

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063397.D
 Acq On : 17 Sep 2020 5:03
 Operator : JC/MD
 Sample : L4015-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

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

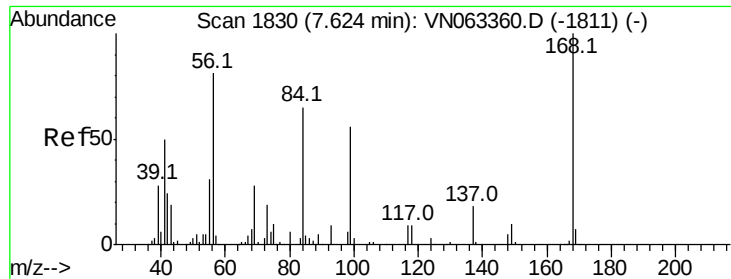
Quant Time: Sep 17 06:38:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	231866	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	439518	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	426015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182475	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	198054	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	7.55	113	143764	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	10.06	98	563734	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.38	95	215473	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.43	56	65	0.321	ug/l #	13
16) Acetone	3.79	43	16238	12.801	ug/l	98
18) Methyl Acetate	4.28	43	2519	0.782	ug/l #	74
20) Methylene Chloride	4.51	84	12325	3.835	ug/l	90
25) 2-Butanone	6.79	43	1640	0.841	ug/l	100
29) Tetrahydrofuran	7.17	42	1797	1.349	ug/l #	52
31) Cyclohexane	7.63	56	6898	1.265	ug/l #	43
36) 1,1-Dichloropropene	7.63	75	22273	4.757	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26583	5.561	ug/l #	18
41) Methacrylonitrile	7.18	41	865	0.418	ug/l #	100
43) Isopropyl Acetate	8.13	43	75137	9.144	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1175	0.323	ug/l #	43
48) Methyl methacrylate	9.14	41	4692	1.162	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	8836	1.921	ug/l	93
52) Toluene	10.13	92	6042	0.752	ug/l	85
54) cis-1,3-Dichloropropene	9.87	75	31579	5.395	ug/l #	63
56) Ethyl methacrylate	10.51	69	1473	0.296	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4112	0.714	ug/l #	42
59) 2-Hexanone	10.74	43	66726	20.021	ug/l #	54
74) N-amyl acetate	12.00	43	3498	0.505	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	123180	27.273	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123180	74.773	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

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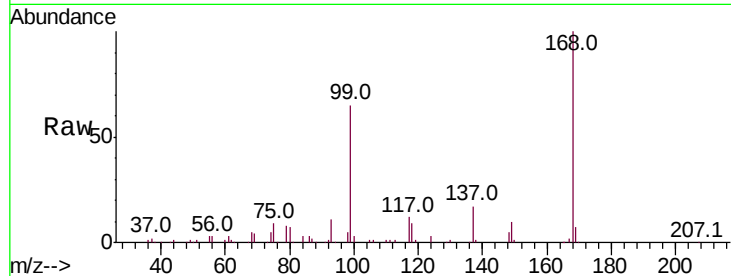
REACTOR-6E-(C-0)

Tot Ion:168 Resp: 231866

Ion Ratio Lower Upper

168 100

99 65.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

100000

80000

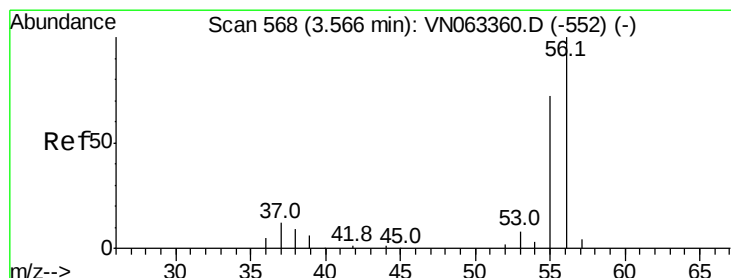
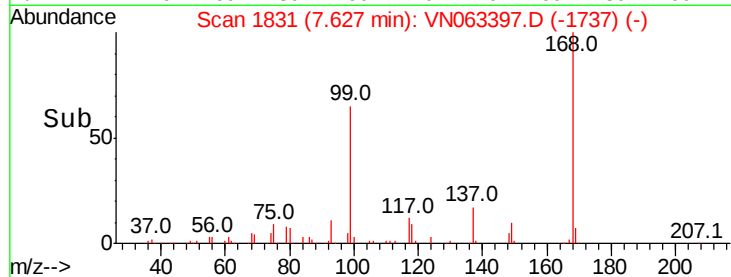
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#13

Acrolein

Concen: 0.321 ug/l

RT: 3.43 min Scan# 525

Delta R.T. -0.14 min

Lab File: VN063397.D

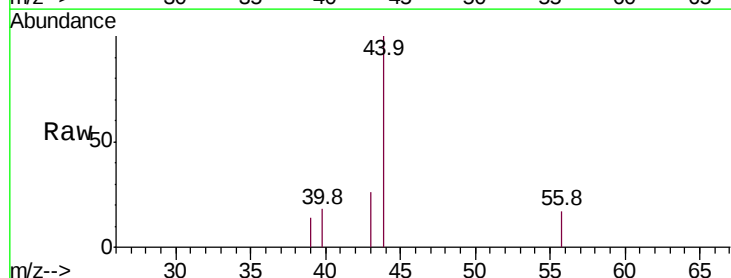
Acq: 17 Sep 2020 5:03

Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN063360.D (-552) (-)

3.43

200

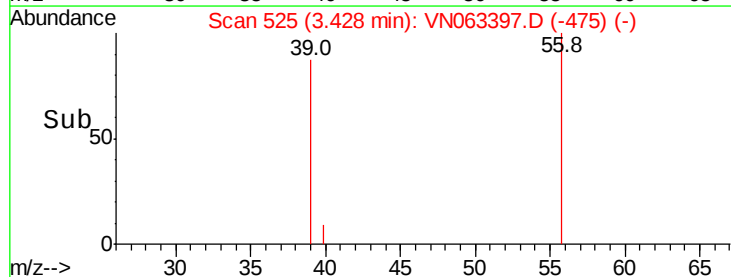
150

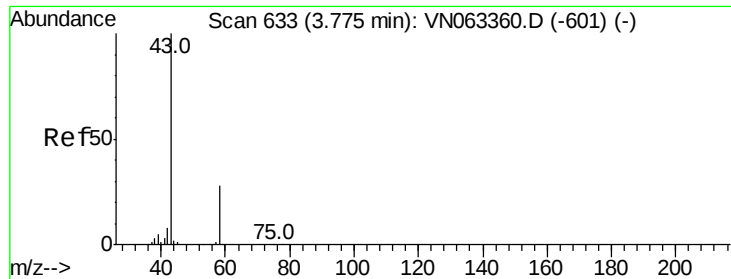
100

50

0

Time--> 3.42 3.43 3.44





#16

Acetone

Concen: 12.801 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

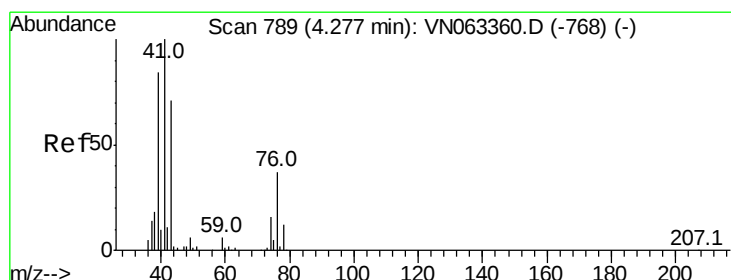
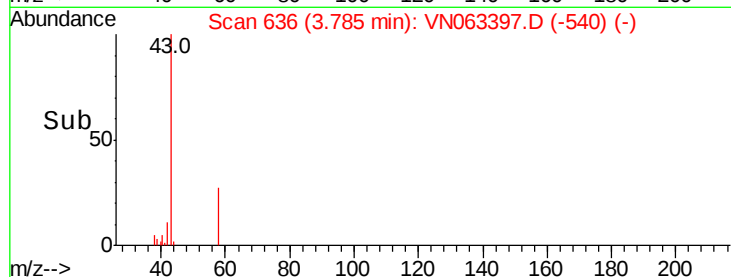
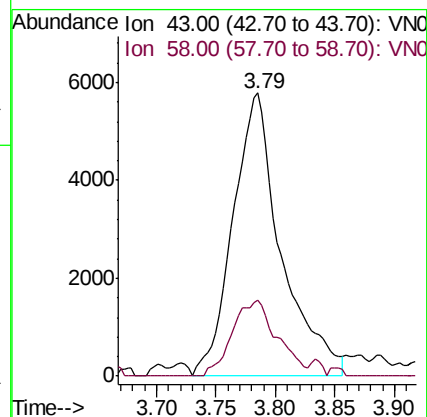
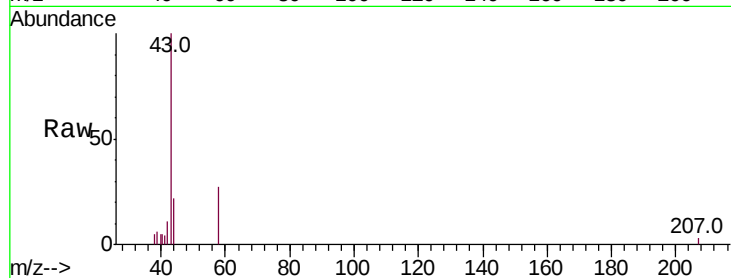
REACTOR-6E-(C-0)

Tot Ion: 43 Resp: 16238

Ion Ratio Lower Upper

43 100

58 26.7 22.3 33.5



#18

Methyl Acetate

Concen: 0.782 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063397.D

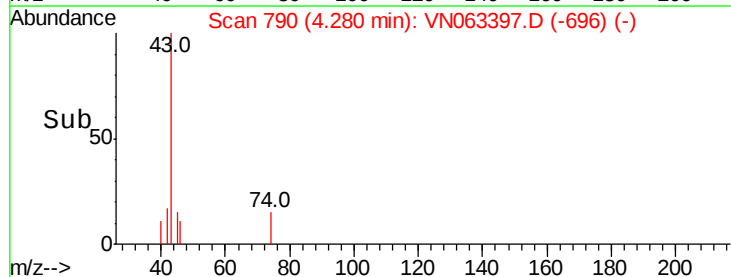
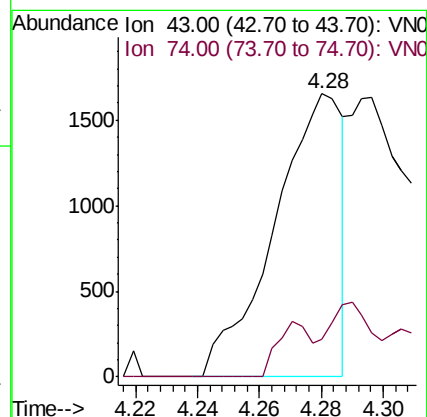
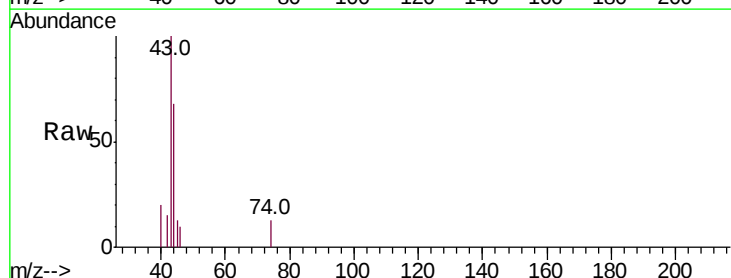
Acq: 17 Sep 2020 5:03

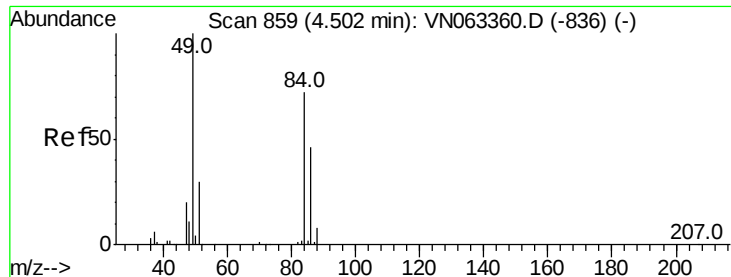
Tgt Ion: 43 Resp: 2519

Ion Ratio Lower Upper

43 100

74 9.3 17.4 26.2#

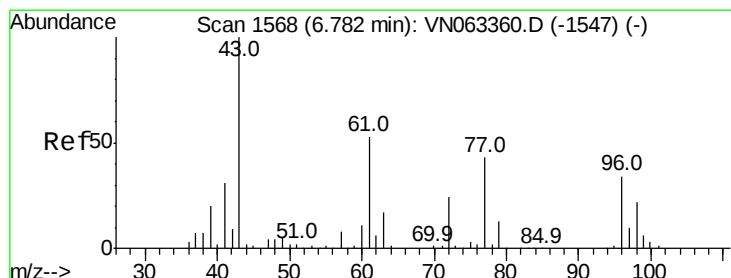
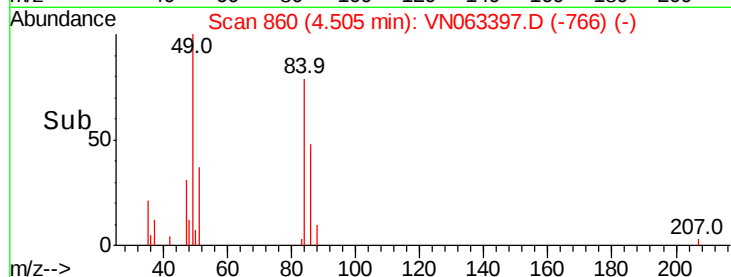
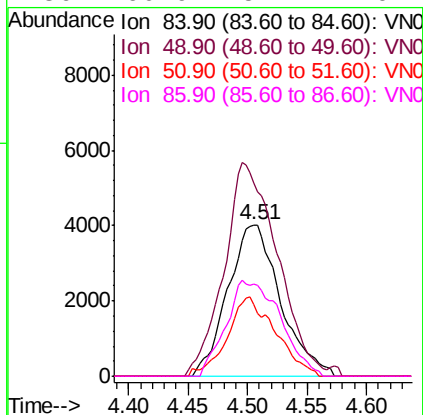
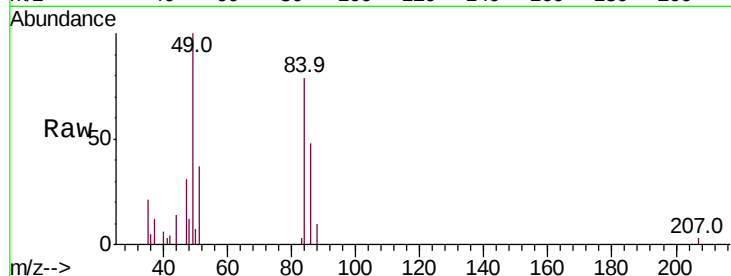




#20
Methvlene Chloride
Concen: 3.835 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063397.D
Acq: 17 Sep 2020 5:03

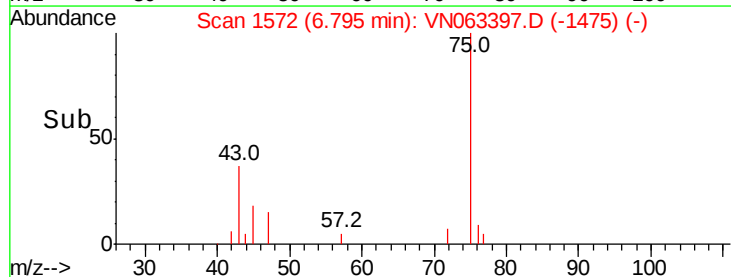
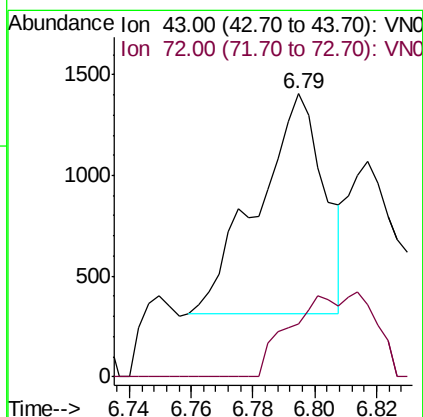
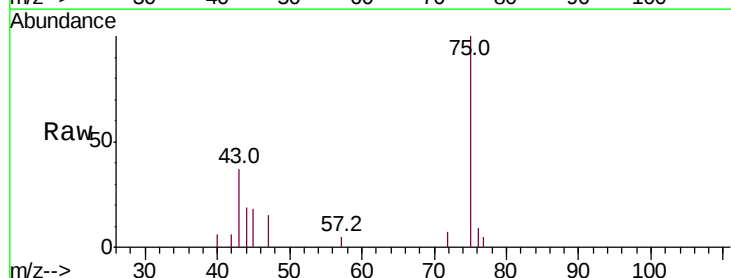
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(C-0)

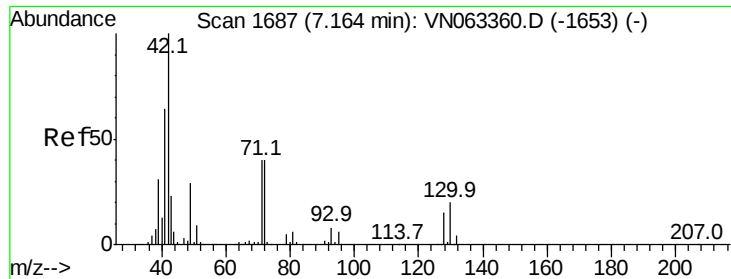
Tot Ion:	84	Resp:	12325
Ion	Ratio	Lower	Upper
84	100		
49	122.8	110.7	166.1
51	47.5	32.9	49.3
86	60.9	51.1	76.7



#25
2-Butanone
Concen: 0.841 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063397.D
Acq: 17 Sep 2020 5:03

Tgt Ion:	43	Resp:	1640
Ion	Ratio	Lower	Upper
43	100		
72	24.0	19.2	28.8





#29

Tetrahydrofuran

Concen: 1.349 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-0)

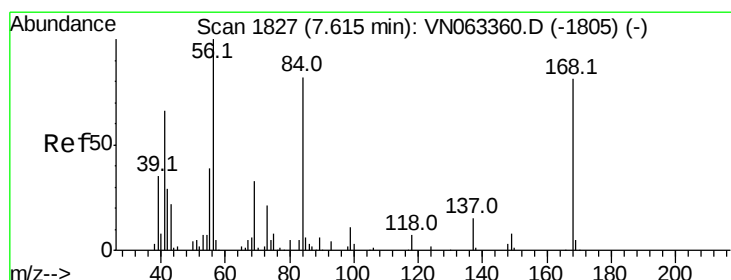
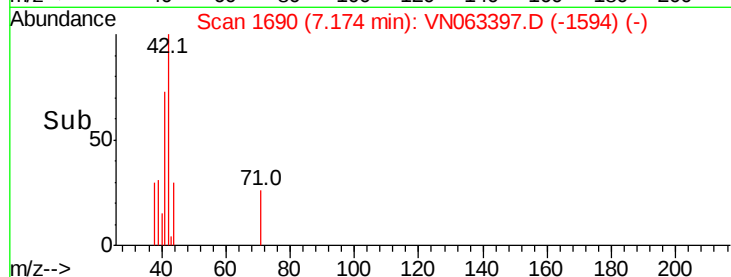
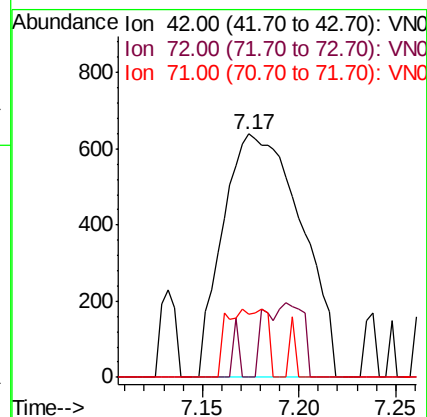
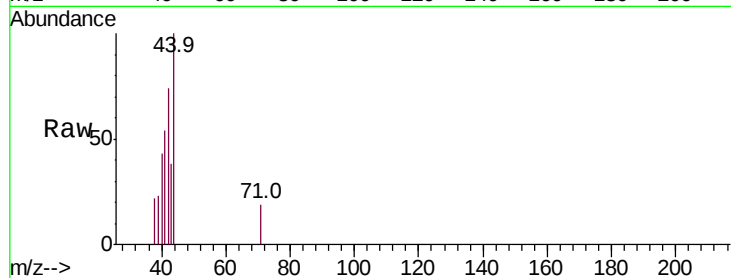
Tot Ion: 42 Resp: 1797

Ion Ratio Lower Upper

42 100

72 5.3 32.1 48.1#

71 14.4 31.2 46.8#



#31

Cyclohexane

Concen: 1.265 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

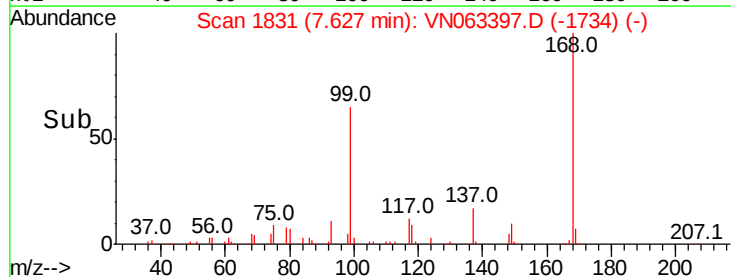
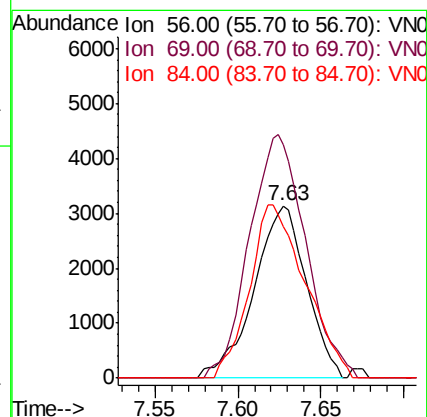
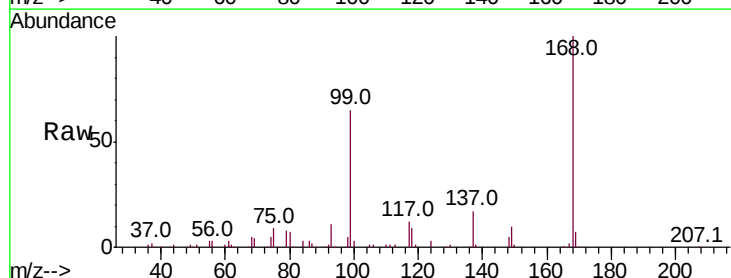
Tgt Ion: 56 Resp: 6898

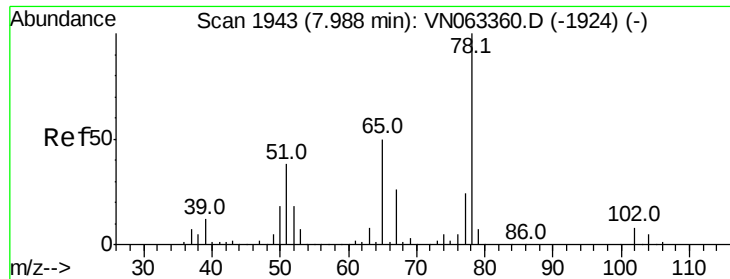
Ion Ratio Lower Upper

56 100

69 135.9 26.1 39.1#

84 88.0 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 50.179 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

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ClientSampleId :

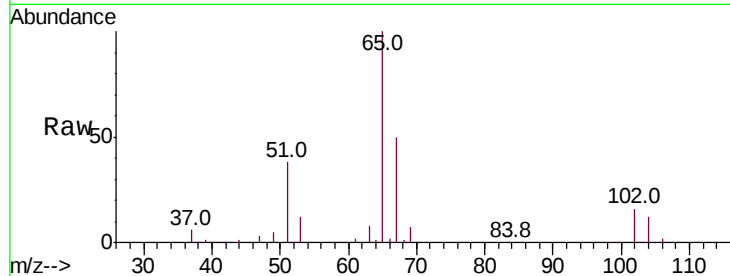
REACTOR-6E-(C-0)

Tot Ion: 65 Resp: 198054

Ion Ratio Lower Upper

65 100

67 50.0 0.0 104.2

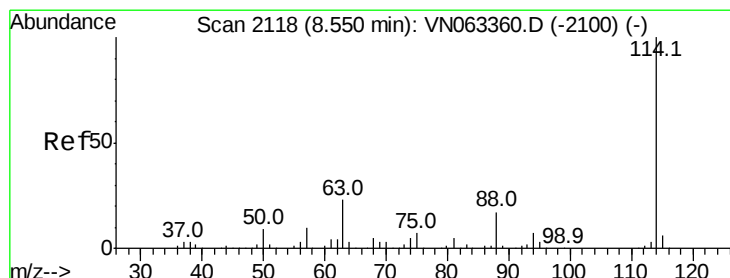
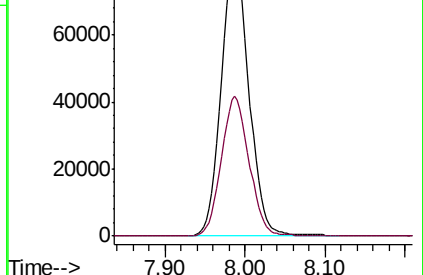
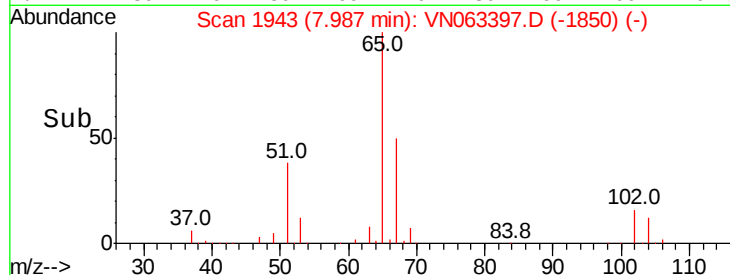


Abundance Ion 64.90 (64.60 to 65.60): VN063397.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063397.D (-1850) (-)

7.99

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

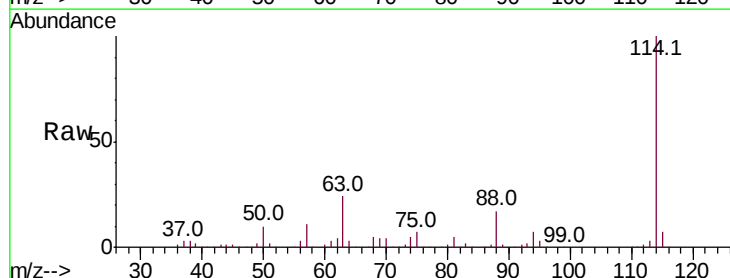
Tgt Ion: 114 Resp: 439518

Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.4

88 16.8 0.0 33.2



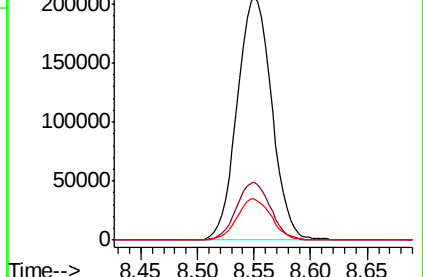
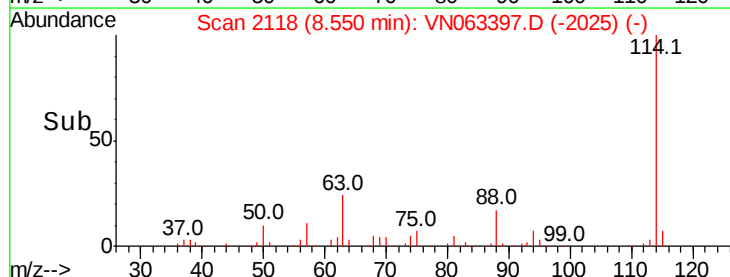
Abundance Ion 113.90 (113.60 to 114.60): VN063397.D (-2025) (-)

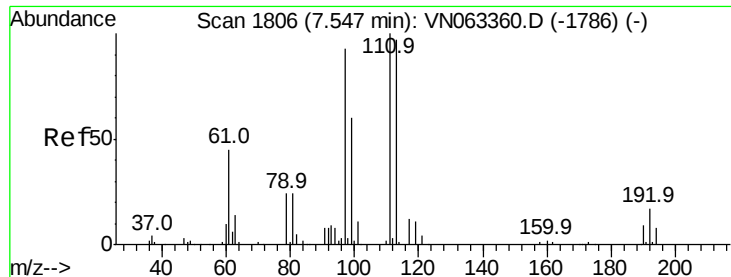
Ion 63.00 (62.70 to 63.70): VN063397.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN063397.D (-2025) (-)

8.55

Time-->

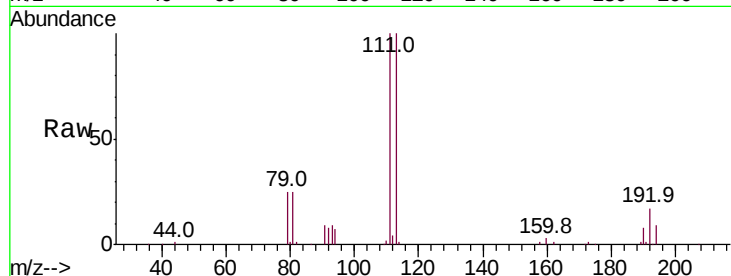




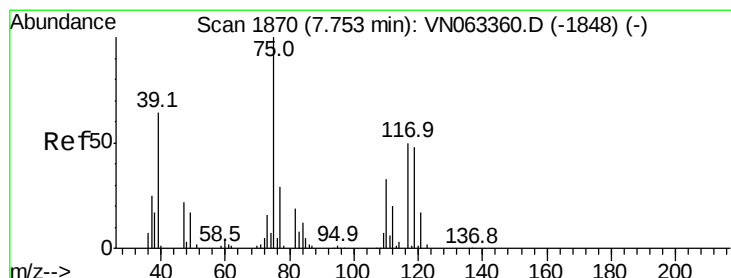
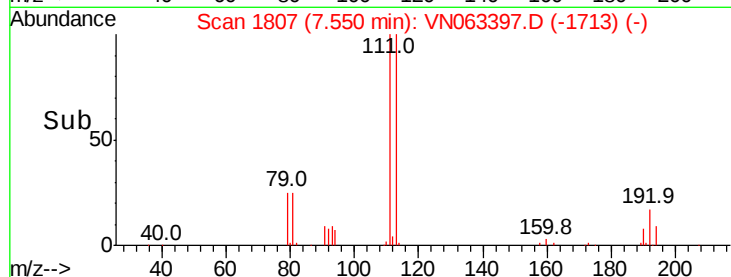
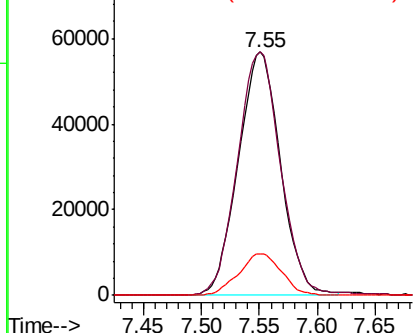
#35
 Dibromofluoromethane
 Concen: 47.249 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063397.D
 Acq: 17 Sep 2020 5:03

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 REACTOR-6E-(C-0)

Tot Ion:113 Resp: 143764
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.9 124.3
 192 17.4 13.9 20.9

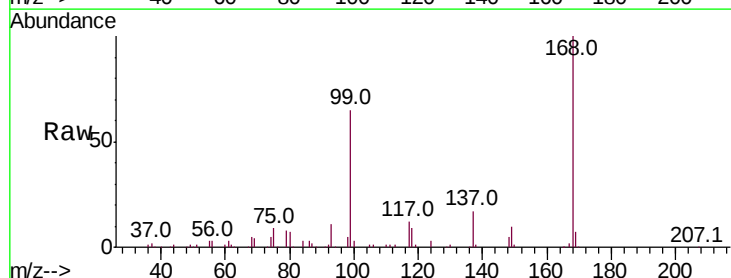


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

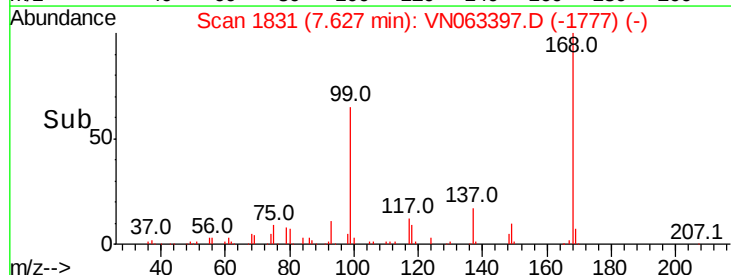
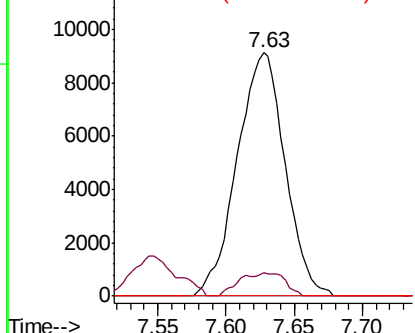


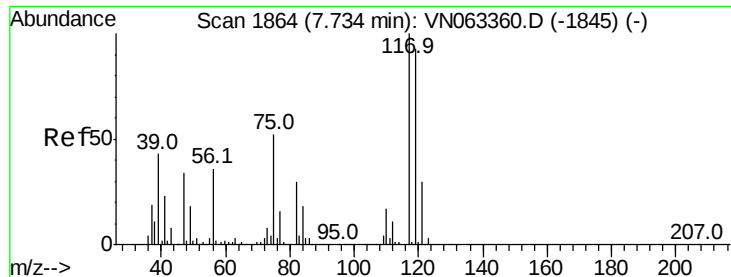
#36
 1,1-Dichloropropene
 Concen: 4.757 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063397.D
 Acq: 17 Sep 2020 5:03

Tgt Ion: 75 Resp: 22273
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.5 49.5#
 77 0.0 24.6 36.8#



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





#38

Carbon Tetrachloride

Concen: 5.561 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-0)

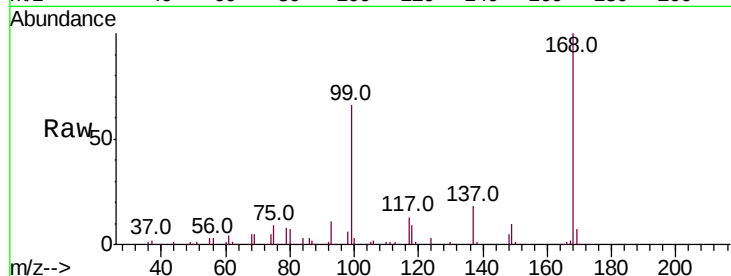
Tot Ion:117 Resp: 26583

Ion Ratio Lower Upper

117 100

119 5.8 74.5 111.7#

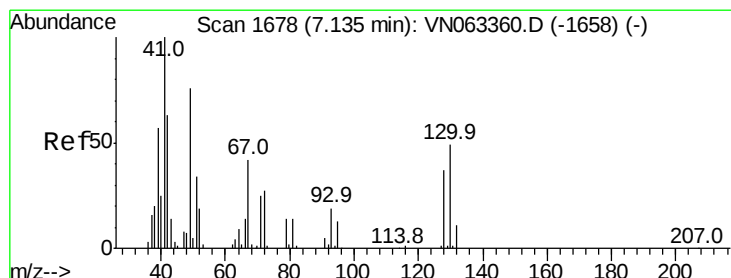
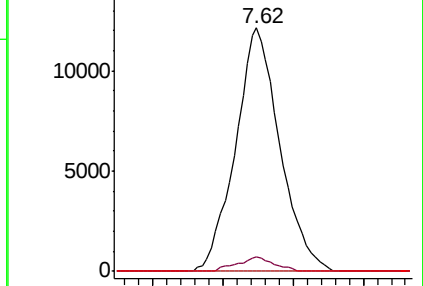
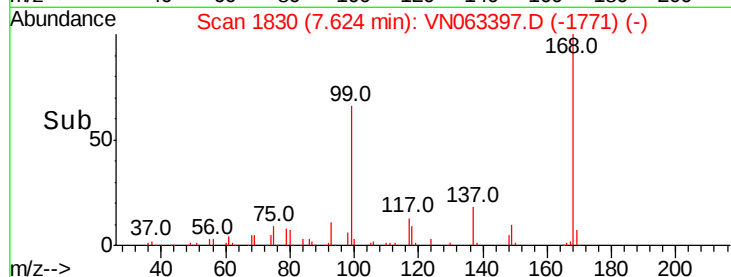
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.418 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.04 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Tgt Ion: 41 Resp: 865

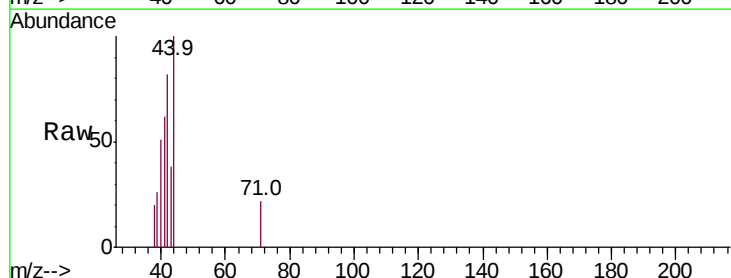
Ion Ratio Lower Upper

41 100

39 35.1 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

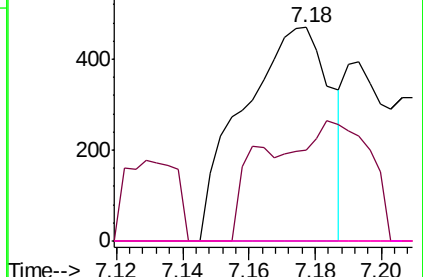
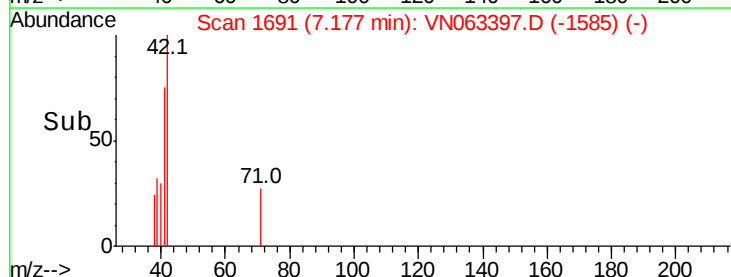


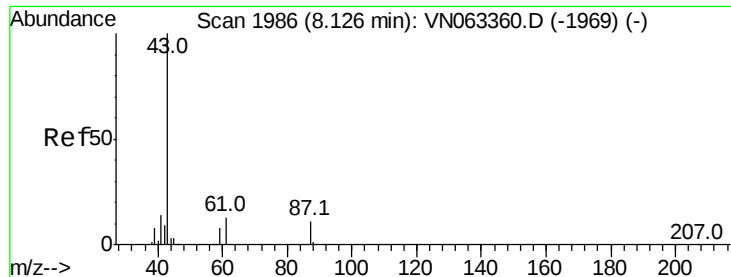
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 9.144 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-0)

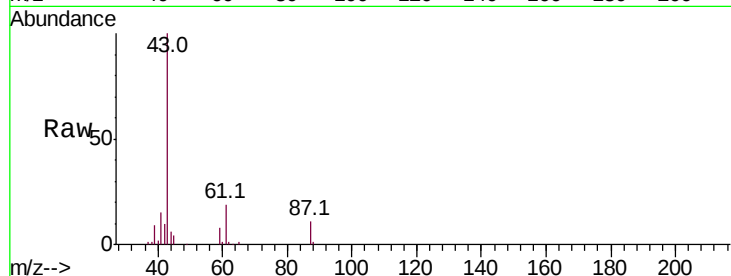
Tot Ion: 43 Resp: 75137

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

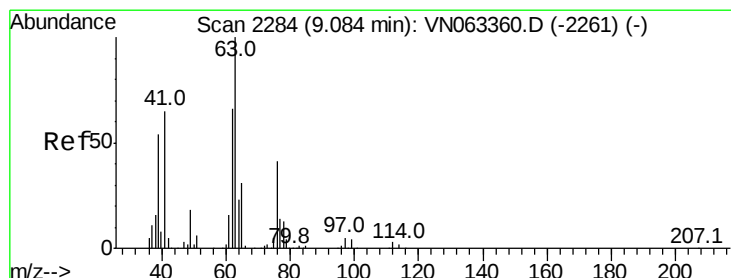
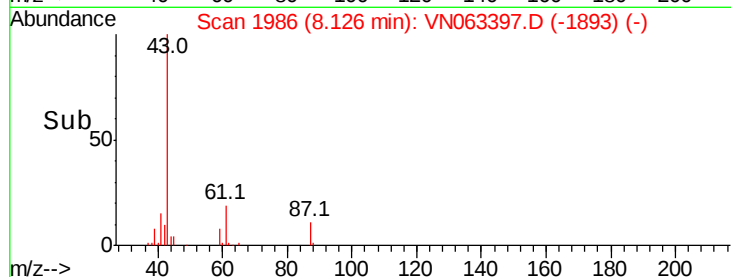
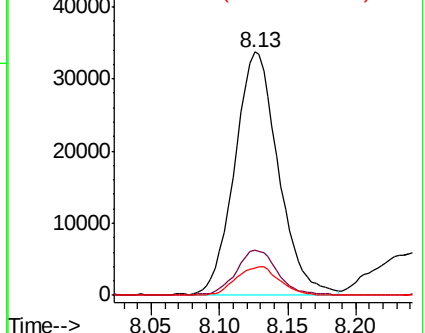
87 11.7 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.323 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063397.D

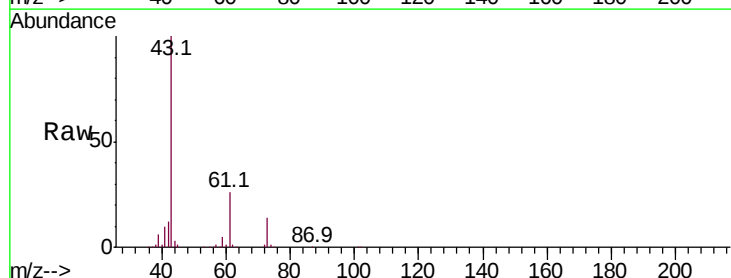
Acq: 17 Sep 2020 5:03

Tgt Ion: 63 Resp: 1175

Ion Ratio Lower Upper

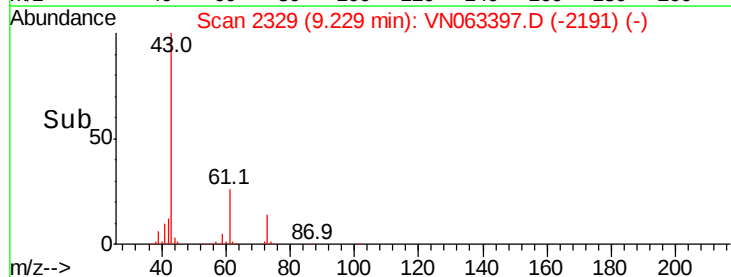
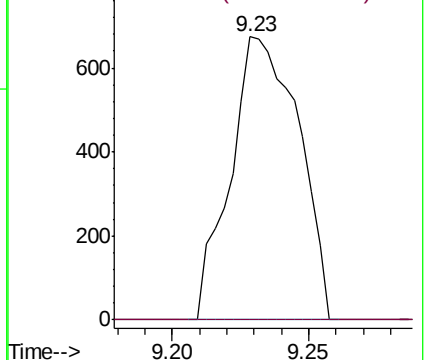
63 100

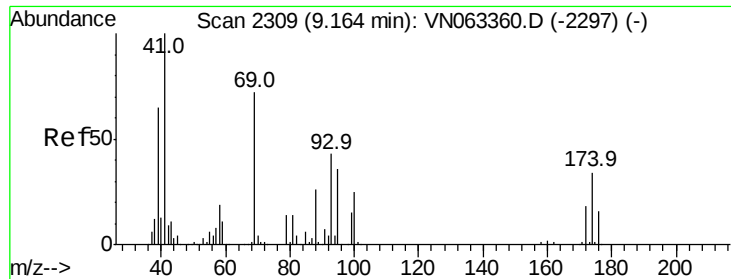
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

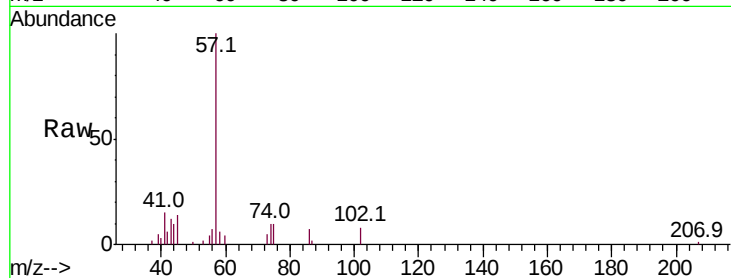




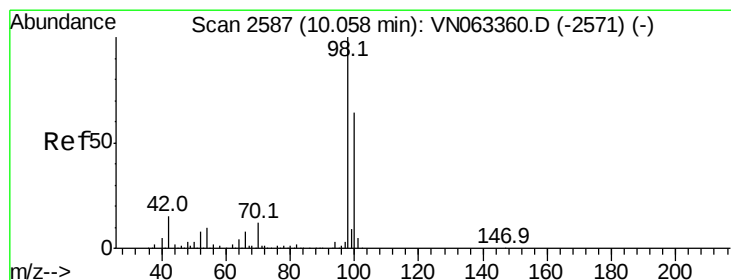
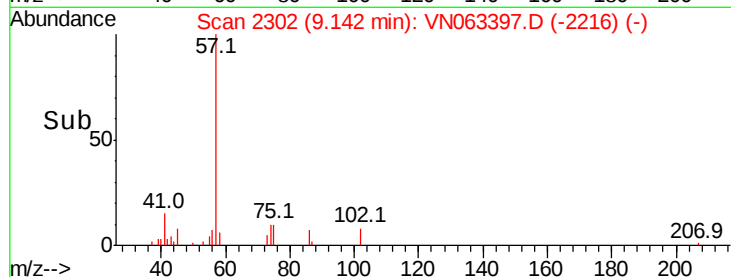
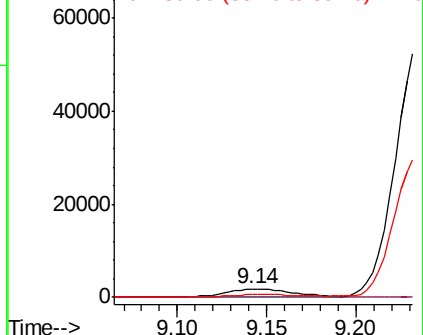
#48
Methvl methacrylate
Concen: 1.162 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN063397.D
Acq: 17 Sep 2020 5:03

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

Tot Ion: 41 Resp: 4692
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#

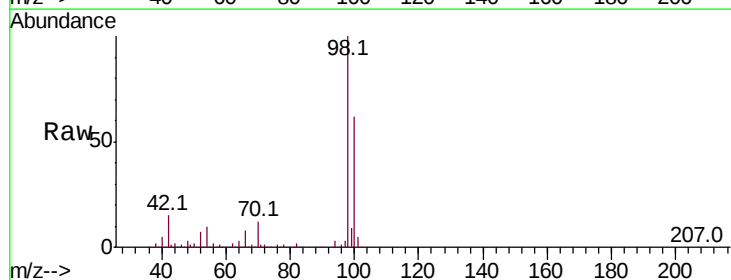


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

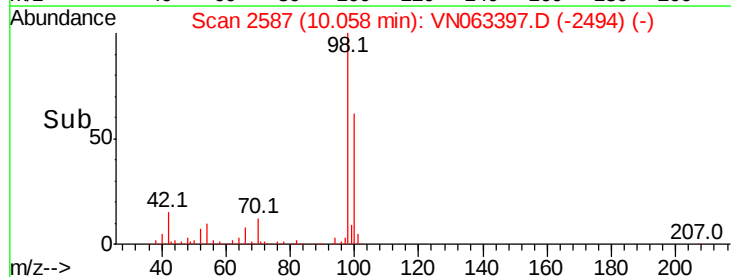
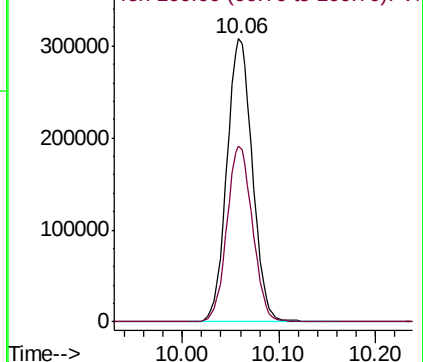


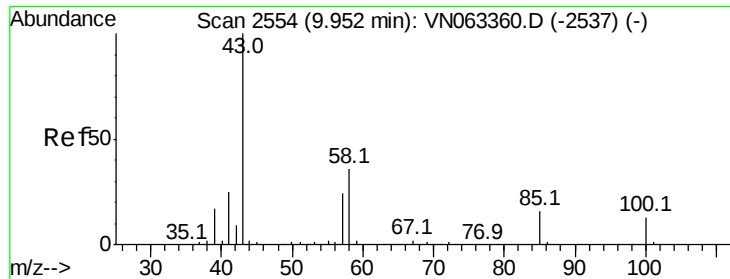
#50
Toluene-d8
Concen: 49.273 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN063397.D
Acq: 17 Sep 2020 5:03

Tgt Ion: 98 Resp: 563734
Ion Ratio Lower Upper
98 100
100 62.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.921 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

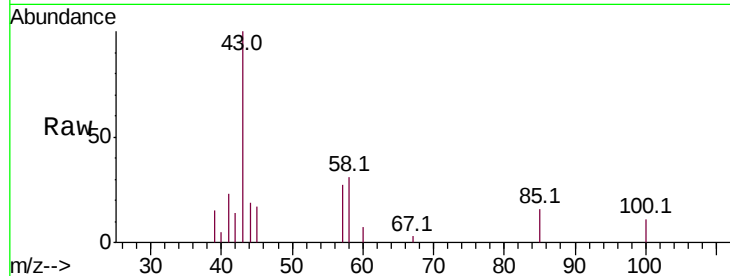
REACTOR-6E-(C-0)

Tot Ion: 43 Resp: 8836

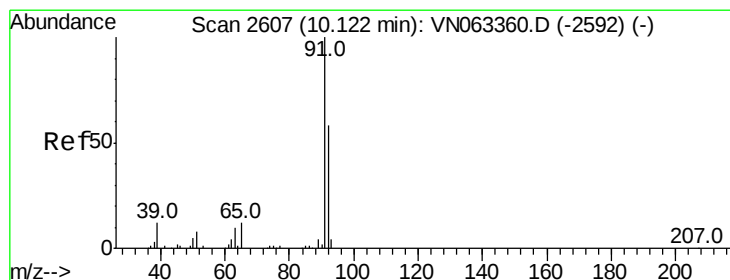
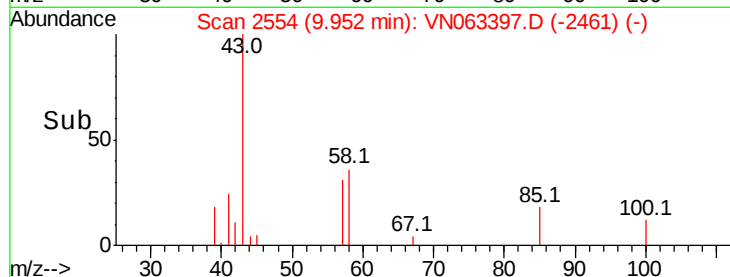
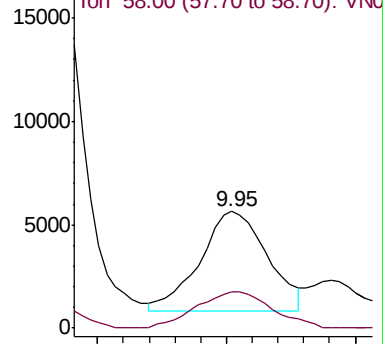
Ion Ratio Lower Upper

43 100

58 40.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)



#52

Toluene

Concen: 0.752 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063397.D

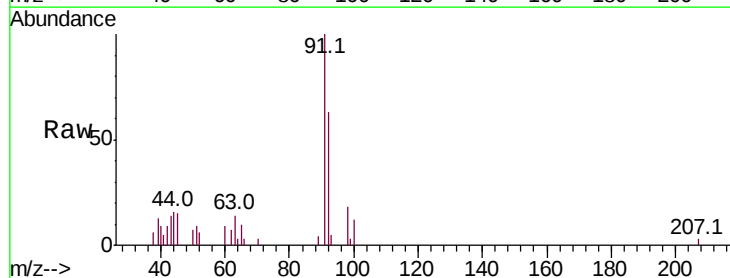
Acq: 17 Sep 2020 5:03

Tgt Ion: 92 Resp: 6042

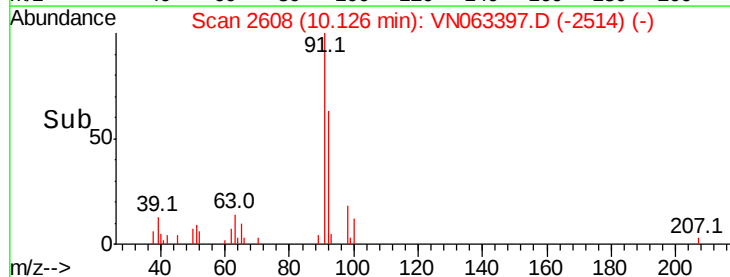
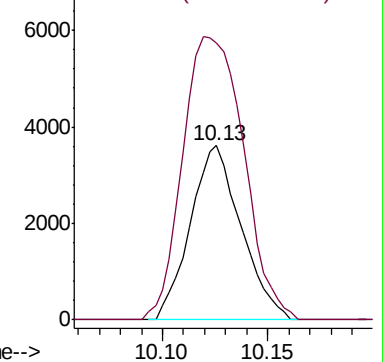
Ion Ratio Lower Upper

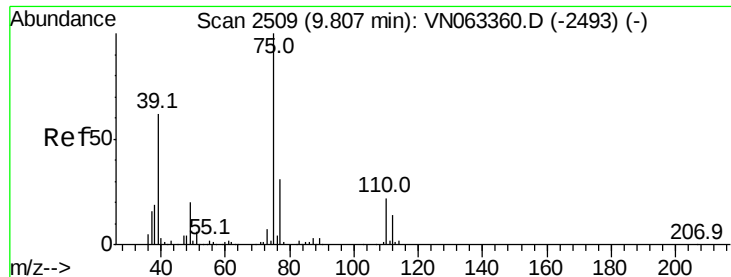
92 100

91 195.0 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN063360.D (-2592) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.395 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-0)

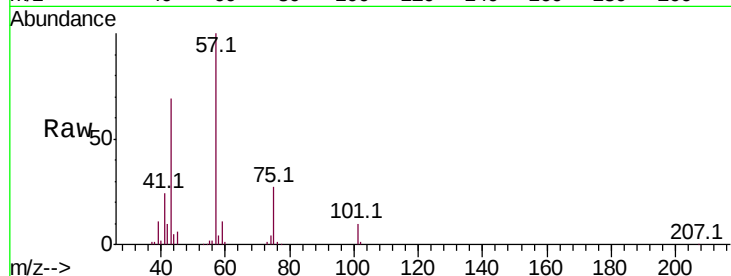
Tot Ion: 75 Resp: 31579

Ion Ratio Lower Upper

75 100

77 1.3 24.6 37.0#

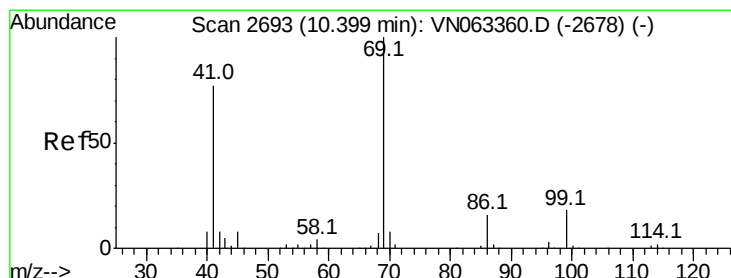
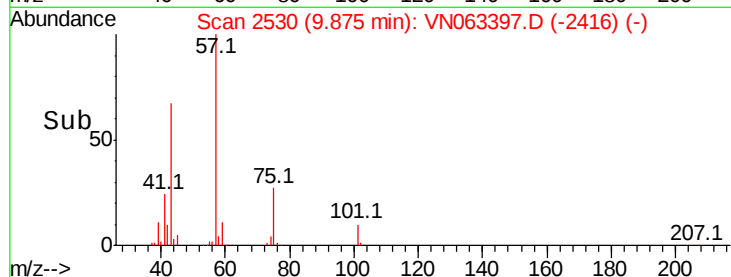
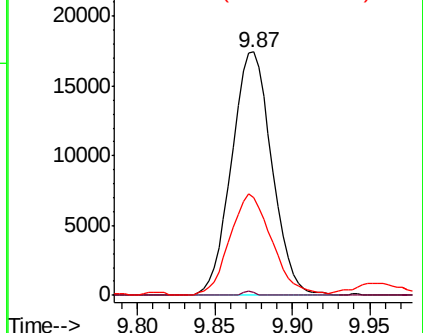
39 40.3 49.8 74.8#



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: 0.296 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

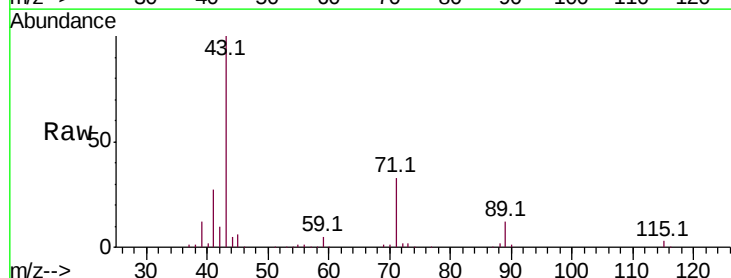
Tgt Ion: 69 Resp: 1473

Ion Ratio Lower Upper

69 100

41 5680.9 61.0 91.6#

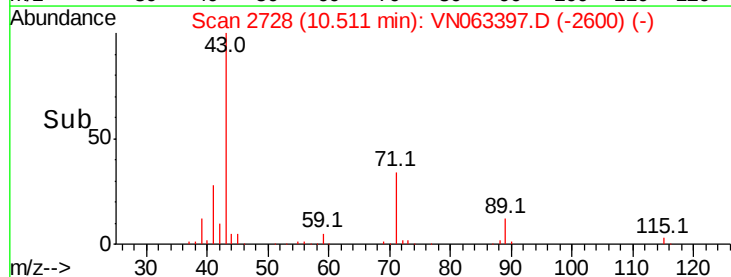
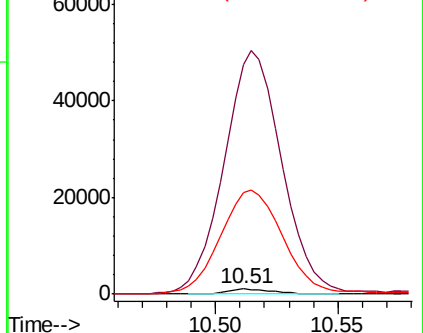
39 2638.3 39.2 58.8#

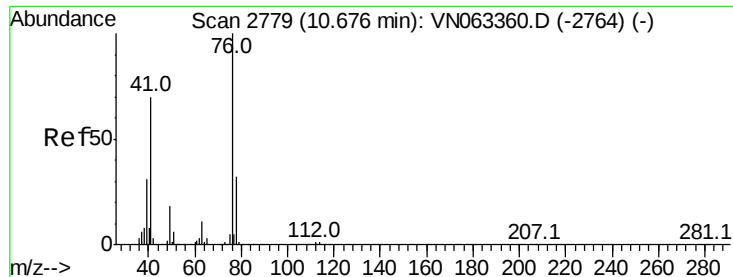


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.714 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

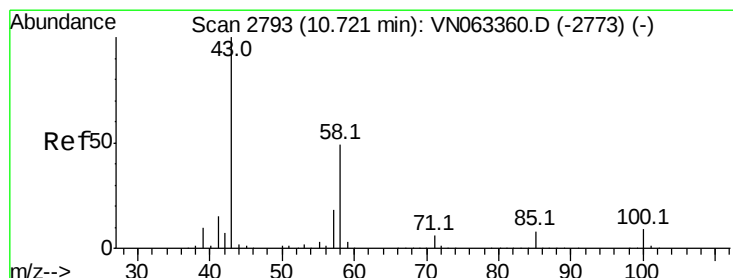
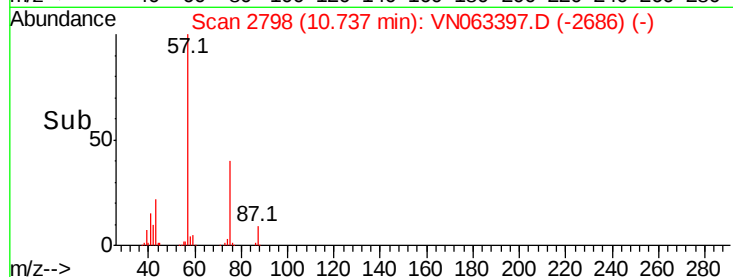
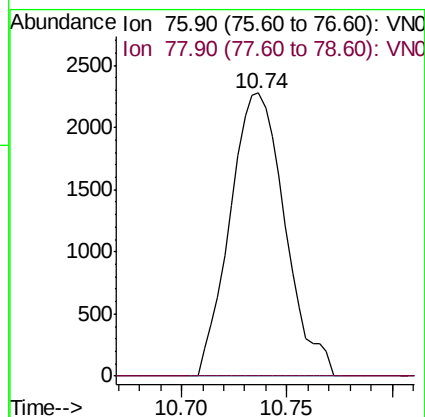
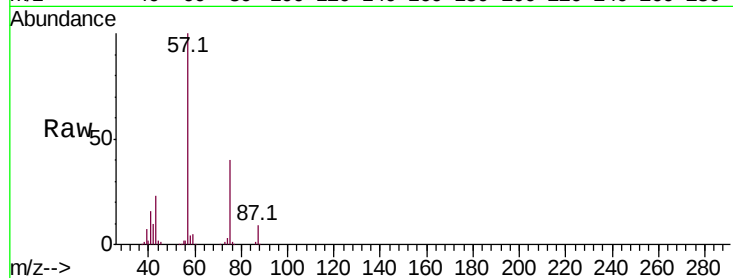
REACTOR-6E-(C-0)

Tot Ion: 76 Resp: 4112

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 20.021 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063397.D

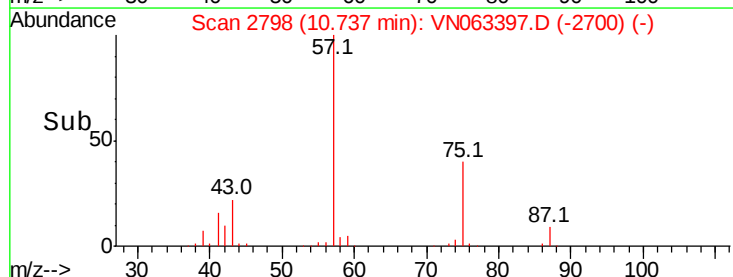
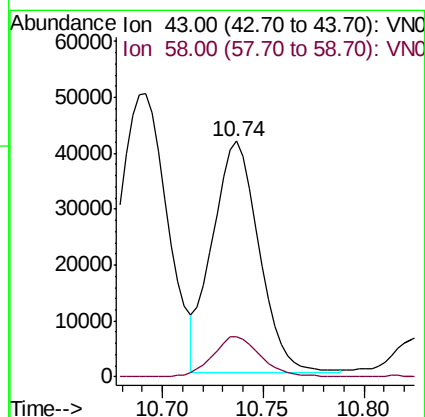
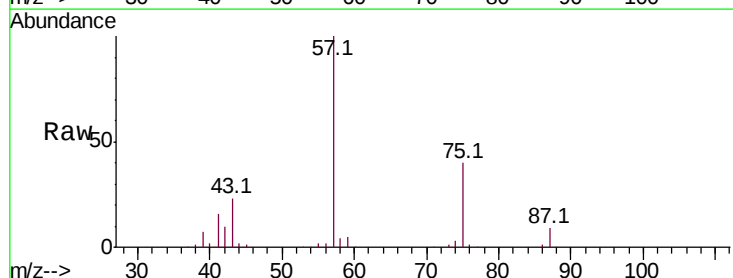
Acq: 17 Sep 2020 5:03

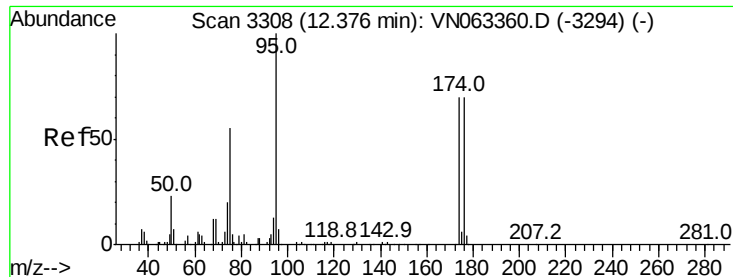
Tgt Ion: 43 Resp: 66726

Ion Ratio Lower Upper

43 100

58 17.9 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 51.375 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-0)

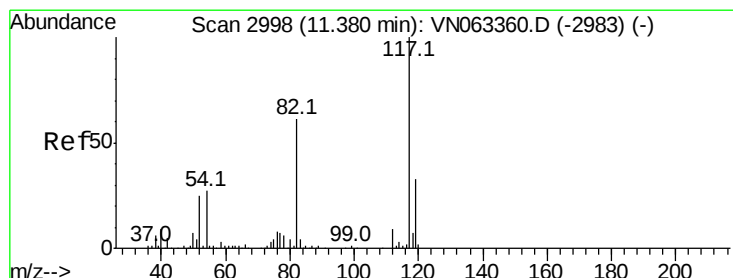
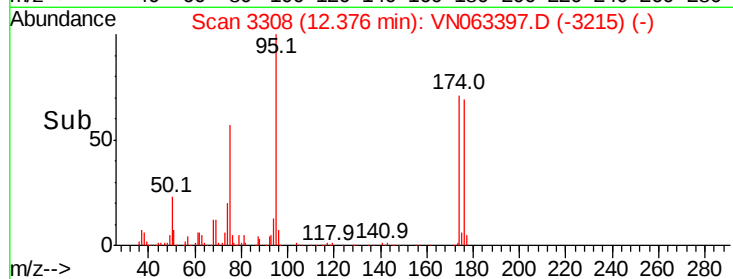
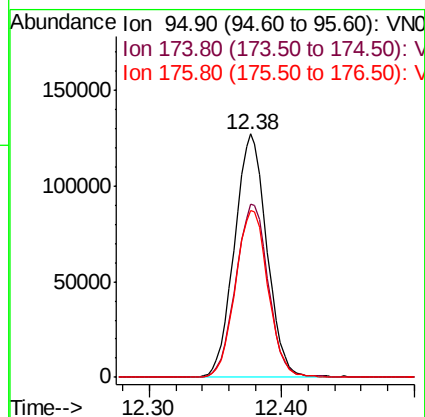
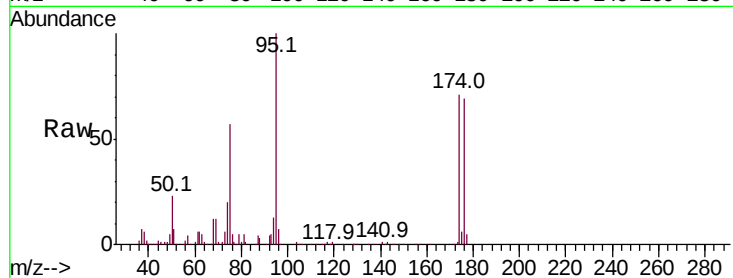
Tot Ion: 95 Resp: 215473

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

176 69.3 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: VN063397.D

Acq: 17 Sep 2020 5:03

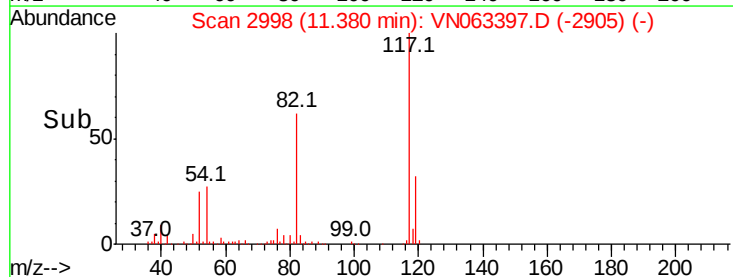
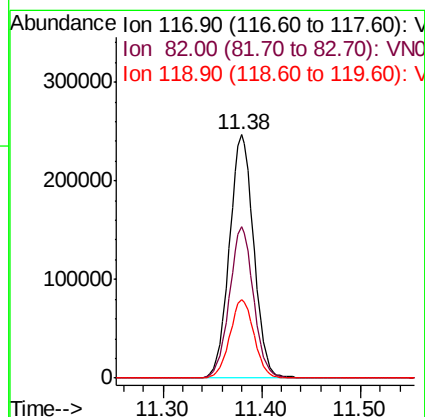
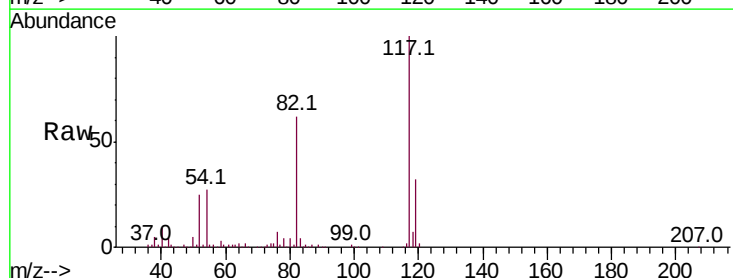
Tgt Ion: 117 Resp: 426015

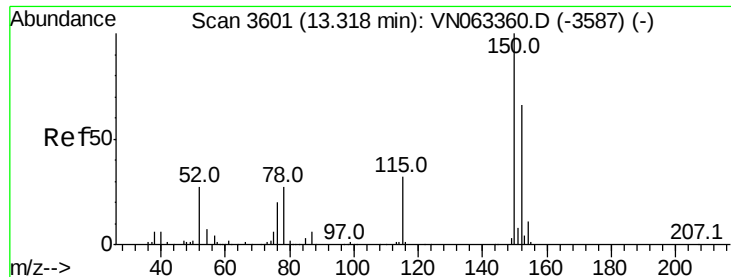
Ion Ratio Lower Upper

117 100

82 62.0 49.2 73.8

119 32.1 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-0)

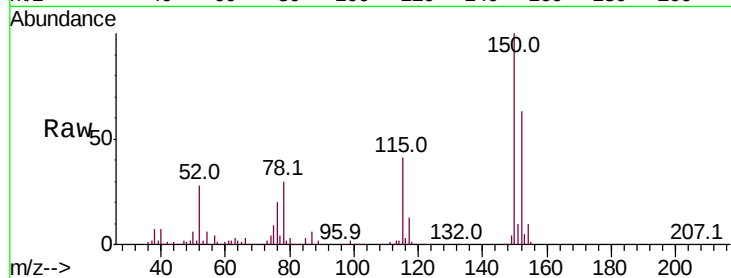
Tot Ion:152 Resp: 182475

Ion Ratio Lower Upper

152 100

115 64.0 32.2 96.6

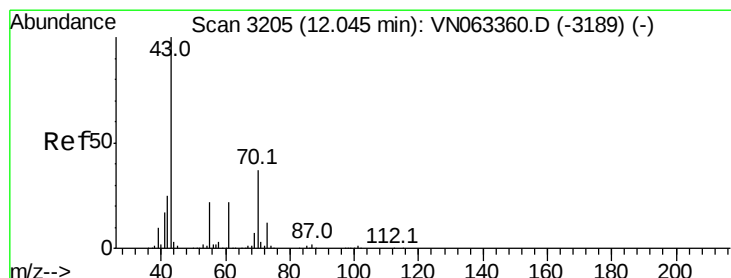
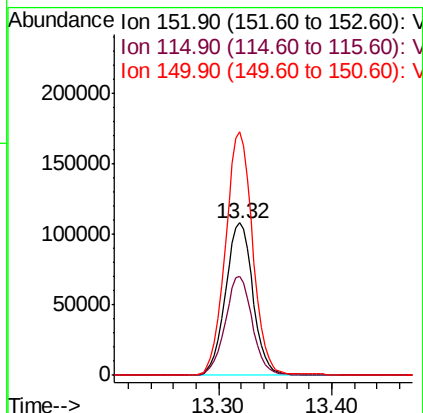
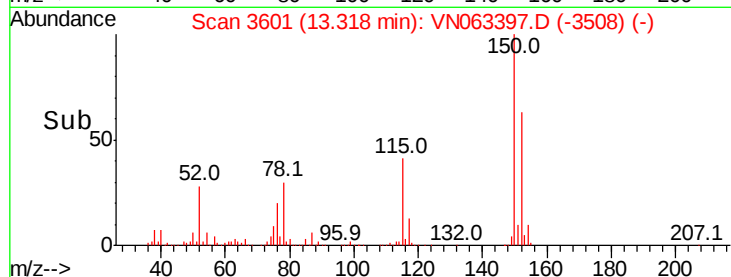
150 157.6 0.0 343.4



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-aryl acetate

Concen: 0.505 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Tgt Ion: 43 Resp: 3498

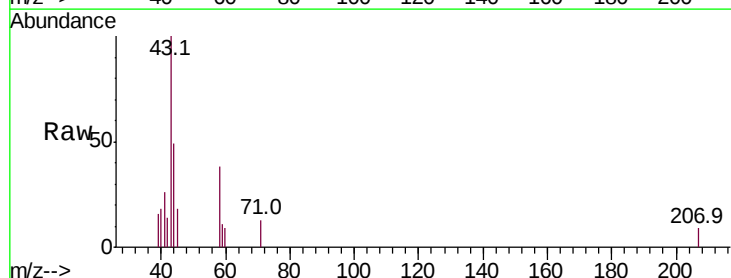
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.9 17.7 26.5#

61 0.0 17.4 26.2#

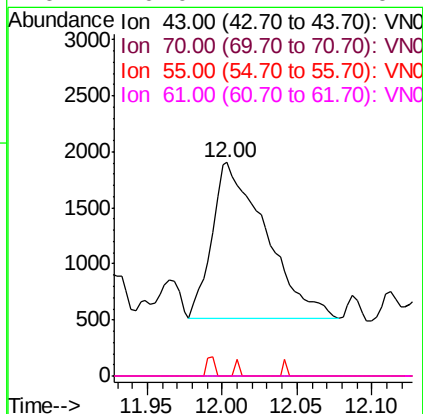
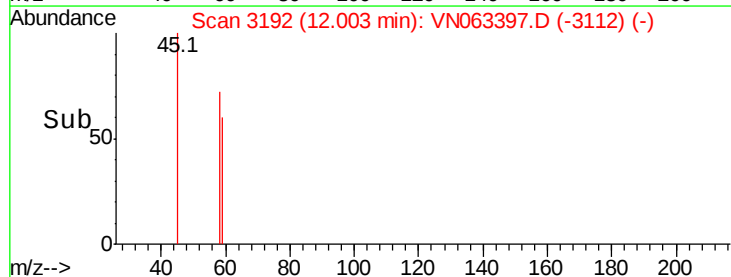


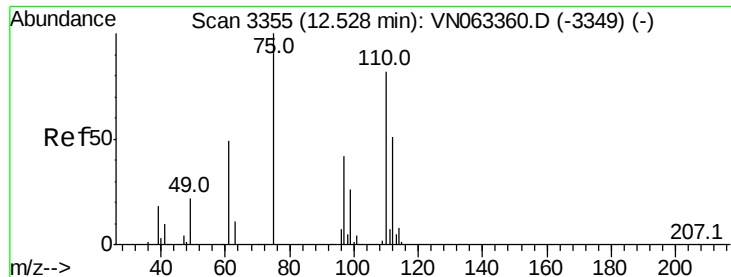
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 27.273 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

Instrument :

MSVOA_N

ClientSampleId :

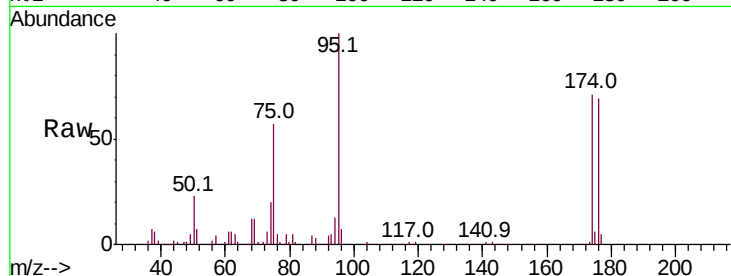
REACTOR-6E-(C-0)

Tot Ion: 75 Resp: 123180

Ion Ratio Lower Upper

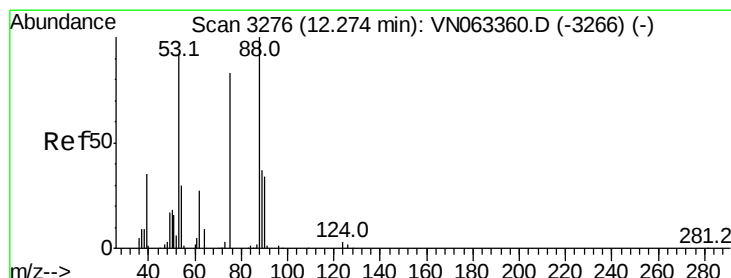
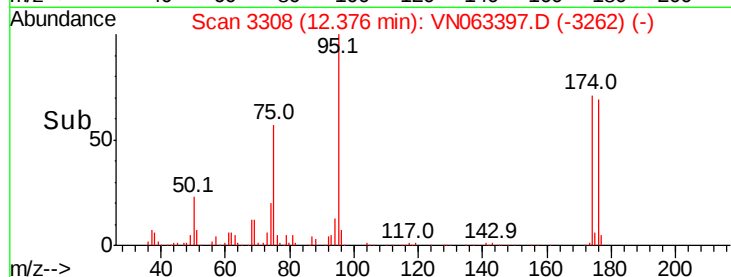
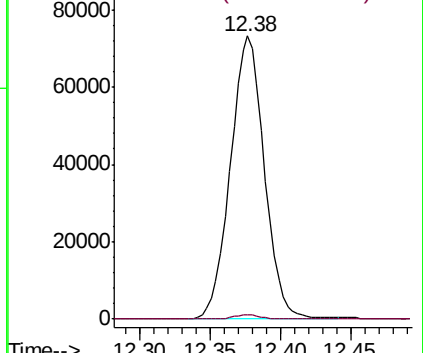
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 74.773 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063397.D

Acq: 17 Sep 2020 5:03

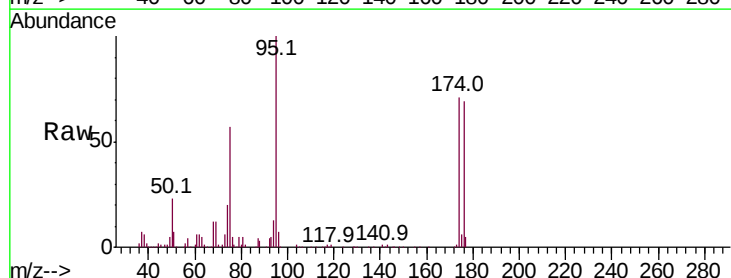
Tgt Ion: 75 Resp: 123180

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

