

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063396.D
 Acq On : 17 Sep 2020 4:39
 Operator : JC/MD
 Sample : L4015-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(B-0)

Quant Time: Sep 17 05:13:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	232235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	431365	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	428789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	184538	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	194929	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
35) Dibromofluoromethane	7.55	113	142457	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	
50) Toluene-d8	10.06	98	565370	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.38	95	222470	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	

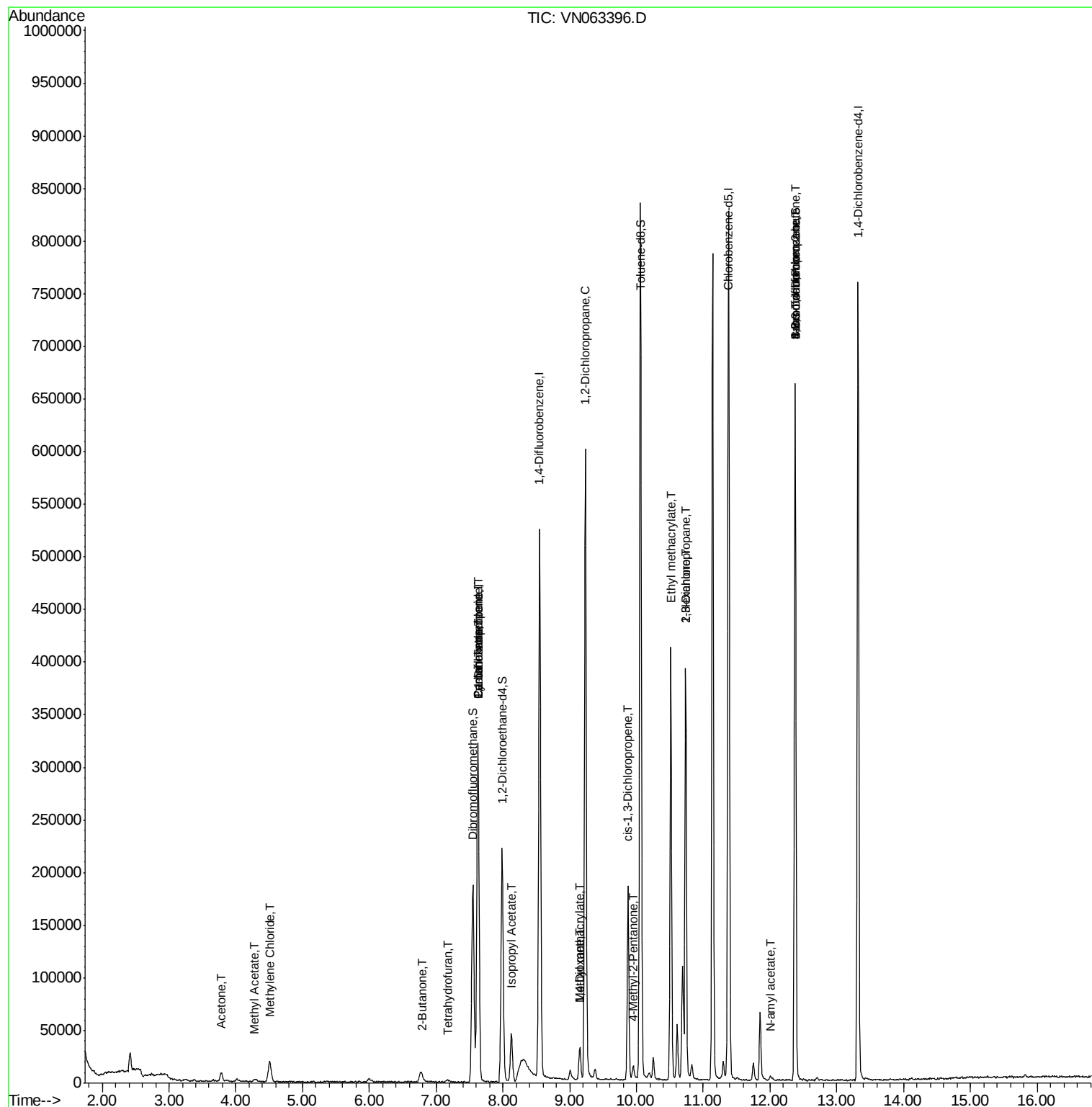
Target Compounds					Qvalue	
16) Acetone	3.78	43	14309	11.262	ug/l	98
18) Methyl Acetate	4.28	43	5912	1.833	ug/l #	72
20) Methylene Chloride	4.51	84	13626	4.233	ug/l	88
25) 2-Butanone	6.80	43	4107	2.102	ug/l #	73
29) Tetrahydrofuran	7.17	42	1320	0.989	ug/l #	77
31) Cyclohexane	7.63	56	6688	1.225	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	22526	4.902	ug/l #	50
38) Carbon Tetrachloride	7.62	117	25703	5.479	ug/l #	17
43) Isopropyl Acetate	8.13	43	57003	7.068	ug/l	98
45) 1,2-Dichloropropane	9.23	63	799	0.224	ug/l #	43
48) Methyl methacrylate	9.14	41	5131	1.295	ug/l #	29
49) 1,4-Dioxane	9.15	88	88	1.548	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9473	2.098	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	31370	5.460	ug/l #	64
56) Ethyl methacrylate	10.51	69	1036	0.212	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3823	0.677	ug/l #	42
59) 2-Hexanone	10.74	43	62282	19.040	ug/l #	53
71) Bromoform	12.37	173	1242	0.500	ug/l #	1
74) N-amyl acetate	12.01	43	2528	0.361	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	126696	27.738	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	126696	76.047	ug/l #	7

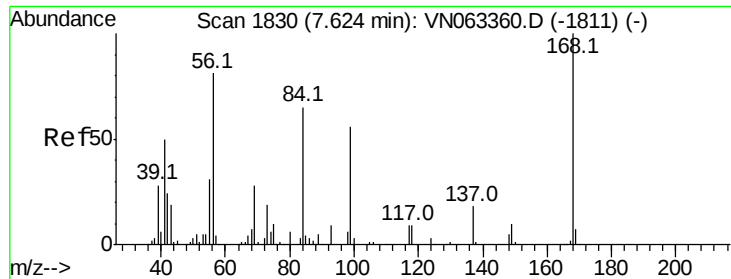
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

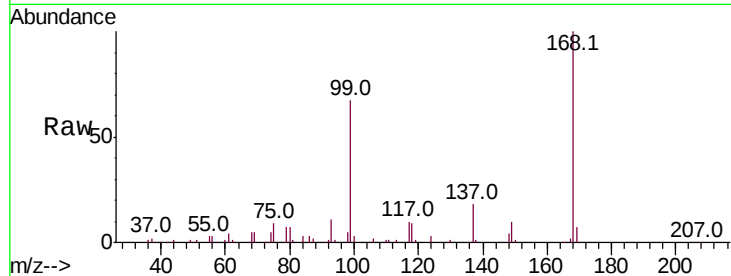
REACTOR-6E-(B-0)

Tot Ion:168 Resp: 232235

Ion Ratio Lower Upper

168 100

99 67.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063396.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN063396.D (-1737) (-)

7.63

100000

80000

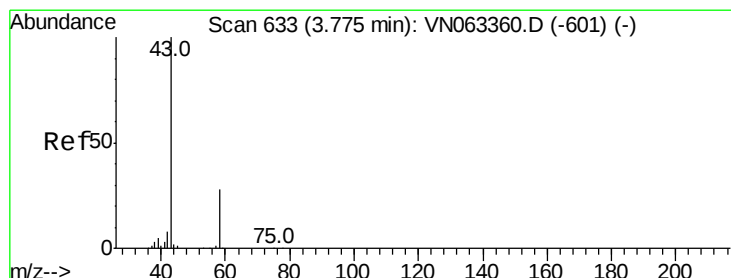
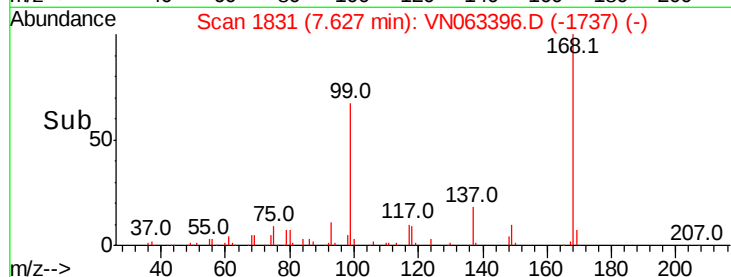
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 11.262 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063396.D

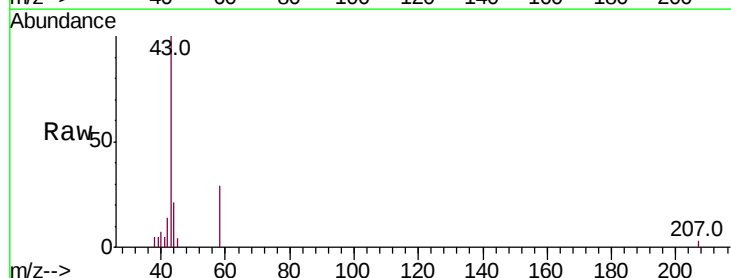
Acq: 17 Sep 2020 4:39

Tgt Ion: 43 Resp: 14309

Ion Ratio Lower Upper

43 100

58 29.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063396.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN063396.D (-540) (-)

3.78

6000

5000

4000

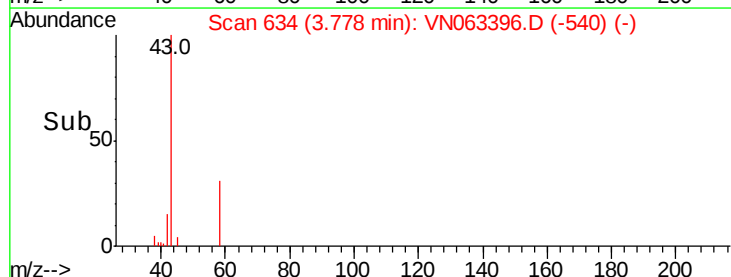
3000

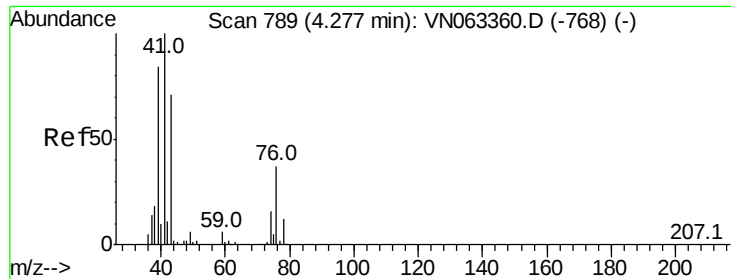
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

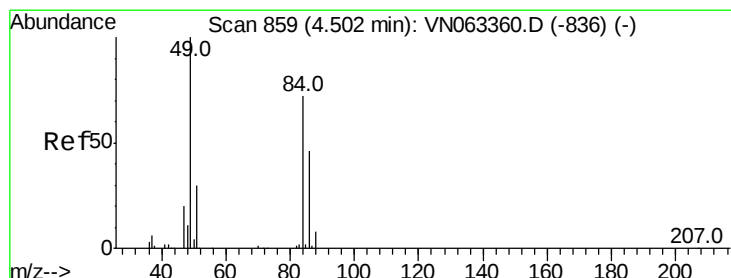
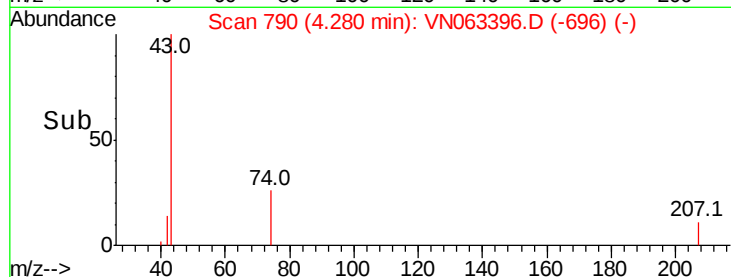
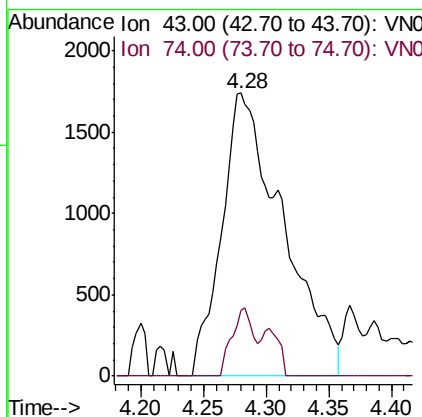
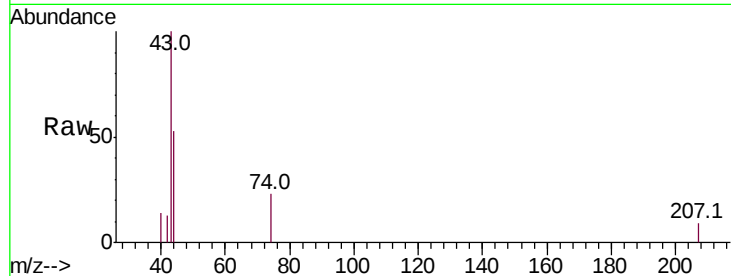




#18
Methyl Acetate
Concen: 1.833 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063396.D
Acq: 17 Sep 2020 4:39

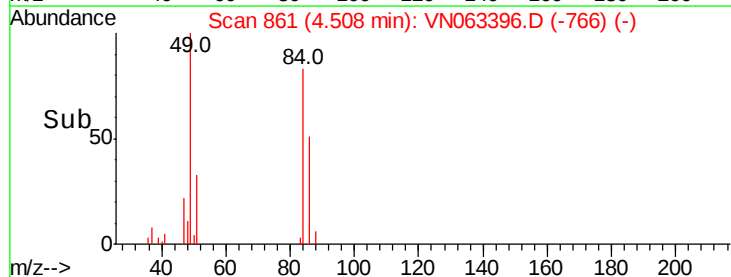
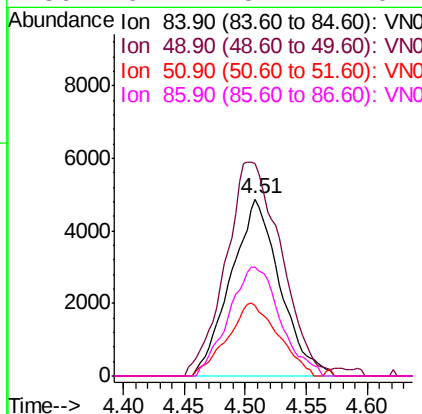
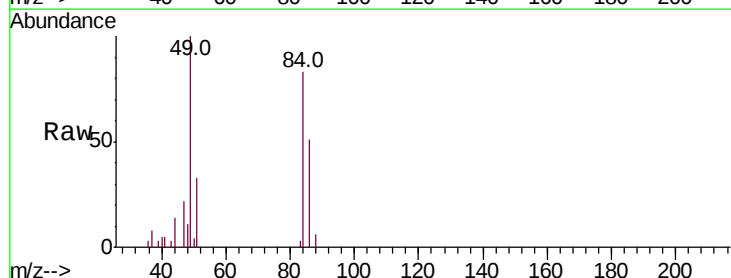
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-0)

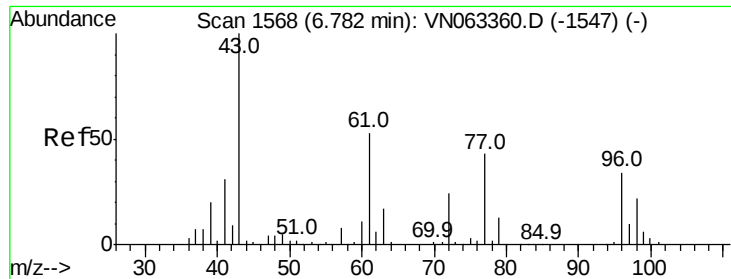
Tot Ion: 43 Resp: 5912
Ion Ratio Lower Upper
43 100
74 8.3 17.4 26.2#



#20
Methylene Chloride
Concen: 4.233 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063396.D
Acq: 17 Sep 2020 4:39

Tgt Ion: 84 Resp: 13626
Ion Ratio Lower Upper
84 100
49 115.5 110.7 166.1
51 39.6 32.9 49.3
86 61.2 51.1 76.7





#25

2-Butanone

Concen: 2.102 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

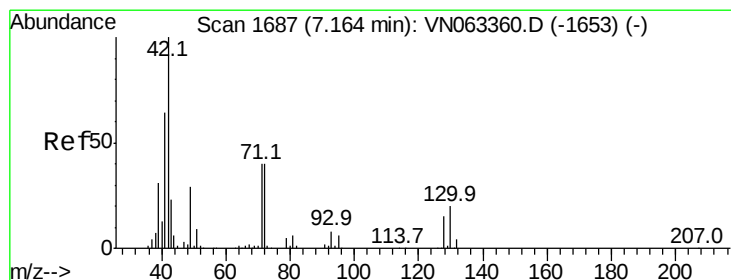
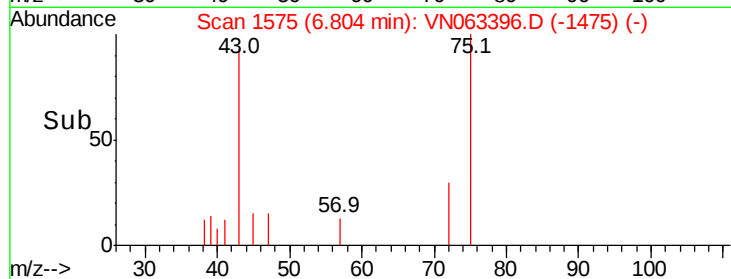
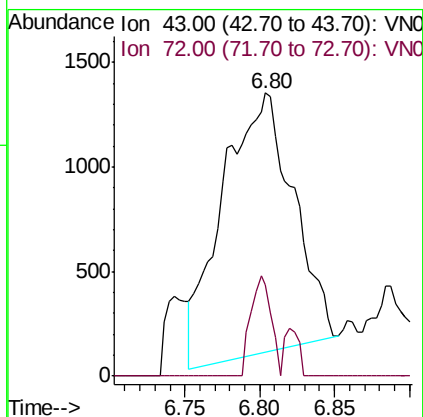
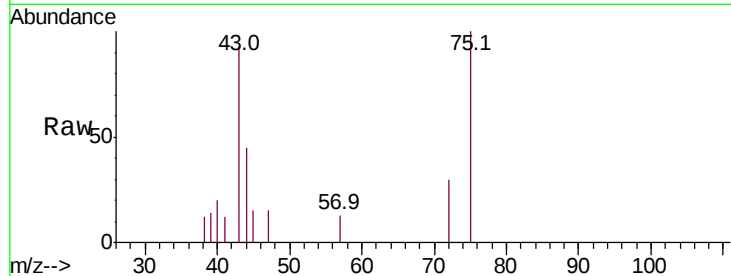
REACTOR-6E-(B-0)

Tot Ion: 43 Resp: 4107

Ion Ratio Lower Upper

43 100

72 37.6 19.2 28.8#



#29

Tetrahydrofuran

Concen: 0.989 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

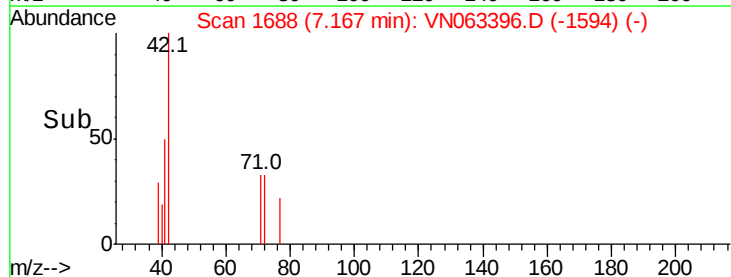
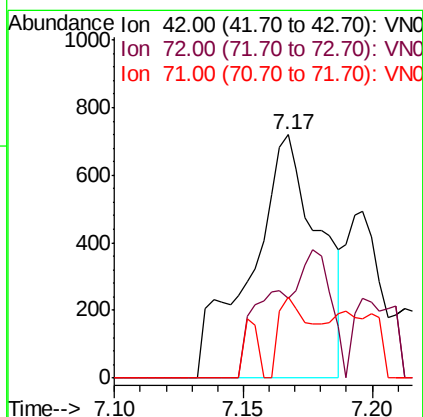
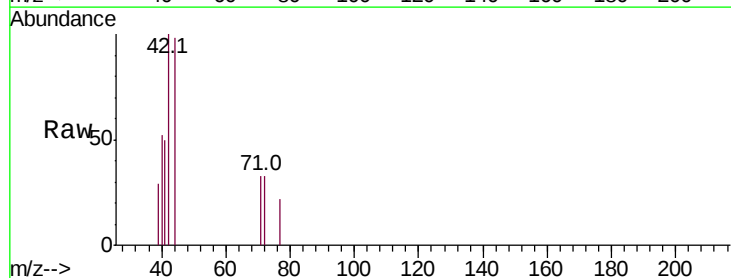
Tgt Ion: 42 Resp: 1320

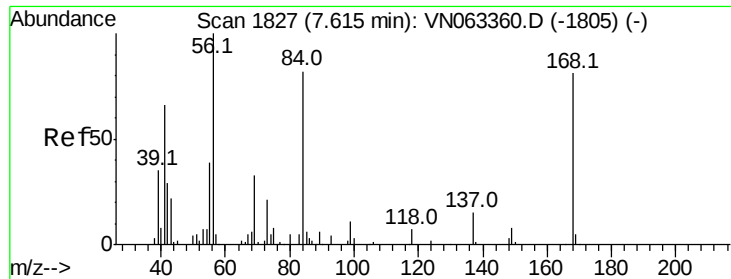
Ion Ratio Lower Upper

42 100

72 45.5 32.1 48.1

71 16.4 31.2 46.8#

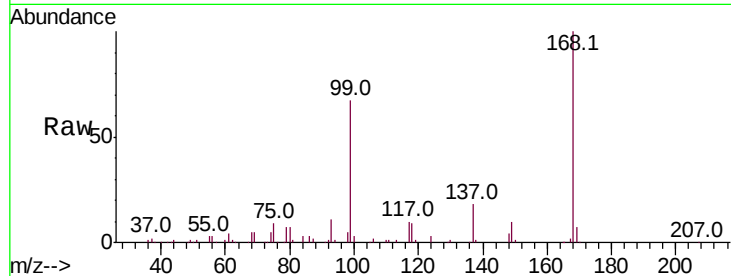




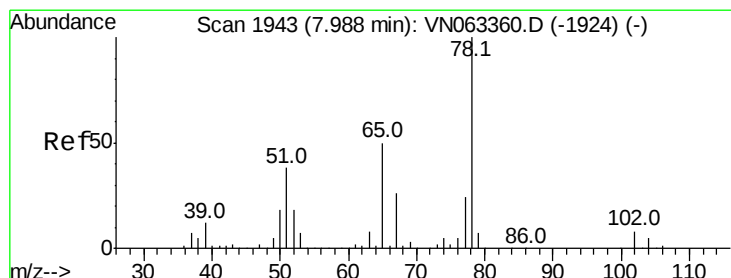
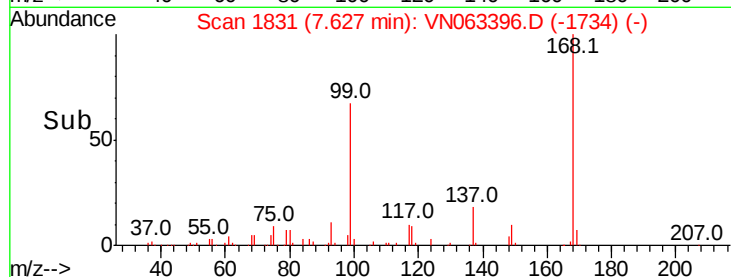
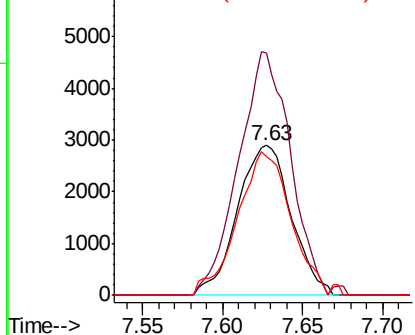
#31
Cyclohexane
Concen: 1.225 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063396.D
Acq: 17 Sep 2020 4:39

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-0)

Tot Ion: 56 Resp: 6688
Ion Ratio Lower Upper
56 100
69 161.6 26.1 39.1#
84 92.7 65.4 98.2

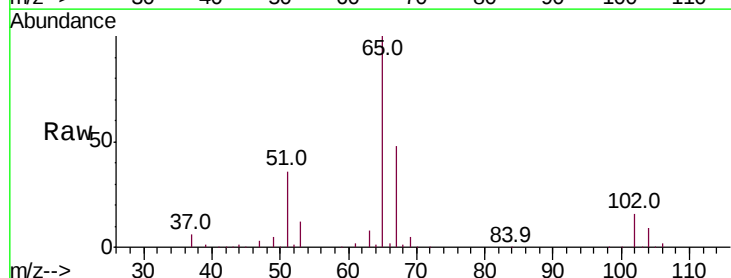


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

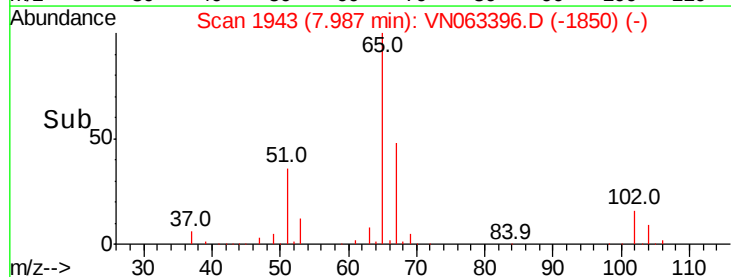
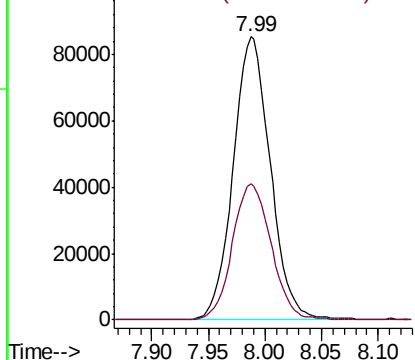


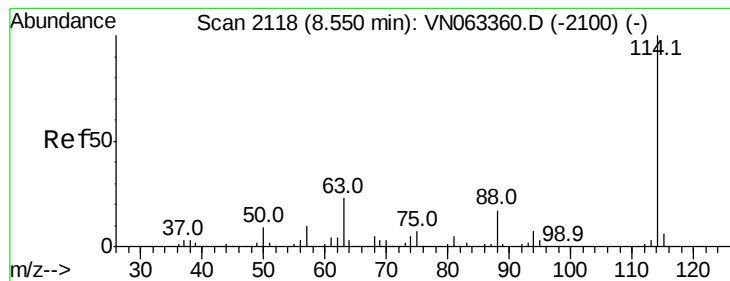
#33
1,2-Dichloroethane-d4
Concen: 49.309 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063396.D
Acq: 17 Sep 2020 4:39

Tgt Ion: 65 Resp: 194929
Ion Ratio Lower Upper
65 100
67 50.3 0.0 104.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-0)

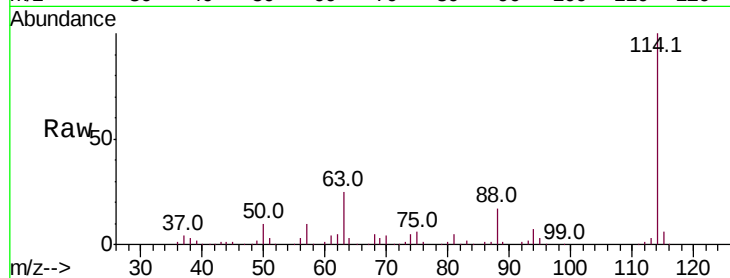
Tot Ion:114 Resp: 431365

Ion Ratio Lower Upper

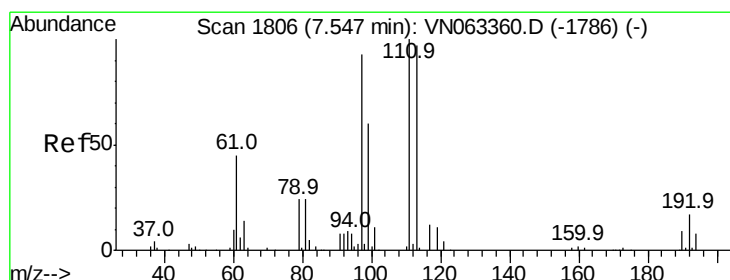
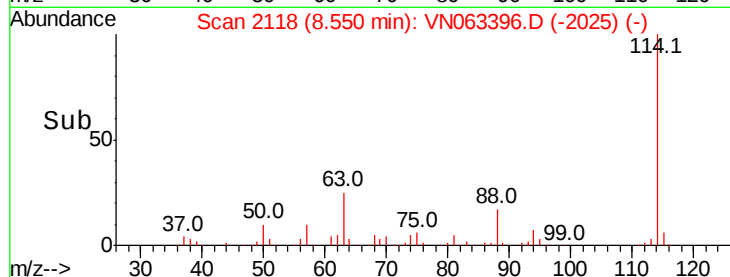
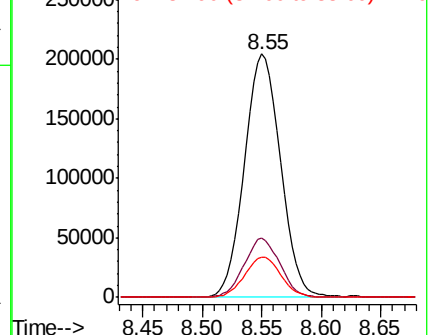
114 100

63 24.6 0.0 46.4

88 16.7 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.704 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

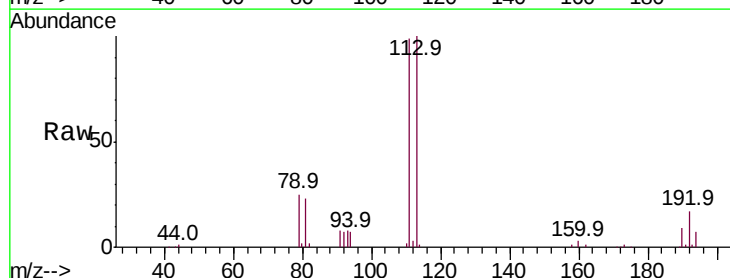
Tgt Ion:113 Resp: 142457

Ion Ratio Lower Upper

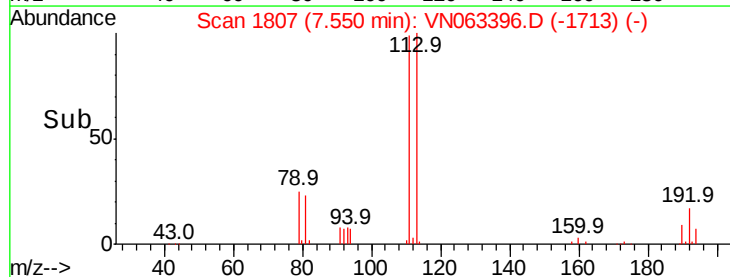
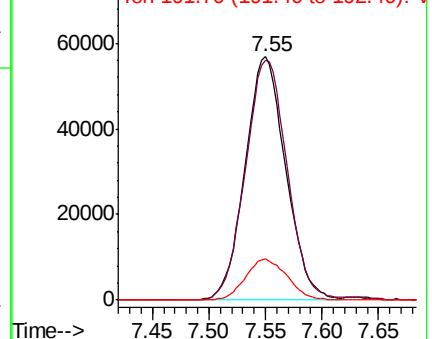
113 100

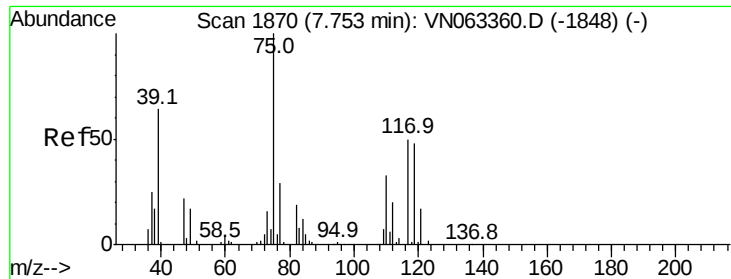
111 102.2 82.9 124.3

192 17.2 13.9 20.9



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: 4.902 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063396.D

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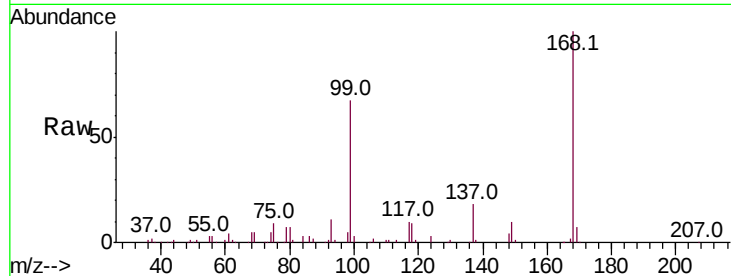
Tot Ion: 75 Resp: 22526

Ion Ratio Lower Upper

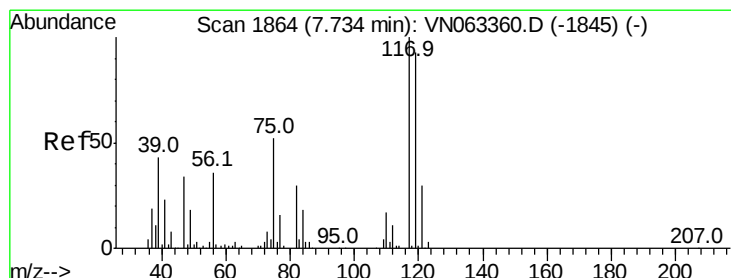
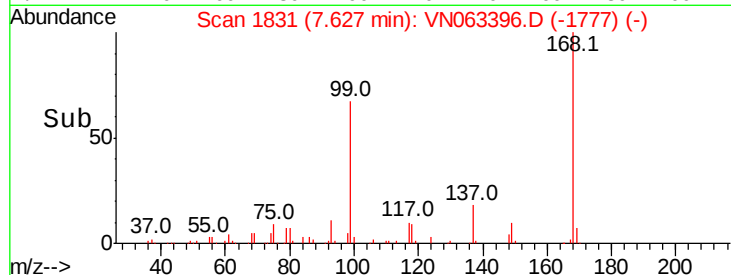
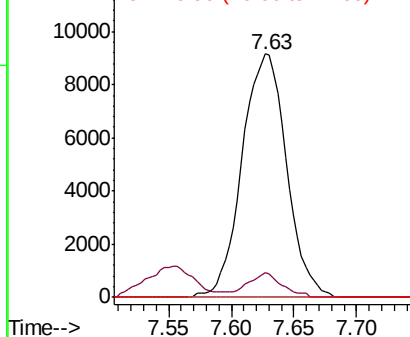
75 100

110 7.7 16.5 49.5#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.479 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

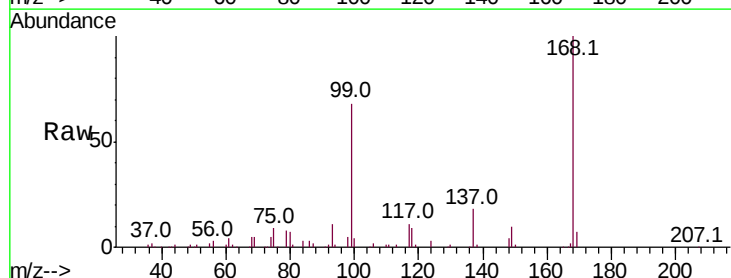
Tgt Ion: 117 Resp: 25703

Ion Ratio Lower Upper

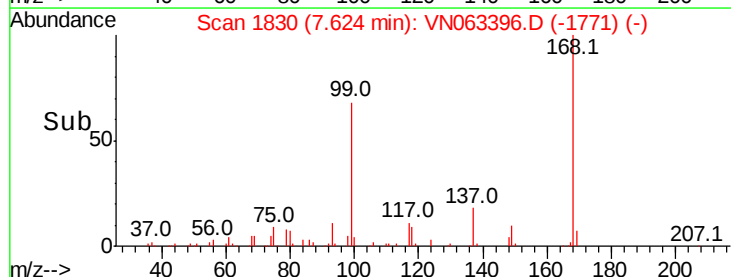
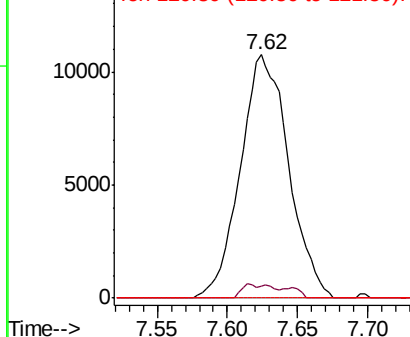
117 100

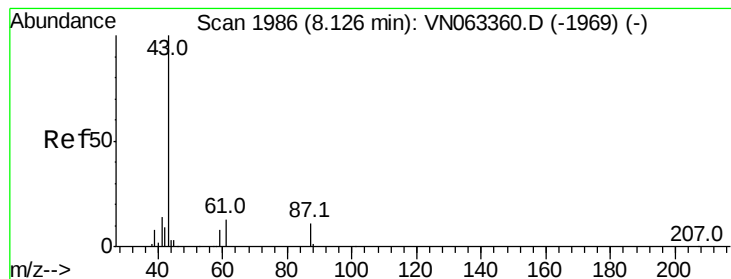
119 4.9 74.5 111.7#

121 0.0 24.1 36.1#



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: 7.068 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063396.D

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REACTOR-6E-(B-0)

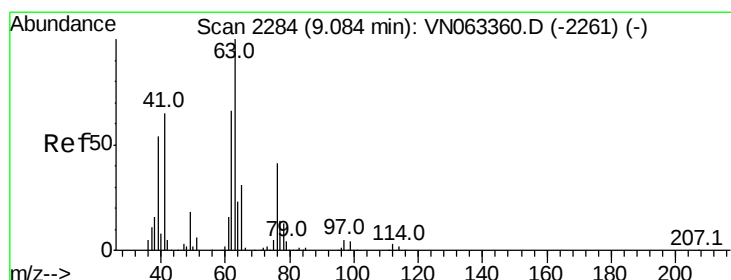
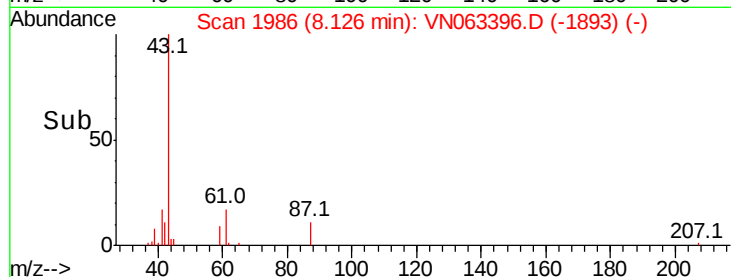
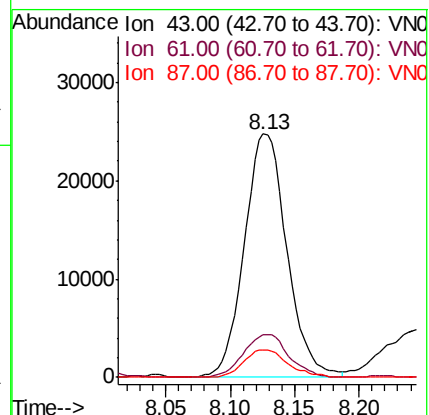
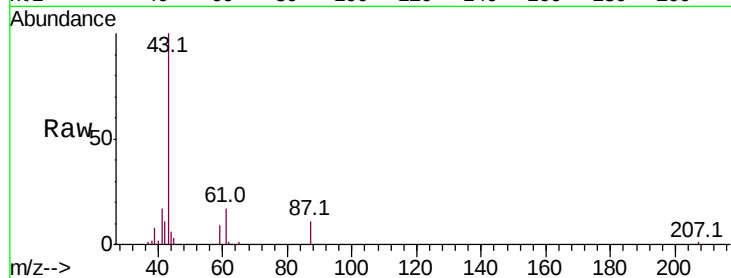
Tot Ion: 43 Resp: 57003

Ion Ratio Lower Upper

43 100

61 18.6 14.2 21.2

87 11.7 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.224 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063396.D

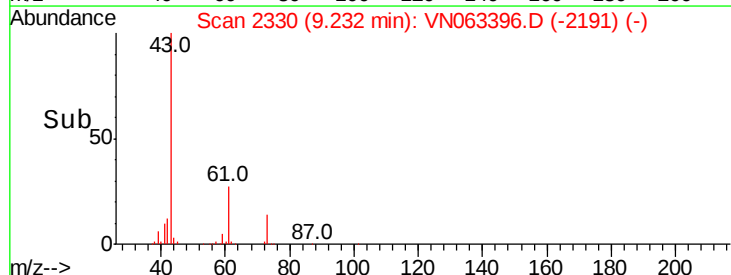
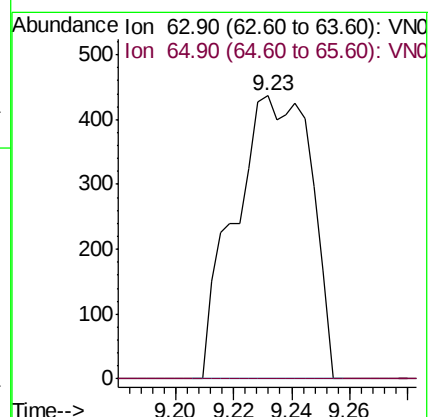
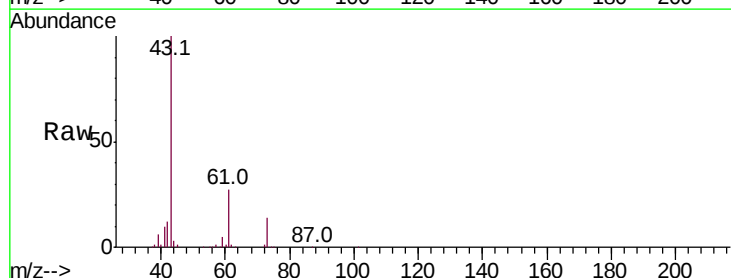
Acq: 17 Sep 2020 4:39

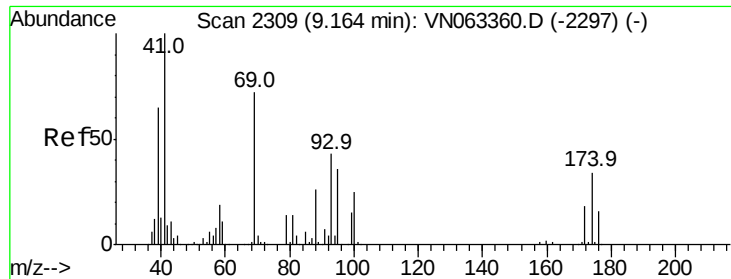
Tgt Ion: 63 Resp: 799

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

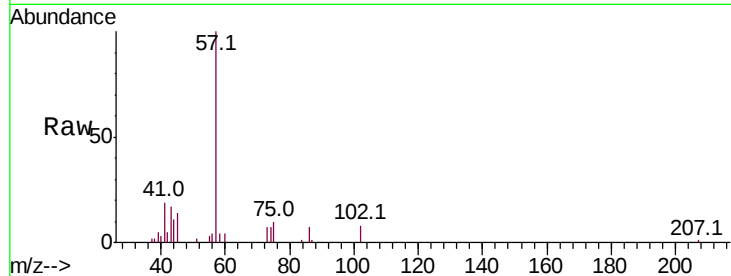




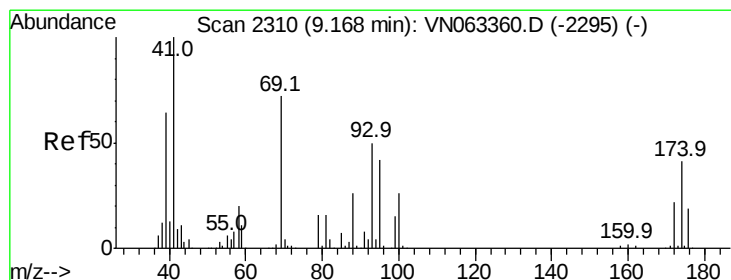
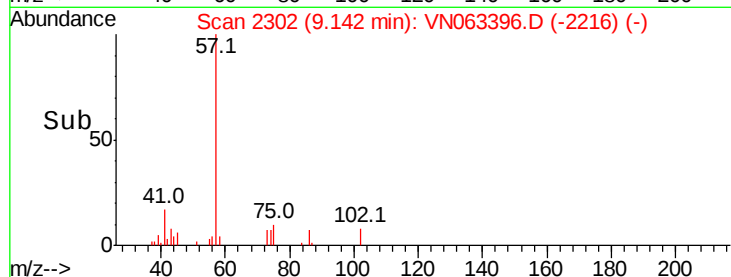
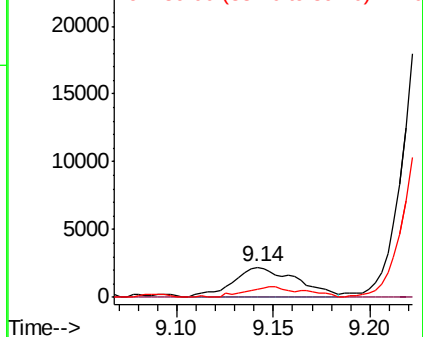
#48
Methvl methacrylate
Concen: 1.295 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN063396.D
Acq: 17 Sep 2020 4:39

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-0)

Tot Ion: 41 Resp: 5131
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 23.9 52.9 79.3#

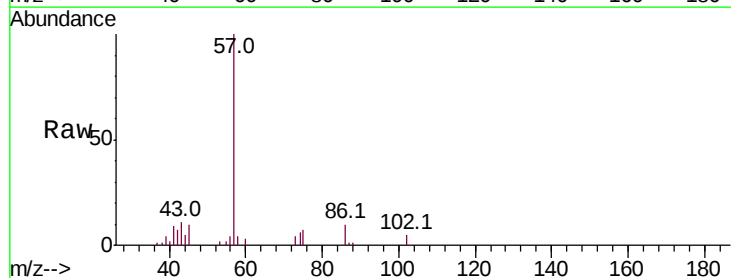


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

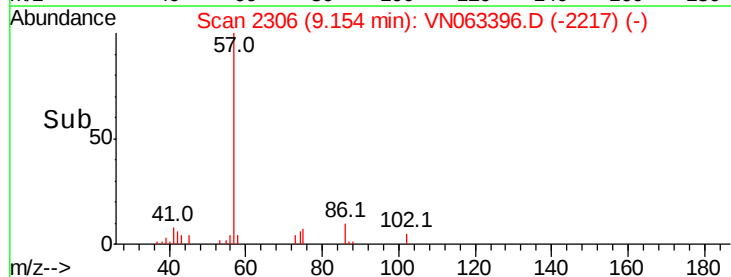
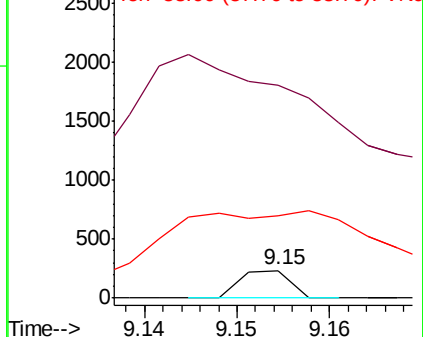


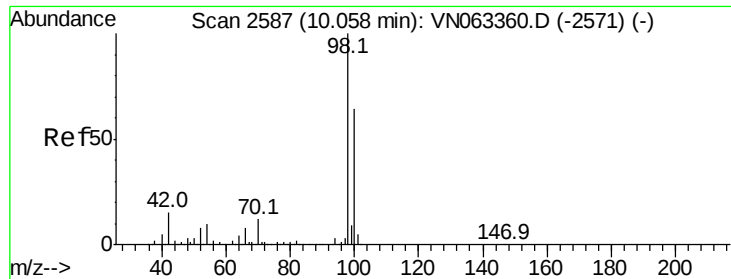
#49
1,4-Dioxane
Concen: 1.548 ug/l
RT: 9.15 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN063396.D
Acq: 17 Sep 2020 4:39

Tgt Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 788.6 60.0 90.0#



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





#50

Toluene-d8

Concen: 50.350 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

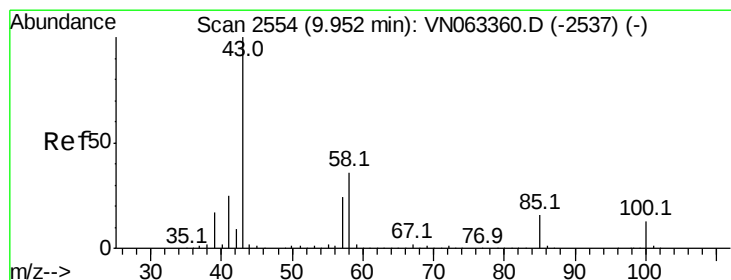
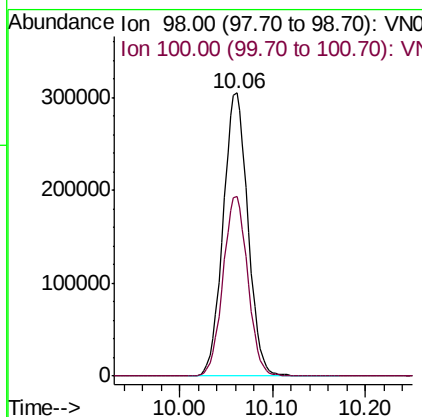
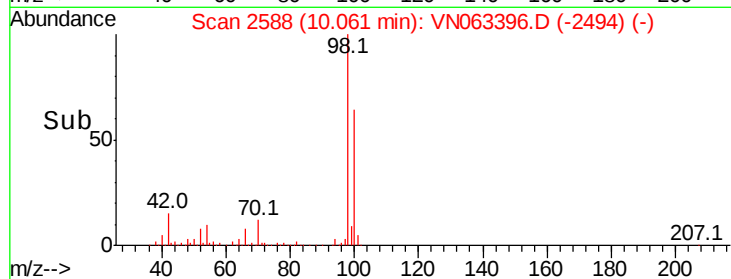
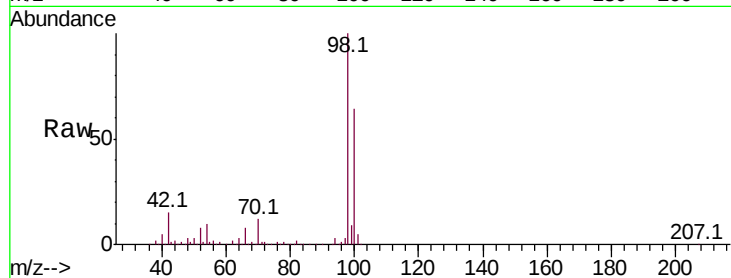
REACTOR-6E-(B-0)

Tot Ion: 98 Resp: 565370

Ion Ratio Lower Upper

98 100

100 63.4 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.098 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063396.D

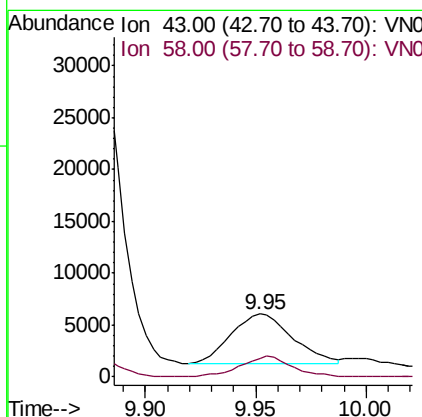
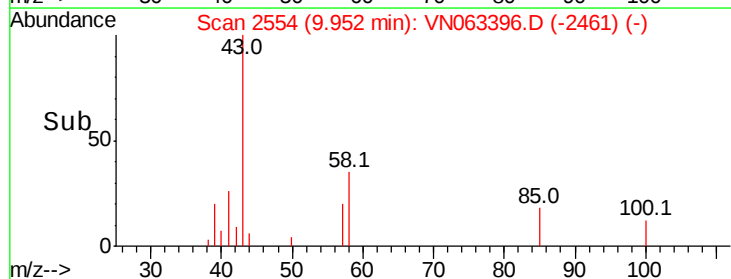
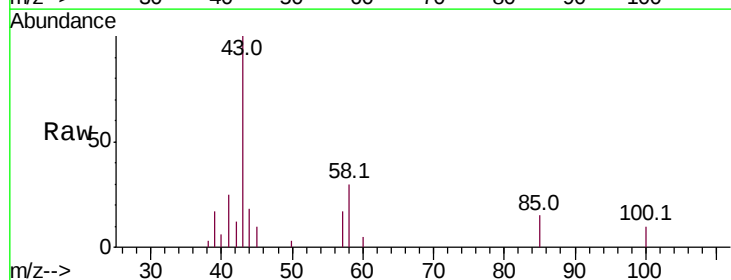
Acq: 17 Sep 2020 4:39

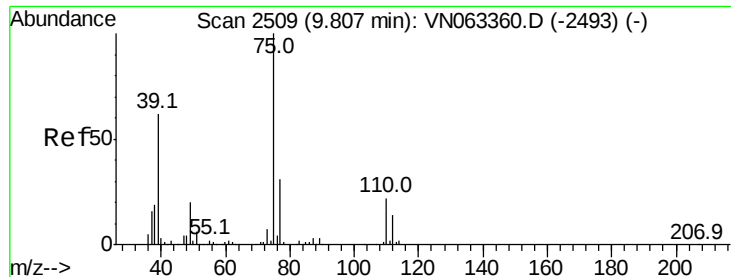
Tgt Ion: 43 Resp: 9473

Ion Ratio Lower Upper

43 100

58 34.1 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 5.460 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-0)

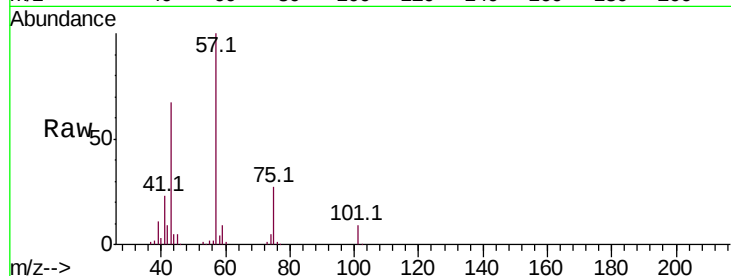
Tot Ion: 75 Resp: 31370

Ion Ratio Lower Upper

75 100

77 0.9 24.6 37.0#

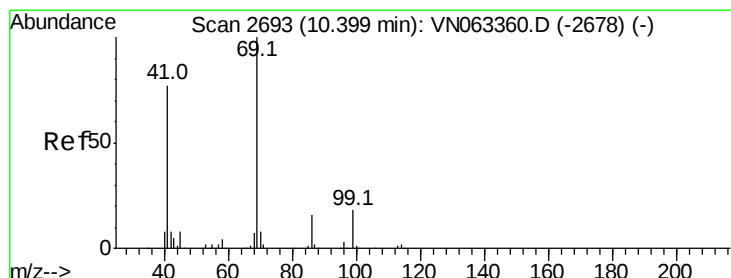
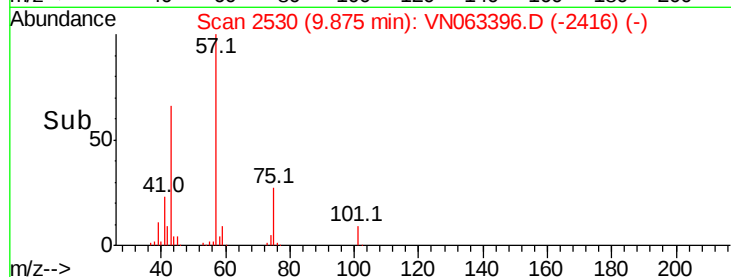
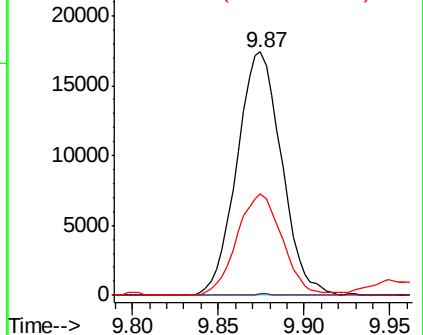
39 41.5 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.212 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

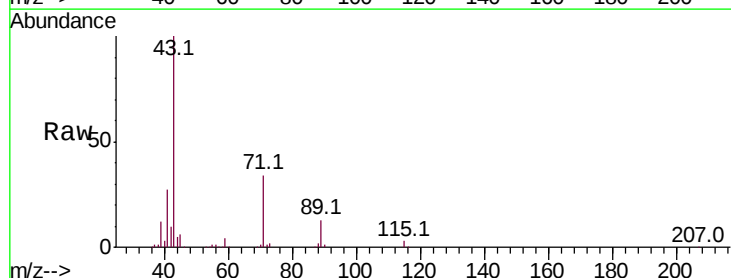
Tgt Ion: 69 Resp: 1036

Ion Ratio Lower Upper

69 100

41 7939.5 61.0 91.6#

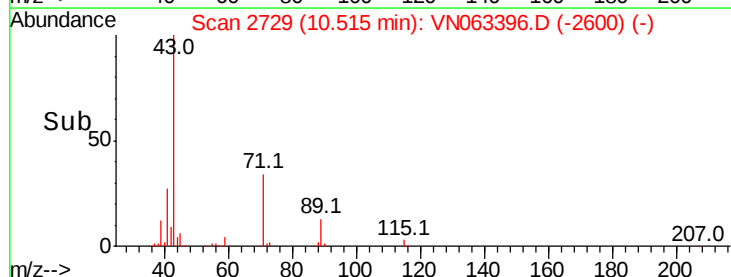
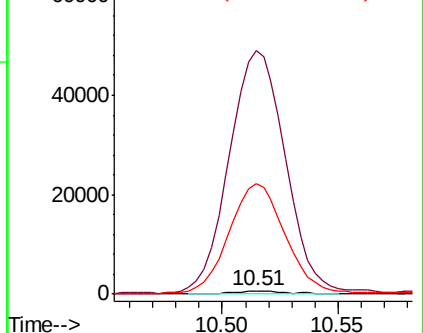
39 3659.3 39.2 58.8#

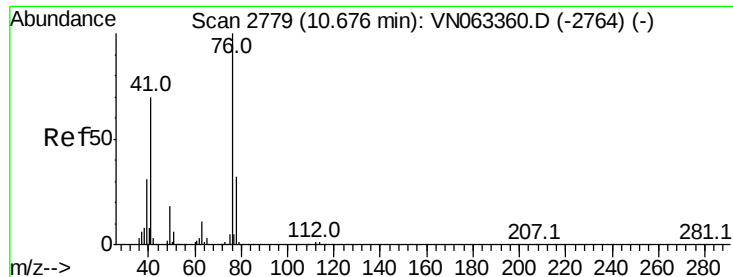


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

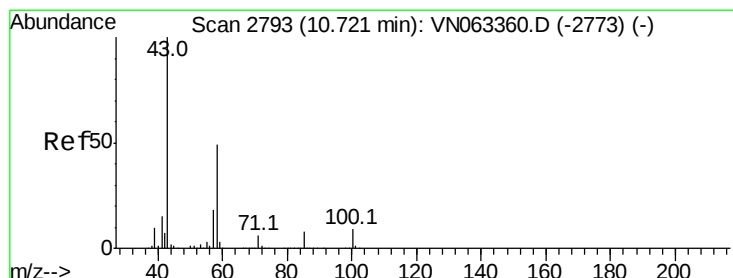
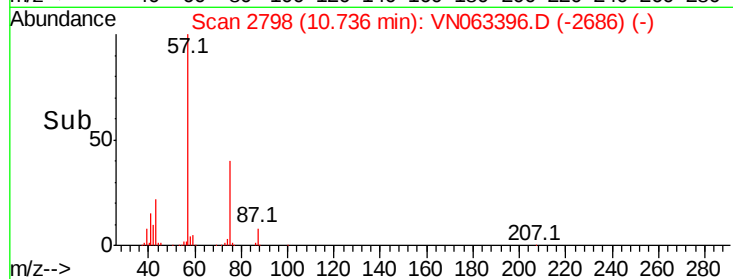
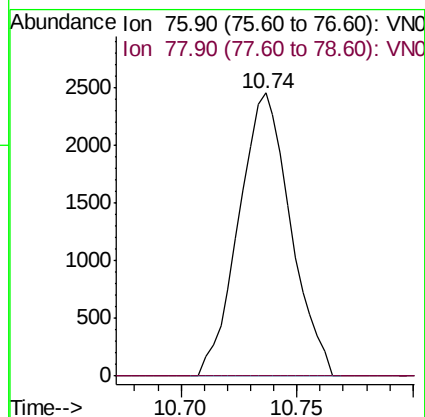
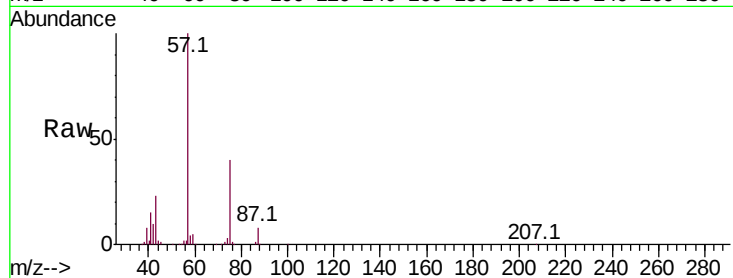




#57
 1,3-Dichloropropane
 Concen: 0.677 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063396.D
 Acq: 17 Sep 2020 4:39

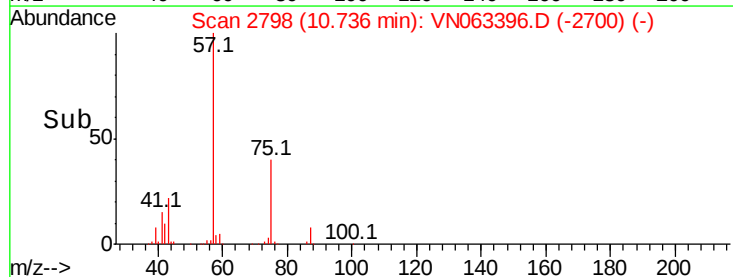
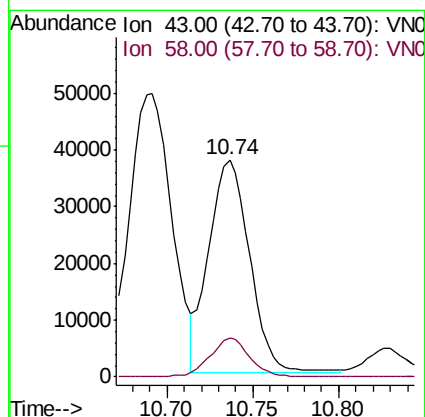
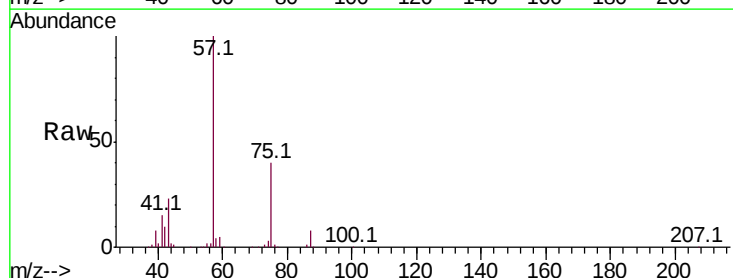
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(B-0)

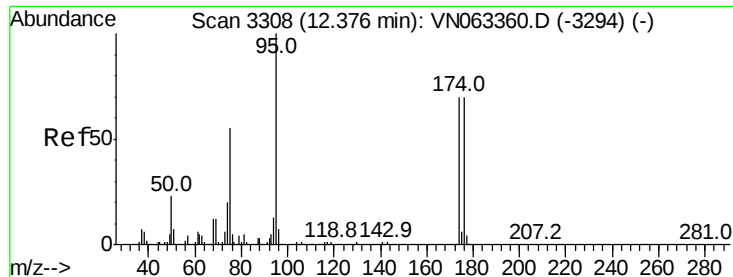
Tot Ion: 76 Resp: 3823
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 19.040 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063396.D
 Acq: 17 Sep 2020 4:39

Tgt Ion: 43 Resp: 62282
 Ion Ratio Lower Upper
 43 100
 58 17.5 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.046 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-0)

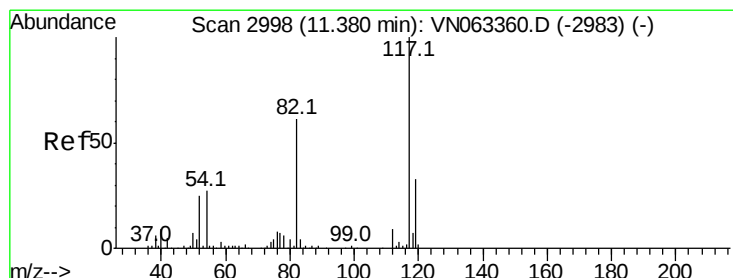
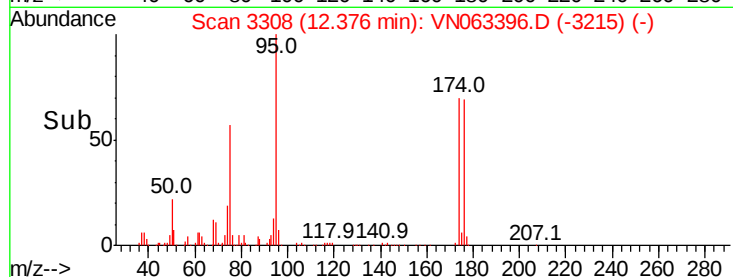
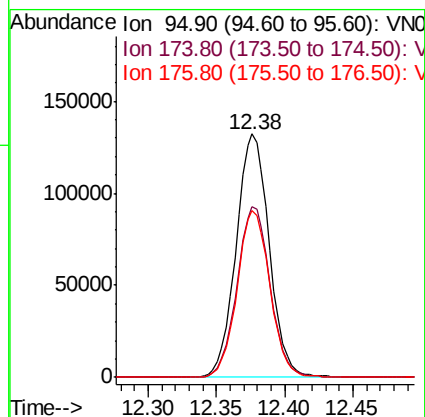
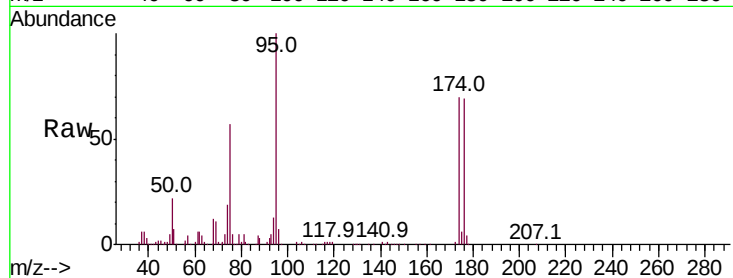
Tot Ion: 95 Resp: 222470

Ion Ratio Lower Upper

95 100

174 70.3 0.0 140.8

176 68.0 0.0 137.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

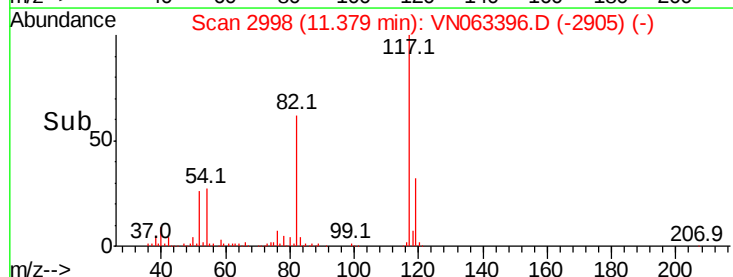
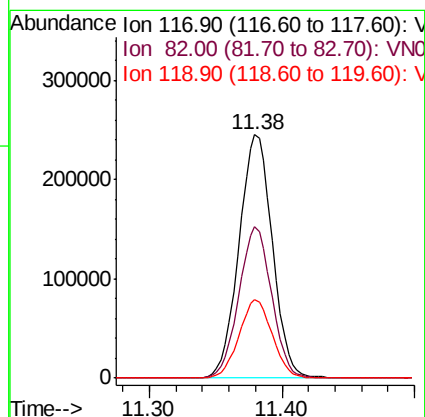
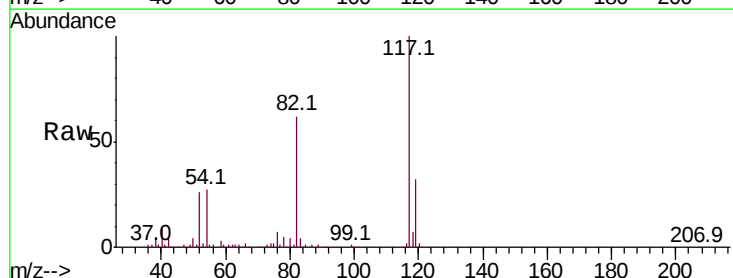
Tgt Ion: 117 Resp: 428789

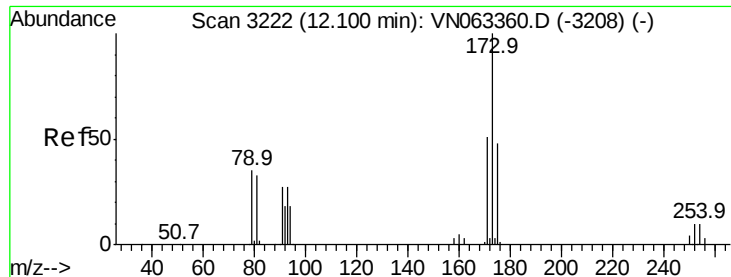
Ion Ratio Lower Upper

117 100

82 62.0 49.2 73.8

119 32.1 26.2 39.4





#71

Bromoform

Concen: 0.500 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-0)

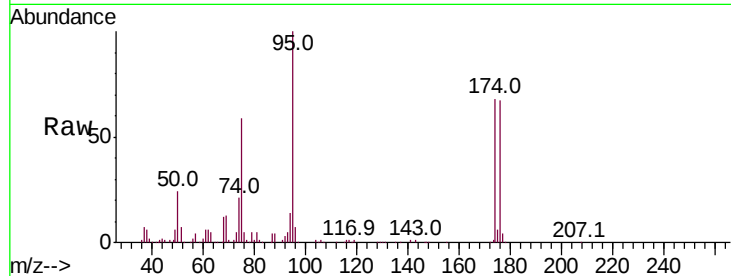
Tot Ion:173 Resp: 1242

Ion Ratio Lower Upper

173 100

175 820.9 24.0 72.0#

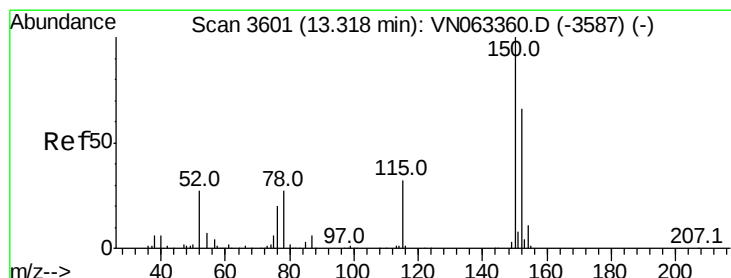
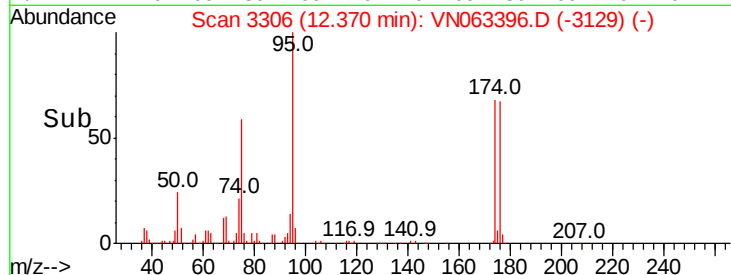
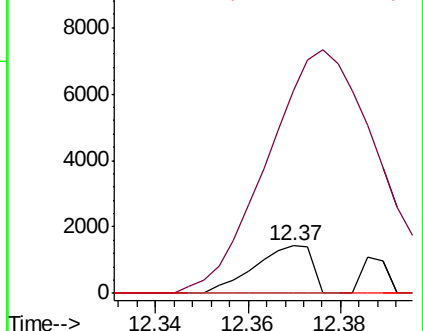
254 0.0 0.0 0.0



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: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

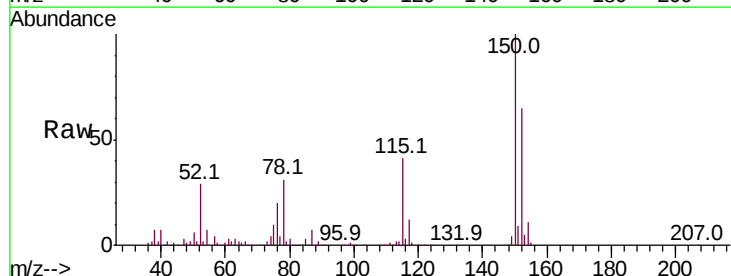
Tgt Ion:152 Resp: 184538

Ion Ratio Lower Upper

152 100

115 63.6 32.2 96.6

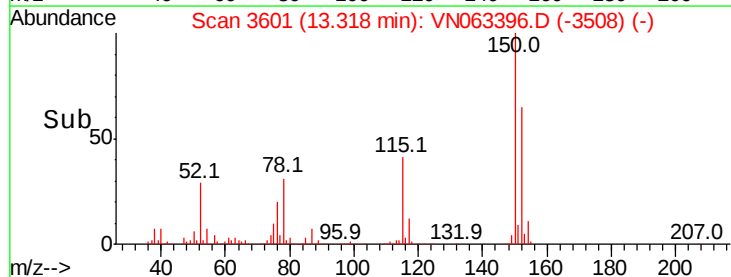
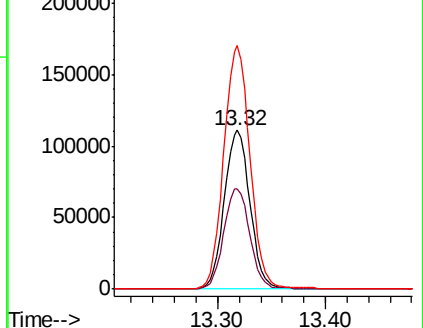
150 155.5 0.0 343.4

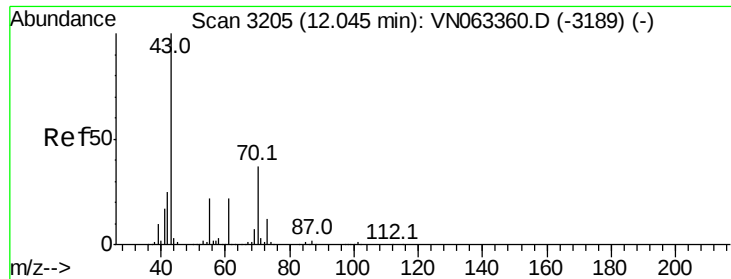


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.361 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-0)

Tot Ion: 43 Resp: 2528

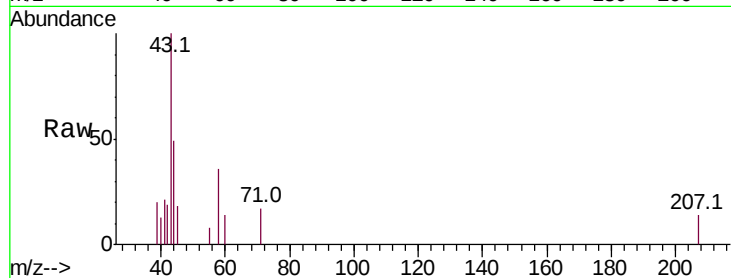
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 6.7 17.7 26.5#

61 0.0 17.4 26.2#

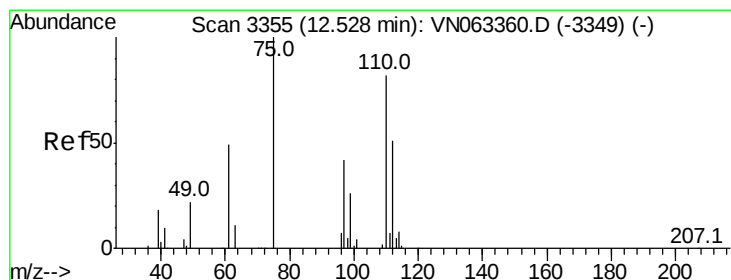
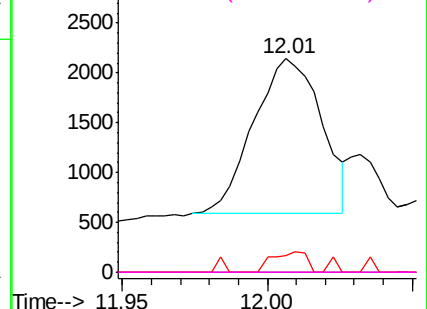
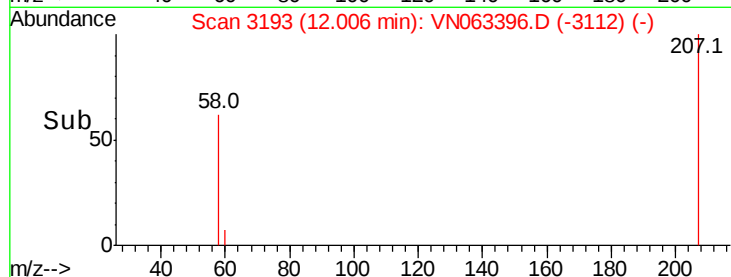


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 27.738 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063396.D

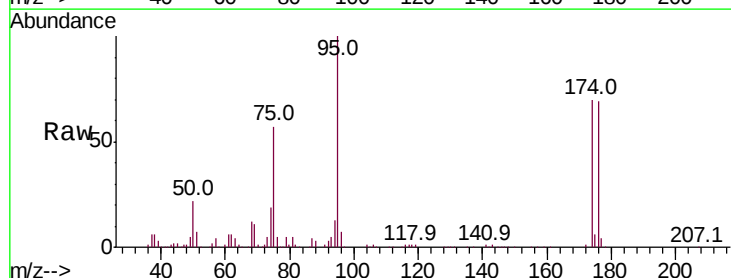
Acq: 17 Sep 2020 4:39

Tgt Ion: 75 Resp: 126696

Ion Ratio Lower Upper

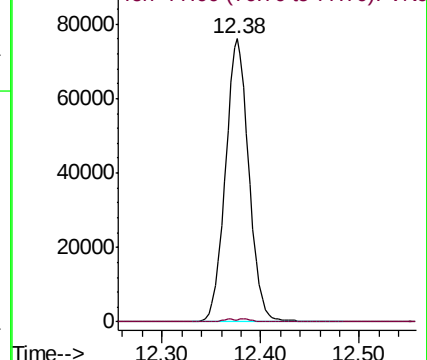
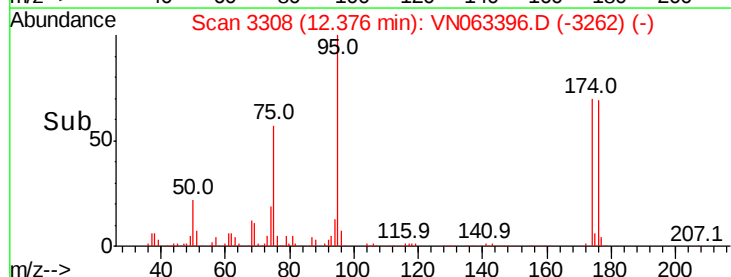
75 100

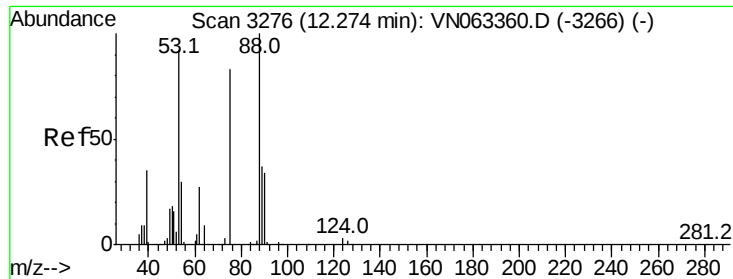
77 0.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 76.047 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063396.D

Acq: 17 Sep 2020 4:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-0)

Tot Ion: 75 Resp: 126696

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

