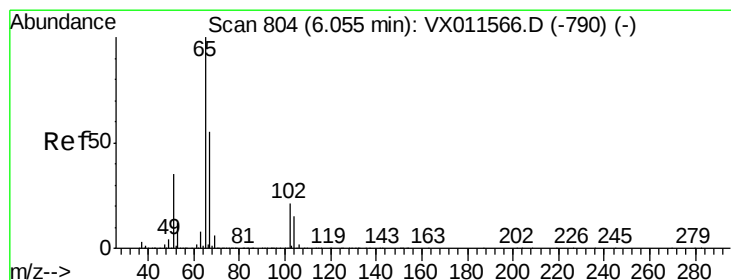
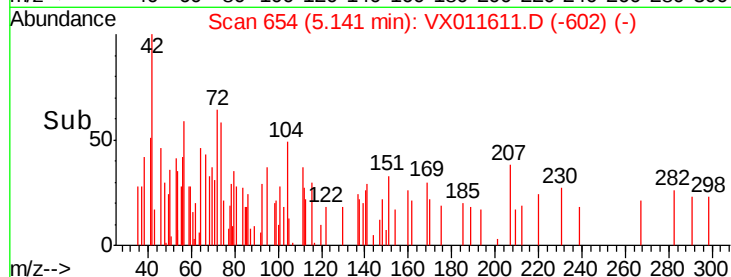
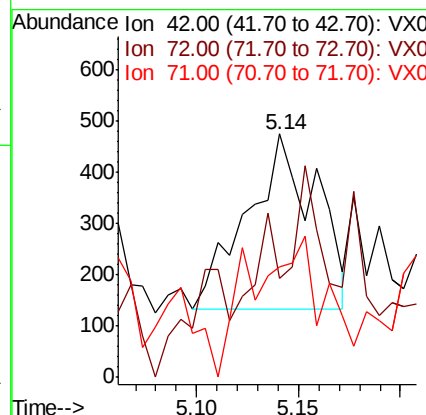
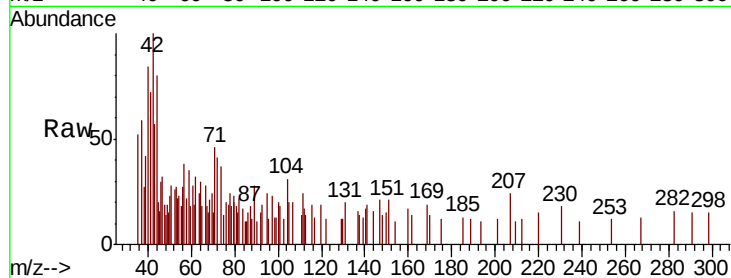




#29
Tetrahydrofuran
Concen: 0.370 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.02 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

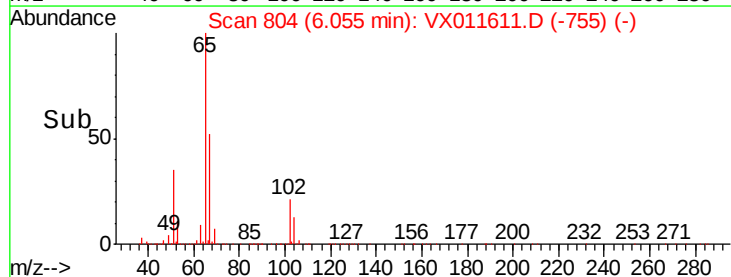
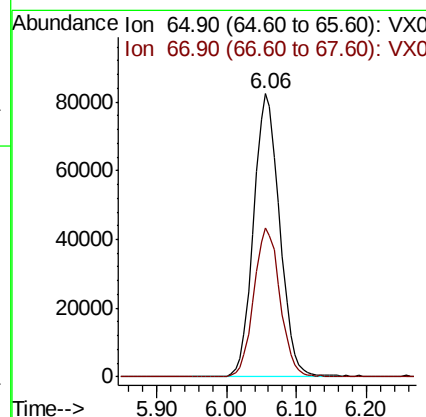
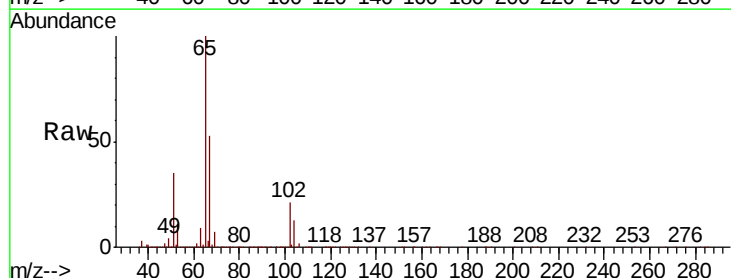
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(3.4)

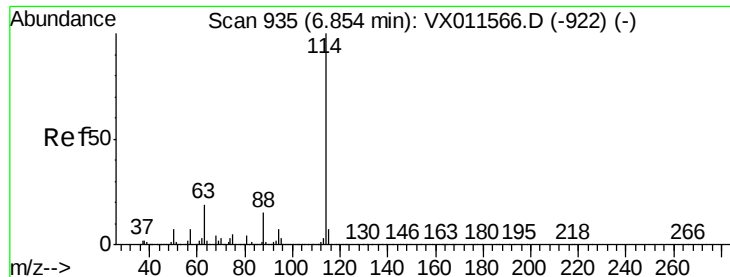
Tgt Ion: 42 Resp: 797
Ion Ratio Lower Upper
42 100
72 18.8 36.1 54.1#
71 23.7 33.8 50.8#



#33
1,2-Dichloroethane-d4
Concen: 51.213 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

Tgt Ion: 65 Resp: 213312
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

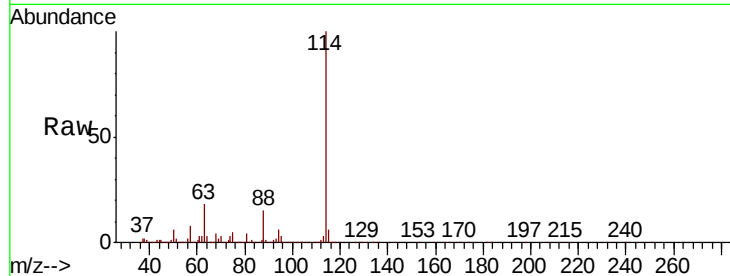
Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(3.4)

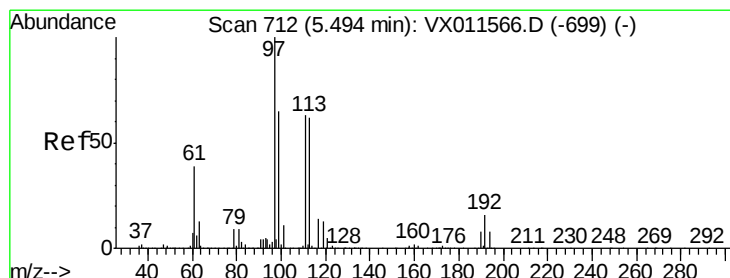
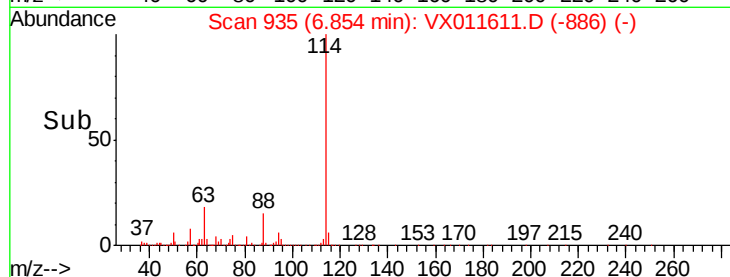
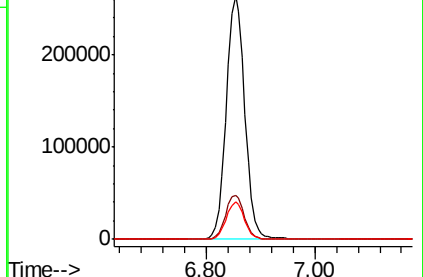
Tgt Ion:	114	Resp:	625397
Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	37.8
88	15.2	0.0	30.2



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: 44.665 ug/l

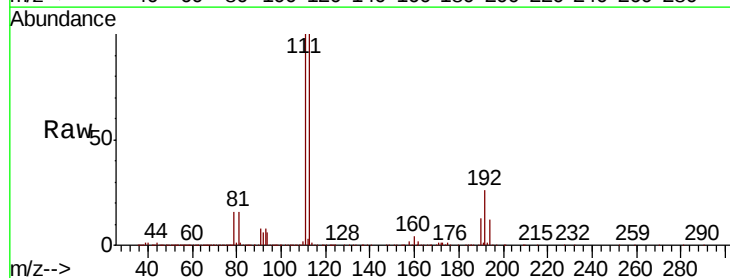
RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

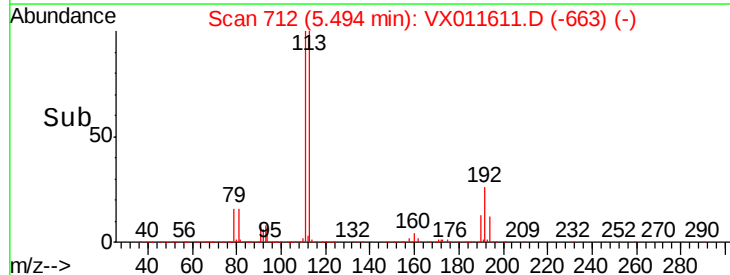
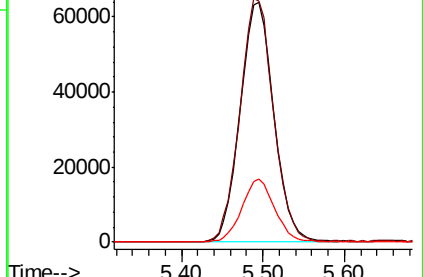
Tgt Ion:	113	Resp:	182702
Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.1	121.7
192	25.7	20.8	31.2

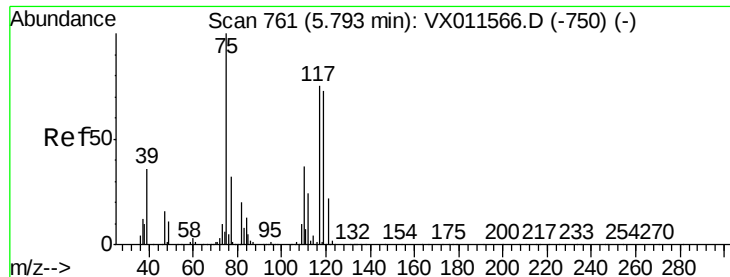


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.641 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(3.4)

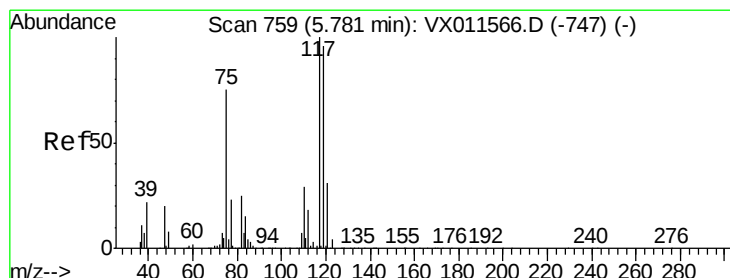
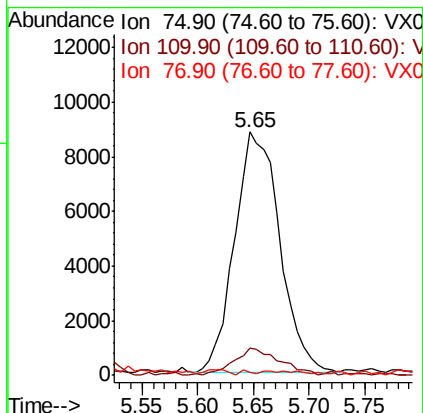
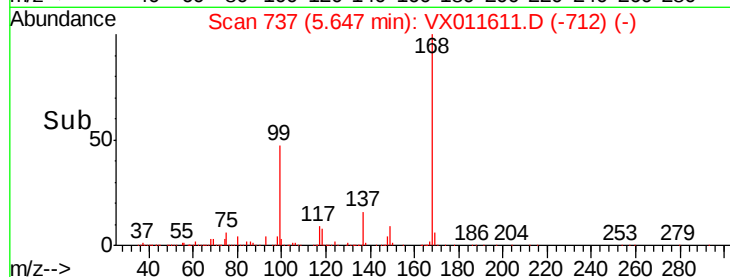
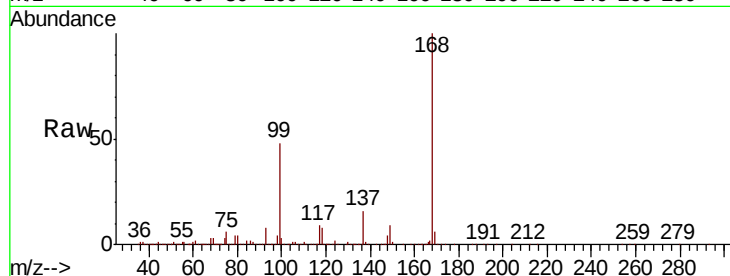
Tgt Ion: 75 Resp: 24814

Ion Ratio Lower Upper

75 100

110 11.5 19.4 58.1#

77 0.6 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.243 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

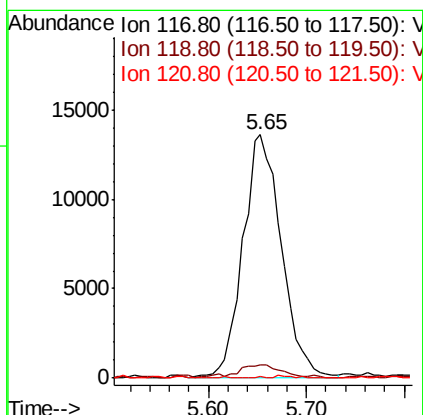
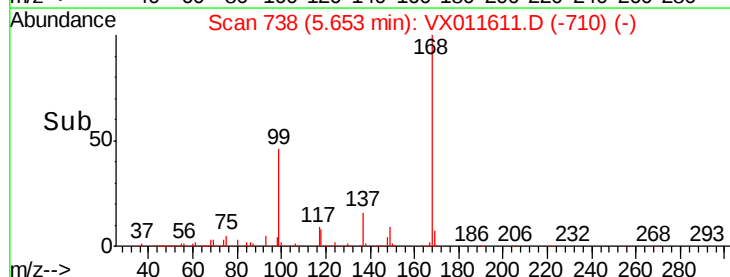
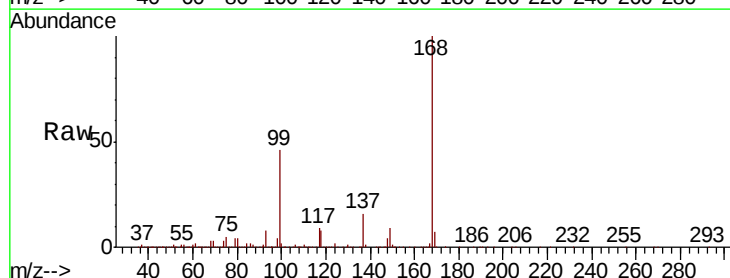
Tgt Ion: 117 Resp: 36780

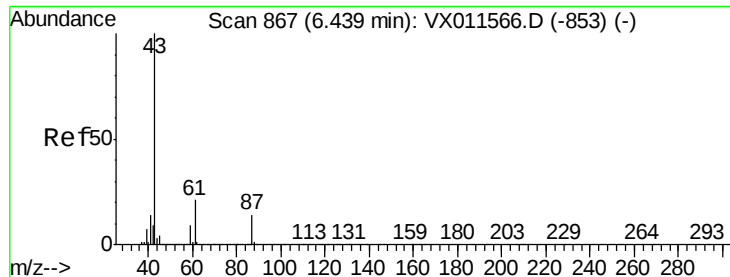
Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

121 0.5 24.8 37.2#



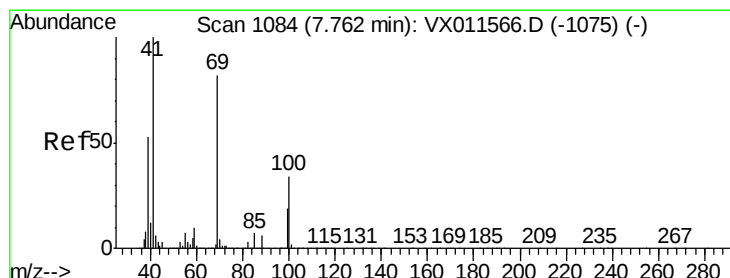
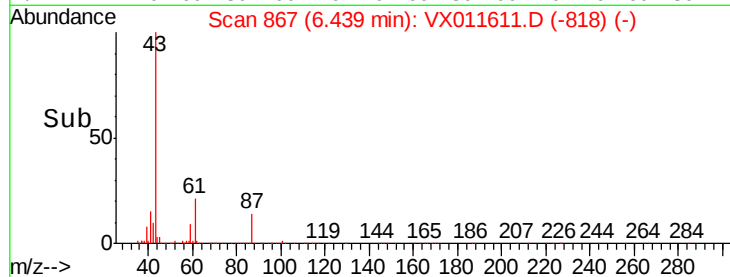
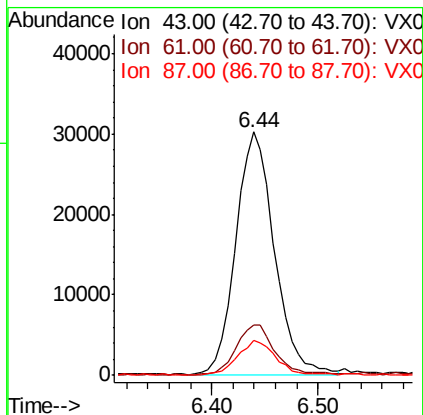
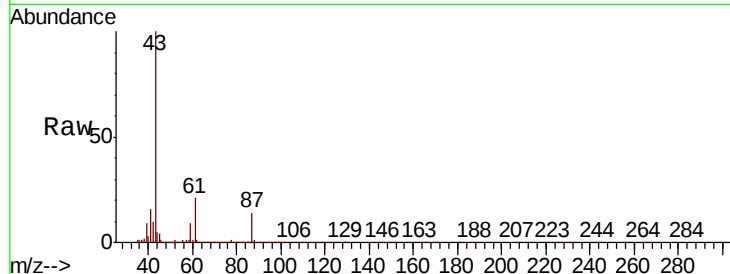


#43

Isopropyl Acetate
 Concen: 8.050 ug/l
 RT: 6.44 min Scan# 867
 Delta R.T. 0.00 min
 Lab File: VX011611.D
 Acq: 17 Aug 2019 04:08

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A2-(3.4)

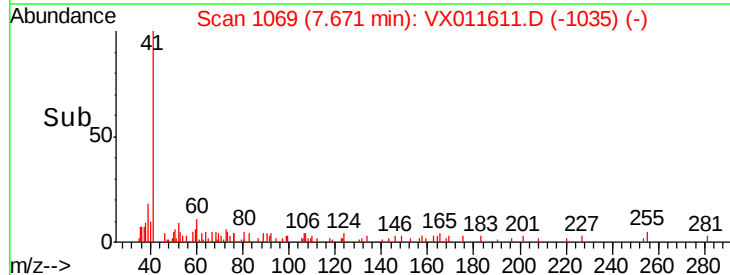
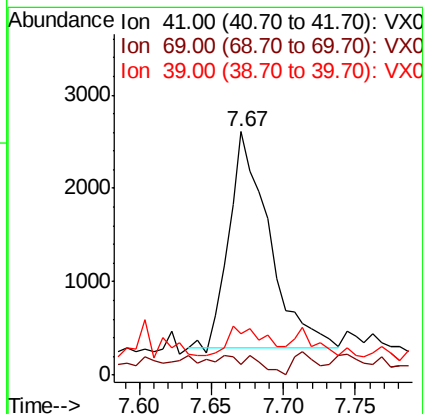
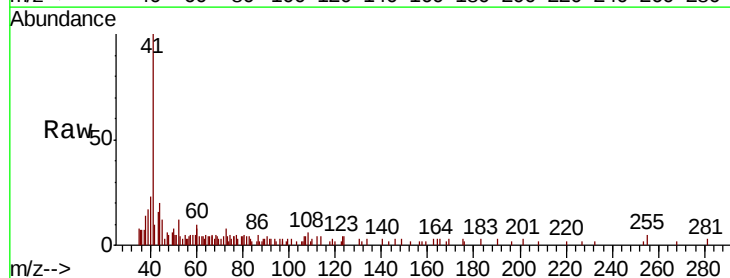
Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.1	16.6	24.8
87	14.3	11.4	17.2

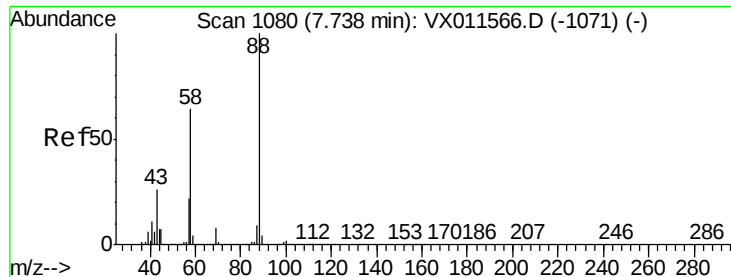


#48

Methyl methacrylate
 Concen: 0.954 ug/l
 RT: 7.67 min Scan# 1069
 Delta R.T. -0.09 min
 Lab File: VX011611.D
 Acq: 17 Aug 2019 04:08

Tgt Ion	Ratio	Lower	Upper
41	100		
69	7.9	67.9	101.9#
39	0.0	41.6	62.4#

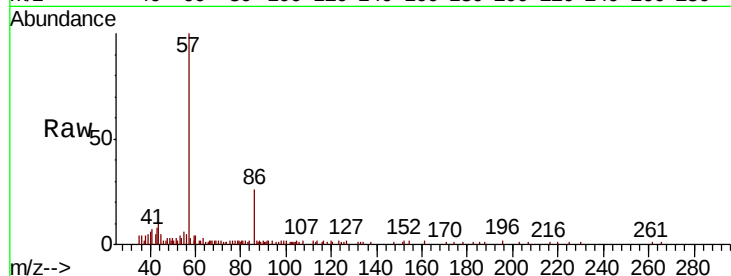




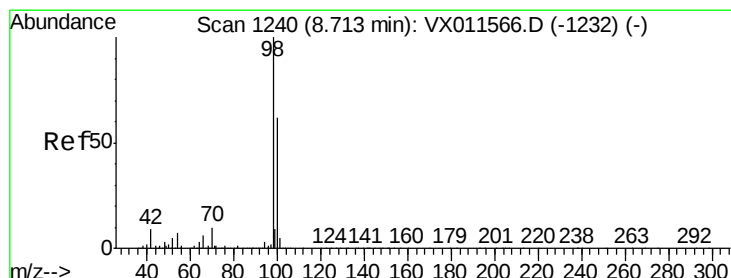
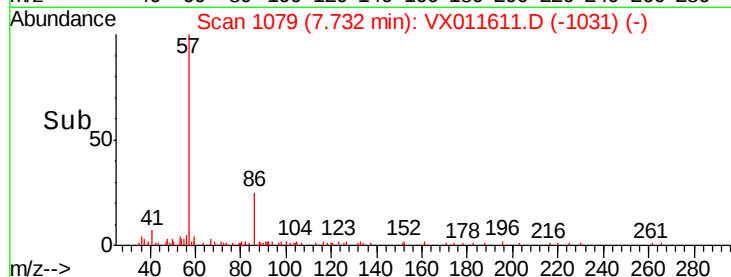
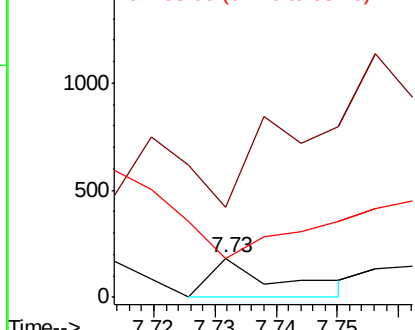
#49
1,4-Dioxane
Concen: 1.187 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(3.4)

Tgt Ion: 88 Resp: 150
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 0.0 54.3 81.5#

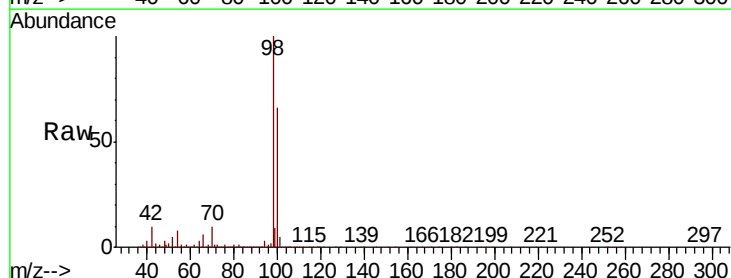


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

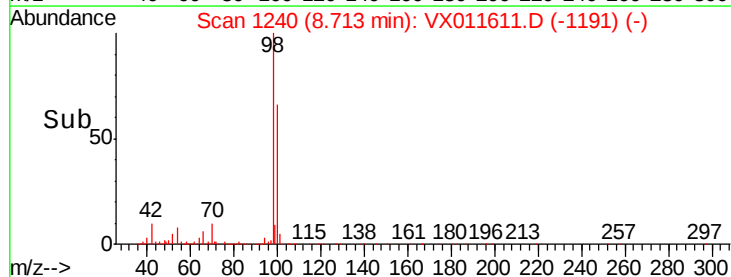
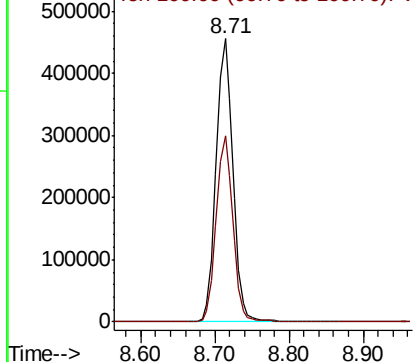


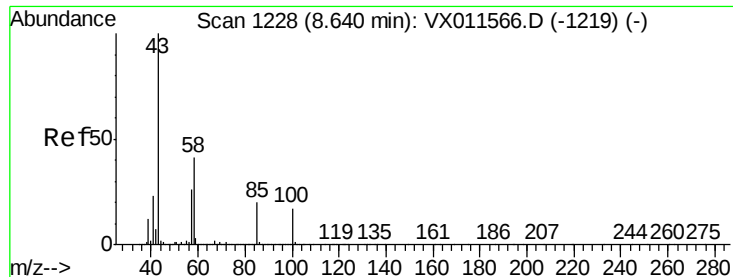
#50
Toluene-d8
Concen: 55.611 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

Tgt Ion: 98 Resp: 708794
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6



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

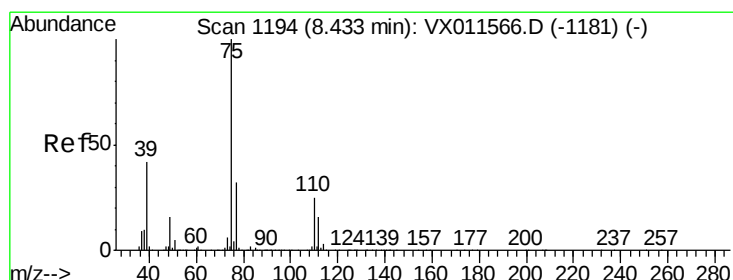
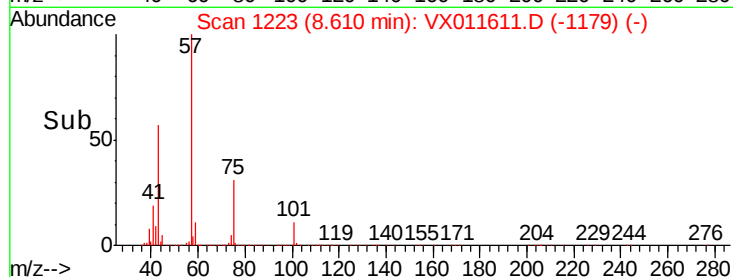
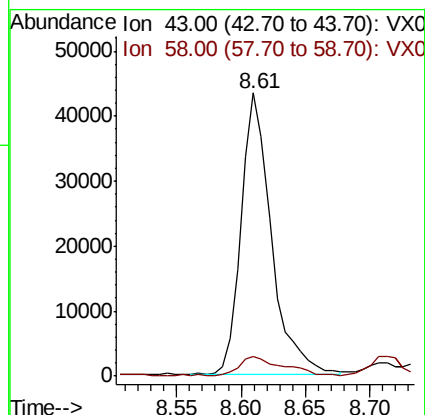
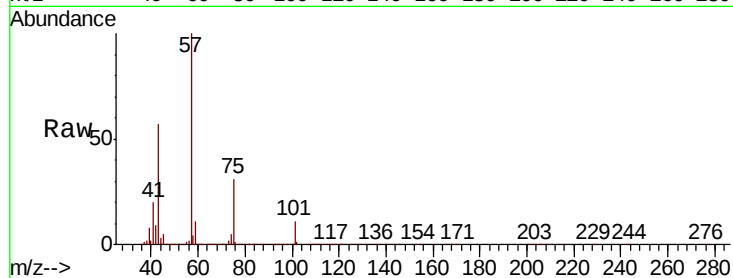




#51
 4-Methyl-2-Pentanone
 Concen: 11.223 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011611.D
 Acq: 17 Aug 2019 04:08

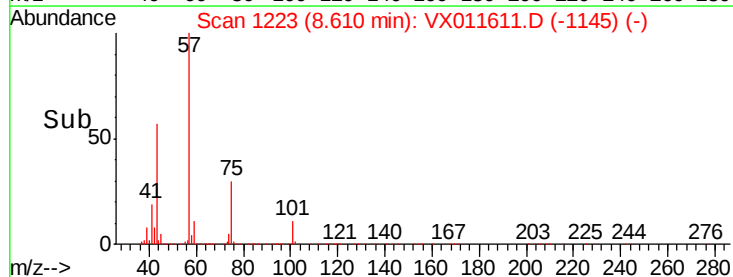
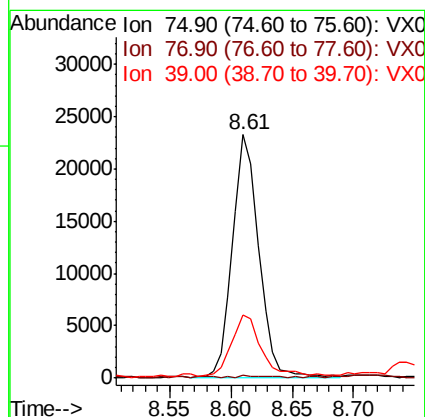
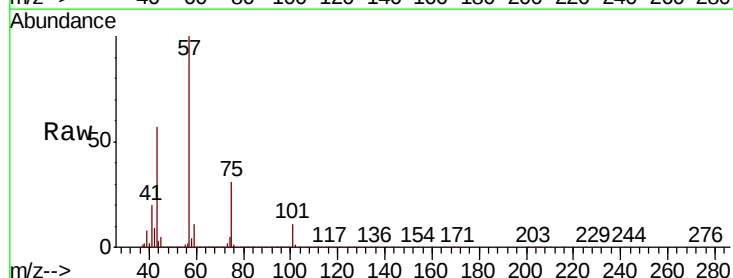
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A2-(3.4)

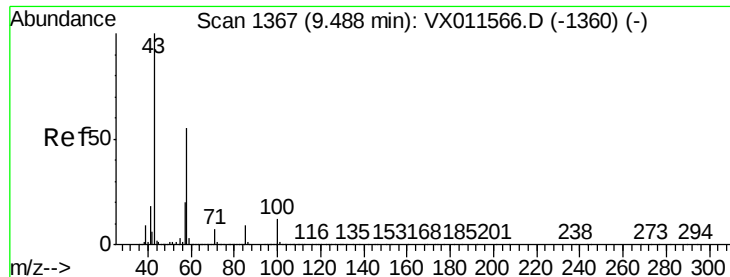
Tgt Ion: 43 Resp: 70509
 Ion Ratio Lower Upper
 43 100
 58 9.8 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.523 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011611.D
 Acq: 17 Aug 2019 04:08

Tgt Ion: 75 Resp: 34682
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.5 38.3#
 39 24.8 33.6 50.4#

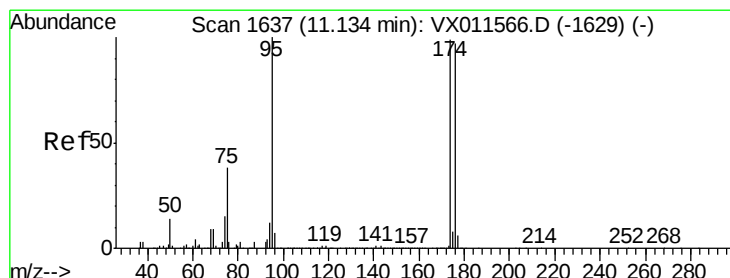
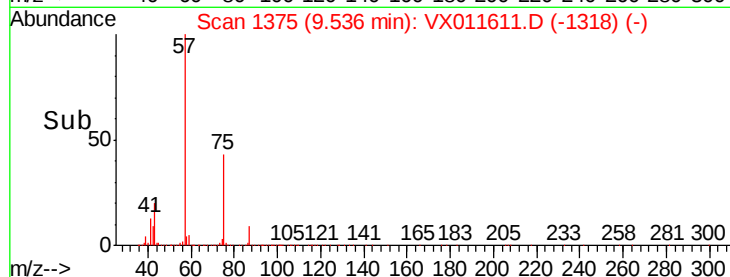
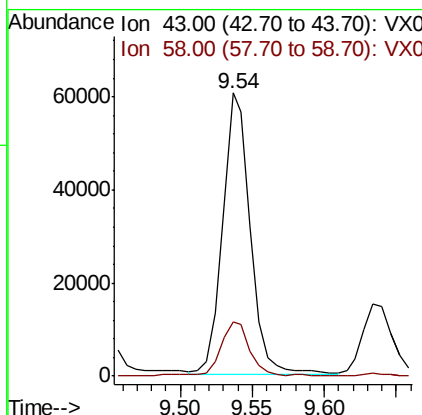
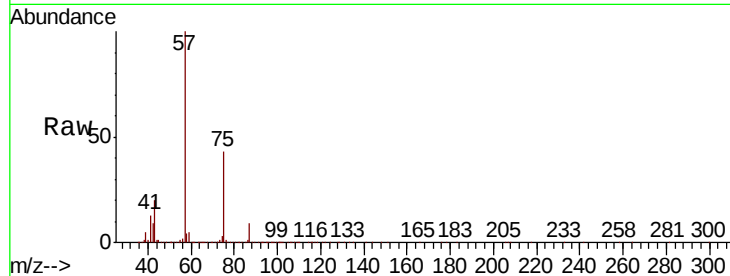




#59
2-Hexanone
Concen: 16.928 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

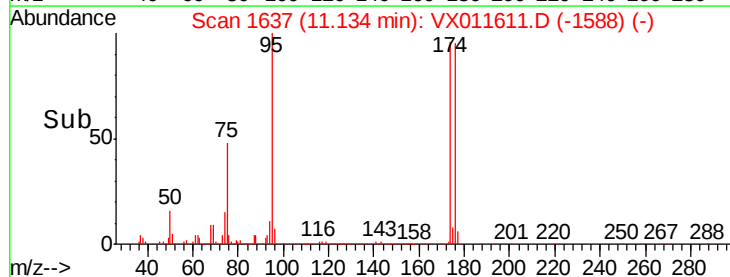
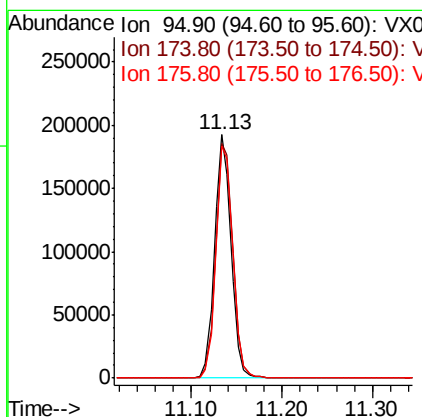
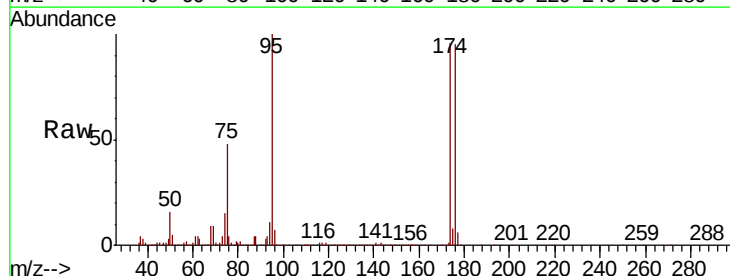
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(3.4)

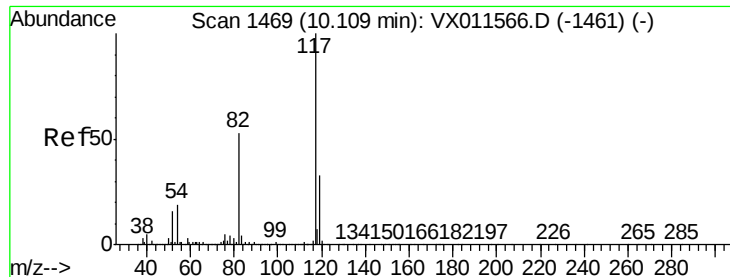
Tgt Ion: 43 Resp: 82010
Ion Ratio Lower Upper
43 100
58 19.5 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 45.586 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

Tgt Ion: 95 Resp: 245239
Ion Ratio Lower Upper
95 100
174 100.3 0.0 200.6
176 98.0 0.0 196.6

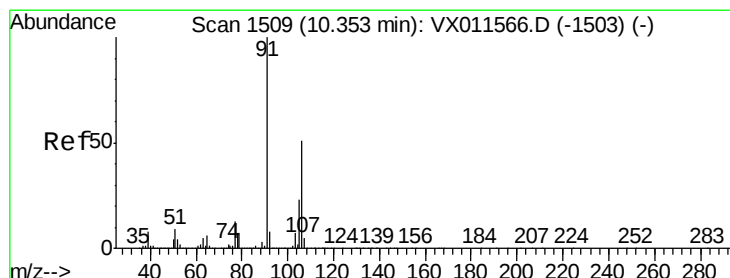
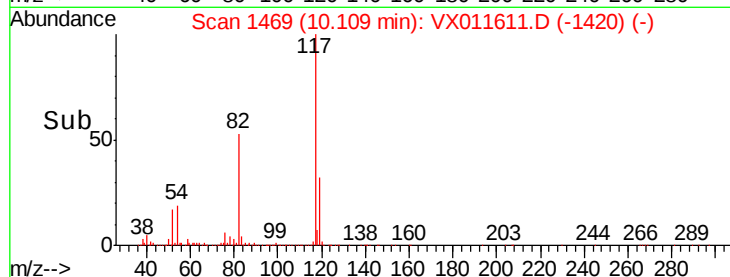
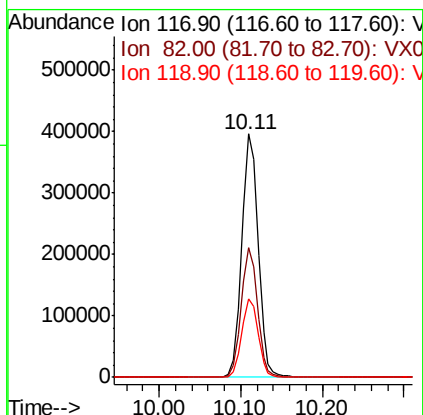
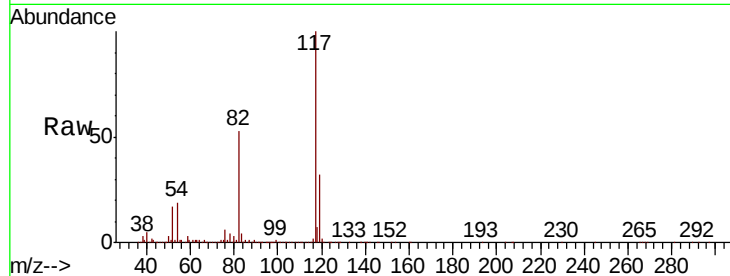




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

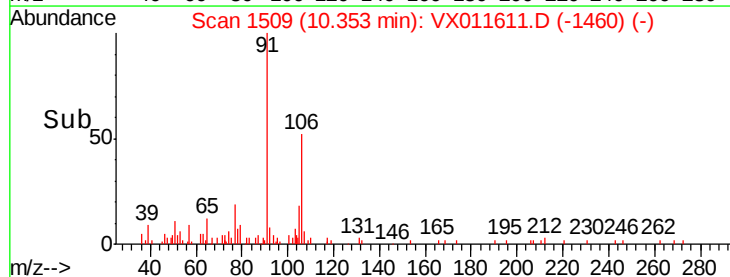
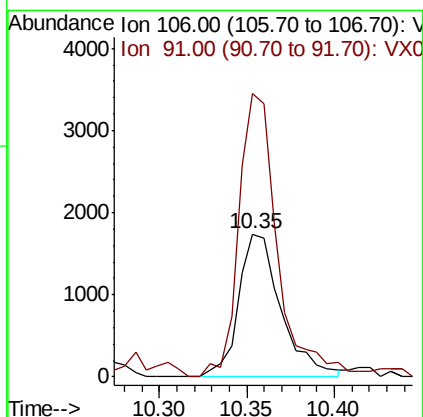
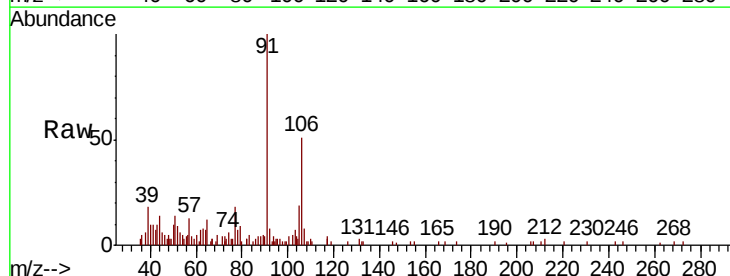
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(3.4)

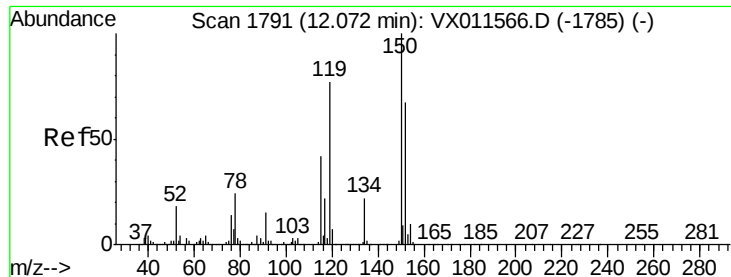
Tgt Ion:117 Resp: 545896
Ion Ratio Lower Upper
117 100
82 53.4 42.0 63.0
119 32.4 26.5 39.7



#68
m/p-Xylenes
Concen: 0.394 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. 0.00 min
Lab File: VX011611.D
Acq: 17 Aug 2019 04:08

Tgt Ion:106 Resp: 2937
Ion Ratio Lower Upper
106 100
91 181.5 156.0 234.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(3.4)

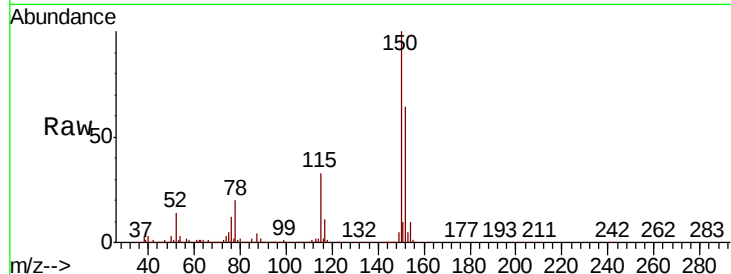
Tgt Ion:152 Resp: 267437

Ion Ratio Lower Upper

152 100

115 53.4 37.3 111.9

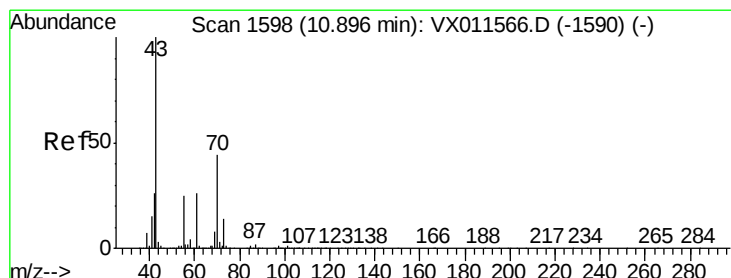
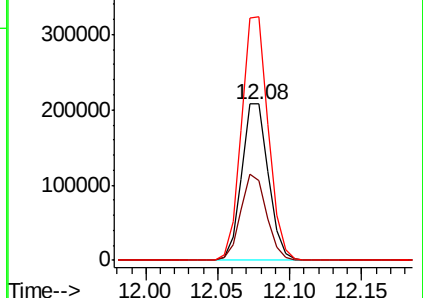
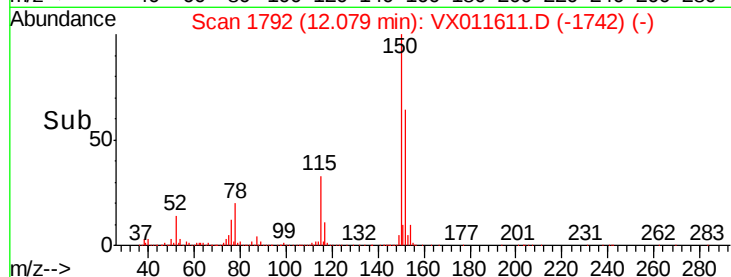
150 156.1 0.0 346.2



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: 0.467 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

Tgt Ion: 43 Resp: 3445

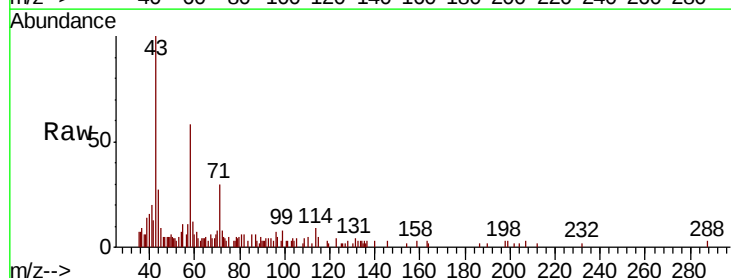
Ion Ratio Lower Upper

43 100

70 5.2 34.7 52.1#

55 8.9 19.6 29.4#

61 0.0 19.9 29.9#

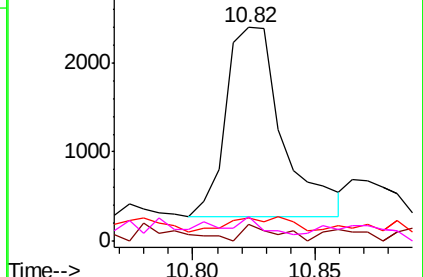
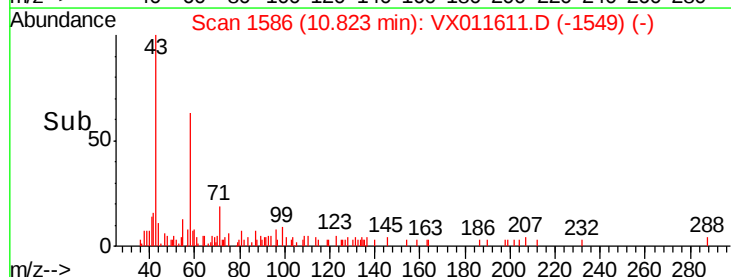


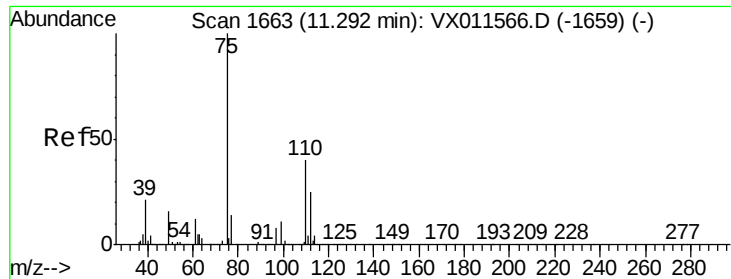
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

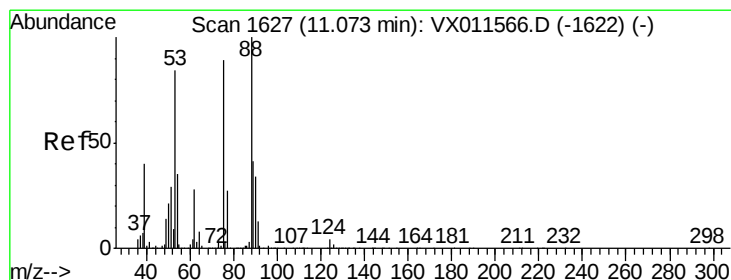
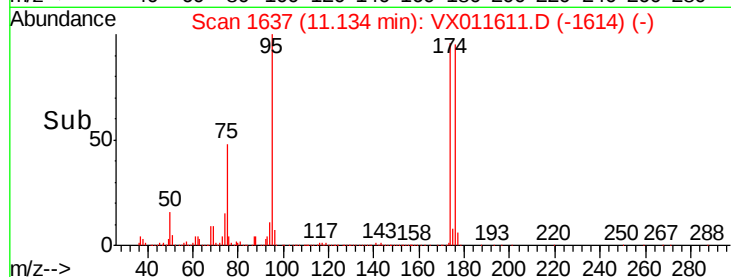
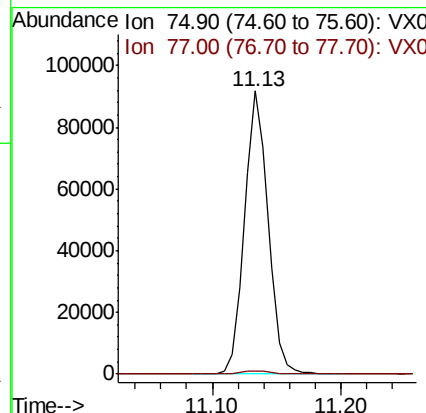
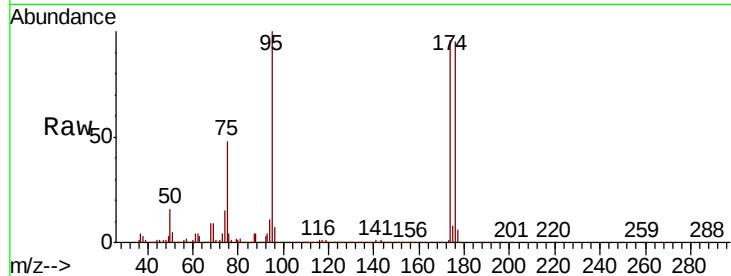




#76
 1,2,3-Trichloropropane
 Concen: 22.769 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011611.D
 Acq: 17 Aug 2019 04:08

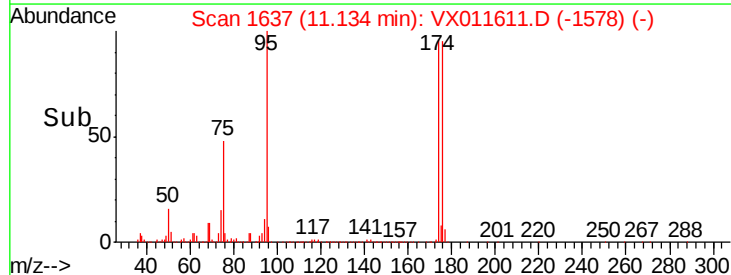
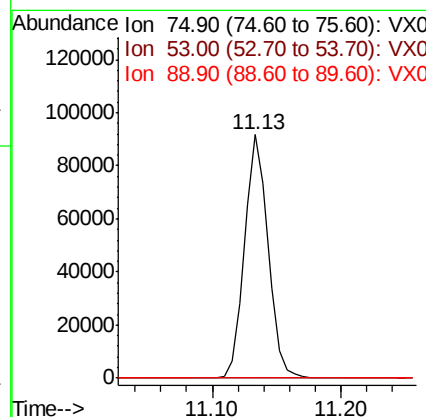
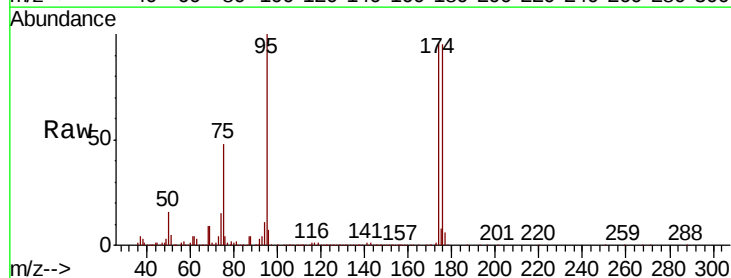
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A2-(3.4)

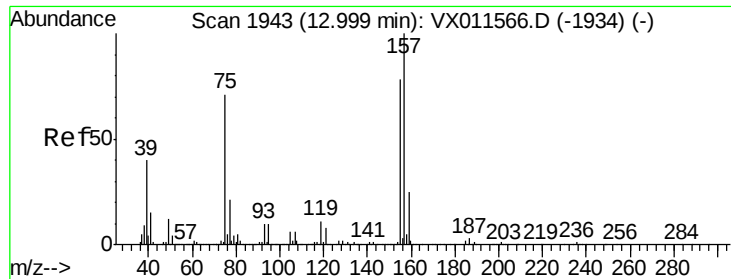
Tgt Ion: 75 Resp: 115468
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.632 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011611.D
 Acq: 17 Aug 2019 04:08

Tgt Ion: 75 Resp: 115468
 Ion Ratio Lower Upper
 75 100
 53 0.2 77.4 116.0#
 89 0.3 37.3 55.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.227 ug/l

RT: 12.98 min Scan# 1940

Delta R.T. -0.02 min

Lab File: VX011611.D

Acq: 17 Aug 2019 04:08

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(3.4)

Tgt Ion: 75 Resp: 310

Ion Ratio Lower Upper

75 100

155 0.0 53.0 159.0#

157 7.4 68.3 205.1#

