

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011607.D
 Acq On : 17 Aug 2019 02:34
 Operator : JC/SP
 Sample : K4265-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A2-(0-1)

Quant Time: Aug 19 01:18:11 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	5.66	168	463619	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	629997	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	553797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	267760	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	214811	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	5.49	113	187460	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
50) Toluene-d8	8.71	98	715304	55.71	ug/l	0.00
Spiked Amount			Recovery	=	111.42%	
62) 4-Bromofluorobenzene	11.13	95	240364	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	

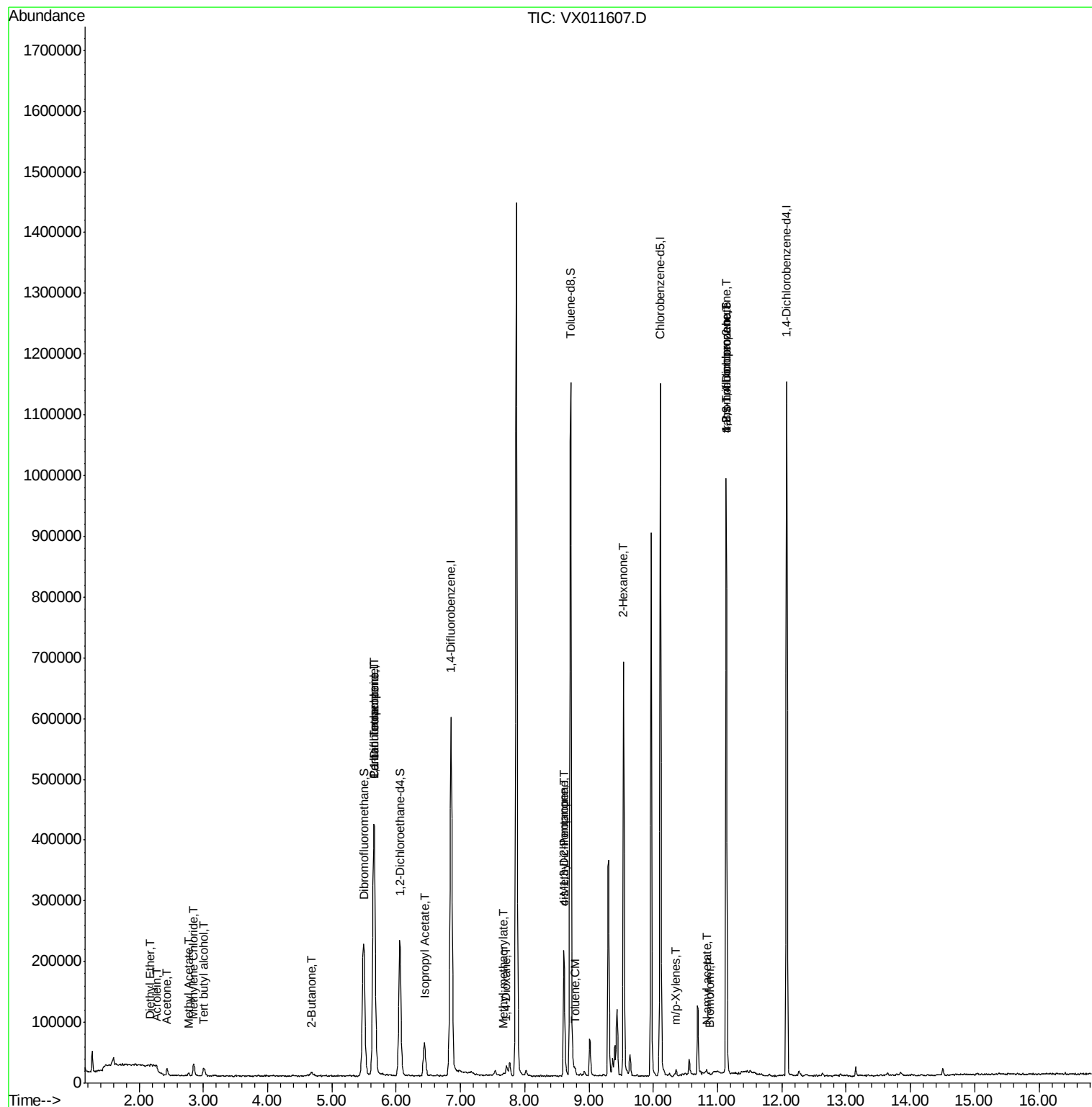
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	963	0.474	ug/l	86
11) Tert butyl alcohol	3.01	59	8158	7.734	ug/l #	77
13) Acrolein	2.28	56	263	12.955	ug/l	86
16) Acetone	2.43	43	11799	5.458	ug/l	94
18) Methyl Acetate	2.77	43	5753	0.858	ug/l #	85
20) Methylene Chloride	2.85	84	9811	2.161	ug/l	93
25) 2-Butanone	4.68	43	1915	0.564	ug/l	94
36) 1,1-Dichloropropene	5.65	75	25402	4.716	ug/l #	51
38) Carbon Tetrachloride	5.66	117	37887	6.384	ug/l #	15
43) Isopropyl Acetate	6.44	43	75119	7.769	ug/l	98
48) Methyl methacrylate	7.67	41	5348	1.117	ug/l #	17
49) 1,4-Dioxane	7.72	88	157	1.233	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	71572	11.309	ug/l #	46
52) Toluene	8.79	92	2194	0.206	ug/l	99
54) cis-1,3-Dichloropropene	8.61	75	34720	5.488	ug/l #	63
59) 2-Hexanone	9.54	43	82858	16.978	ug/l #	52
68) m/p-Xylenes	10.36	106	2755	0.364	ug/l	97
71) Bromoform	10.87	173	167	3.328	ug/l #	28
74) N-amyl acetate	10.83	43	3312	0.449	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	118661	23.371	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	118661	62.115	ug/l #	11

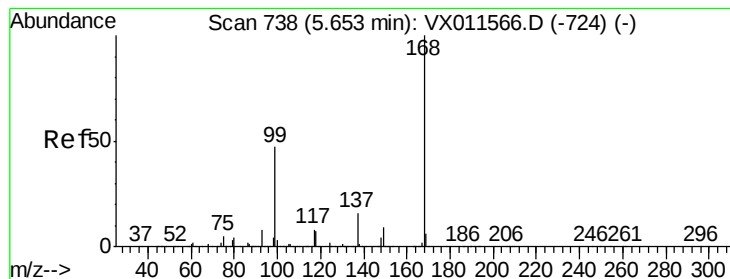
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

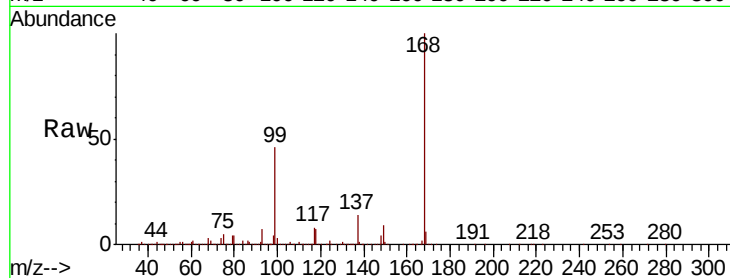
REACTOR-4-A2-(0-1)

Tgt Ion:168 Resp: 463619

Ion Ratio Lower Upper

168 100

99 45.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

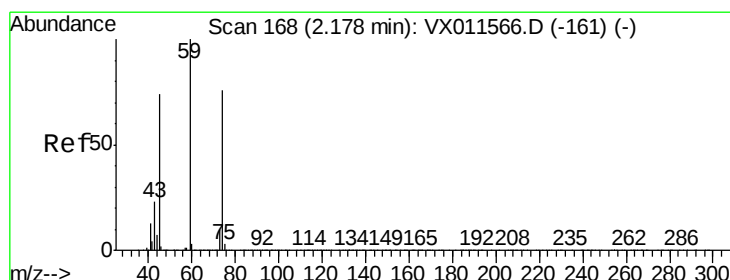
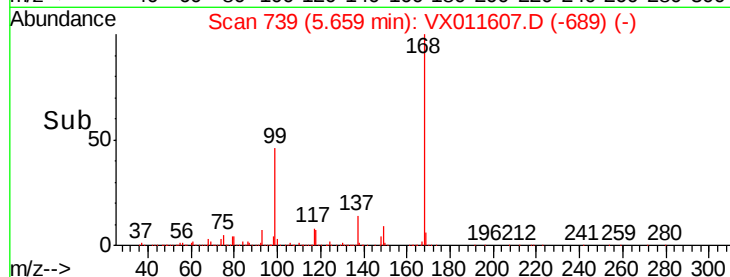
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.474 ug/l

RT: 2.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VX011607.D

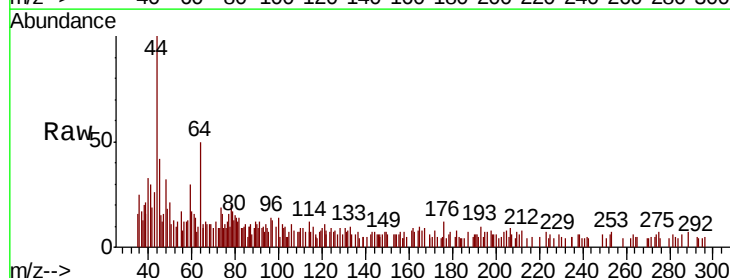
Acq: 17 Aug 2019 02:34

Tgt Ion: 74 Resp: 963

Ion Ratio Lower Upper

74 100

45 82.8 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1000

800

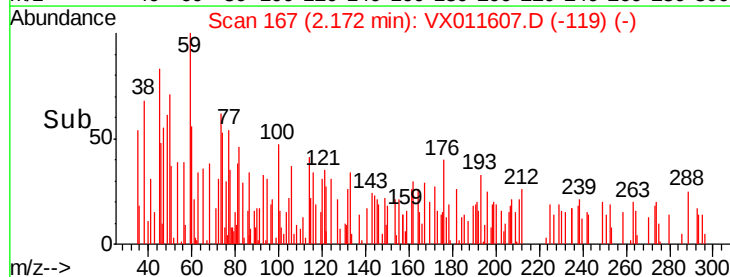
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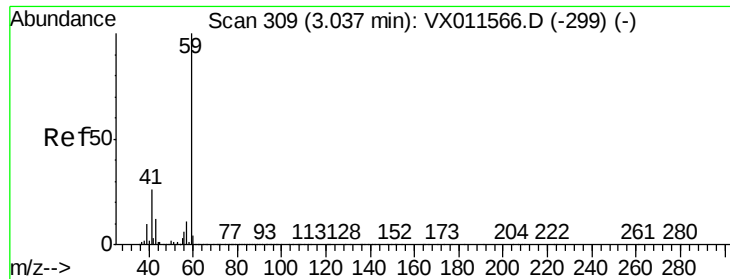
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200

0

Time-->

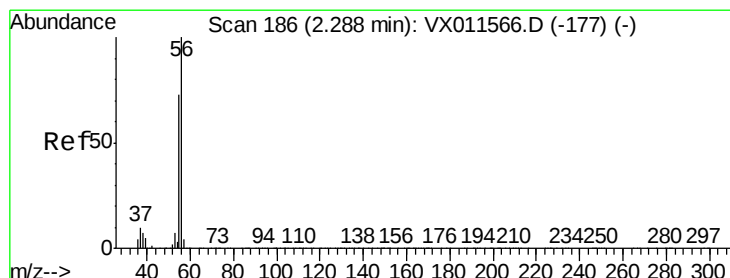
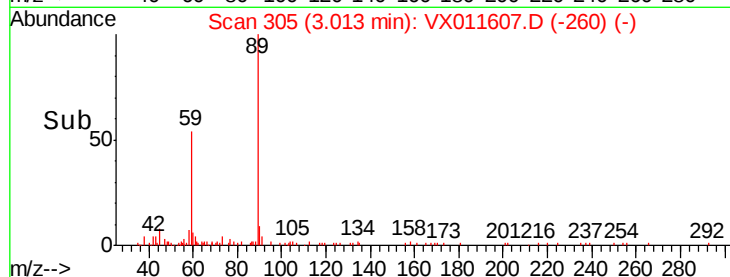
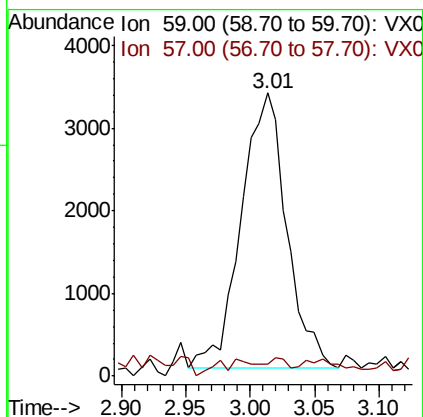
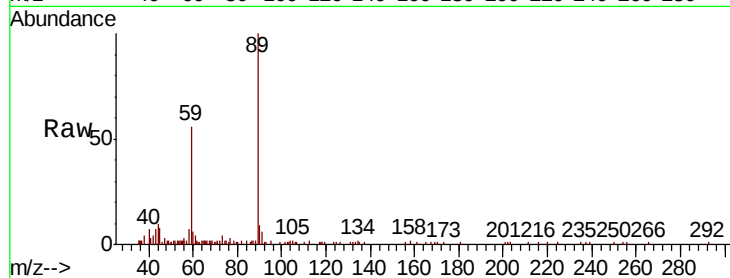




#11
Tert butyl alcohol
Concen: 7.734 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

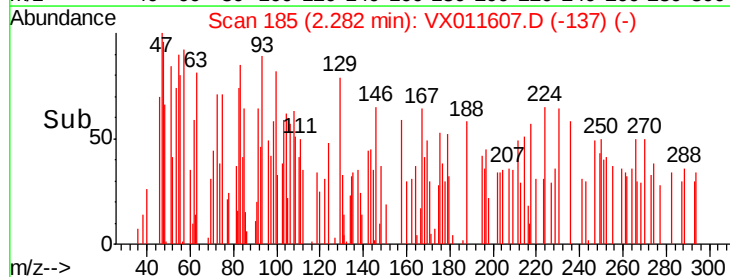
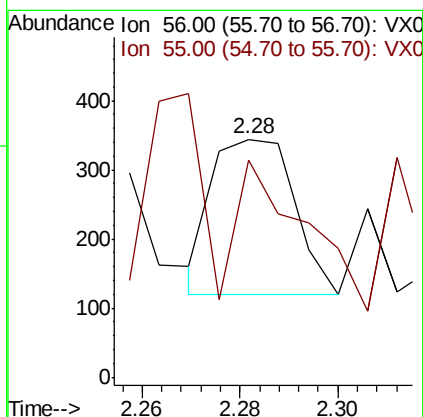
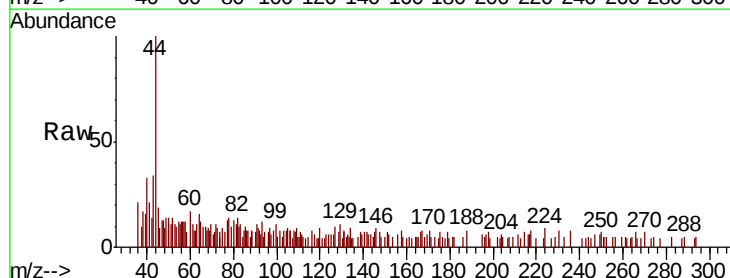
Instrument :
MSVOA_X
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REACTOR-4-A2-(0-1)

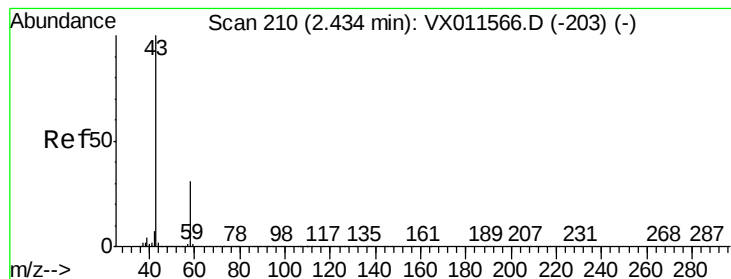
Tgt Ion: 59 Resp: 8158
Ion Ratio Lower Upper
59 100
57 2.0 8.7 13.1#



#13
Acrolein
Concen: 12.955 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Tgt Ion: 56 Resp: 263
Ion Ratio Lower Upper
56 100
55 81.0 55.5 83.3





#16

Acetone

Concen: 5.458 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

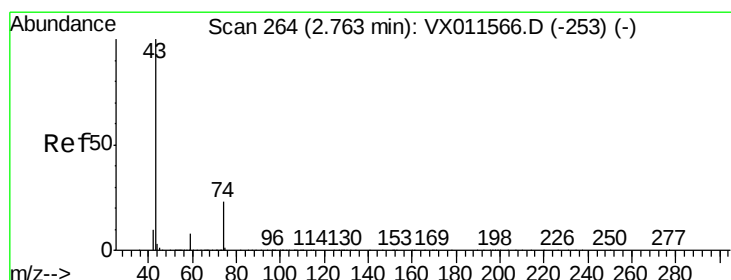
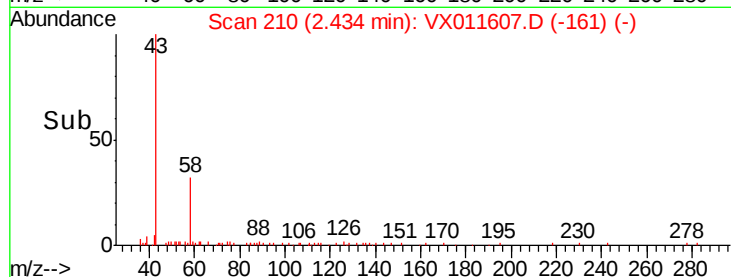
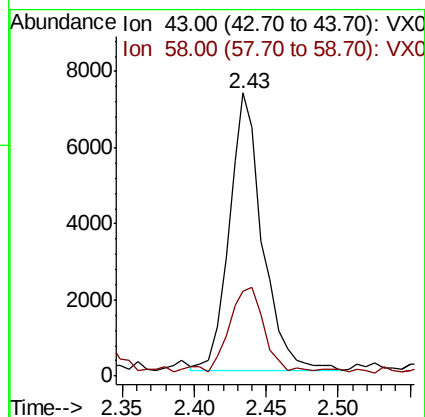
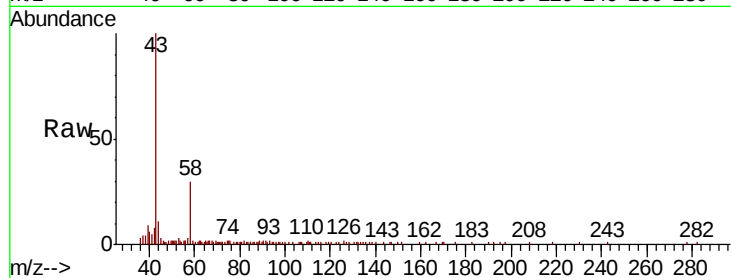
REACTOR-4-A2-(0-1)

Tgt Ion: 43 Resp: 11799

Ion Ratio Lower Upper

43 100

58 28.2 25.2 37.8



#18

Methyl Acetate

Concen: 0.858 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011607.D

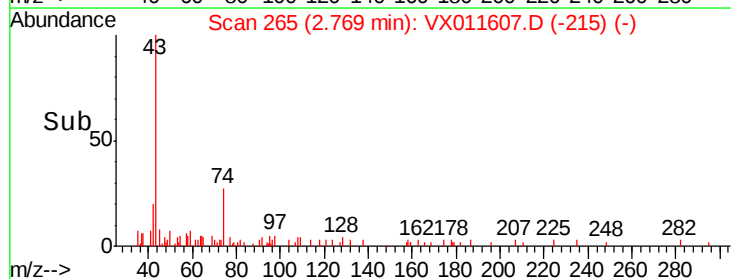
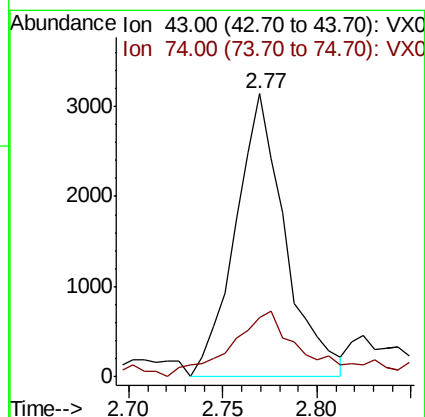
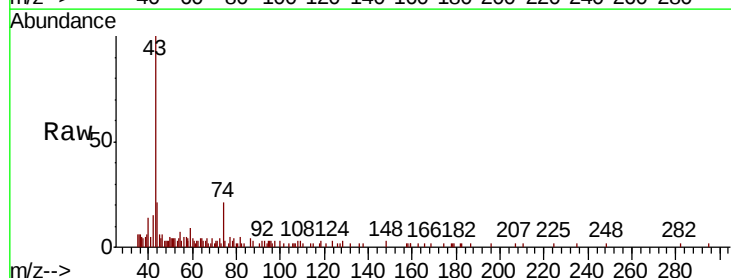
Acq: 17 Aug 2019 02:34

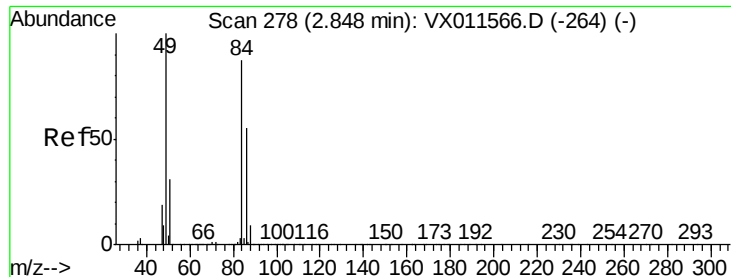
Tgt Ion: 43 Resp: 5753

Ion Ratio Lower Upper

43 100

74 32.2 19.7 29.5#

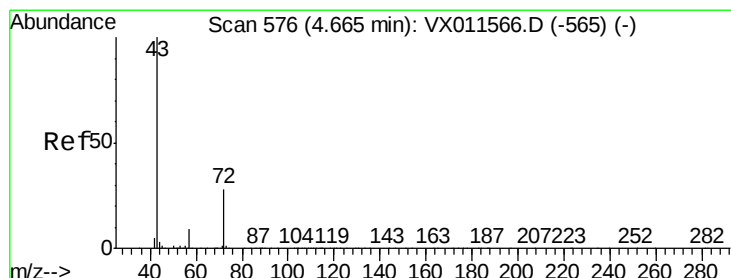
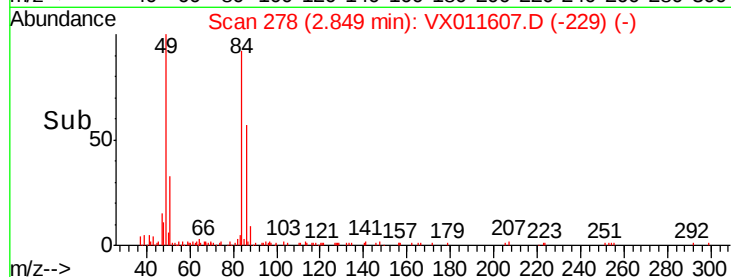
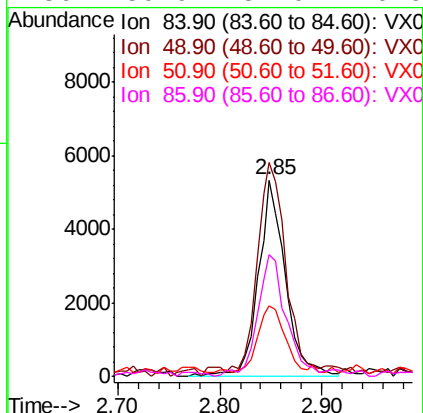
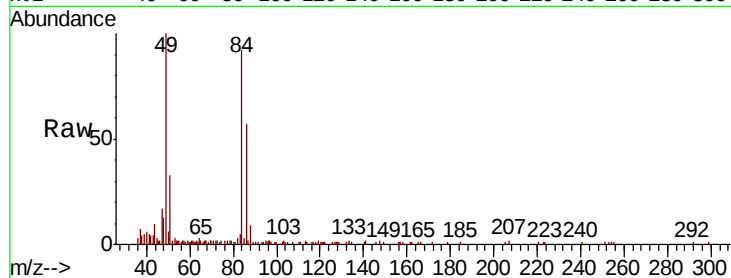




#20
Methylene Chloride
Concen: 2.161 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

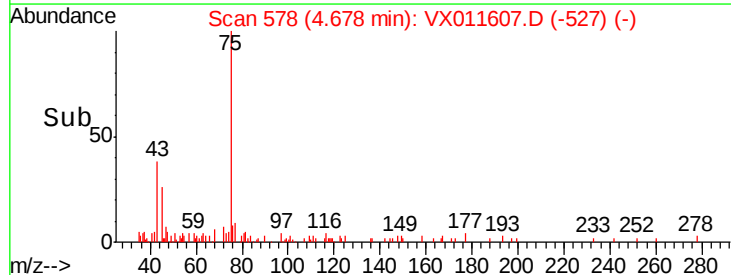
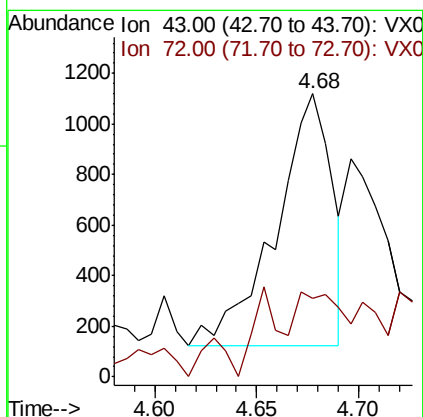
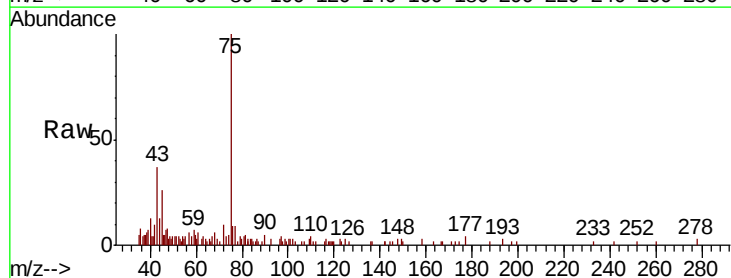
Instrument :
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REACTOR-4-A2-(0-1)

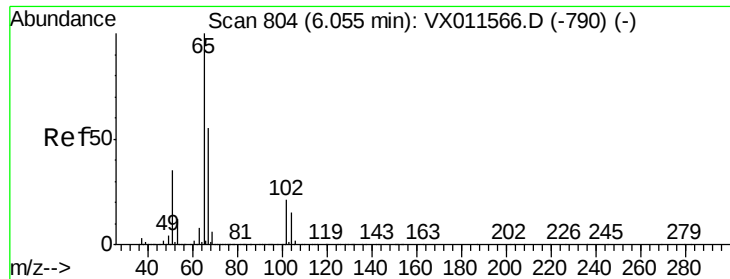
Tgt Ion:	84	Resp:	9811
Ion	Ratio	Lower	Upper
84	100		
49	105.2	92.4	138.6
51	34.2	28.5	42.7
86	59.9	51.0	76.6



#25
2-Butanone
Concen: 0.564 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Tgt Ion:	43	Resp:	1915
Ion	Ratio	Lower	Upper
43	100		
72	31.2	22.2	33.4

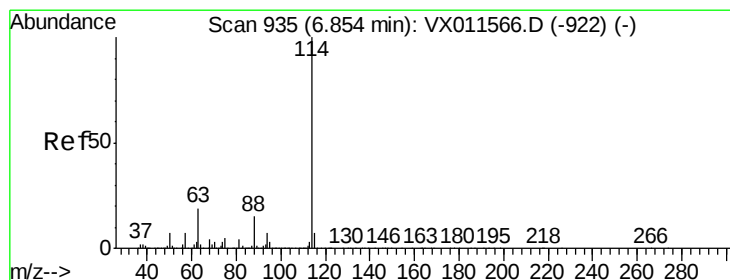
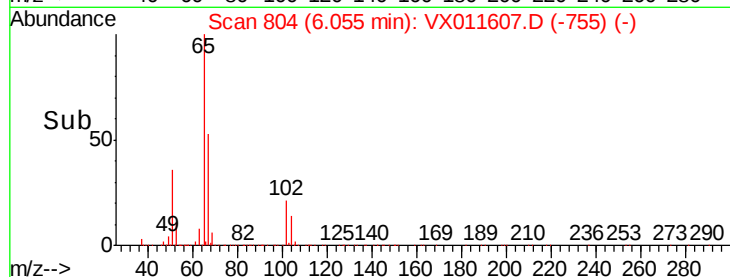
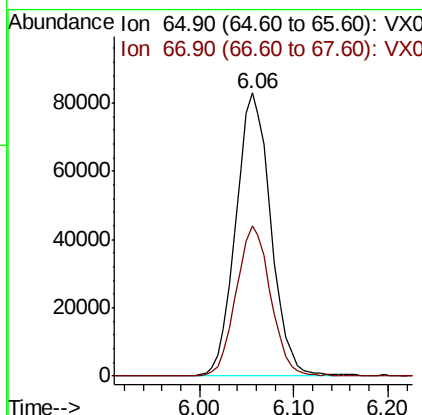
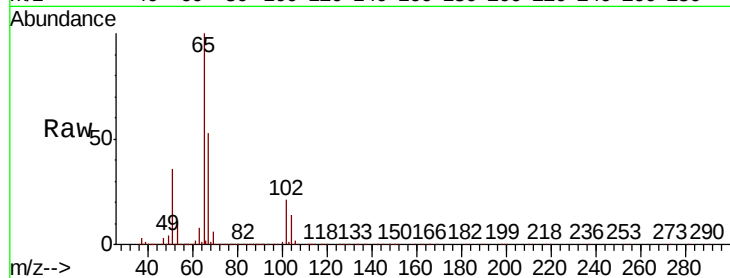




#33
 1,2-Dichloroethane-d4
 Concen: 49.963 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011607.D
 Acq: 17 Aug 2019 02:34

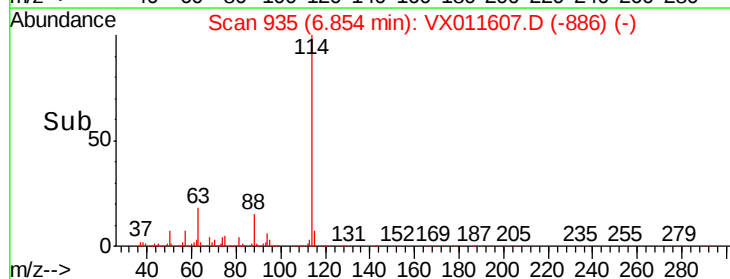
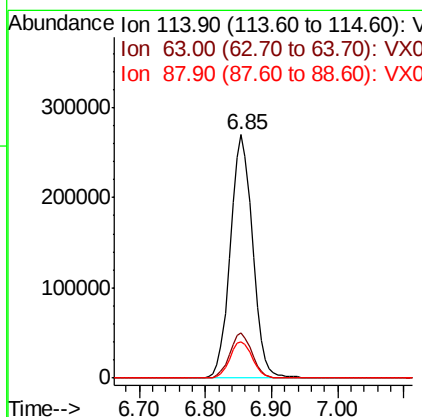
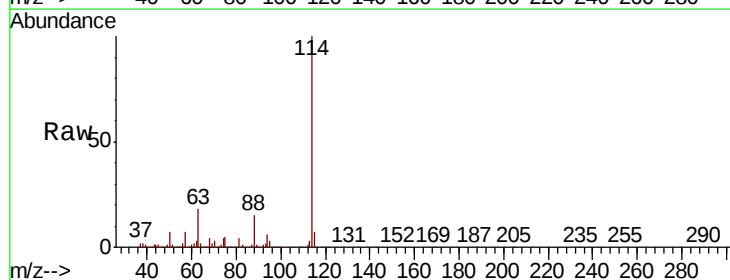
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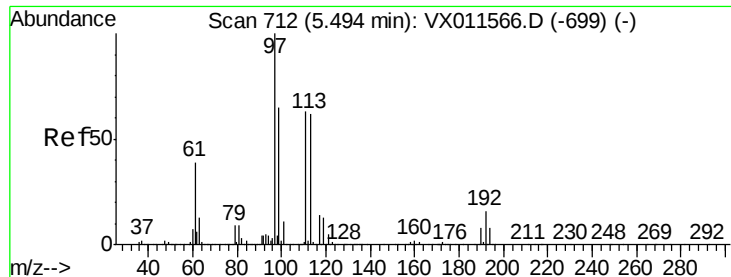
Tgt Ion: 65 Resp: 214811
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011607.D
 Acq: 17 Aug 2019 02:34

Tgt Ion: 114 Resp: 629997
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 37.8
 88 14.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 45.494 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(0-1)

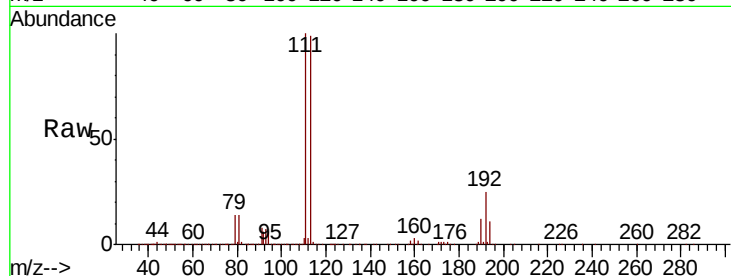
Tgt Ion:113 Resp: 187460

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

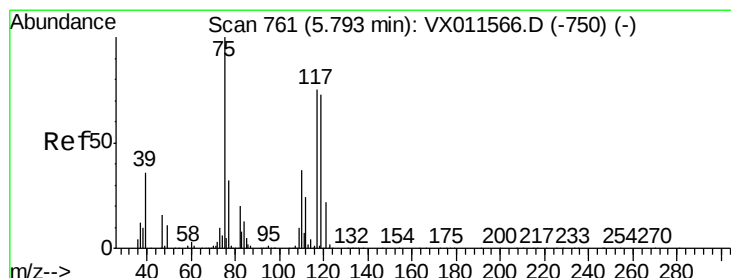
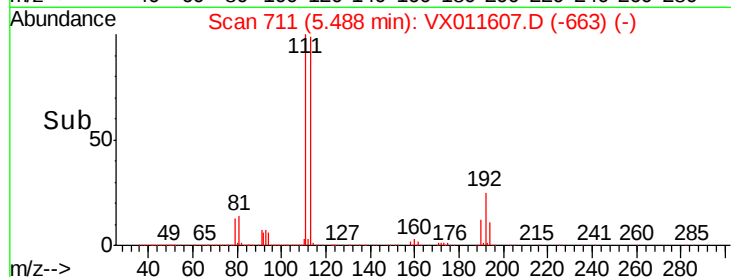
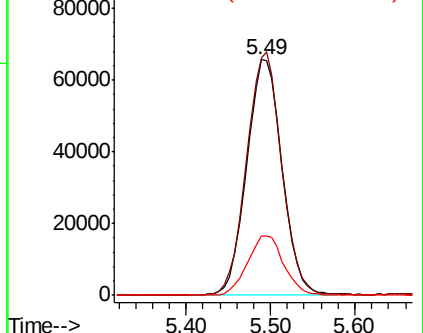
192 25.7 20.8 31.2



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: 4.716 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

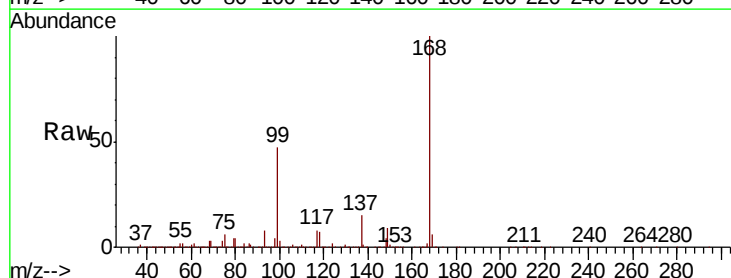
Tgt Ion: 75 Resp: 25402

Ion Ratio Lower Upper

75 100

110 12.1 19.4 58.1#

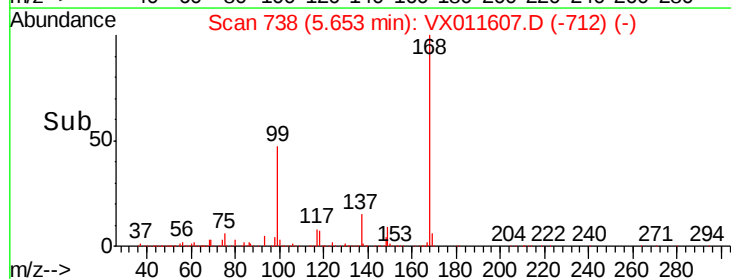
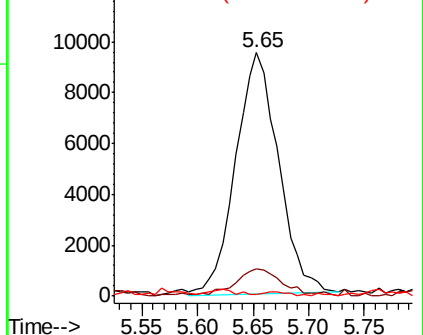
77 1.1 25.1 37.7#

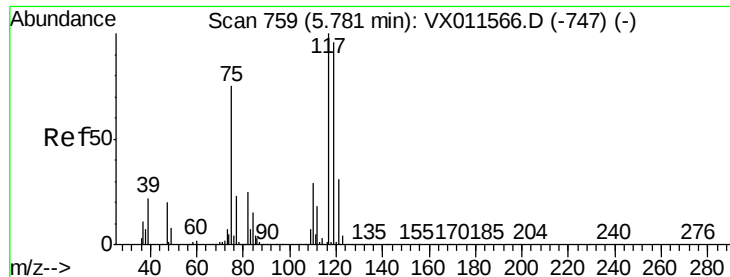


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

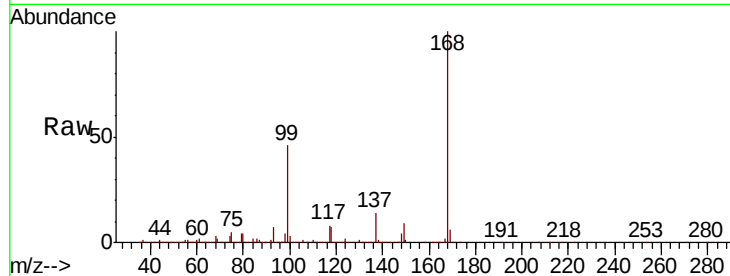




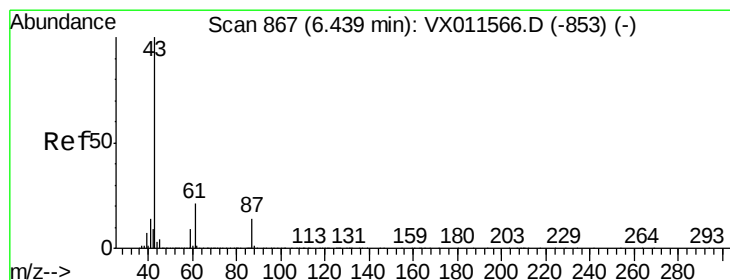
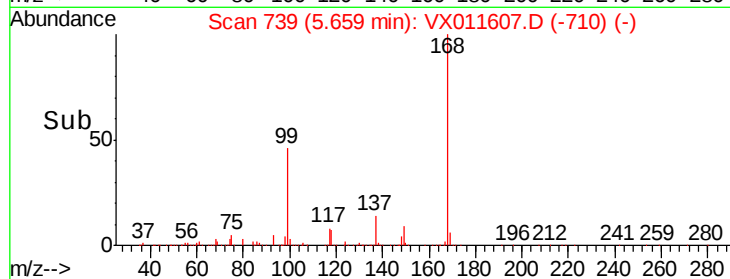
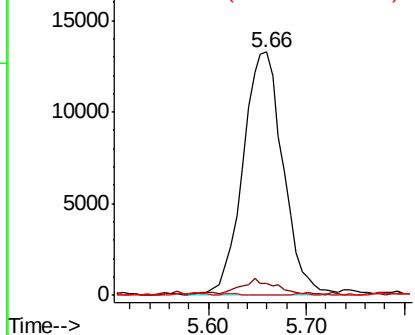
#38
Carbon Tetrachloride
Concen: 6.384 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(0-1)

Tgt Ion: 117 Resp: 37887
Ion Ratio Lower Upper
117 100
119 4.1 76.9 115.3#
121 0.0 24.8 37.2#

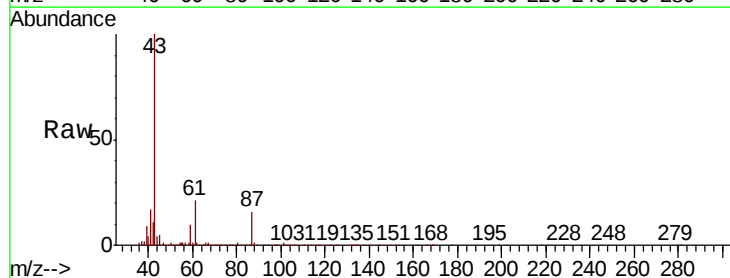


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

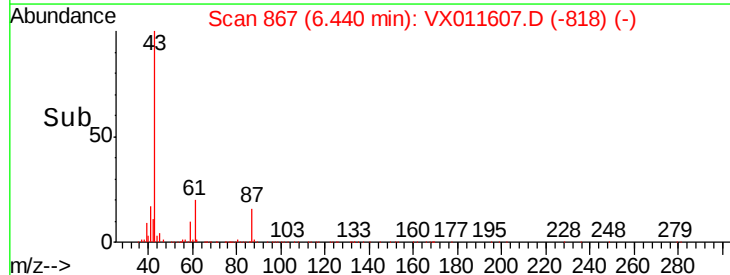
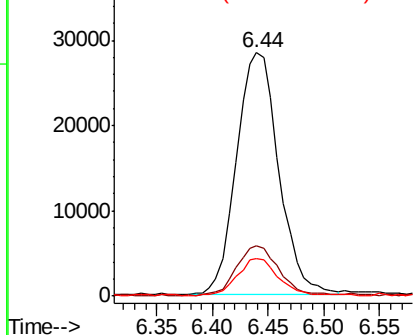


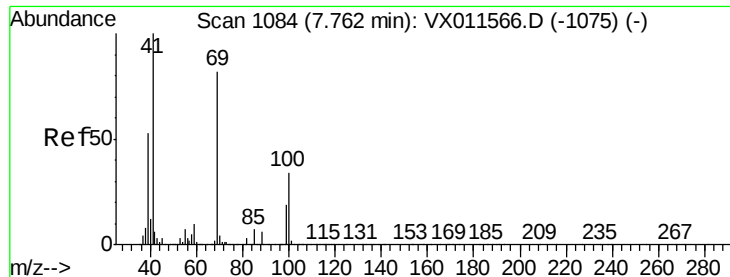
#43
Isopropyl Acetate
Concen: 7.769 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Tgt Ion: 43 Resp: 75119
Ion Ratio Lower Upper
43 100
61 20.4 16.6 24.8
87 15.6 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

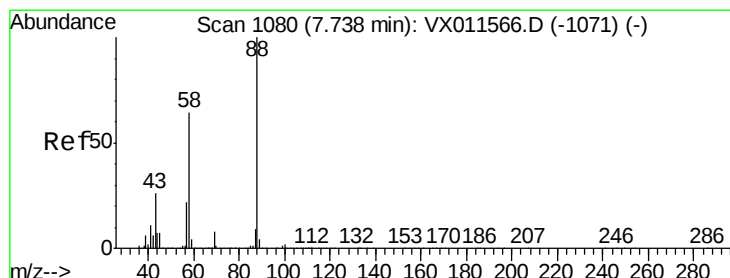
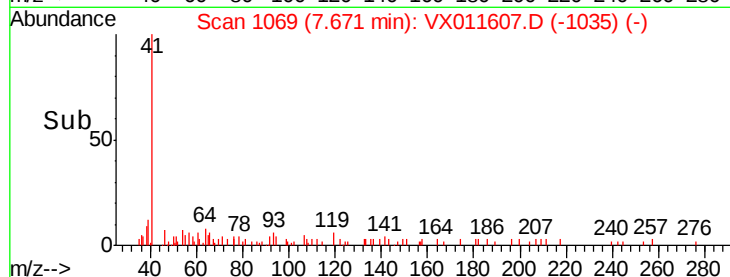
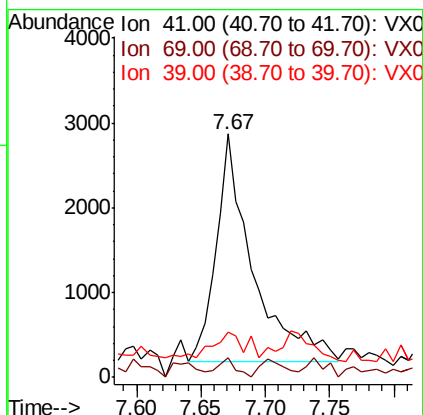
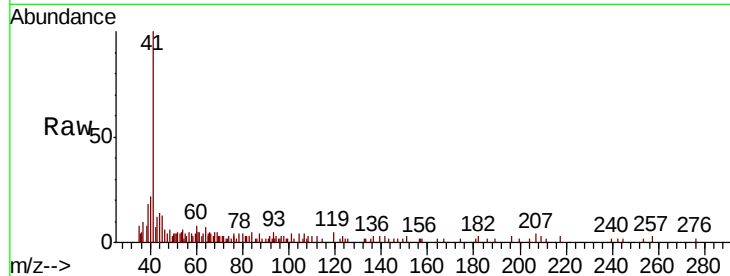




#48
Methyl methacrylate
Concen: 1.117 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

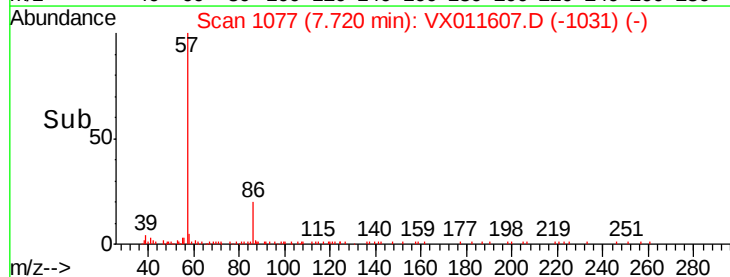
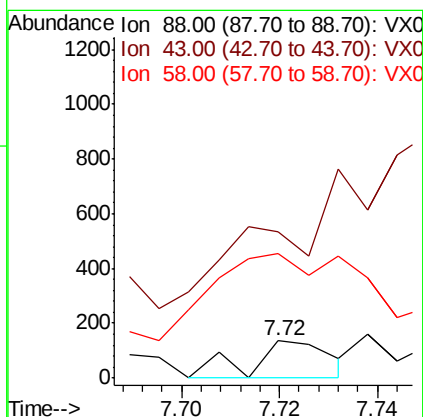
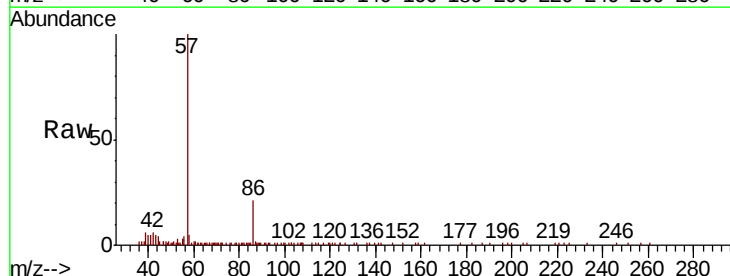
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(0-1)

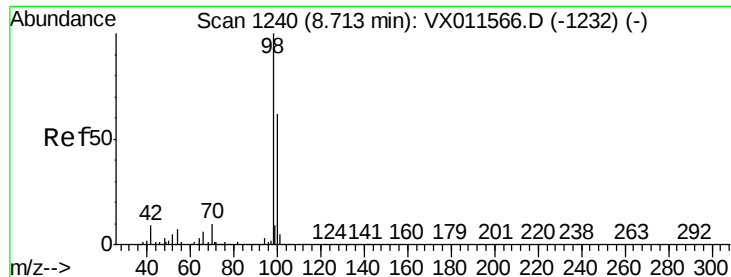
Tgt Ion: 41 Resp: 5348
Ion Ratio Lower Upper
41 100
69 4.2 67.9 101.9#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 1.233 ug/l
RT: 7.72 min Scan# 1077
Delta R.T. -0.02 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Tgt Ion: 88 Resp: 157
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 598.1 54.3 81.5#





#50

Toluene-d8

Concen: 55.712 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

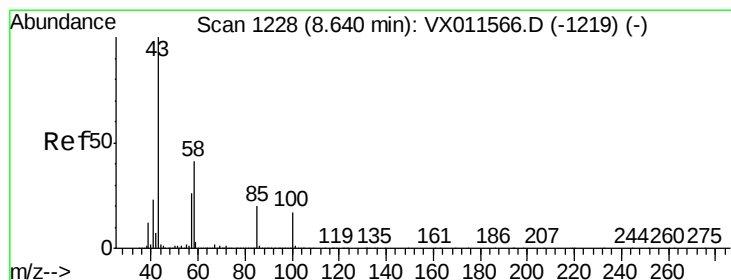
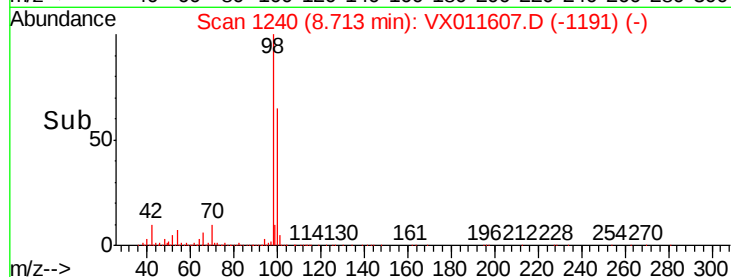
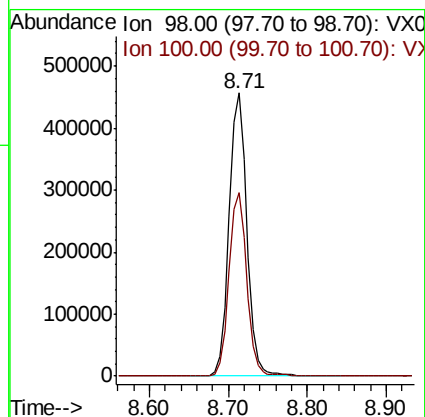
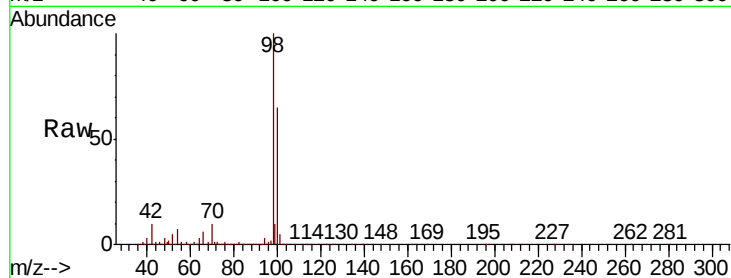
REACTOR-4-A2-(0-1)

Tgt Ion: 98 Resp: 715304

Ion Ratio Lower Upper

98 100

100 65.0 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 11.309 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011607.D

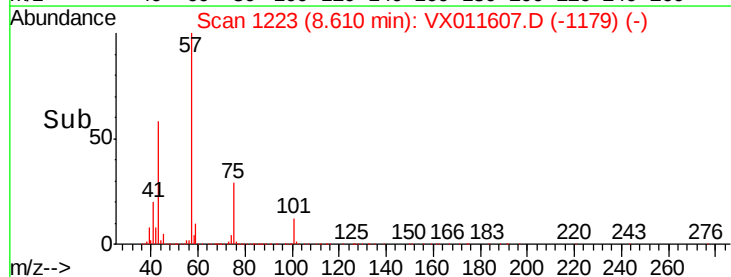
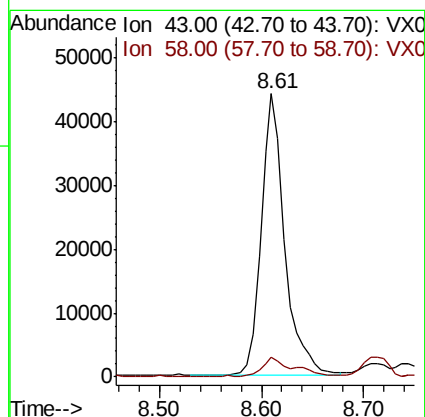
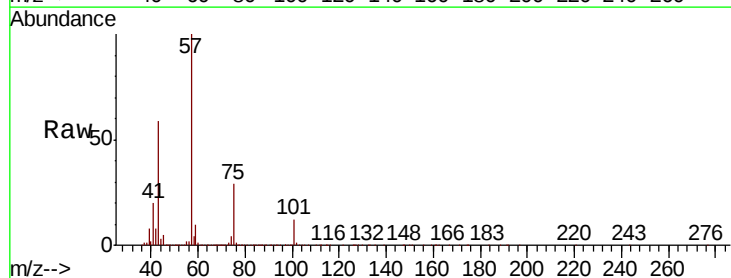
Acq: 17 Aug 2019 02:34

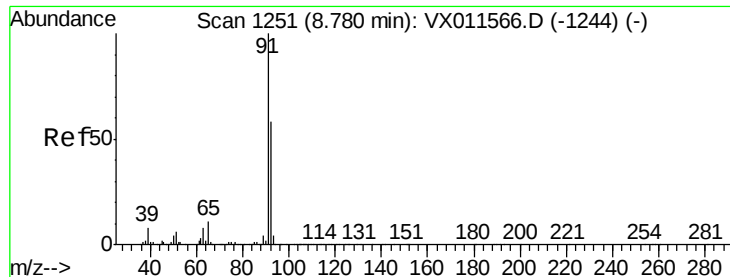
Tgt Ion: 43 Resp: 71572

Ion Ratio Lower Upper

43 100

58 6.4 31.8 47.6#





#52

Toluene

Concen: 0.206 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

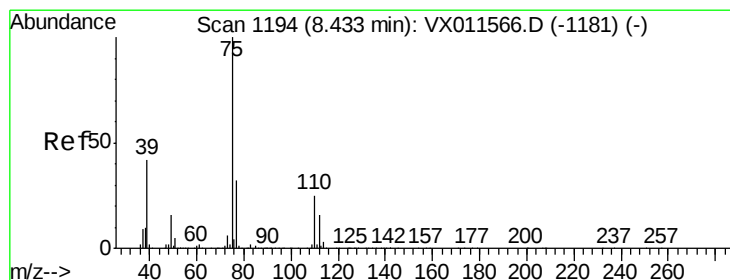
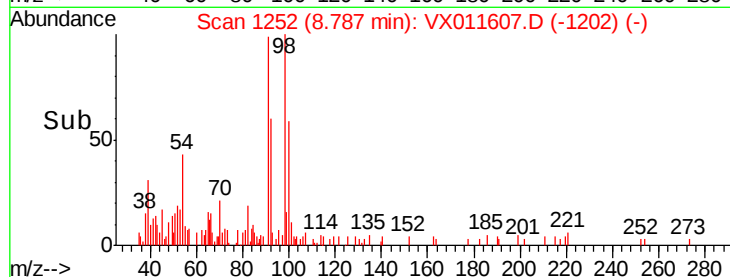
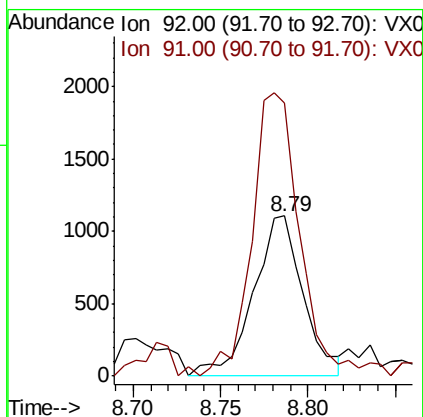
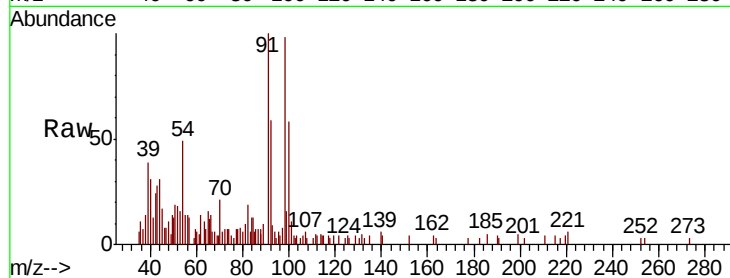
REACTOR-4-A2-(0-1)

Tgt Ion: 92 Resp: 2194

Ion Ratio Lower Upper

92 100

91 170.7 138.0 207.0



#54

cis-1,3-Dichloropropene

Concen: 5.488 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

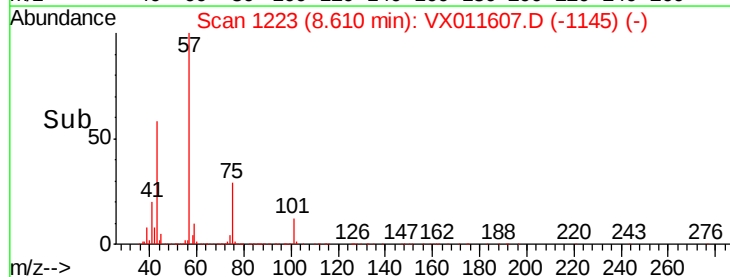
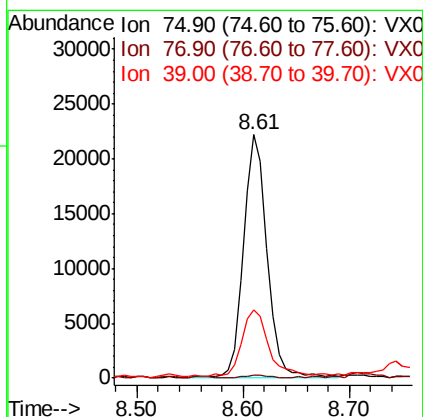
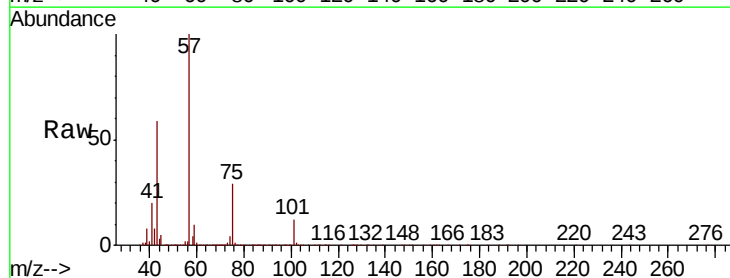
Tgt Ion: 75 Resp: 34720

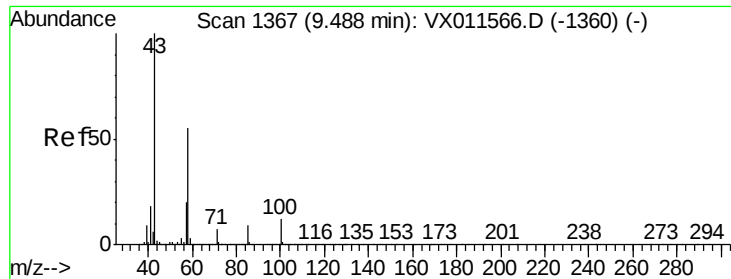
Ion Ratio Lower Upper

75 100

77 1.2 25.5 38.3#

39 27.5 33.6 50.4#

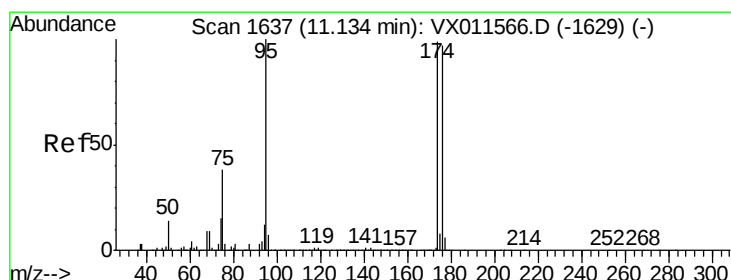
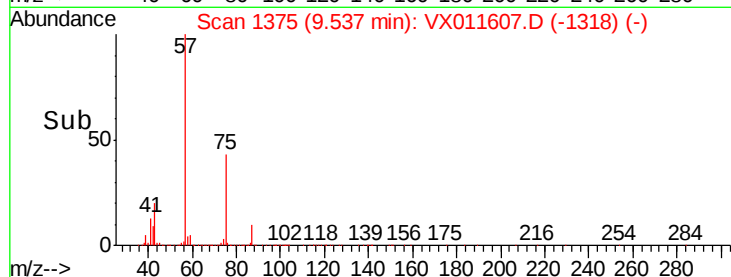
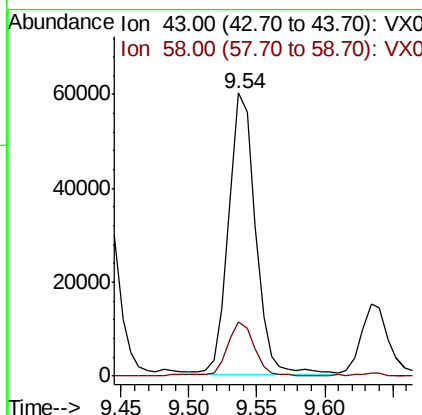
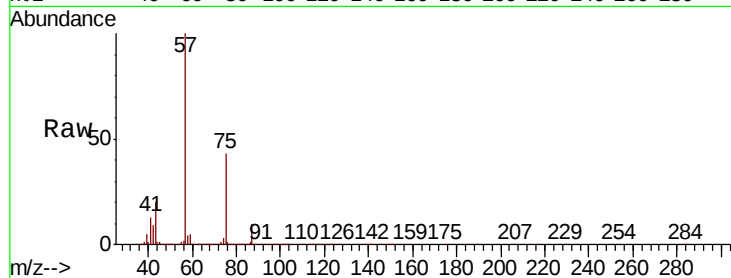




#59
2-Hexanone
Concen: 16.978 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

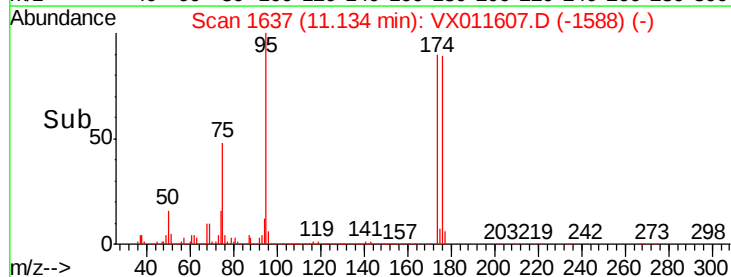
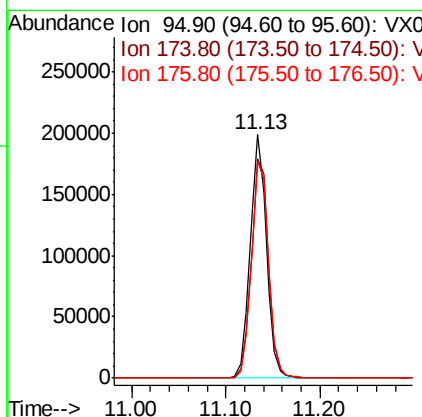
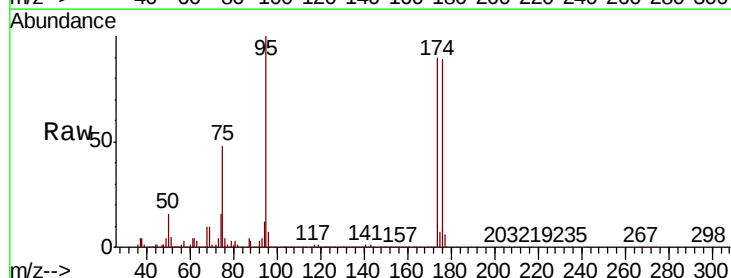
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(0-1)

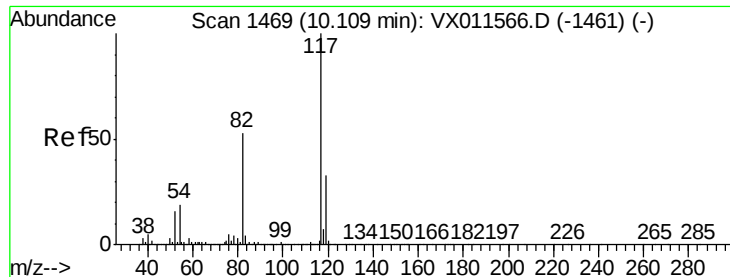
Tgt Ion: 43 Resp: 82858
Ion Ratio Lower Upper
43 100
58 20.5 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 44.354 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Tgt Ion: 95 Resp: 240364
Ion Ratio Lower Upper
95 100
174 95.4 0.0 200.6
176 93.6 0.0 196.6

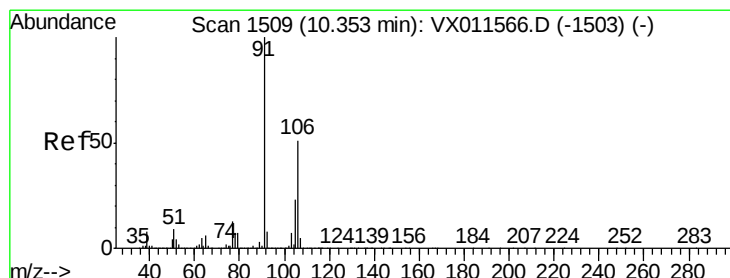
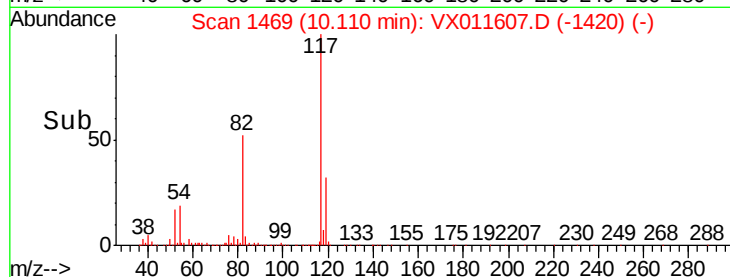
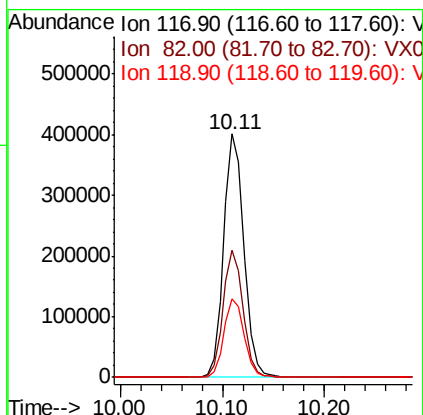
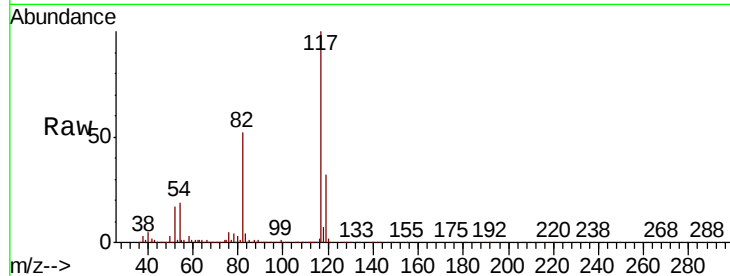




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

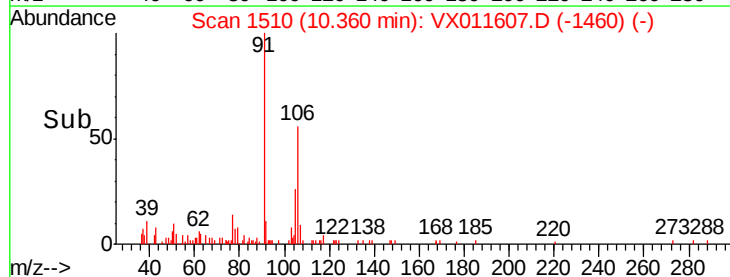
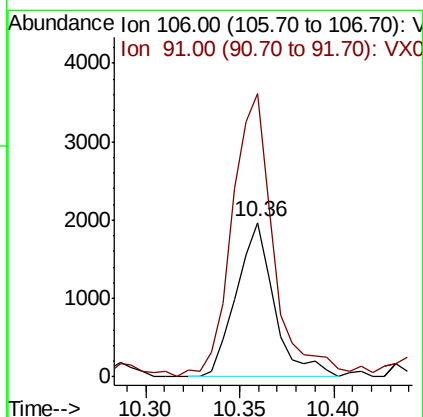
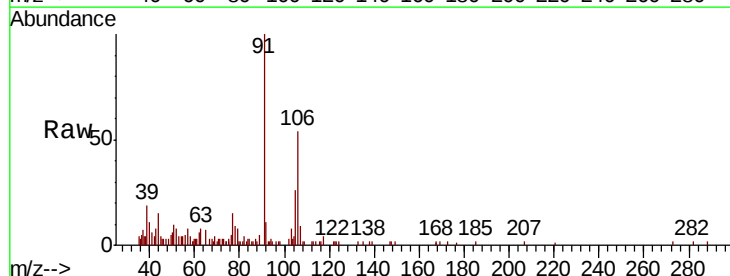
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A2-(0-1)

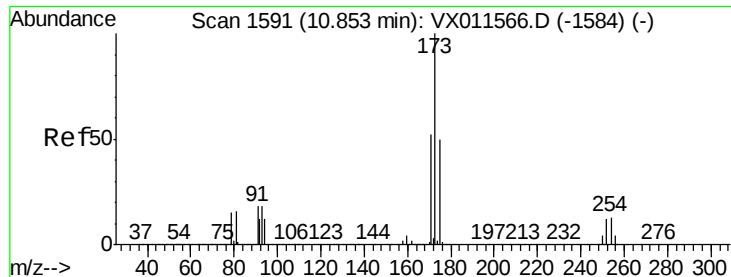
Tgt Ion:117 Resp: 553797
Ion Ratio Lower Upper
117 100
82 52.2 42.0 63.0
119 32.1 26.5 39.7



#68
m/p-Xylenes
Concen: 0.364 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.01 min
Lab File: VX011607.D
Acq: 17 Aug 2019 02:34

Tgt Ion:106 Resp: 2755
Ion Ratio Lower Upper
106 100
91 200.1 156.0 234.0





#71

Bromoform

Concen: 3.328 ug/l

RT: 10.87 min Scan# 1593

Delta R.T. 0.01 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(0-1)

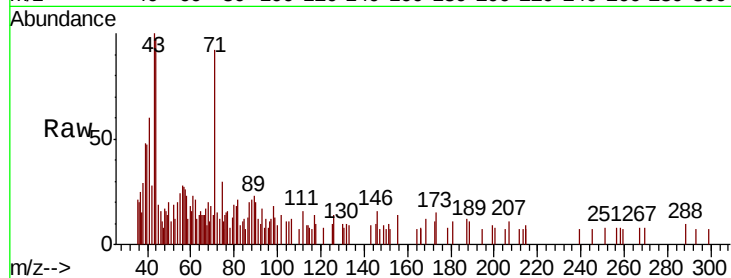
Tgt Ion:173 Resp: 167

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

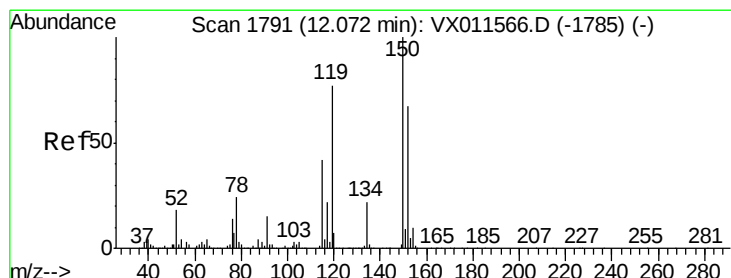
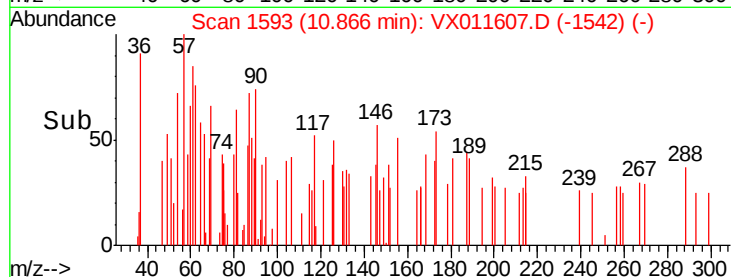
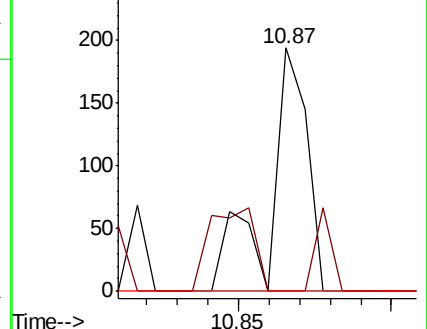
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

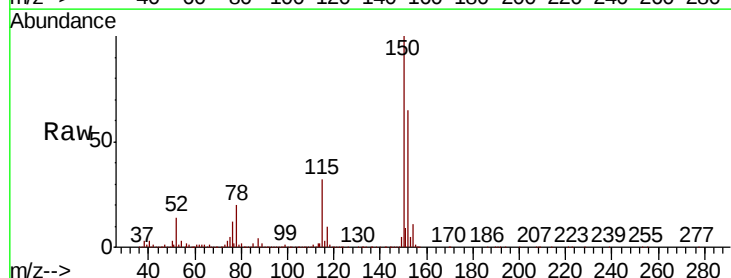
Tgt Ion:152 Resp: 267760

Ion Ratio Lower Upper

152 100

115 52.7 37.3 111.9

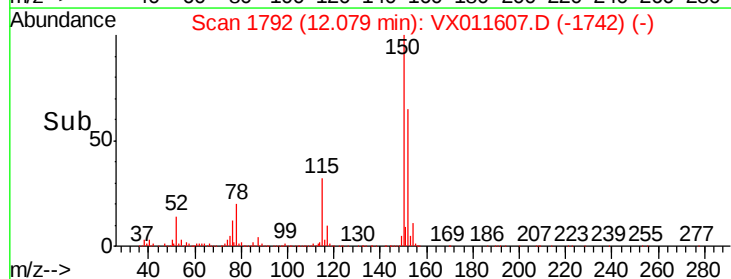
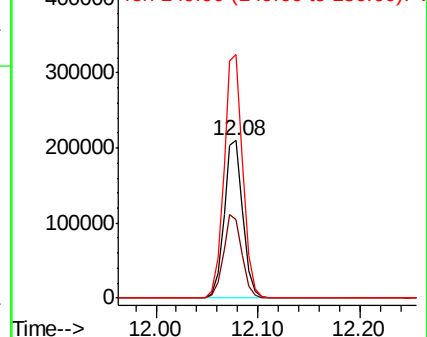
150 155.3 0.0 346.2

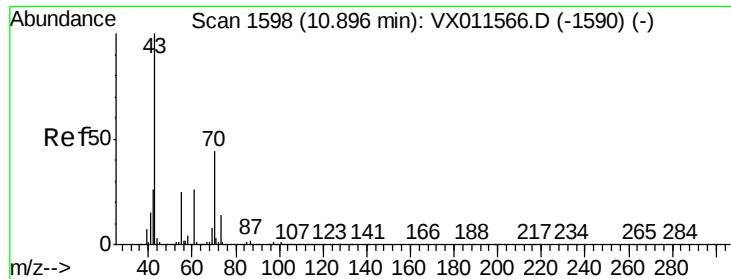


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.449 ug/l

RT: 10.83 min Scan# 1587

Delta R.T. -0.07 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(0-1)

Tgt Ion: 43 Resp: 3312

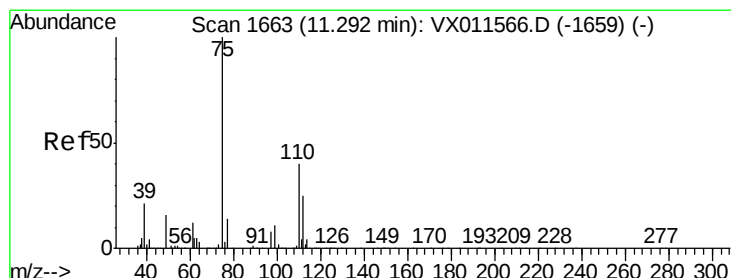
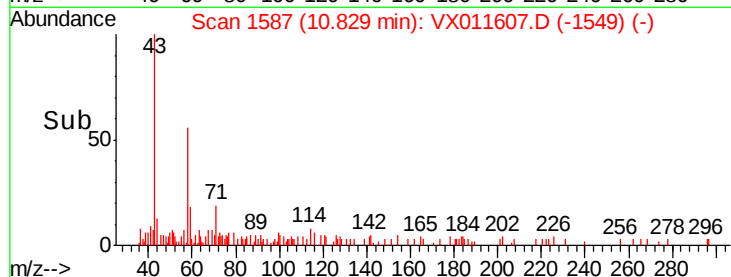
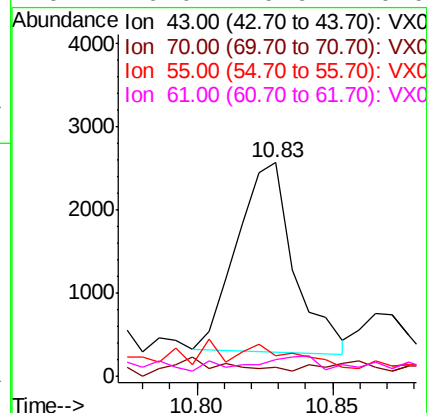
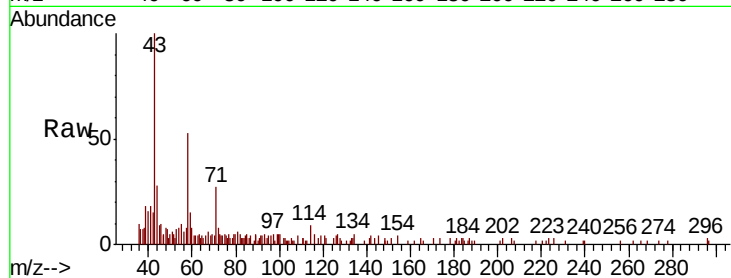
Ion Ratio Lower Upper

43 100

70 0.0 34.7 52.1#

55 10.4 19.6 29.4#

61 0.0 19.9 29.9#



#76

1,2,3-Trichloropropane

Concen: 23.371 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011607.D

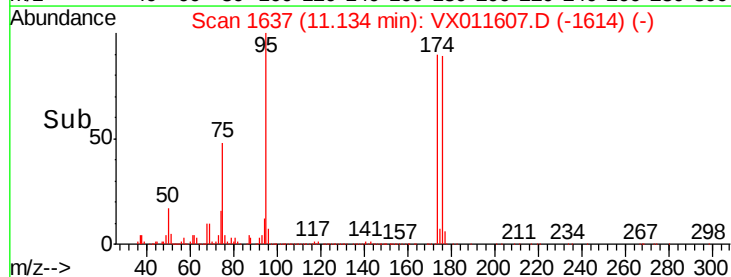
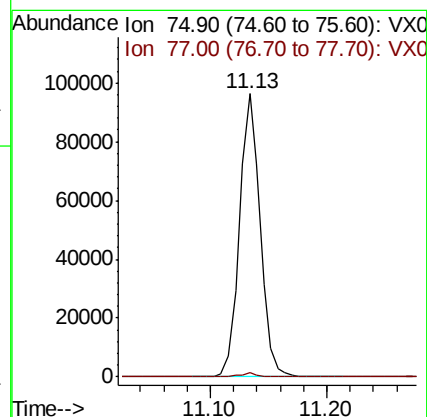
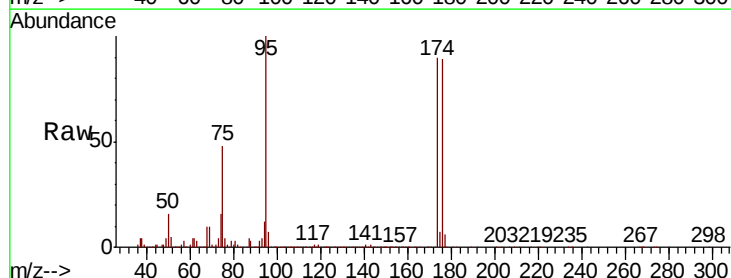
Acq: 17 Aug 2019 02:34

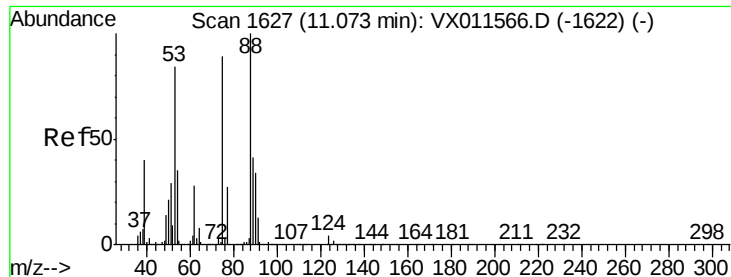
Tgt Ion: 75 Resp: 118661

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.115 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011607.D

Acq: 17 Aug 2019 02:34

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A2-(0-1)

Tgt Ion: 75 Resp: 118661

Ion Ratio Lower Upper

75 100

53 0.1 77.4 116.0#

89 0.2 37.3 55.9#

