

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011508.D
 Acq On : 13 Aug 2019 01:36
 Operator : JC/SP
 Sample : K4230-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3E-(2)

Quant Time: Aug 13 07:47:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

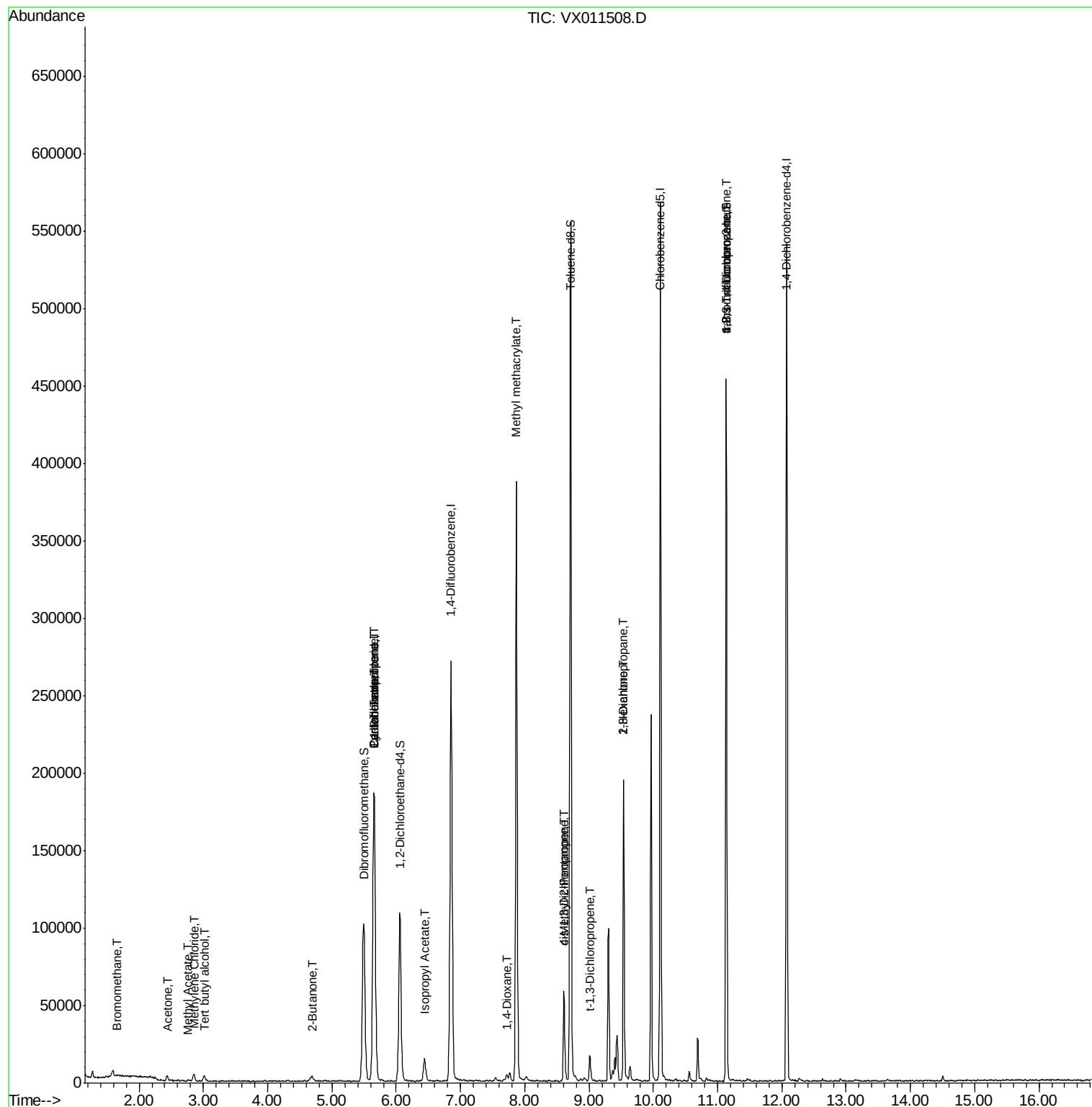
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	183744	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	278319	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	112109	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	103365	55.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.72%	
35) Dibromofluoromethane	5.49	113	87265	48.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.04%	
50) Toluene-d8	8.71	98	335212	48.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.74%	
62) 4-Bromofluorobenzene	11.13	95	109095	44.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.10%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.66	94	657	0.526	ug/l	93
6) Chloroethane	1.67	64	179	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	2107	5.733	ug/l #	75
13) Acrolein	2.29	56	24	Below Cal	#	15
16) Acetone	2.43	43	3928	4.460	ug/l	98
18) Methyl Acetate	2.76	43	1363	0.677	ug/l	91
20) Methylene Chloride	2.85	84	2107	1.092	ug/l #	85
25) 2-Butanone	4.68	43	1316	1.050	ug/l #	65
31) Cyclohexane	5.66	56	3543	1.487	ug/l #	7
36) 1,1-Dichloropropene	5.66	75	12747	5.246	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18027	7.374	ug/l #	15
43) Isopropyl Acetate	6.44	43	19565	5.021	ug/l	100
48) Methyl methacrylate	7.87	41	34217	18.658	ug/l #	39
49) 1,4-Dioxane	7.72	88	20	0.376	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	19288	7.669	ug/l #	47
53) t-1,3-Dichloropropene	9.02	75	79	2.866	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	9337	3.444	ug/l #	73
57) 1,3-Dichloropropane	9.54	76	1708	0.548	ug/l #	41
59) 2-Hexanone	9.54	43	22965	11.789	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	56459	27.654	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	56459	71.684	ug/l #	10

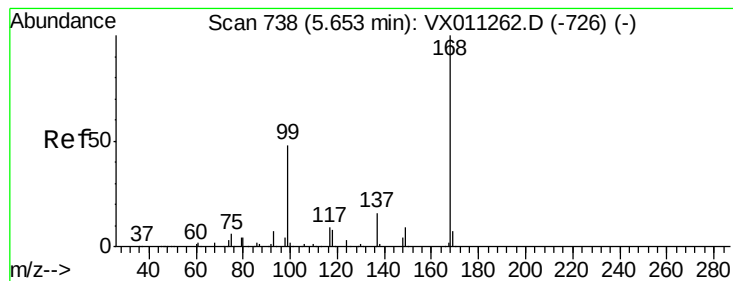
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011508.D

Acq: 13 Aug 2019 01:36

Instrument :

MSVOA_X

ClientSampleId :

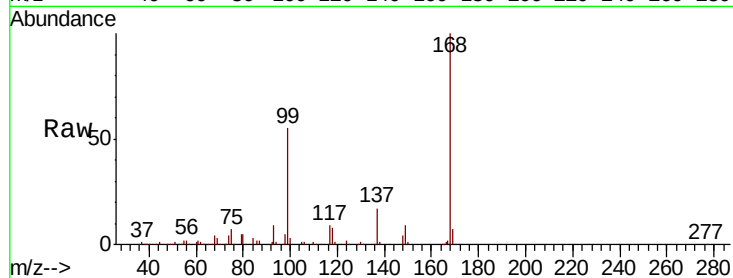
REACTOR-3E-(2)

Tgt Ion:168 Resp: 183744

Ion Ratio Lower Upper

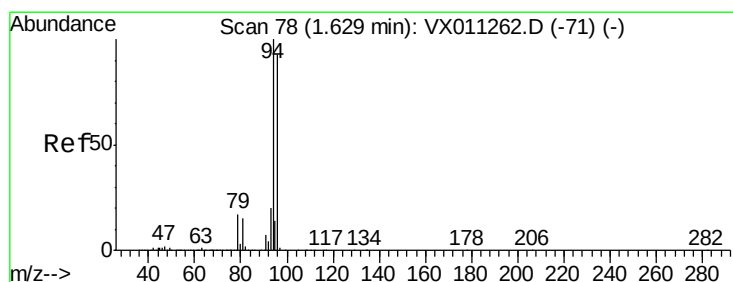
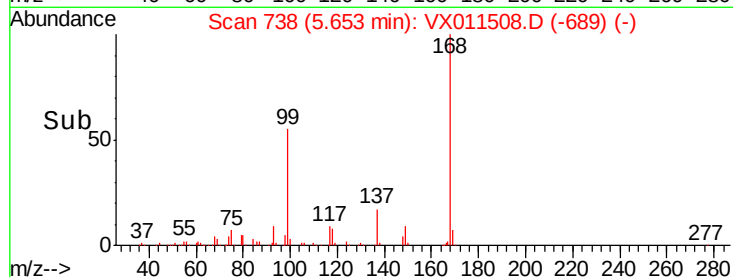
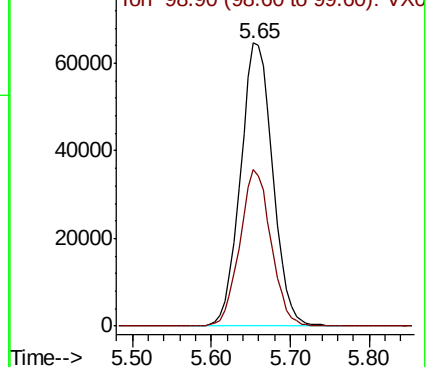
168 100

99 55.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.526 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.03 min

Lab File: VX011508.D

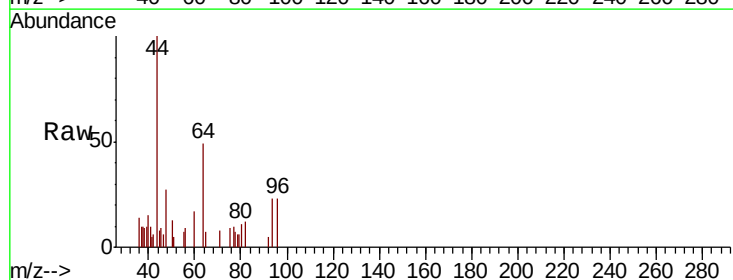
Acq: 13 Aug 2019 01:36

Tgt Ion: 94 Resp: 657

Ion Ratio Lower Upper

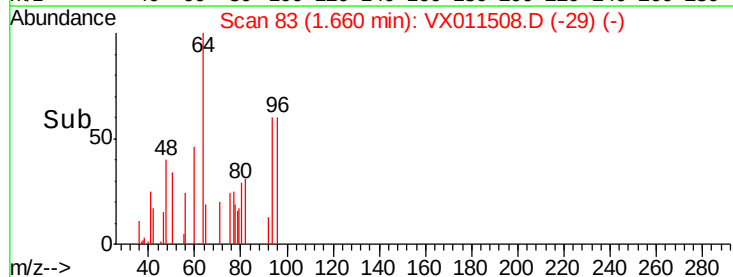
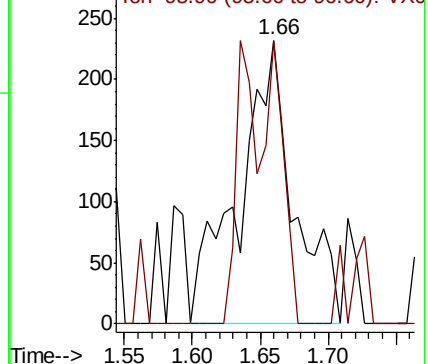
94 100

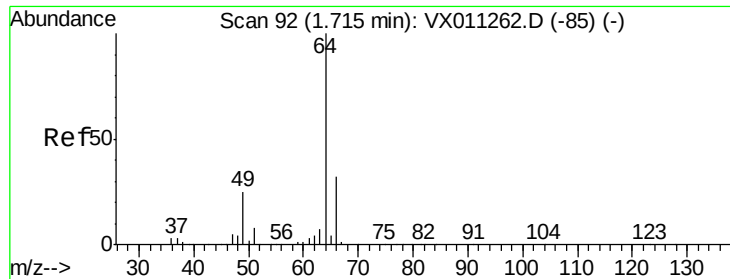
96 99.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 85

Delta R.T. -0.04 min

Lab File: VX011508.D

Acq: 13 Aug 2019 01:36

Instrument :

MSVOA_X

ClientSampleId :

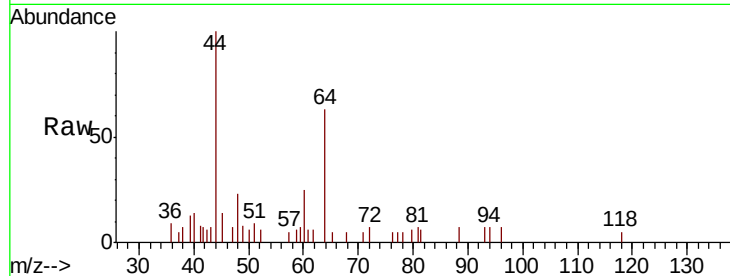
REACTOR-3E-(2)

Tgt Ion: 64 Resp: 179

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.67

600

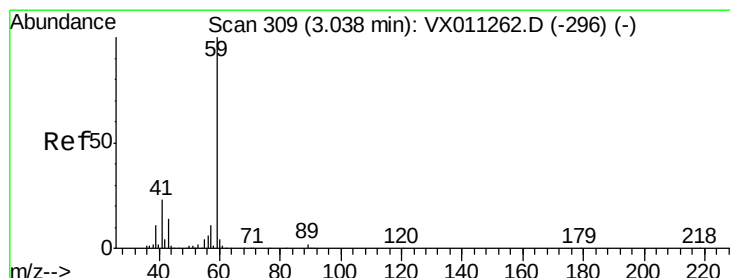
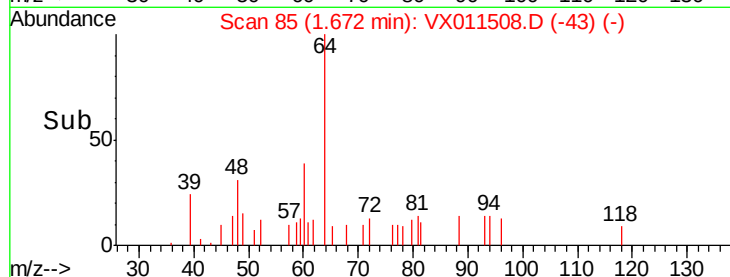
400

200

0

1.66 1.67 1.68

Time-->



#11

Tert butyl alcohol

Concen: 5.733 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011508.D

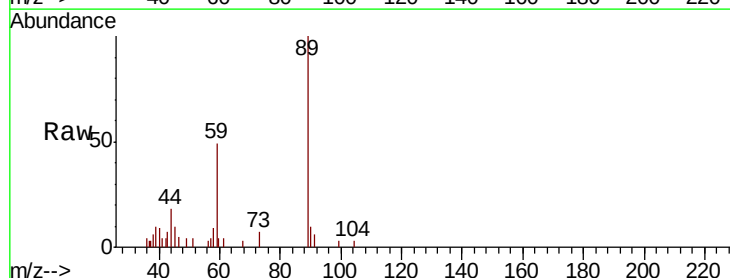
Acq: 13 Aug 2019 01:36

Tgt Ion: 59 Resp: 2107

Ion Ratio Lower Upper

59 100

57 1.2 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

800

600

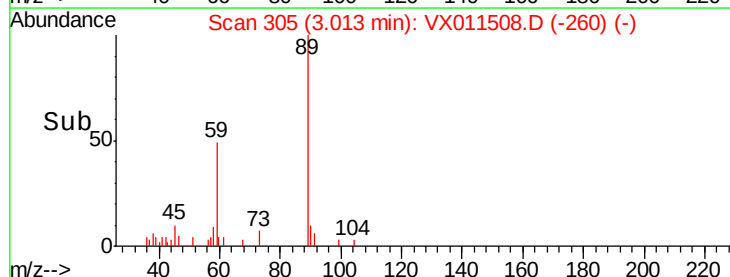
400

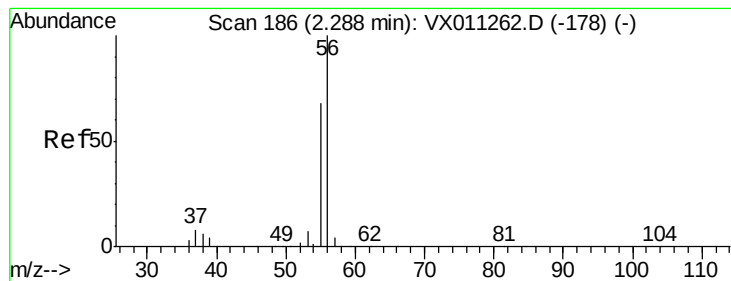
200

0

2.90 2.95 3.00 3.05 3.10

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX011508.D

Acq: 13 Aug 2019 01:36

Instrument :

MSVOA_X

ClientSampleId :

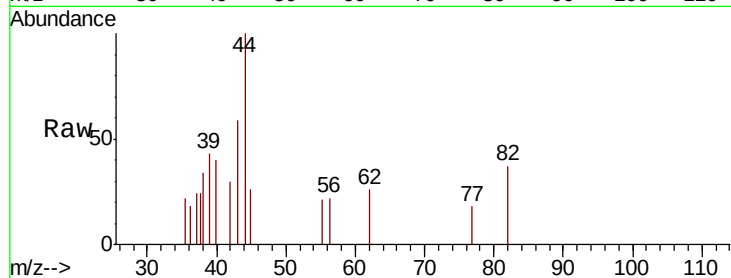
REACTOR-3E-(2)

Tgt Ion: 56 Resp: 24

Ion Ratio Lower Upper

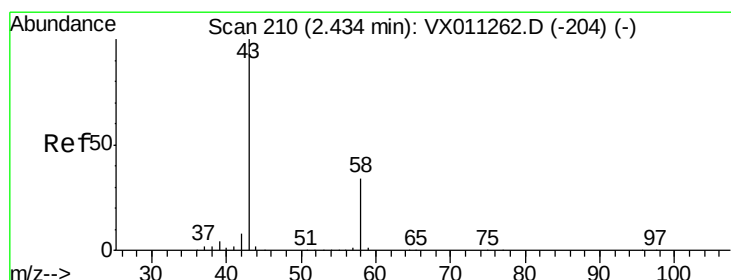
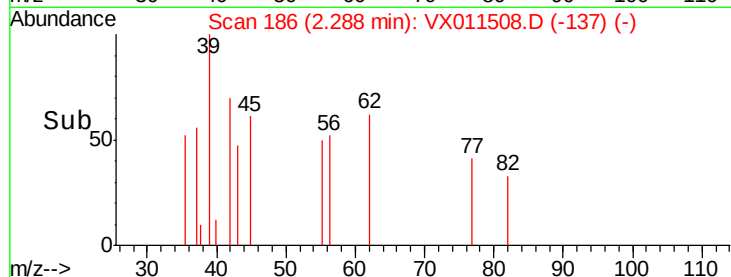
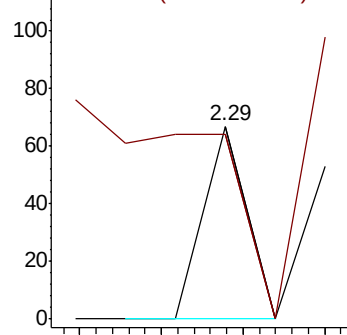
56 100

55 0.0 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.460 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011508.D

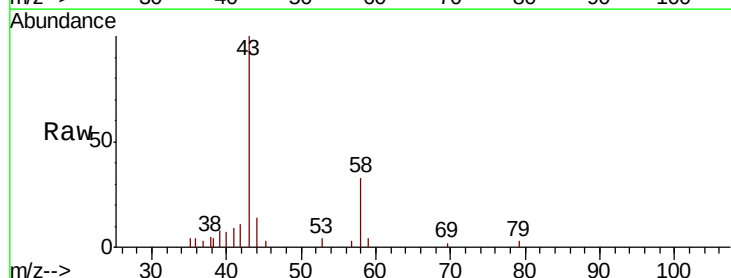
Acq: 13 Aug 2019 01:36

Tgt Ion: 43 Resp: 3928

Ion Ratio Lower Upper

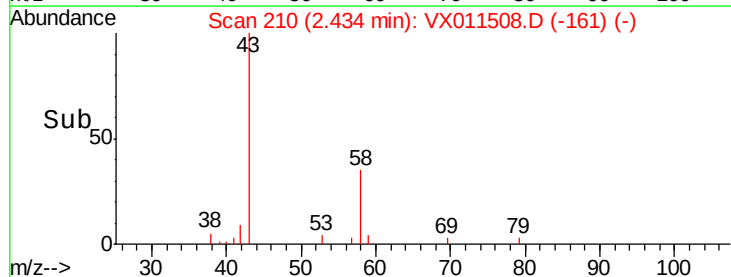
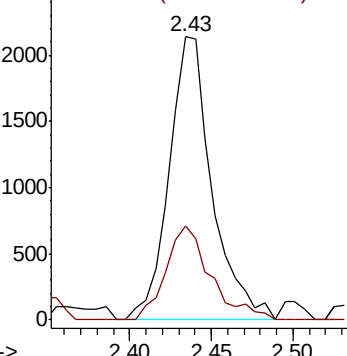
43 100

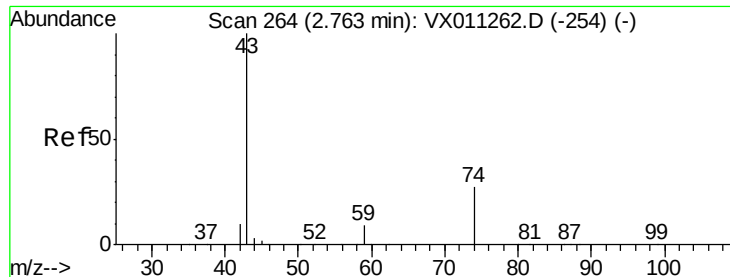
58 33.1 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

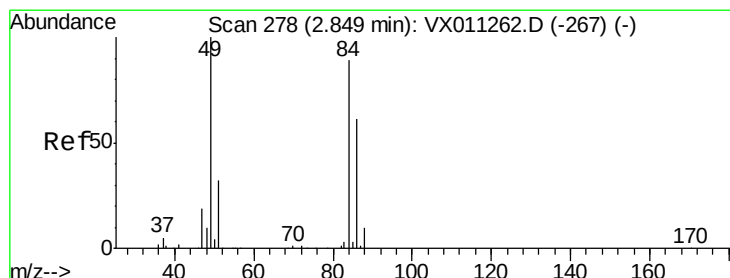
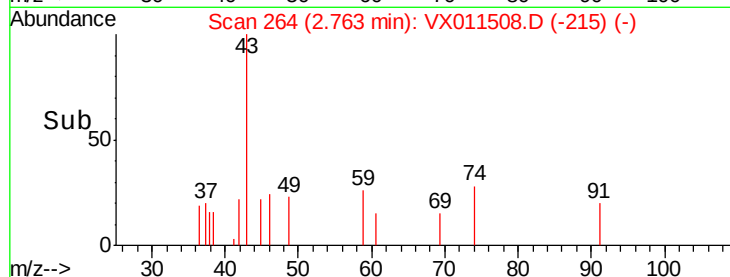
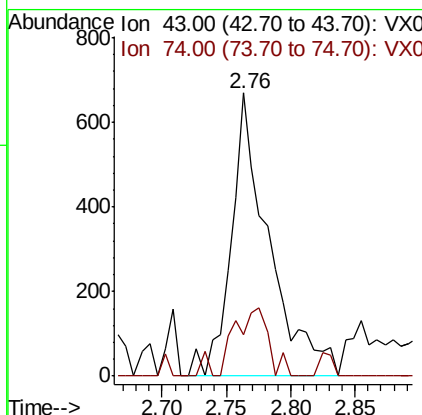
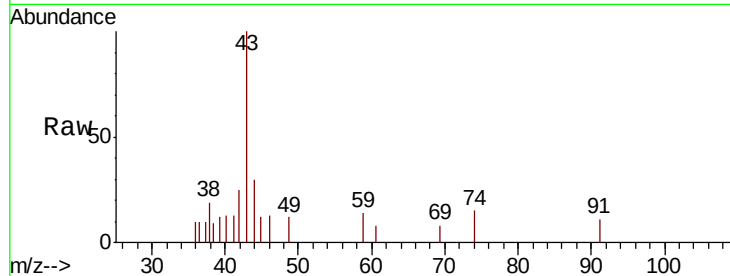




#18
Methyl Acetate
Concen: 0.677 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

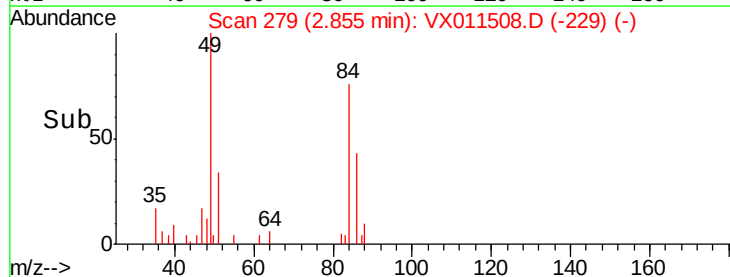
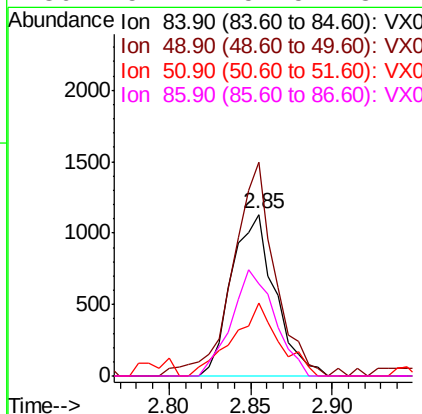
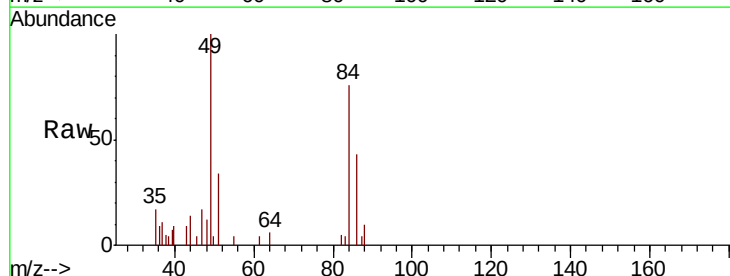
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3E-(2)

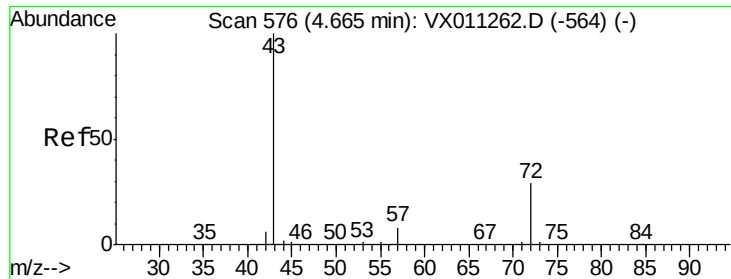
Tgt Ion: 43 Resp: 1363
Ion Ratio Lower Upper
43 100
74 21.5 21.0 31.6



#20
Methylene Chloride
Concen: 1.092 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Tgt Ion: 84 Resp: 2107
Ion Ratio Lower Upper
84 100
49 127.2 89.3 133.9
51 45.0 28.3 42.5#
86 57.2 54.5 81.7

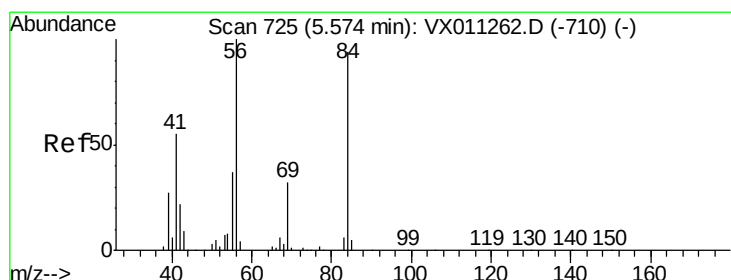
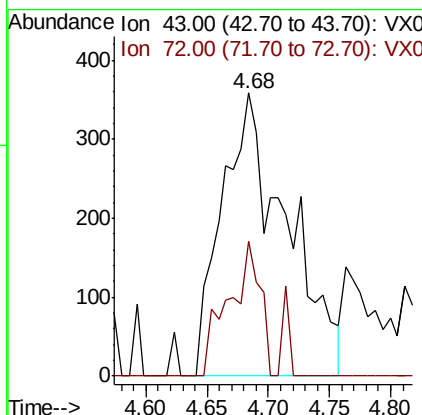
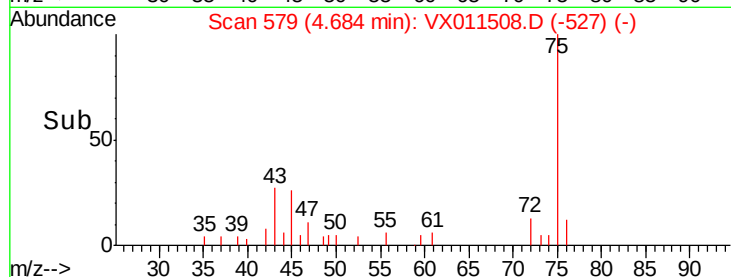
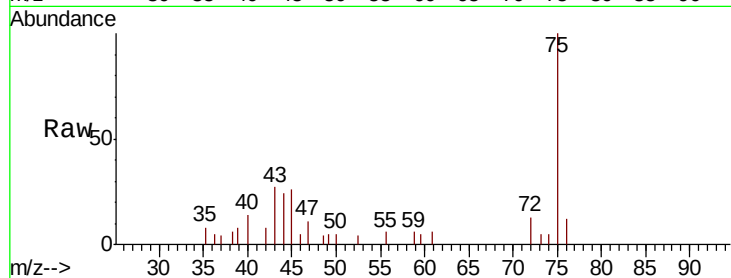




#25
2-Butanone
Concen: 1.050 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

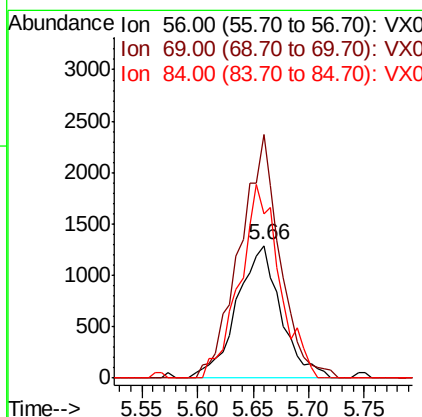
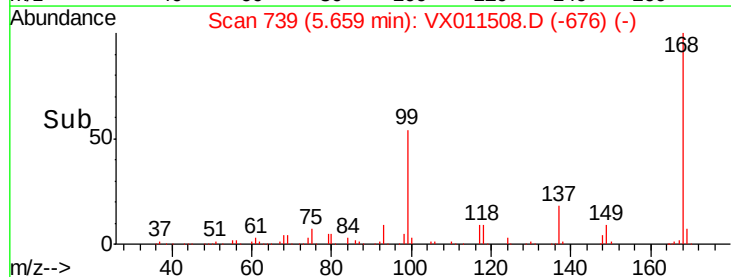
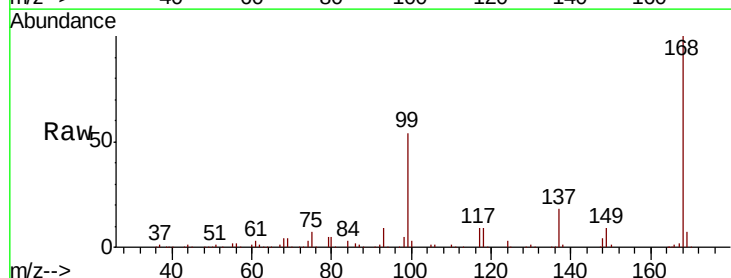
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3E-(2)

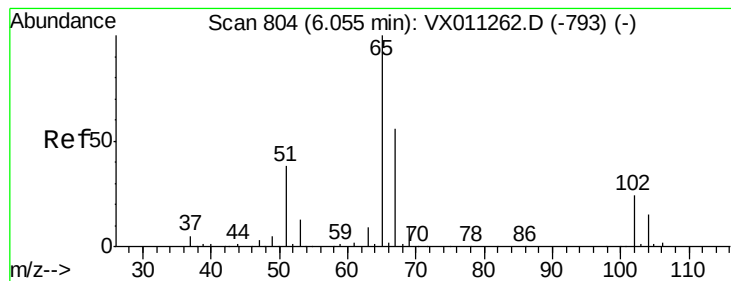
Tgt Ion: 43 Resp: 1316
Ion Ratio Lower Upper
43 100
72 47.5 23.2 34.8#



#31
Cyclohexane
Concen: 1.487 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Tgt Ion: 56 Resp: 3543
Ion Ratio Lower Upper
56 100
69 183.6 25.5 38.3#
84 124.0 75.0 112.4#





#33

1,2-Dichloroethane-d4

Concen: 55.861 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011508.D

Acq: 13 Aug 2019 01:36

Instrument :

MSVOA_X

ClientSampleId :

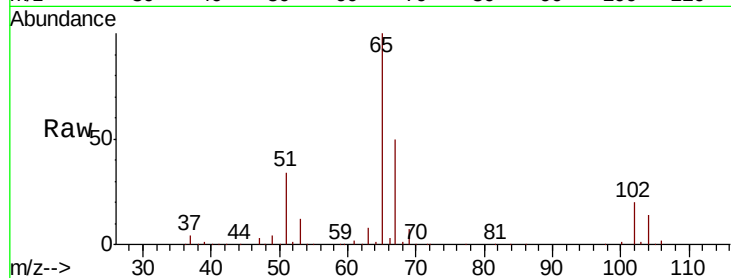
REACTOR-3E-(2)

Tgt Ion: 65 Resp: 103365

Ion Ratio Lower Upper

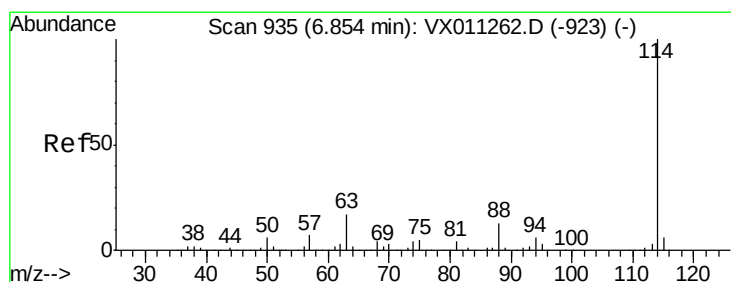
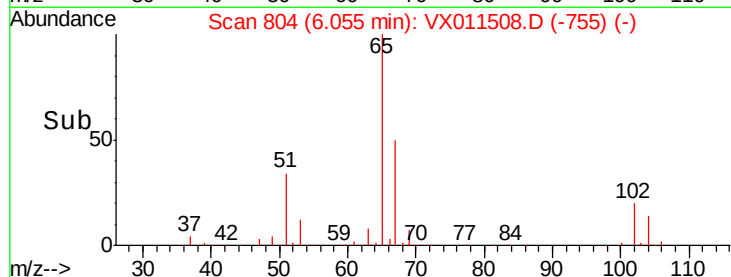
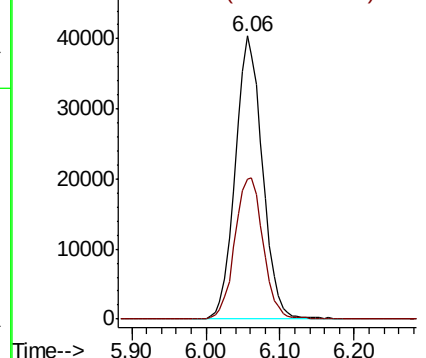
65 100

67 52.2 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011508.D

Acq: 13 Aug 2019 01:36

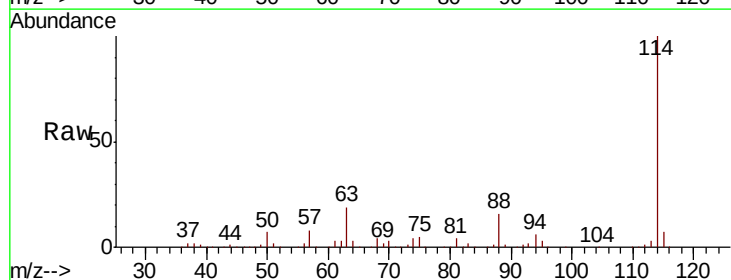
Tgt Ion: 114 Resp: 278319

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.0

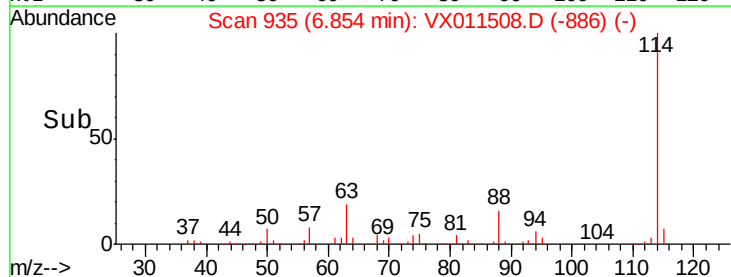
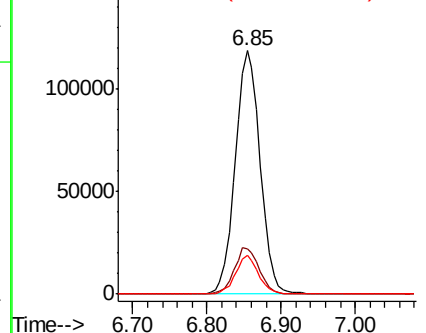
88 16.1 0.0 26.4

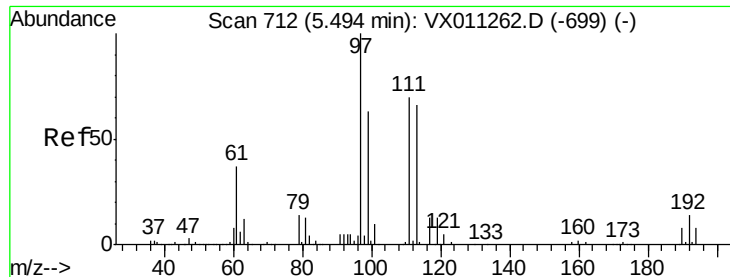


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

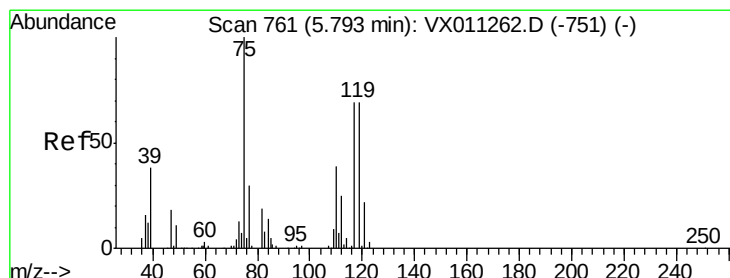
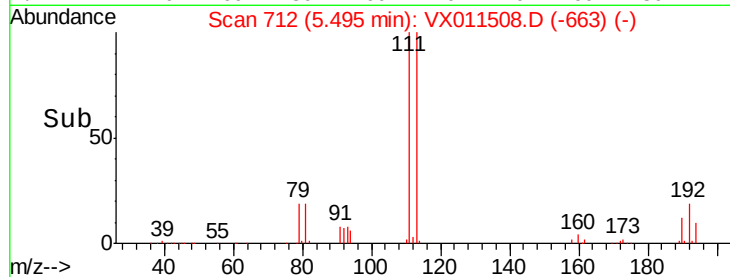
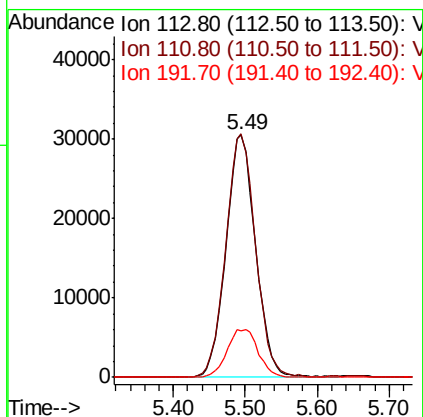
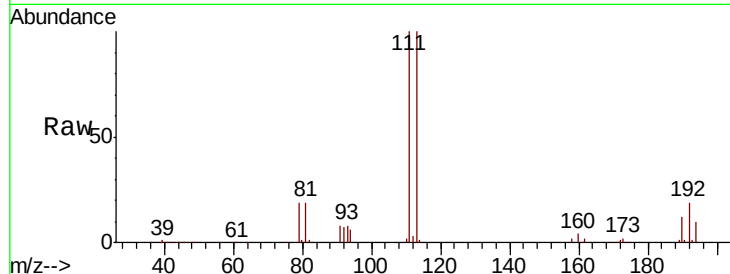




#35
 Dibromofluoromethane
 Concen: 48.025 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

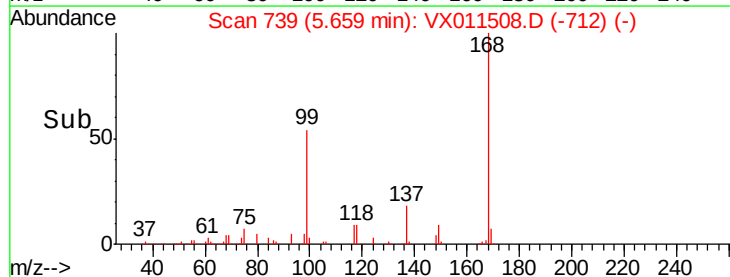
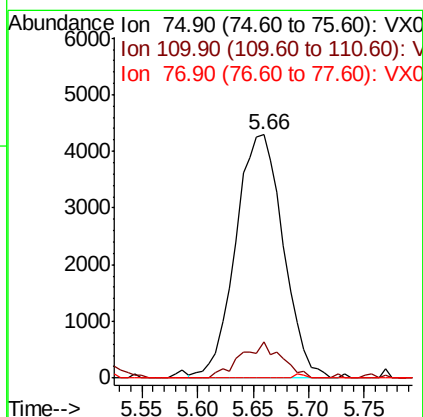
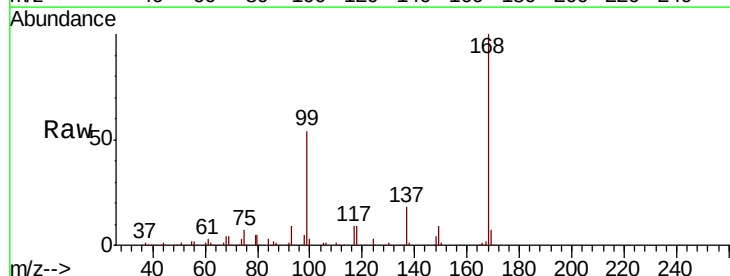
Instrument :
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 ClientSampleId :
 REACTOR-3E-(2)

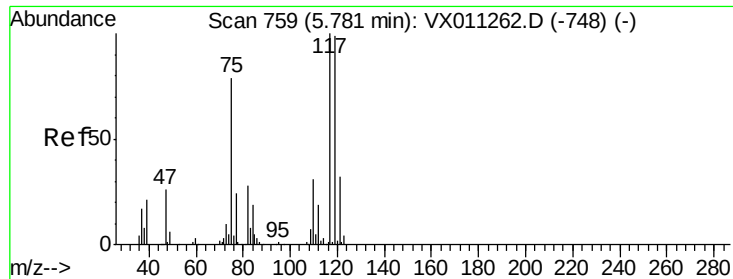
Tgt Ion: 113 Resp: 87265
 Ion Ratio Lower Upper
 113 100
 111 100.7 81.9 122.9
 192 20.8 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.246 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

Tgt Ion: 75 Resp: 12747
 Ion Ratio Lower Upper
 75 100
 110 12.5 20.0 59.9#
 77 0.0 24.8 37.2#

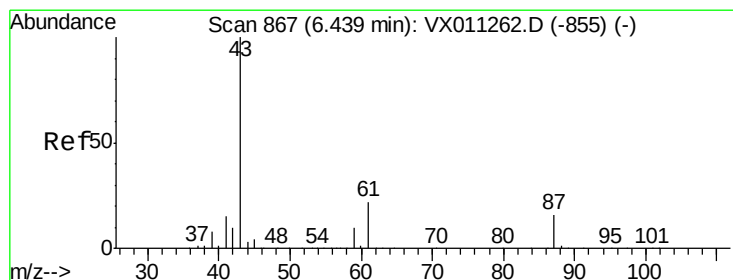
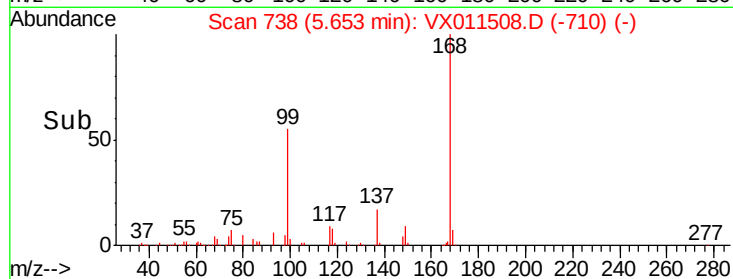
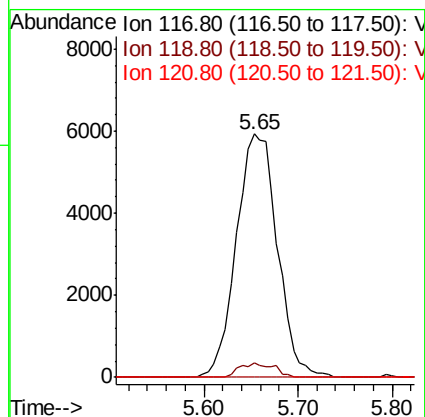
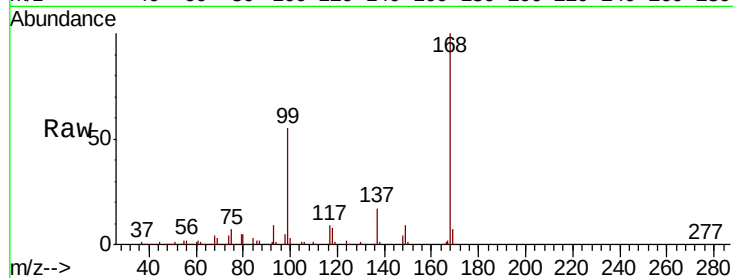




#38
Carbon Tetrachloride
Concen: 7.374 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

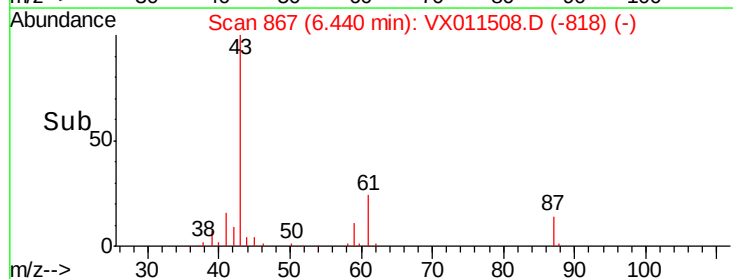
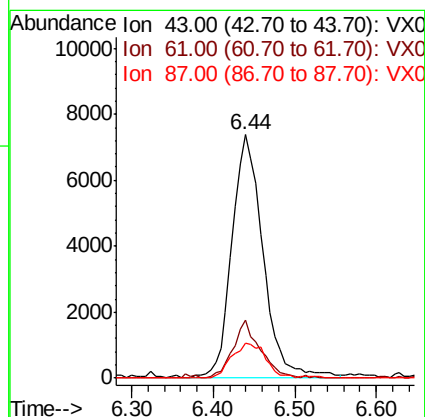
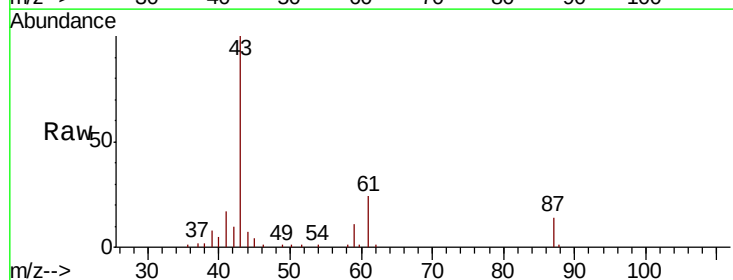
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3E-(2)

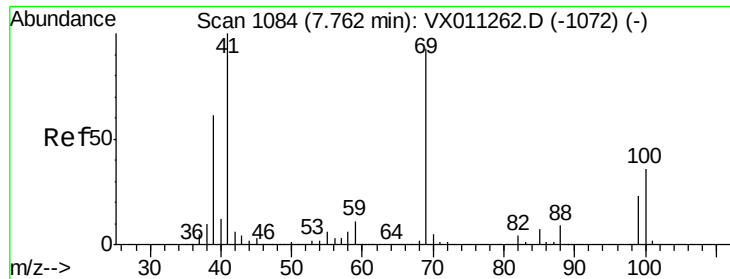
Tgt Ion: 117 Resp: 18027
Ion Ratio Lower Upper
117 100
119 6.1 79.0 118.4#
121 0.0 25.9 38.9#



#43
Isopropyl Acetate
Concen: 5.021 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Tgt Ion: 43 Resp: 19565
Ion Ratio Lower Upper
43 100
61 20.4 16.5 24.7
87 15.4 12.1 18.1

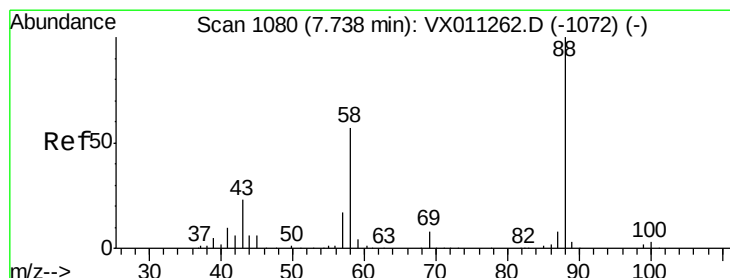
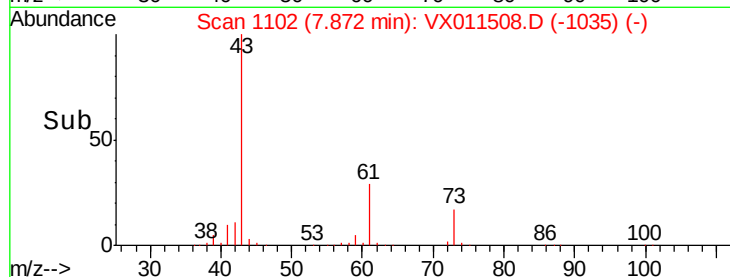
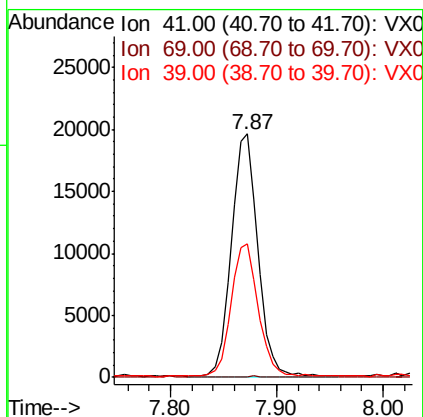
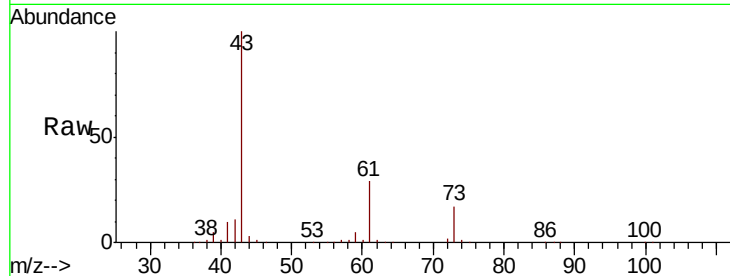




#48
Methyl methacrylate
Concen: 18.658 ug/l
RT: 7.87 min Scan# 1102
Delta R.T. 0.11 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

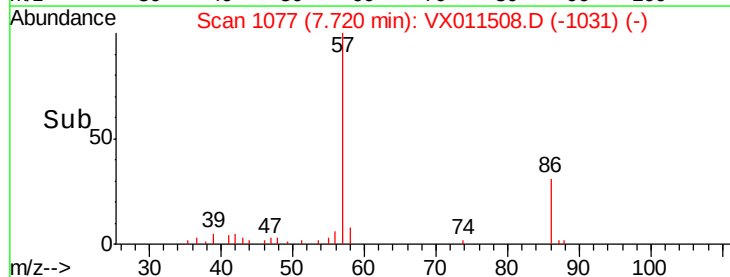
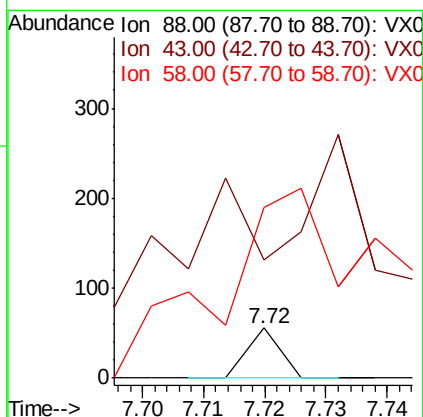
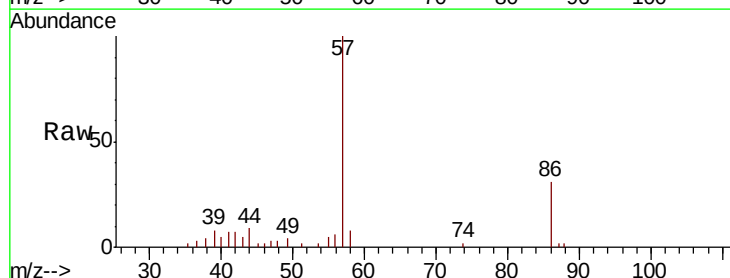
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3E-(2)

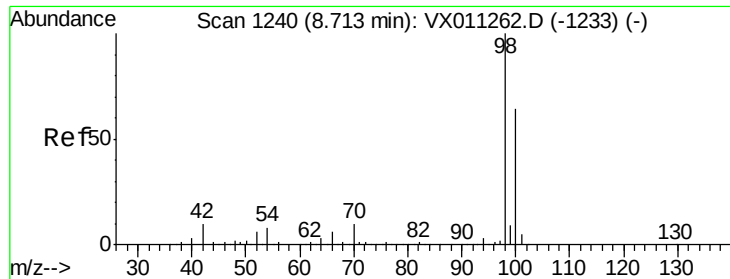
Tgt Ion: 41 Resp: 34217
Ion Ratio Lower Upper
41 100
69 0.3 74.5 111.7#
39 55.8 48.6 72.8



#49
1,4-Dioxane
Concen: 0.376 ug/l
RT: 7.72 min Scan# 1077
Delta R.T. -0.02 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 1985.0 47.8 71.8#

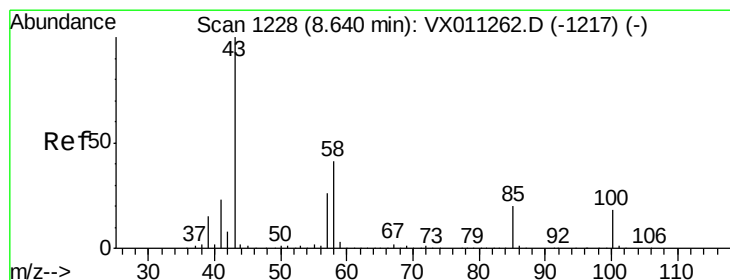
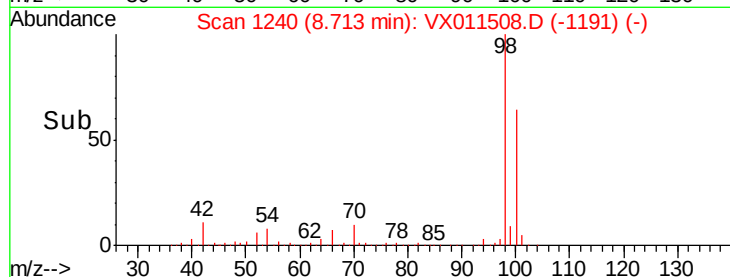
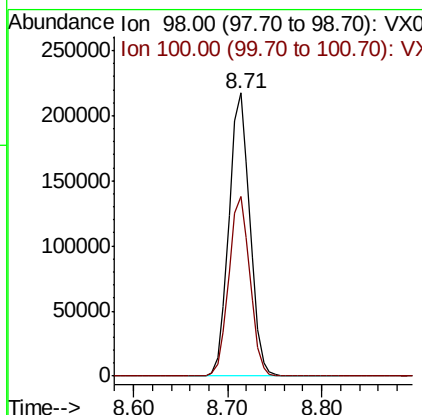
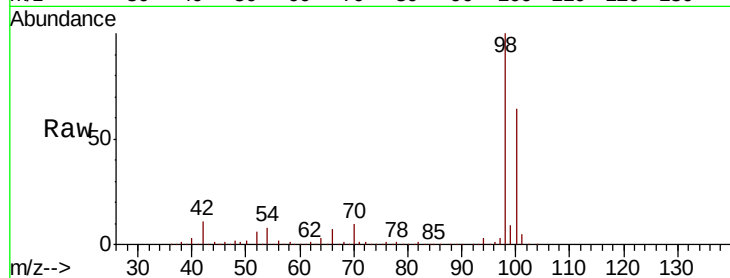




#50
Toluene-d8
Concen: 48.872 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

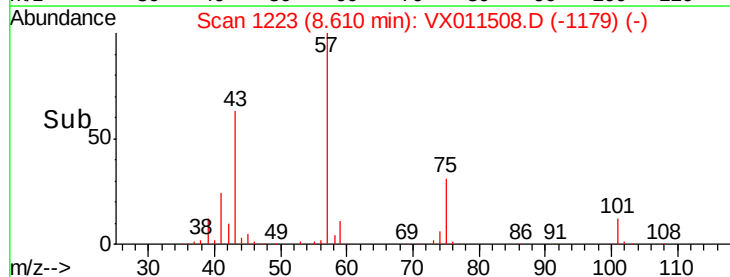
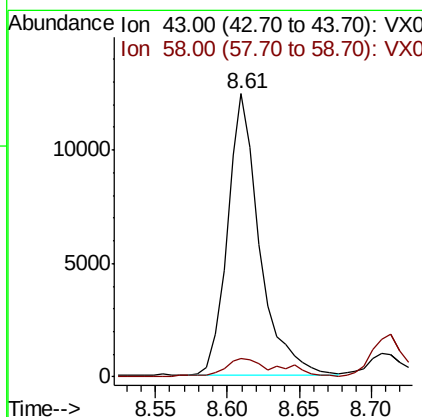
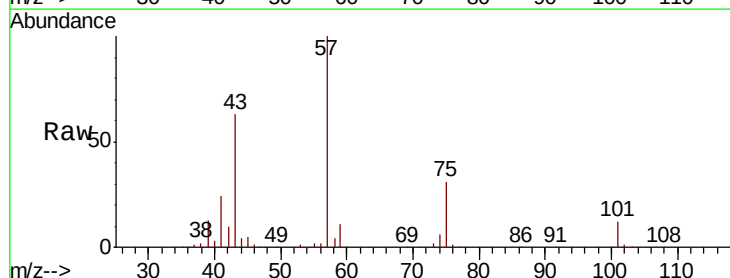
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3E-(2)

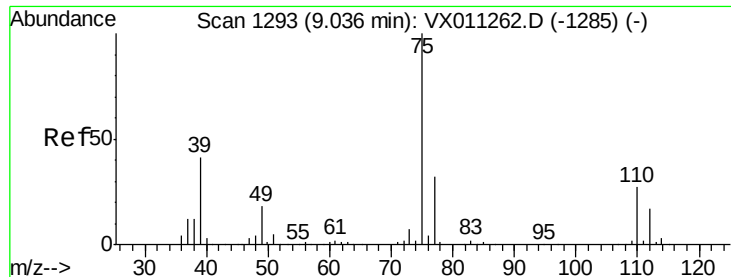
Tgt Ion: 98 Resp: 335212
Ion Ratio Lower Upper
98 100
100 64.2 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 7.669 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Tgt Ion: 43 Resp: 19288
Ion Ratio Lower Upper
43 100
58 7.6 32.3 48.5#

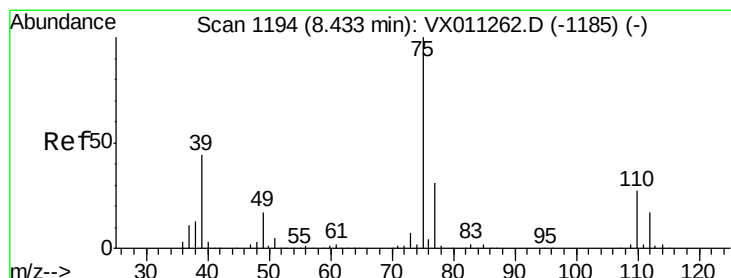
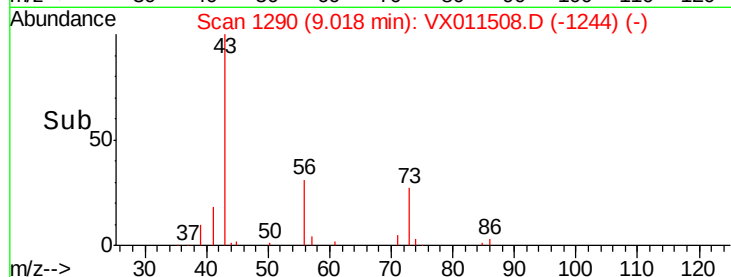
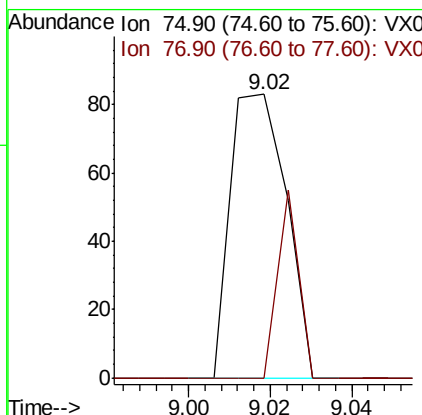
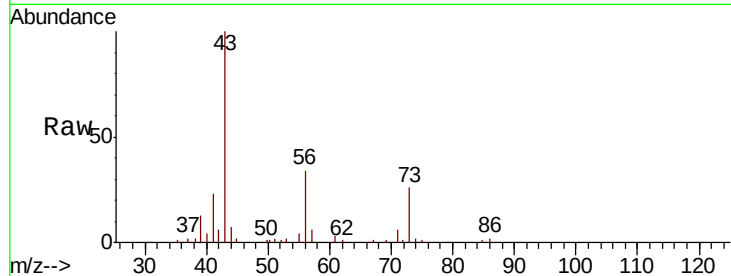




#53
 t-1,3-Dichloropropene
 Concen: 2.866 ug/l
 RT: 9.02 min Scan# 1290
 Delta R.T. -0.02 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

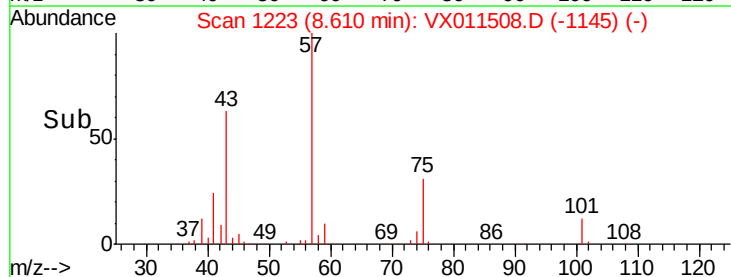
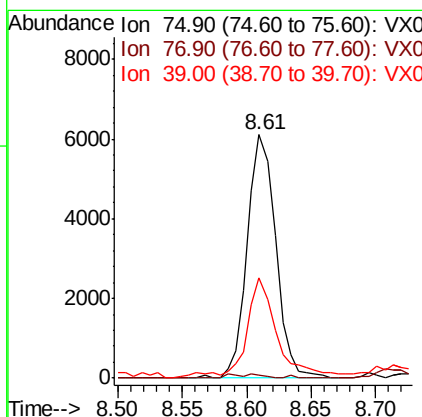
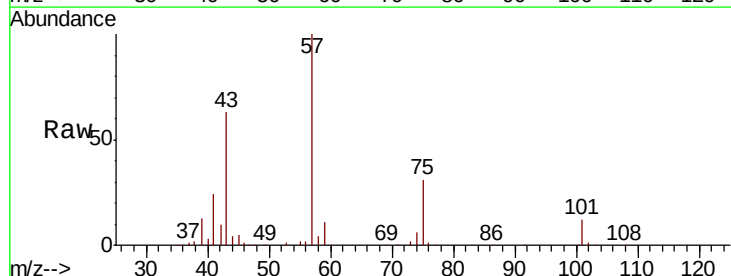
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3E-(2)

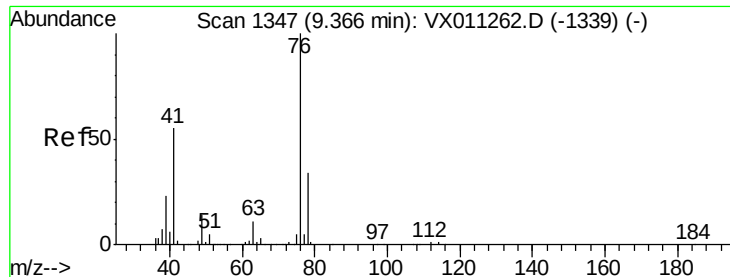
Tgt Ion: 75 Resp: 79
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 3.444 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

Tgt Ion: 75 Resp: 9337
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.0 37.6#
 39 39.9 35.3 52.9

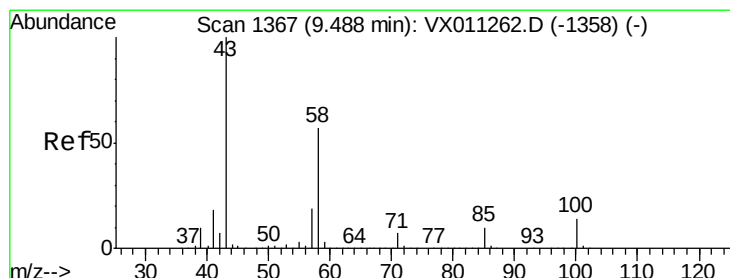
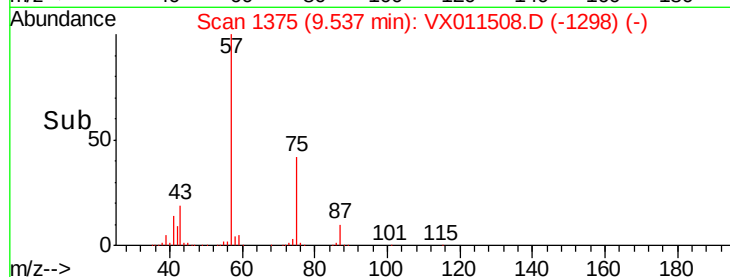
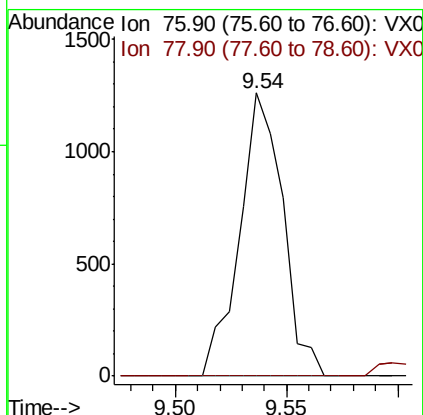
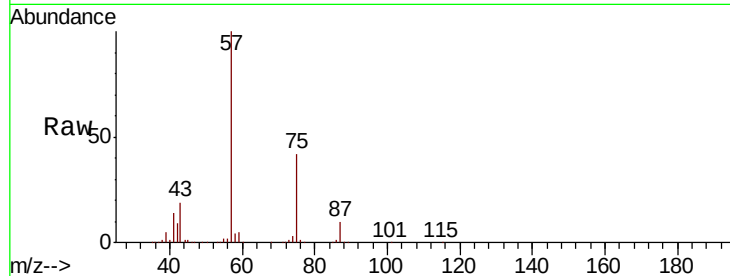




#57
 1,3-Dichloropropane
 Concen: 0.548 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

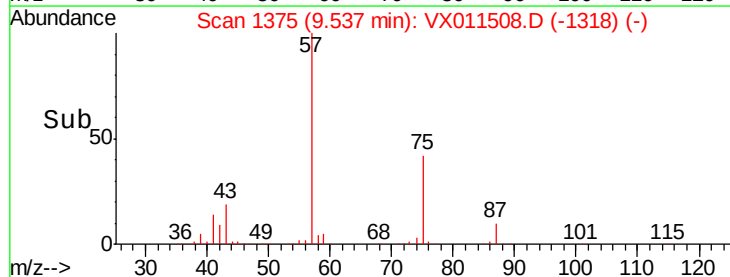
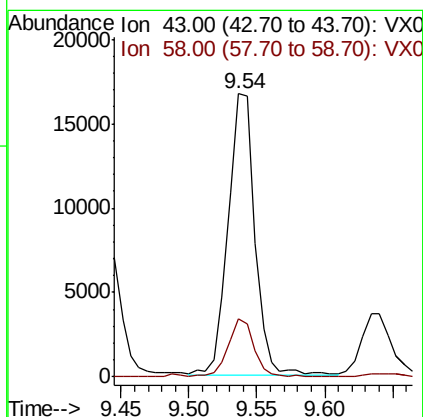
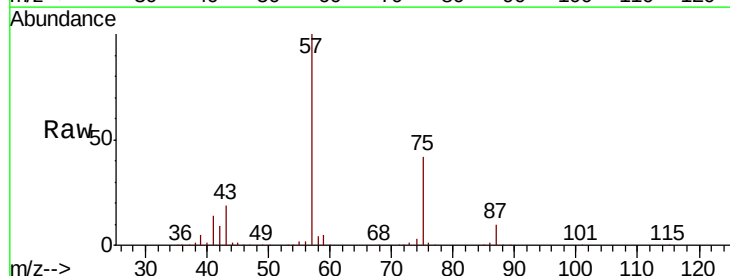
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3E-(2)

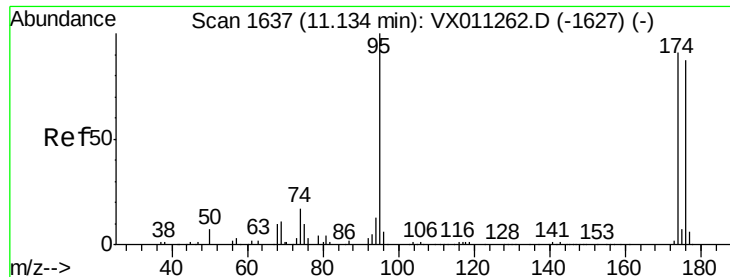
Tgt Ion: 76 Resp: 1708
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.6 40.0#



#59
 2-Hexanone
 Concen: 11.789 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

Tgt Ion: 43 Resp: 22965
 Ion Ratio Lower Upper
 43 100
 58 20.4 28.2 84.6#

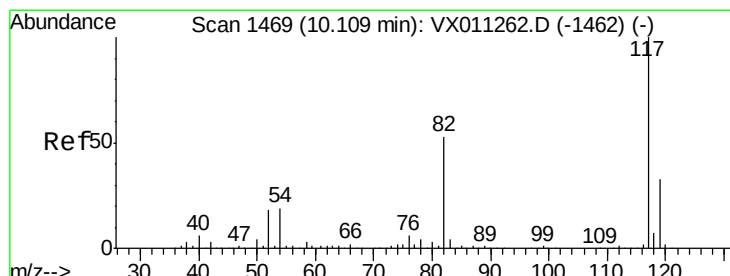
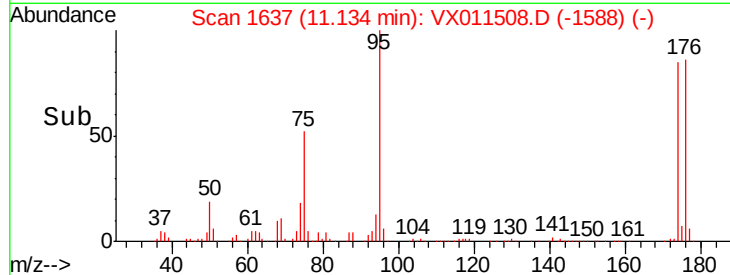
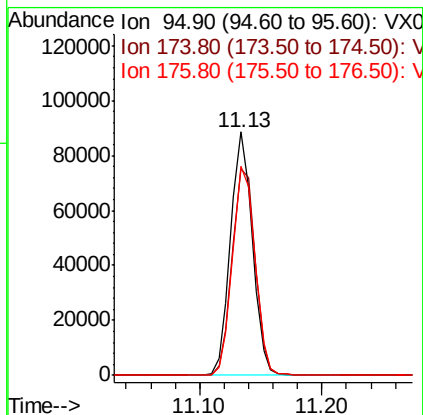
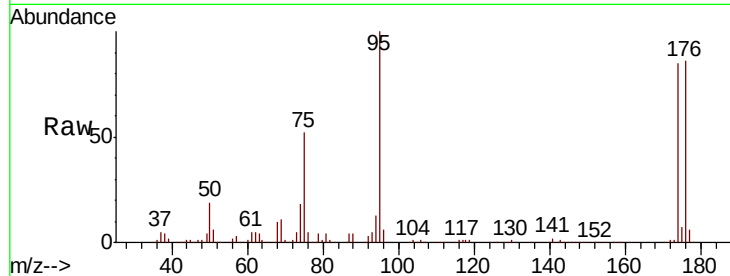




#62
 4-Bromofluorobenzene
 Concen: 44.550 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

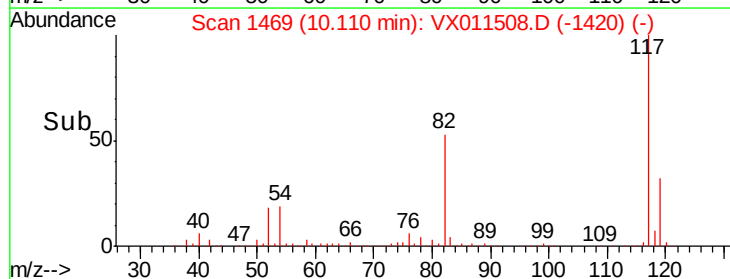
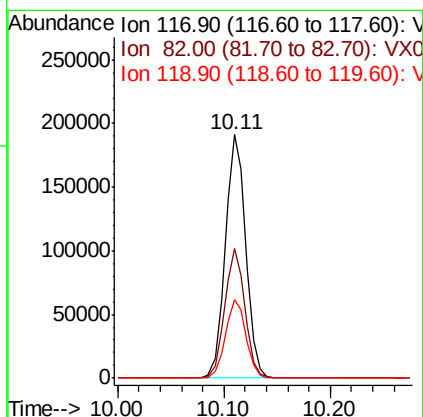
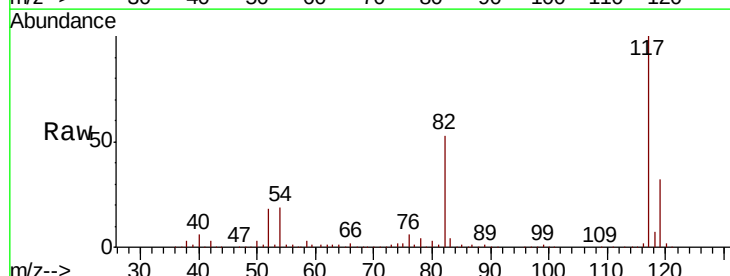
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3E-(2)

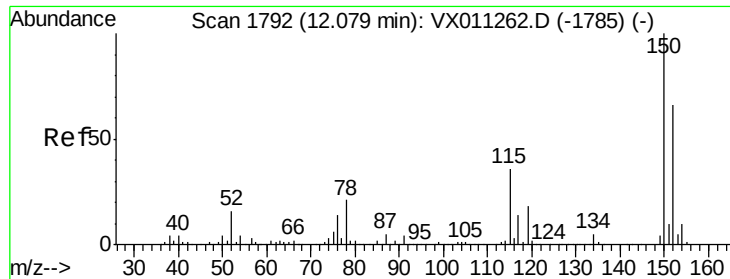
Tgt Ion: 95 Resp: 109095
 Ion Ratio Lower Upper
 95 100
 174 90.0 0.0 191.2
 176 88.5 0.0 184.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VX011508.D
 Acq: 13 Aug 2019 01:36

Tgt Ion: 117 Resp: 256591
 Ion Ratio Lower Upper
 117 100
 82 53.5 42.2 63.2
 119 32.5 26.6 39.8



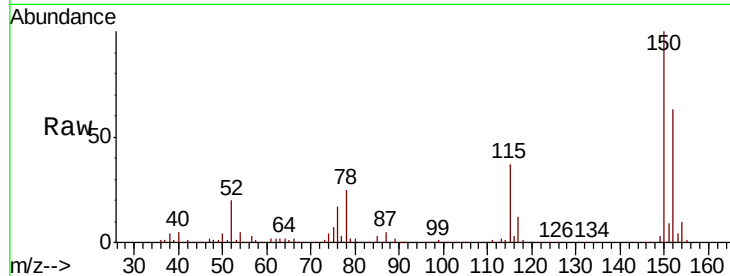


#72

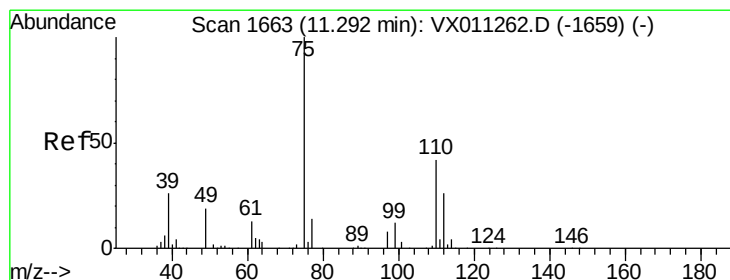
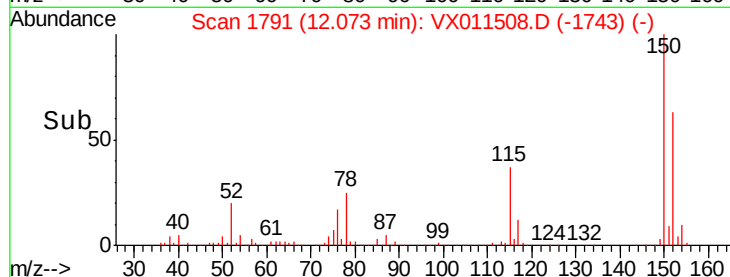
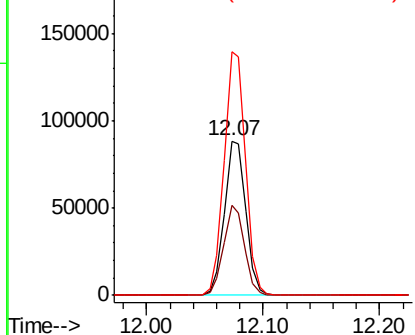
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3E-(2)

Tgt Ion: 152 Resp: 112109
Ion Ratio Lower Upper
152 100
115 56.6 40.0 119.9
150 157.8 0.0 350.4



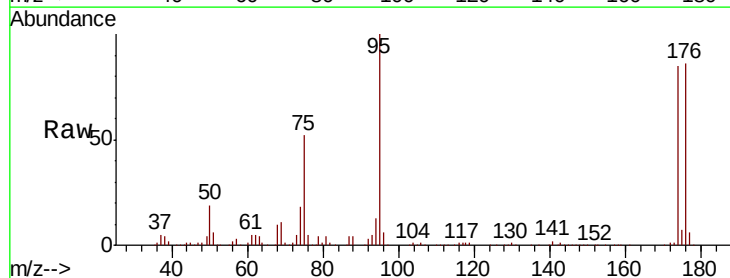
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



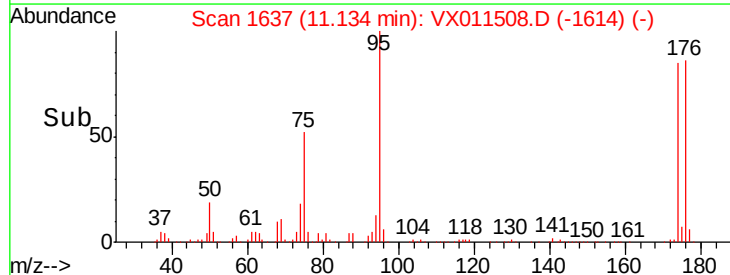
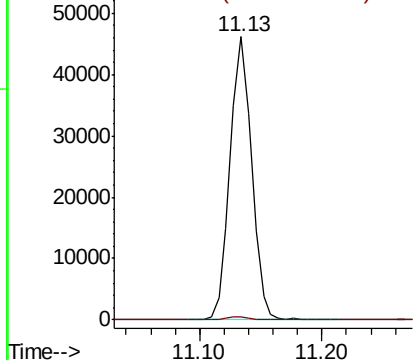
#76

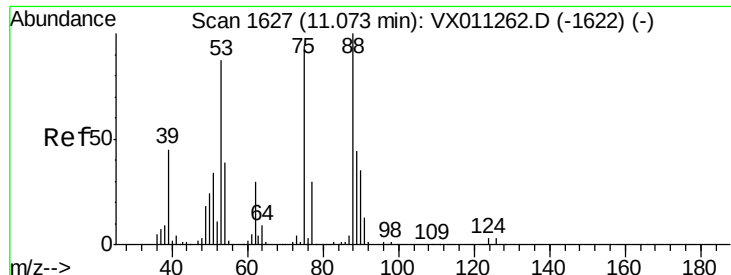
1,2,3-Trichloropropane
Concen: 27.654 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011508.D
Acq: 13 Aug 2019 01:36

Tgt Ion: 75 Resp: 56459
Ion Ratio Lower Upper
75 100
77 1.1 21.1 63.4#



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: 71.684 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011508.D

Acq: 13 Aug 2019 01:36

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-3E-(2)

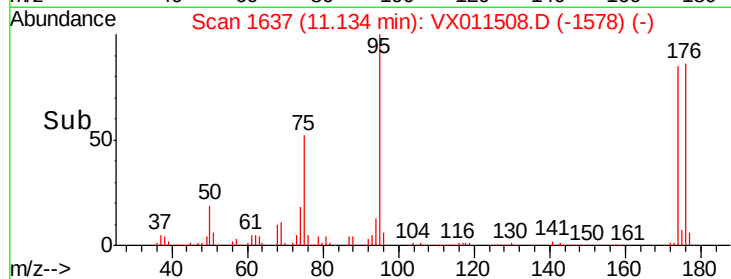
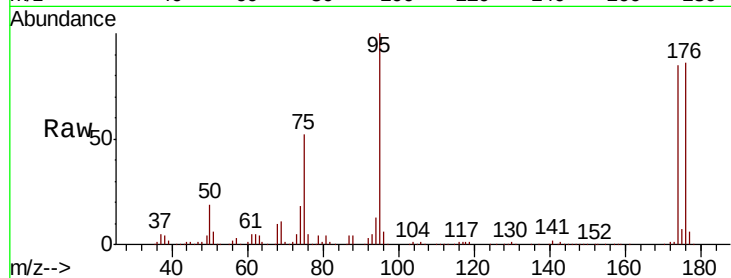
Tgt Ion: 75 Resp: 56459

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 37.9 56.9#



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

