

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063429.D
 Acq On : 17 Sep 2020 19:12
 Operator : JC/MD
 Sample : L4015-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-5W-(B-4)

Quant Time: Sep 18 02:52:04 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	229910	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	435725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	433564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	181998	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	190069	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
35) Dibromofluoromethane	7.55	113	138794	46.01	ug/l	0.00
Spiked Amount			Recovery	=	92.02%	
50) Toluene-d8	10.06	98	557238	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
62) 4-Bromofluorobenzene	12.38	95	220718	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	

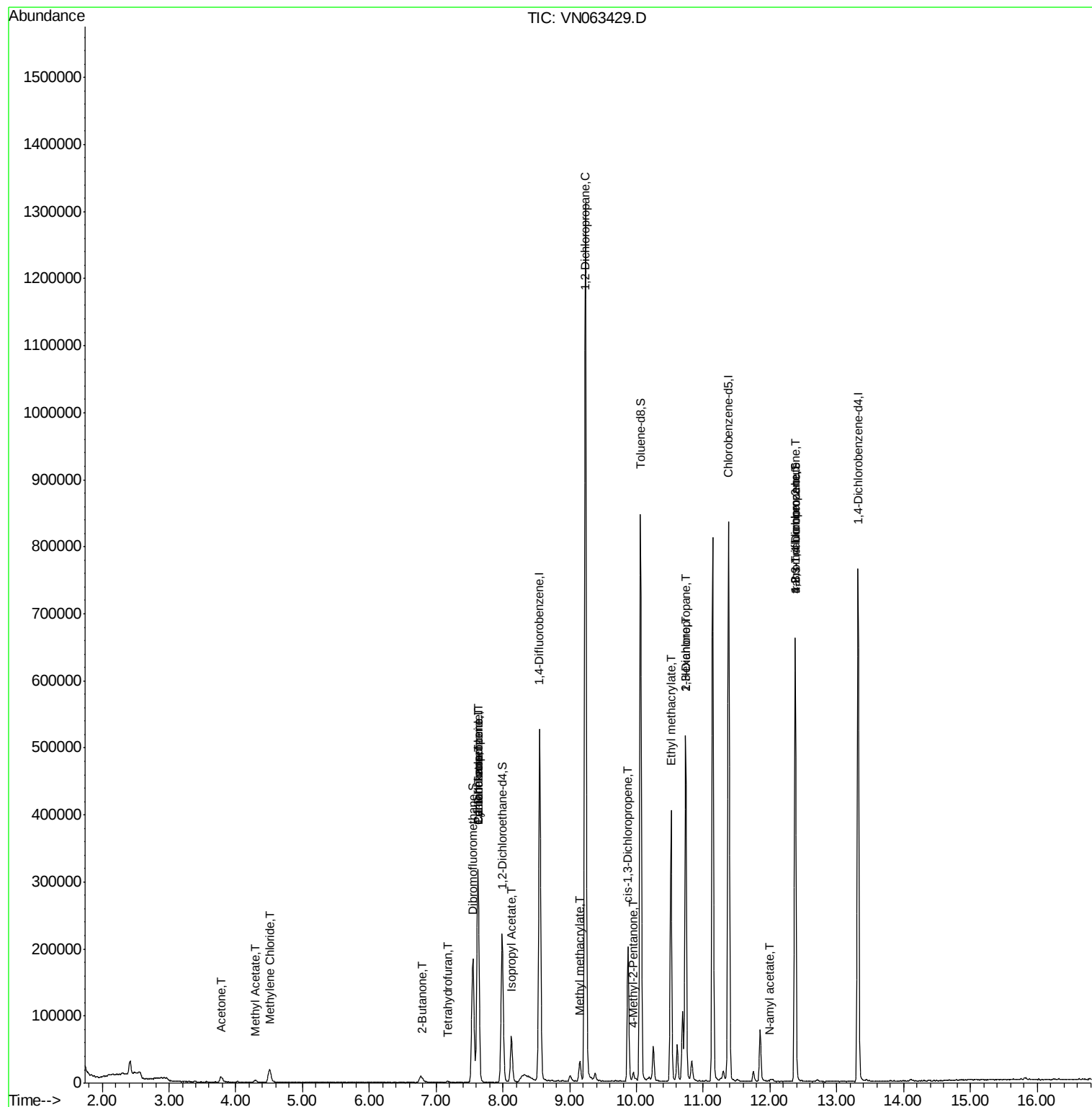
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	15176	12.066	ug/l #	89
18) Methyl Acetate	4.29	43	2440	0.764	ug/l #	59
20) Methylene Chloride	4.51	84	13744	4.313	ug/l	93
25) 2-Butanone	6.80	43	3770	1.949	ug/l	95
29) Tetrahydrofuran	7.17	42	795	0.602	ug/l #	83
31) Cyclohexane	7.63	56	7380	1.365	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	22475	4.842	ug/l #	51
38) Carbon Tetrachloride	7.62	117	24204	5.108	ug/l #	18
43) Isopropyl Acetate	8.13	43	81886	10.052	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1514	0.419	ug/l #	43
48) Methyl methacrylate	9.14	41	4857	1.214	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	9745	2.137	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	31770	5.475	ug/l #	64
56) Ethyl methacrylate	10.52	69	1017	0.206	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4502	0.789	ug/l #	42
59) 2-Hexanone	10.74	43	81614	24.701	ug/l #	54
74) N-amyl acetate	12.01	43	3741	0.542	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	122389	27.169	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122389	74.488	ug/l #	7

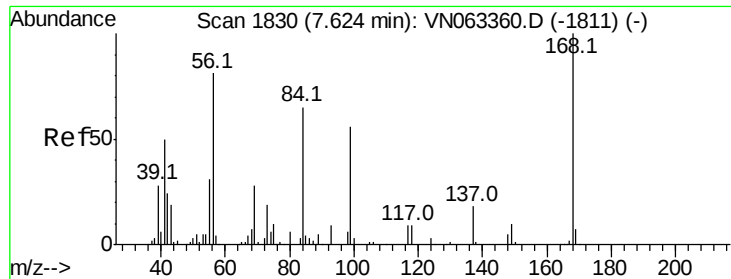
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

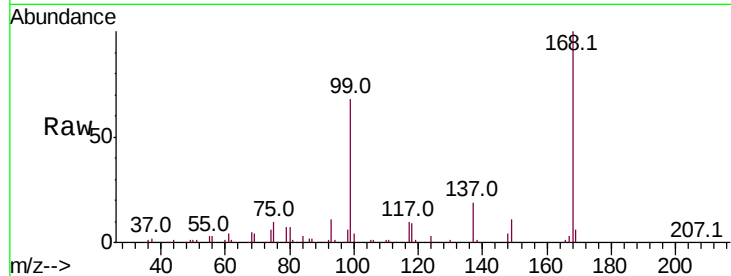
REACTOR-5W-(B-4)

Tot Ion:168 Resp: 229910

Ion Ratio Lower Upper

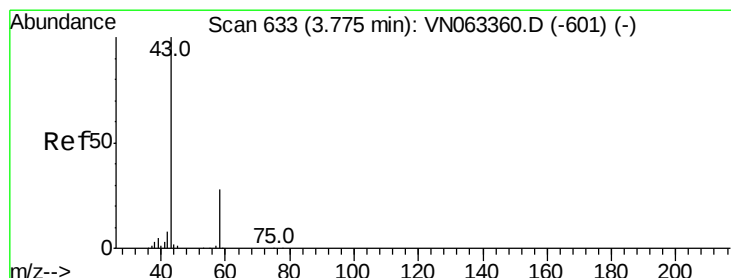
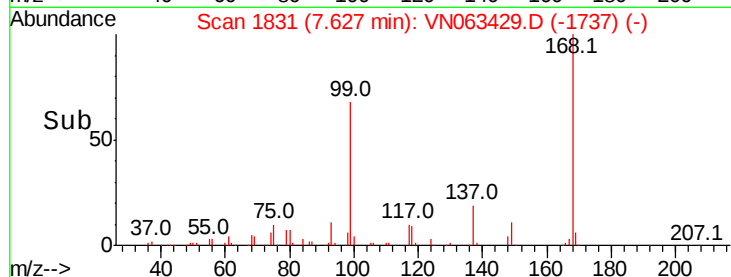
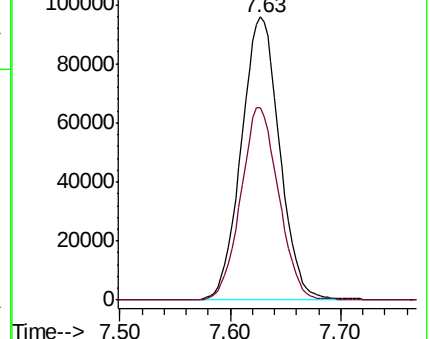
168 100

99 67.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 12.066 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063429.D

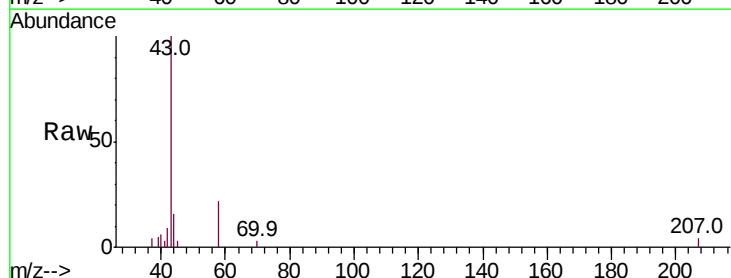
Acq: 17 Sep 2020 19:12

Tgt Ion: 43 Resp: 15176

Ion Ratio Lower Upper

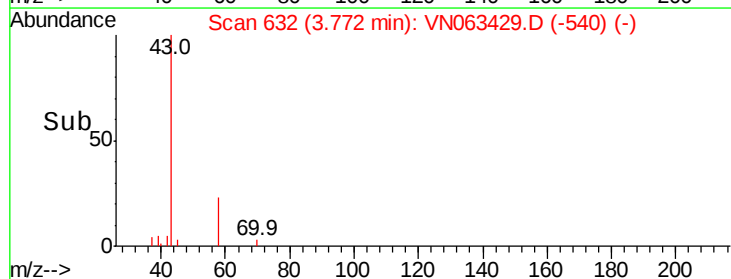
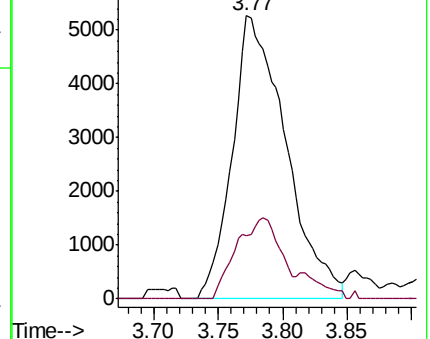
43 100

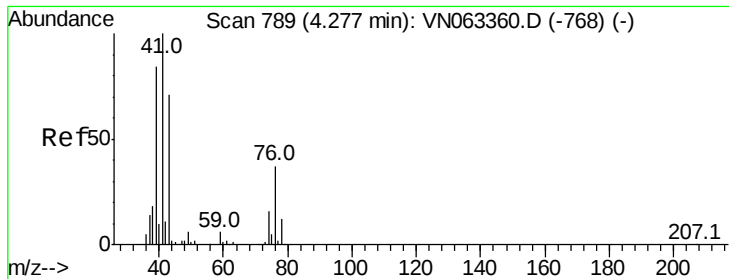
58 22.1 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

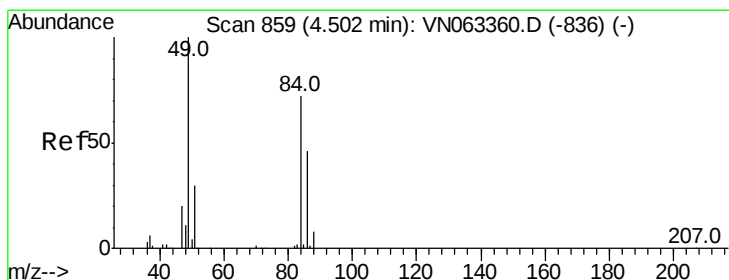
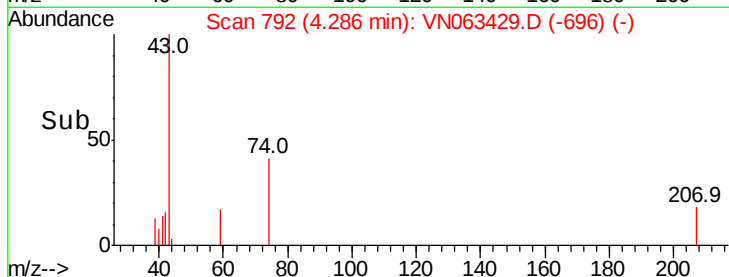
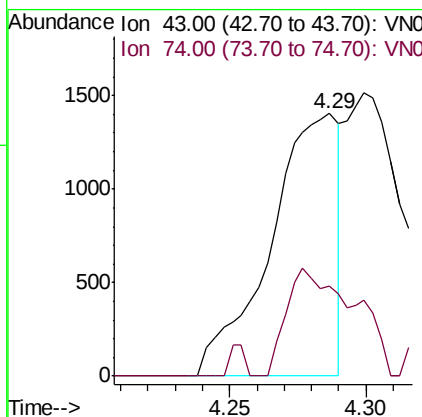
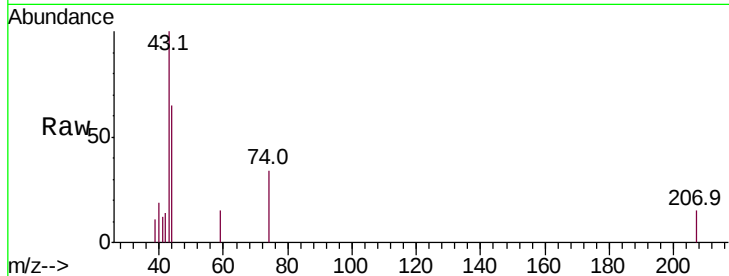




#18
Methyl Acetate
Concen: 0.764 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063429.D
Acq: 17 Sep 2020 19:12

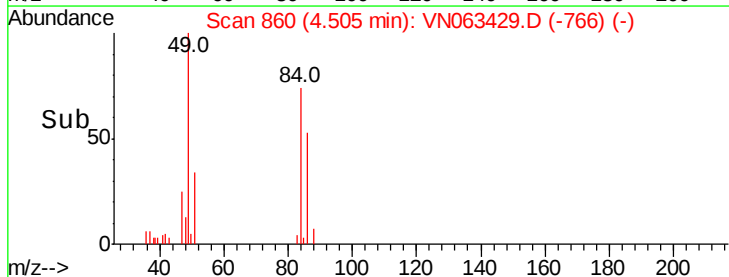
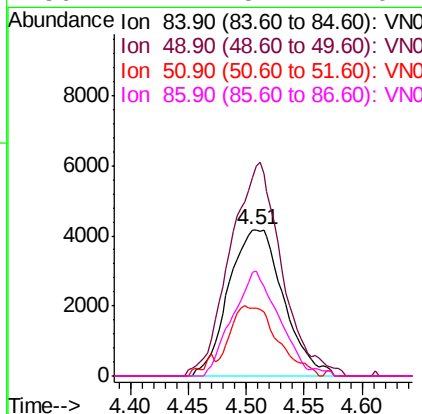
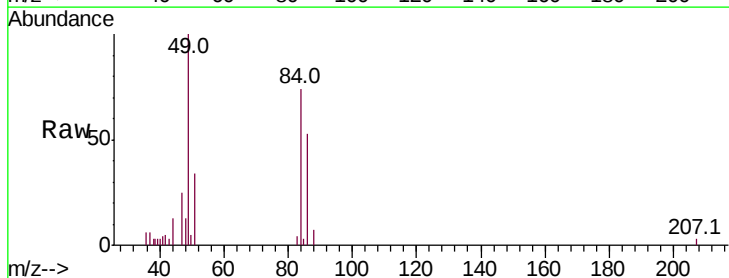
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(B-4)

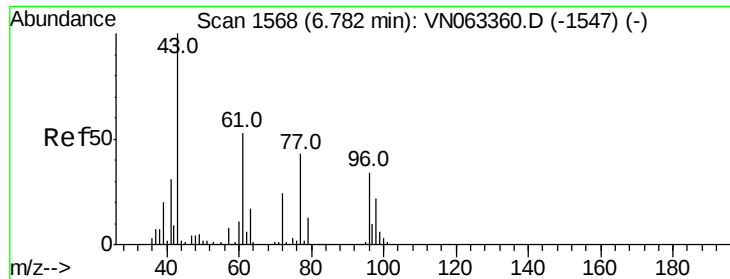
Tot Ion: 43 Resp: 2440
Ion Ratio Lower Upper
43 100
74 41.2 17.4 26.2#



#20
Methylene Chloride
Concen: 4.313 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063429.D
Acq: 17 Sep 2020 19:12

Tgt Ion: 84 Resp: 13744
Ion Ratio Lower Upper
84 100
49 131.5 110.7 166.1
51 46.3 32.9 49.3
86 71.4 51.1 76.7





#25

2-Butanone

Concen: 1.949 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

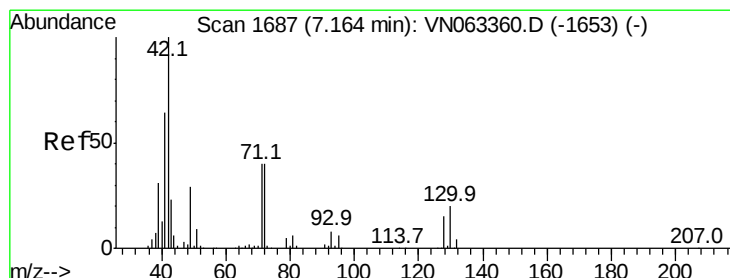
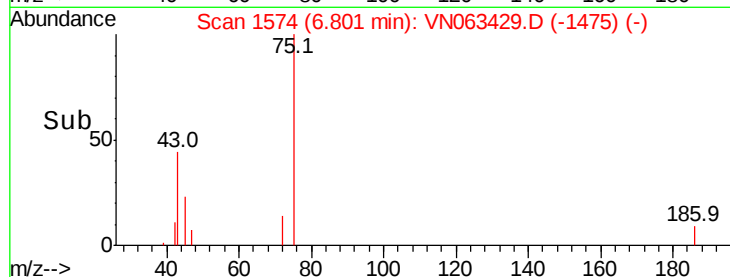
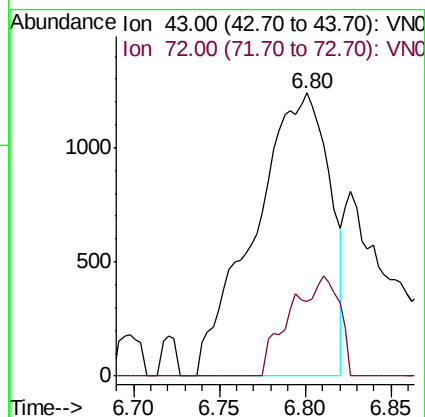
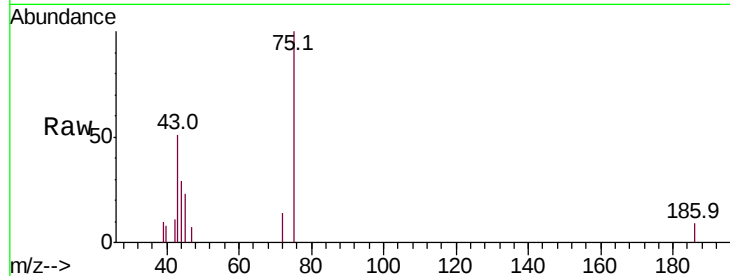
REACTOR-5W-(B-4)

Tot Ion: 43 Resp: 3770

Ion Ratio Lower Upper

43 100

72 26.5 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.602 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

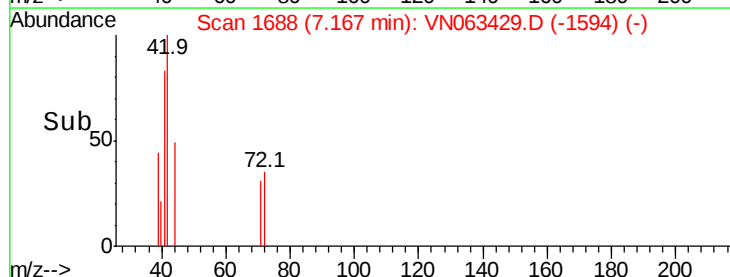
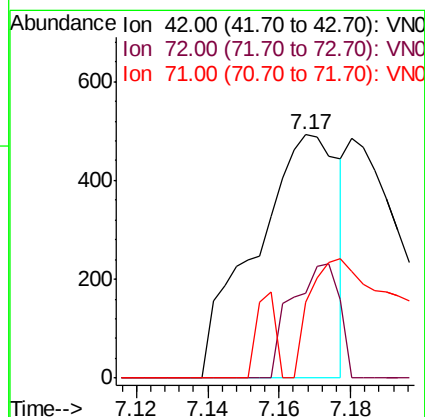
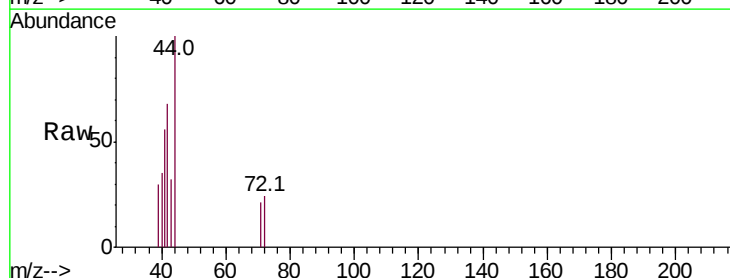
Tgt Ion: 42 Resp: 795

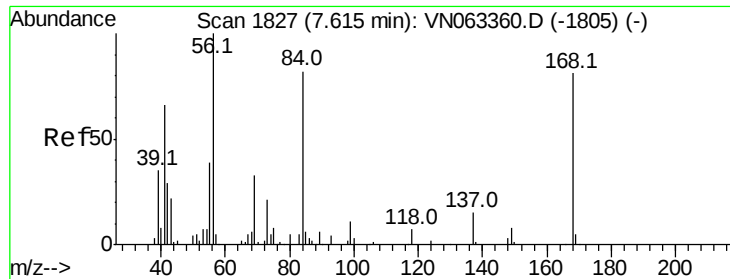
Ion Ratio Lower Upper

42 100

72 26.8 32.1 48.1#

71 46.5 31.2 46.8

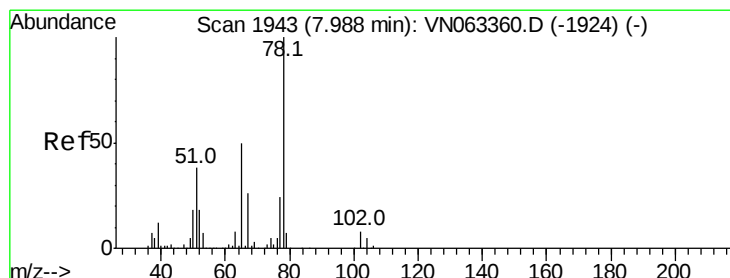
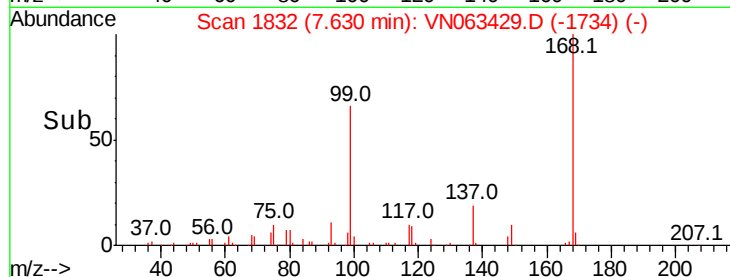
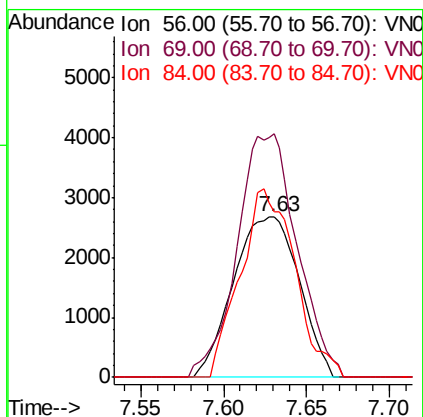
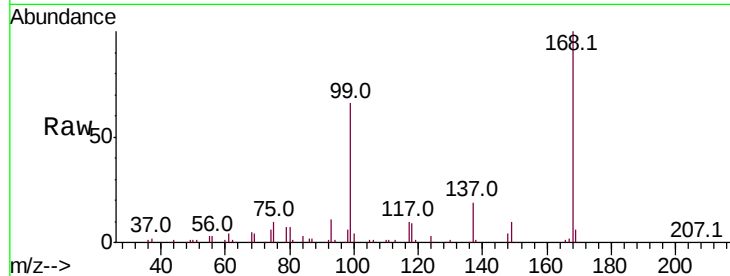




#31
Cyclohexane
Concen: 1.365 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063429.D
Acq: 17 Sep 2020 19:12

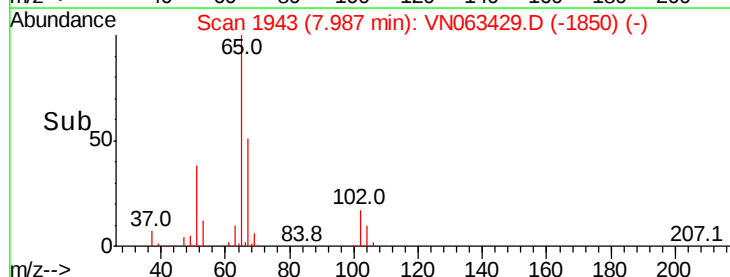
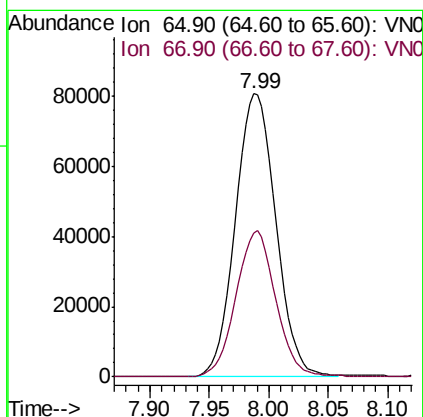
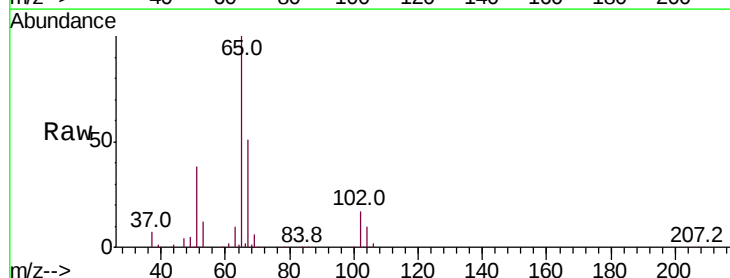
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(B-4)

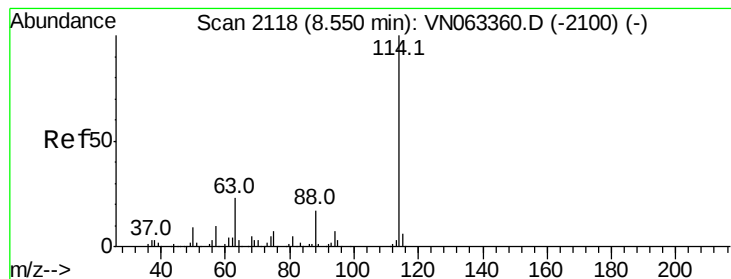
Tot Ion: 56 Resp: 7380
Ion Ratio Lower Upper
56 100
69 151.8 26.1 39.1#
84 103.5 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 48.565 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063429.D
Acq: 17 Sep 2020 19:12

Tgt Ion: 65 Resp: 190069
Ion Ratio Lower Upper
65 100
67 50.8 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-4)

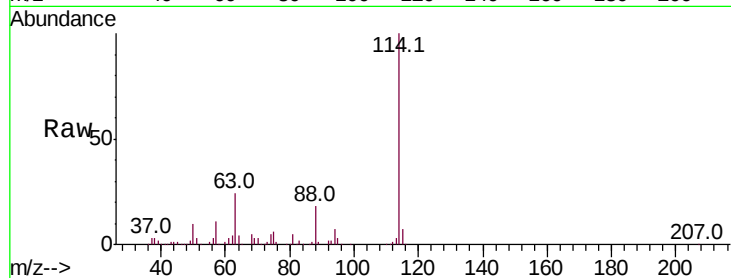
Tot Ion:114 Resp: 435725

Ion Ratio Lower Upper

114 100

63 23.5 0.0 46.4

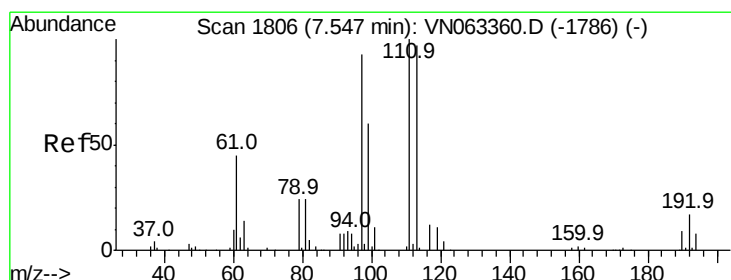
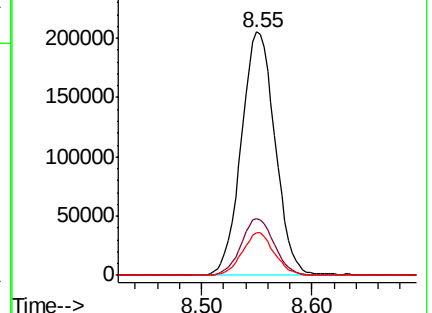
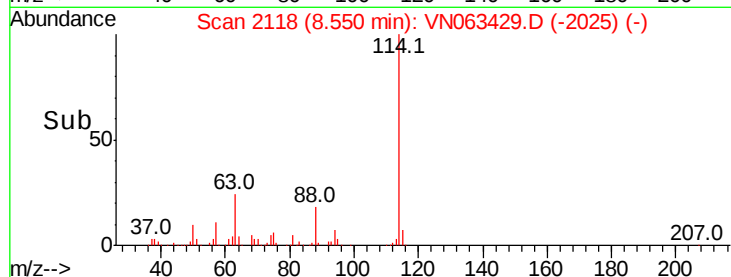
88 17.5 0.0 33.2



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: 46.013 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

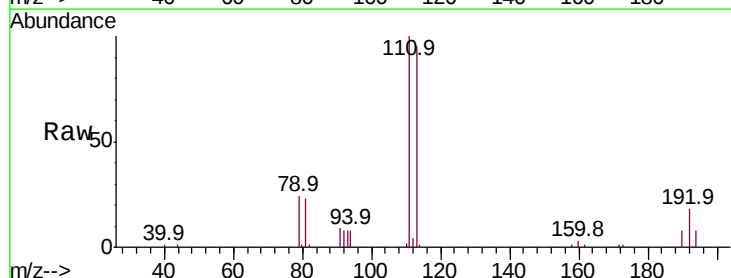
Tgt Ion:113 Resp: 138794

Ion Ratio Lower Upper

113 100

111 104.4 82.9 124.3

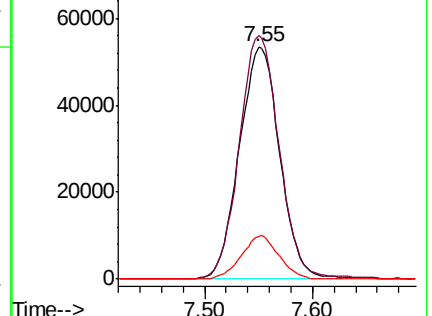
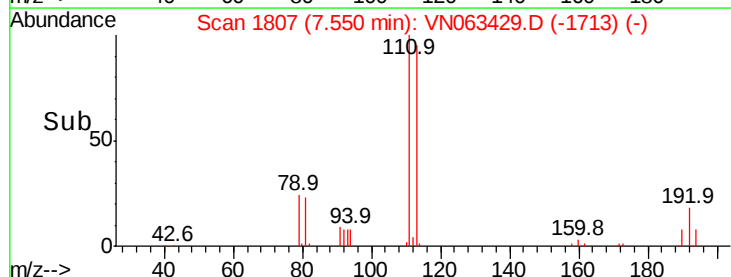
192 17.4 13.9 20.9

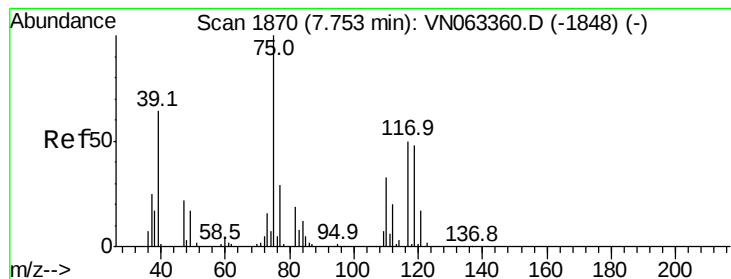


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.842 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063429.D

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REACTOR-5W-(B-4)

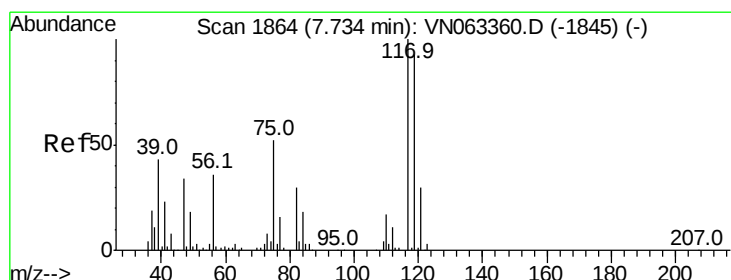
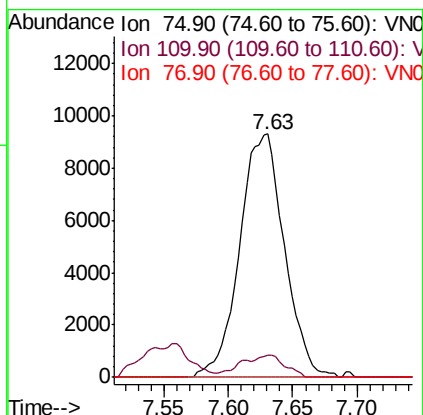
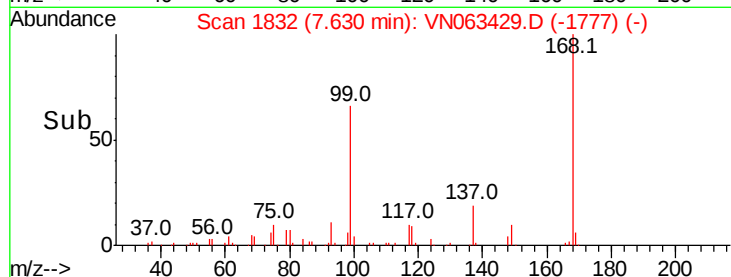
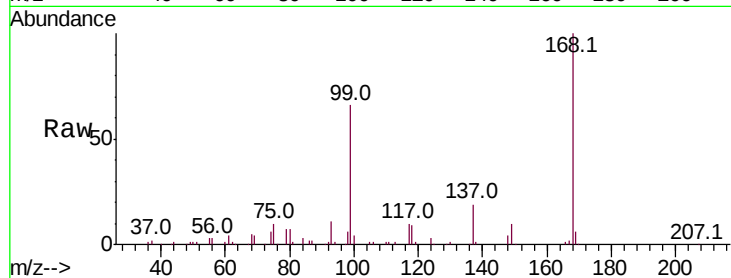
Tot Ion: 75 Resp: 22475

Ion Ratio Lower Upper

75 100

110 8.8 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.108 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

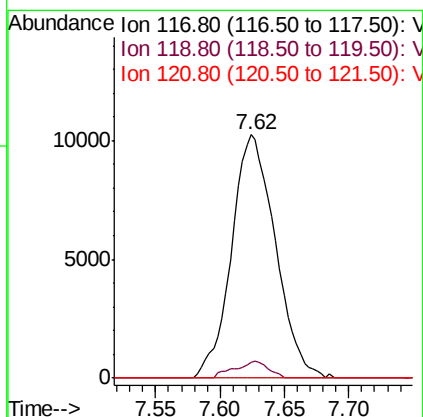
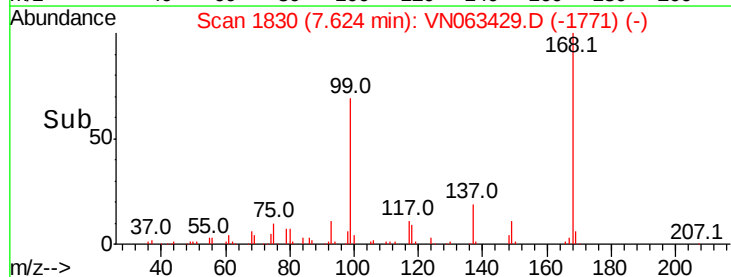
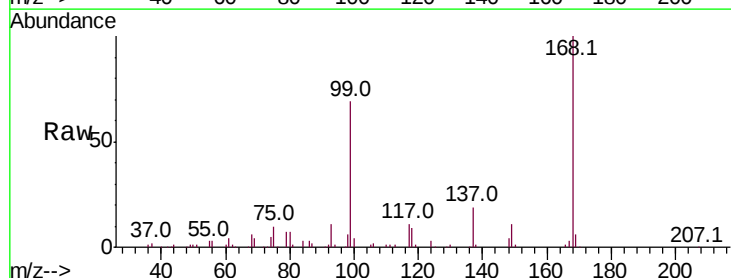
Tgt Ion: 117 Resp: 24204

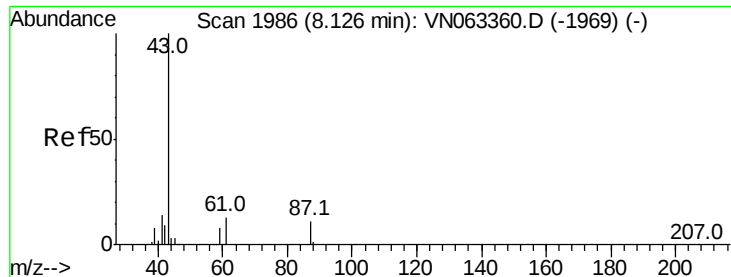
Ion Ratio Lower Upper

117 100

119 6.3 74.5 111.7#

121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 10.052 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

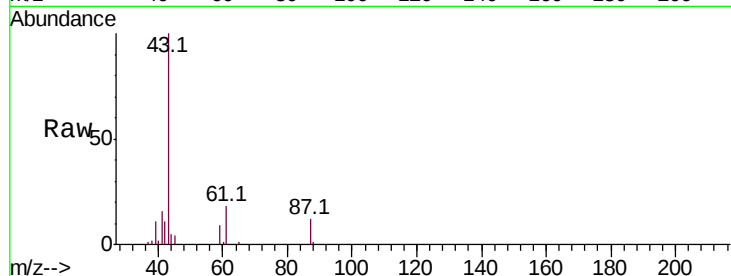
MSVOA_N

ClientSampleId :

REACTOR-5W-(B-4)

Tot Ion: 43 Resp: 81886

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.2	21.2
87	11.4	9.0	13.6

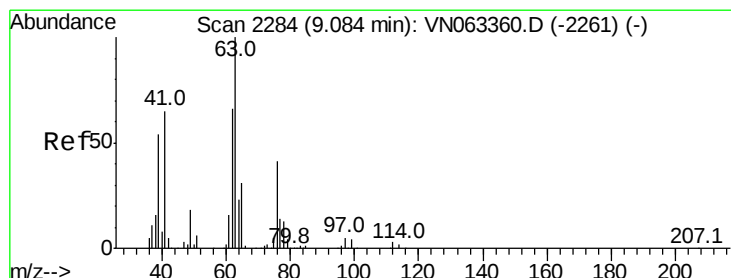
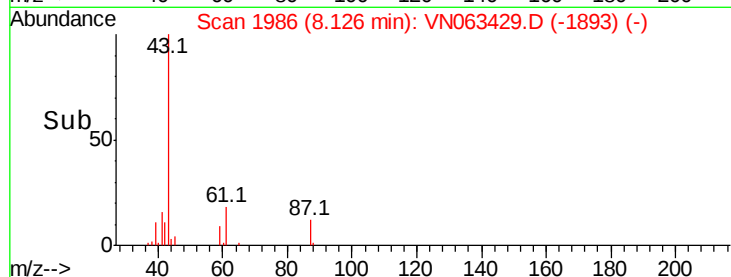
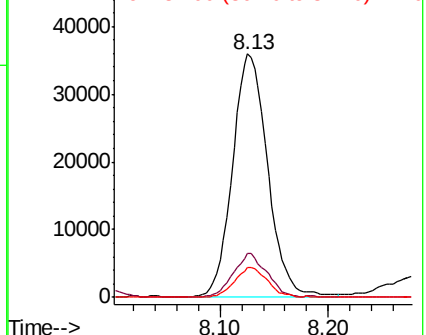


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.419 ug/l

RT: 9.23 min Scan# 2331

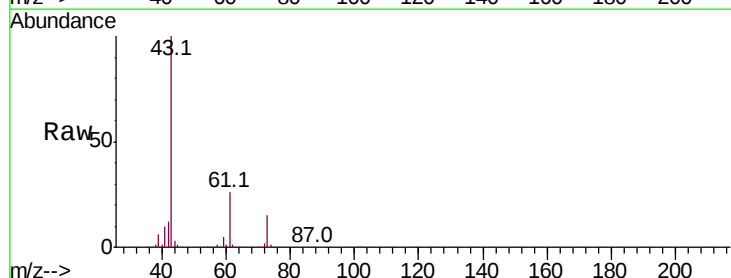
Delta R.T. 0.15 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Tgt Ion: 63 Resp: 1514

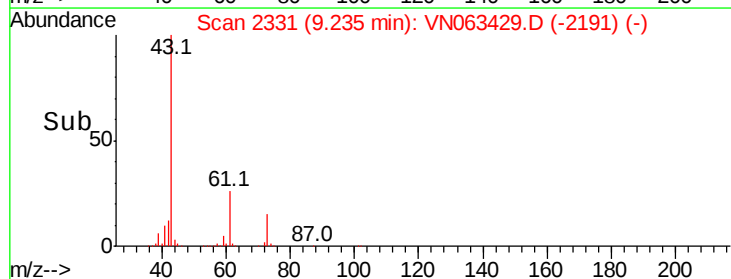
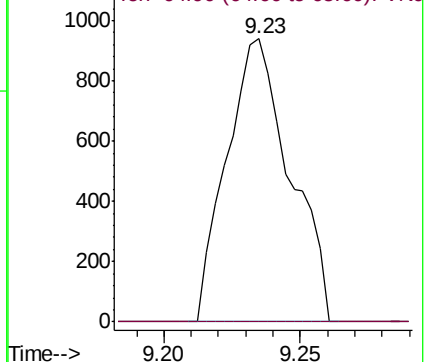
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.6#

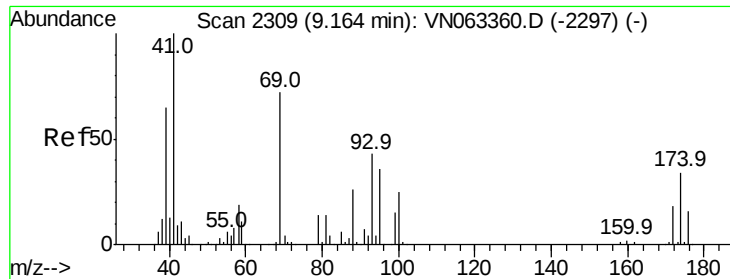


Abundance

Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methvl methacrylate

Concen: 1.214 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-4)

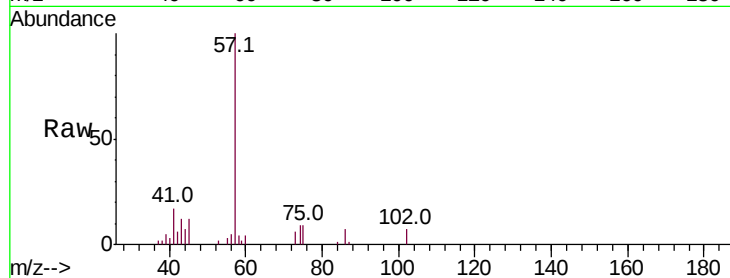
Tot Ion: 41 Resp: 4857

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

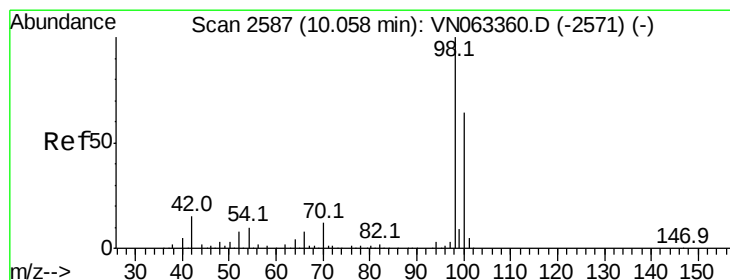
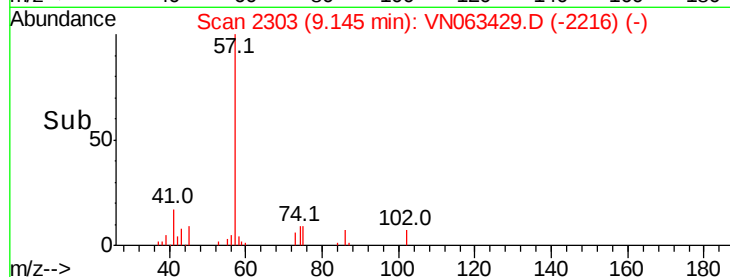
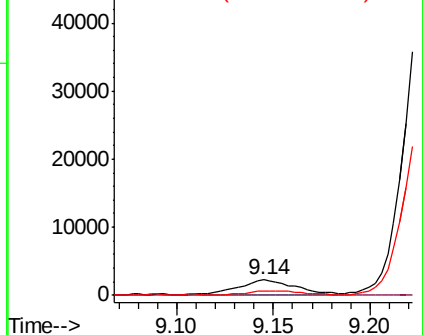
39 0.0 52.9 79.3#



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: 49.129 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063429.D

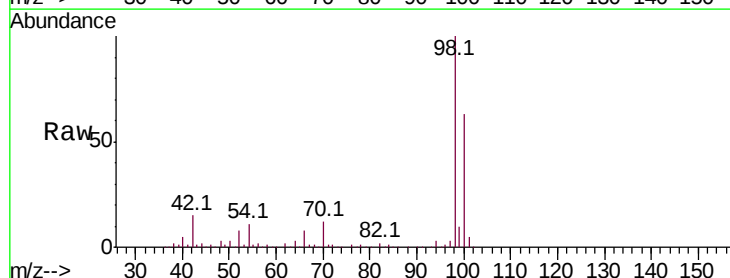
Acq: 17 Sep 2020 19:12

Tgt Ion: 98 Resp: 557238

Ion Ratio Lower Upper

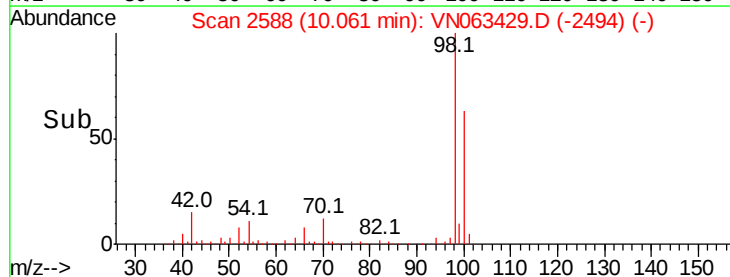
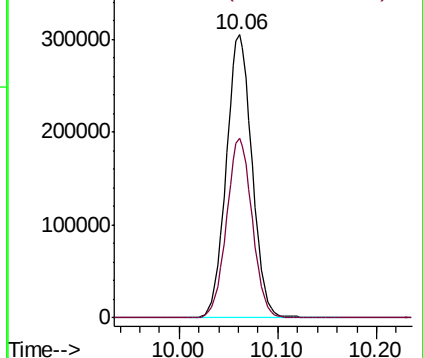
98 100

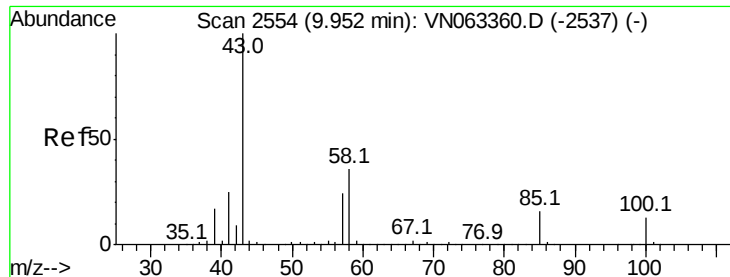
100 63.3 50.7 76.1



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: 2.137 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

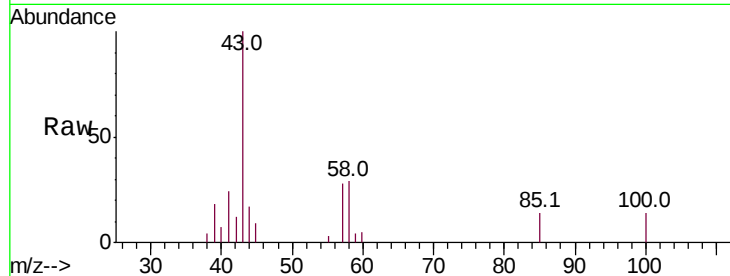
REACTOR-5W-(B-4)

Tot Ion: 43 Resp: 9745

Ion Ratio Lower Upper

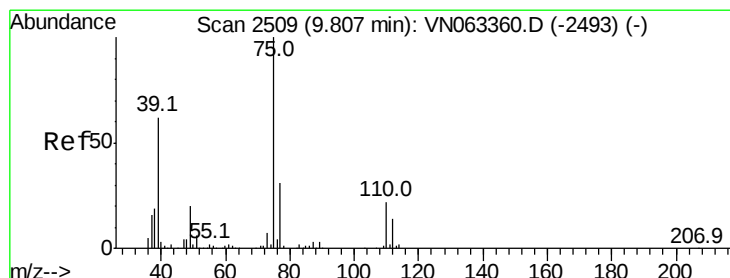
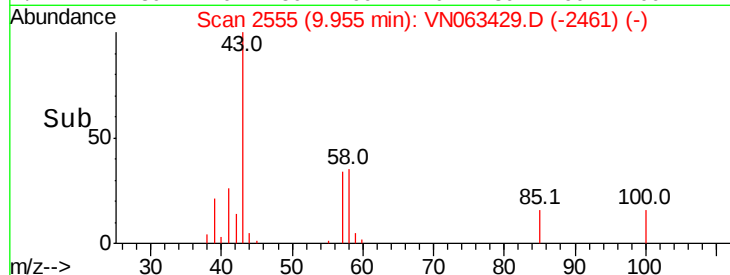
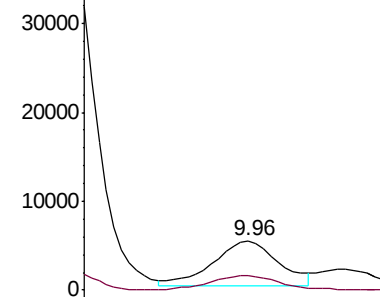
43 100

58 34.6 29.0 43.6



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

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.475 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

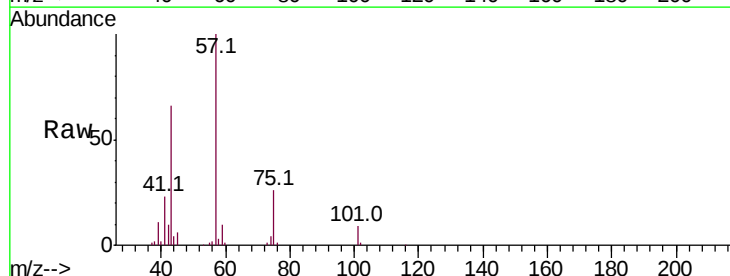
Tgt Ion: 75 Resp: 31770

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

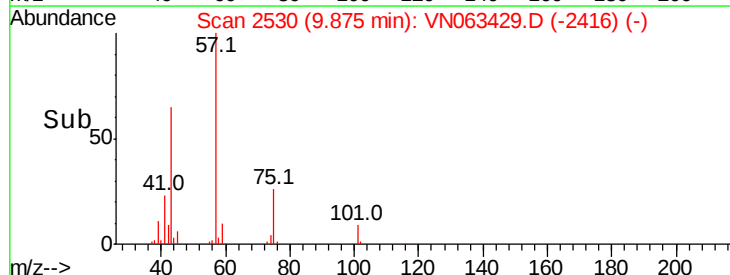
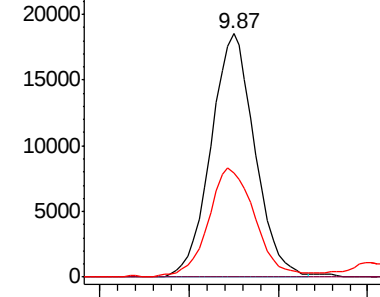
39 41.8 49.8 74.8#

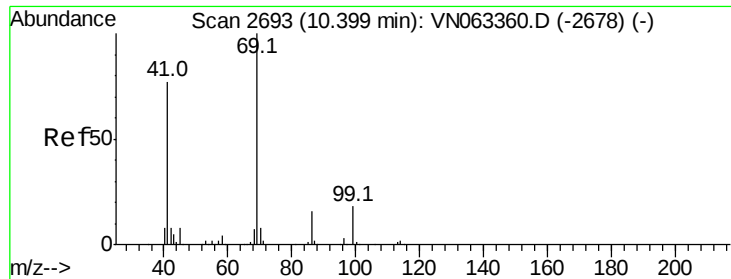


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.206 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-4)

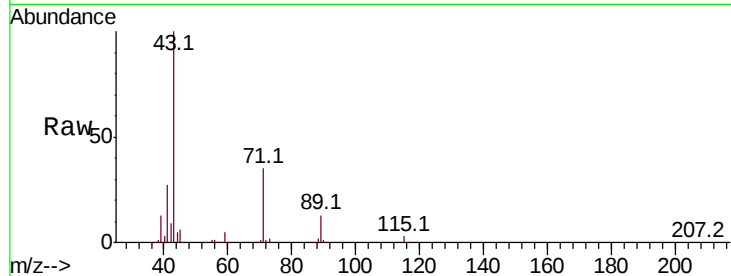
Tot Ion: 69 Resp: 1017

Ion Ratio Lower Upper

69 100

41 8023.5 61.0 91.6#

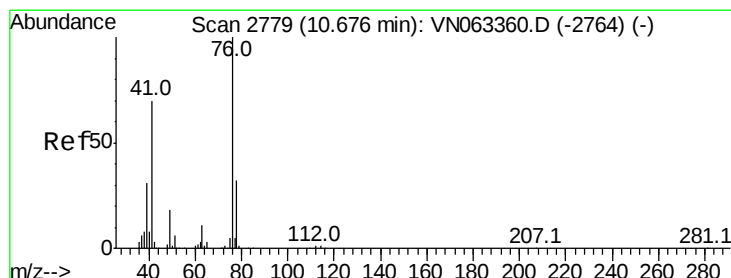
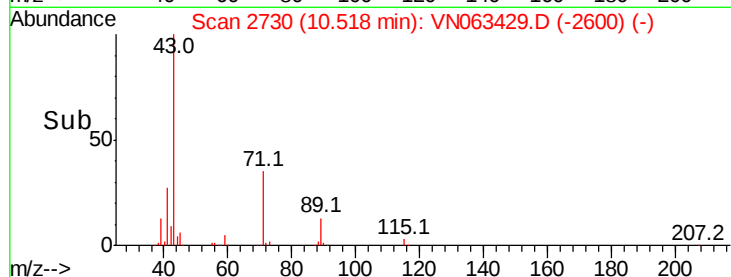
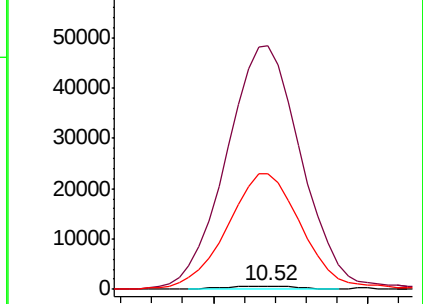
39 3836.8 39.2 58.8#



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: 0.789 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063429.D

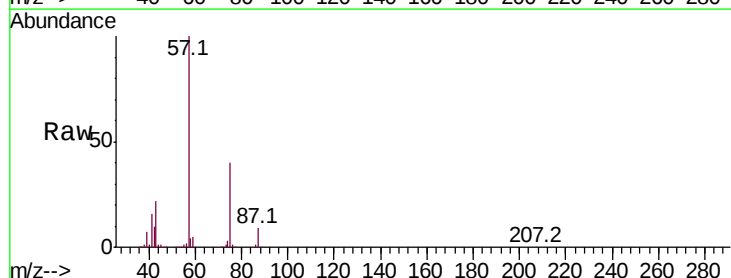
Acq: 17 Sep 2020 19:12

Tgt Ion: 76 Resp: 4502

Ion Ratio Lower Upper

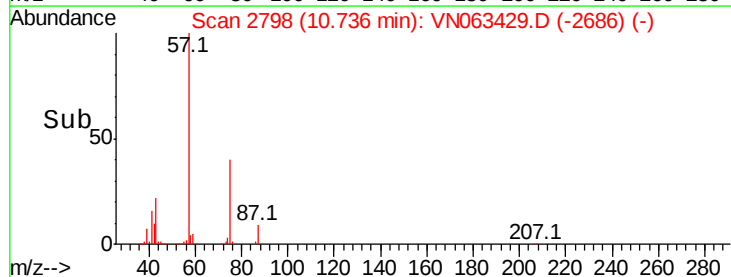
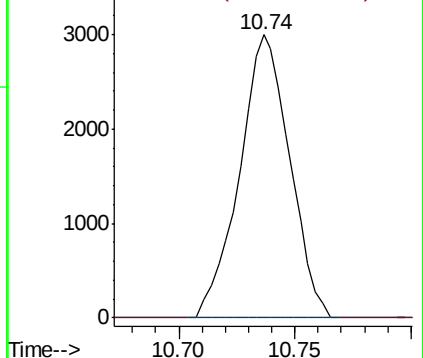
76 100

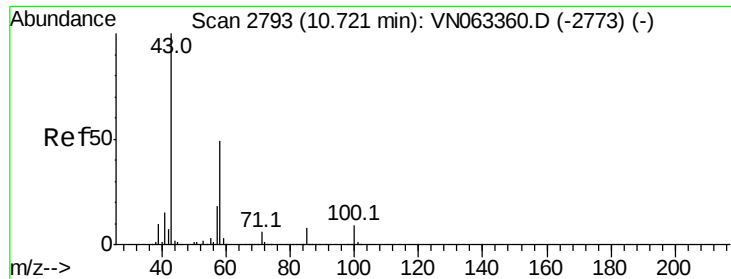
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 24.701 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

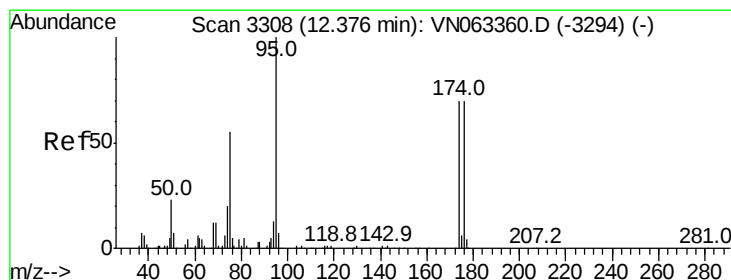
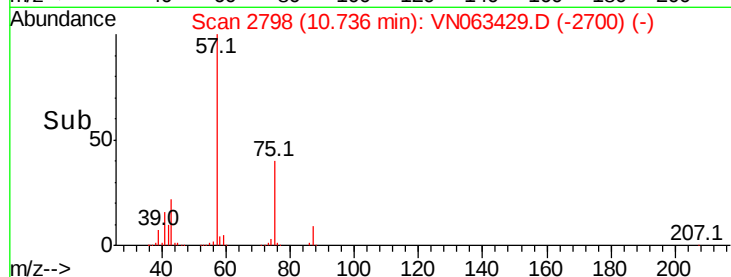
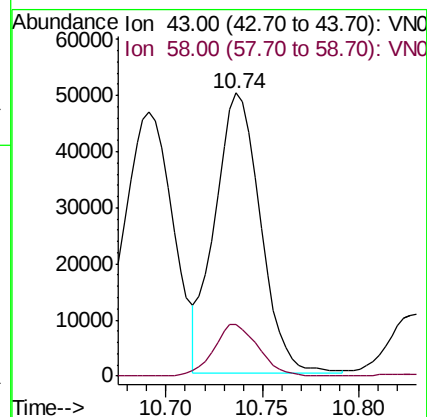
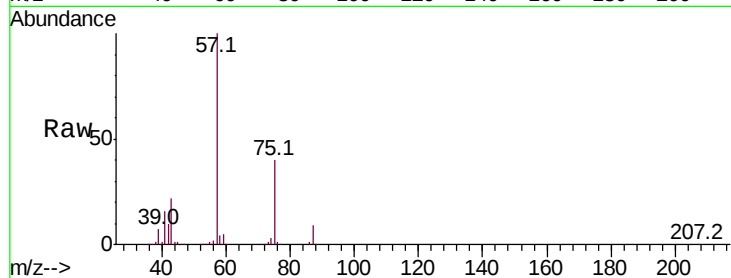
REACTOR-5W-(B-4)

Tot Ion: 43 Resp: 81614

Ion Ratio Lower Upper

43 100

58 18.1 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.084 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

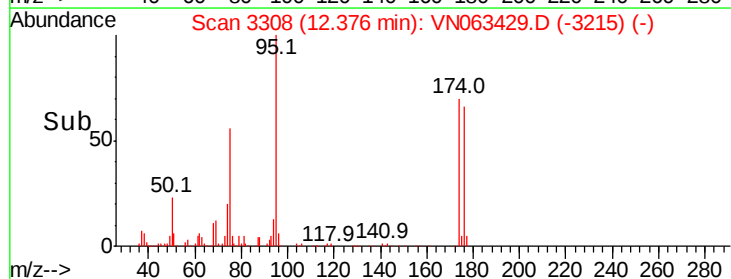
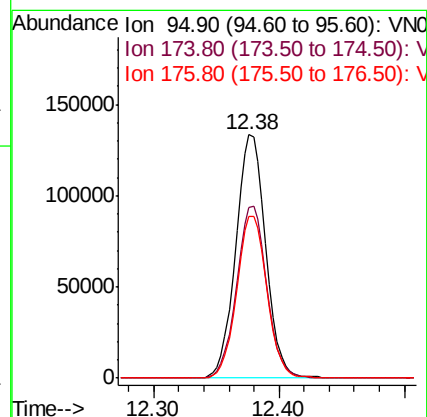
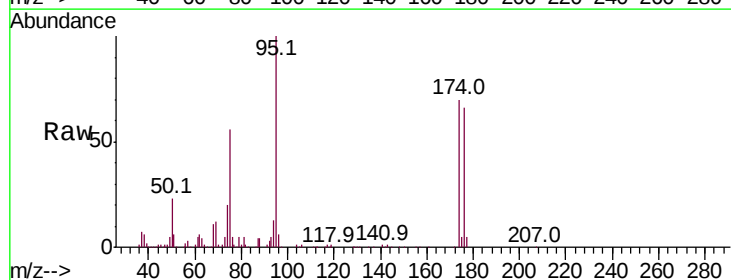
Tgt Ion: 95 Resp: 220718

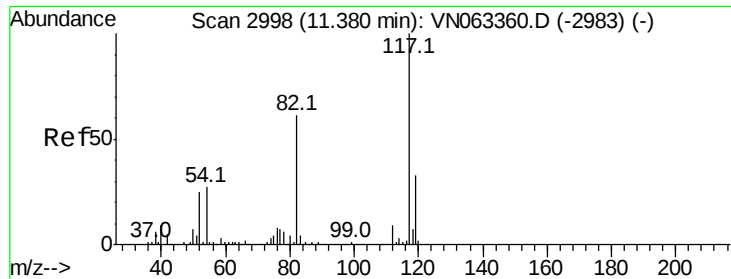
Ion Ratio Lower Upper

95 100

174 70.9 0.0 140.8

176 67.5 0.0 137.6

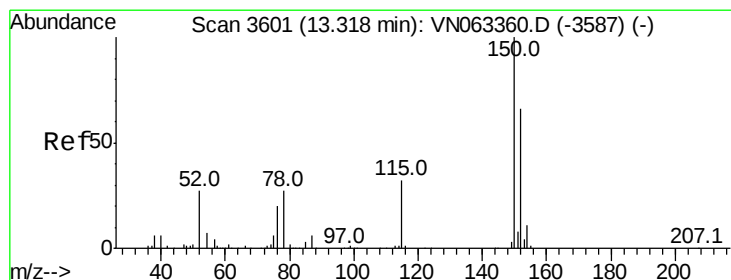
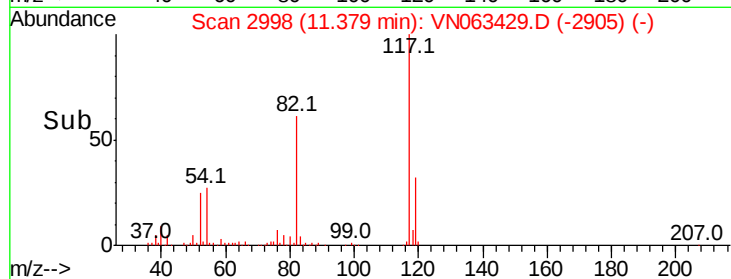
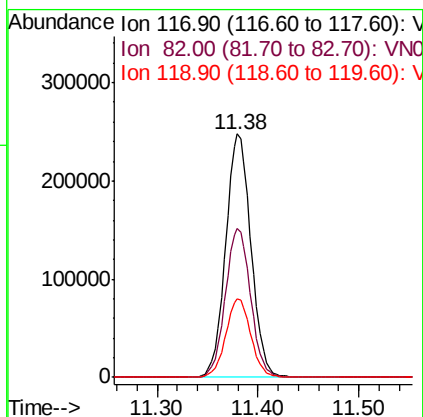
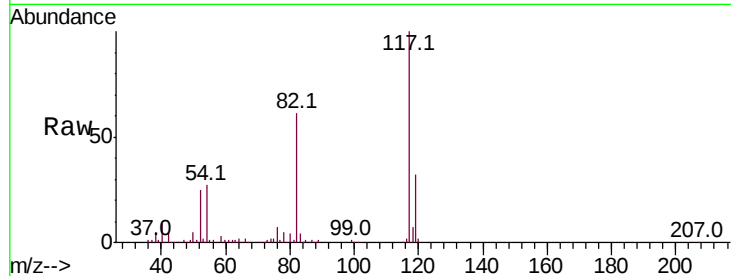




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063429.D
Acq: 17 Sep 2020 19:12

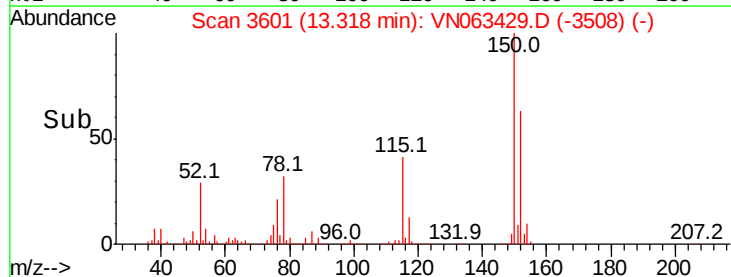
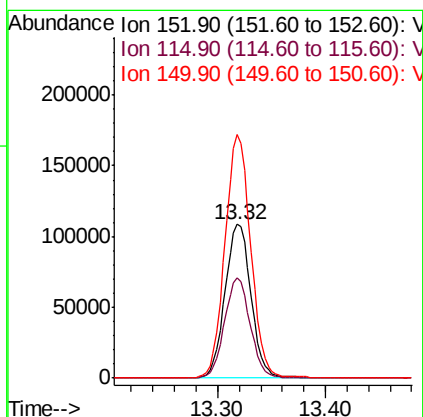
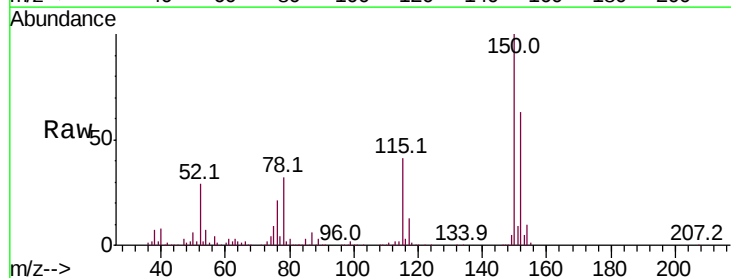
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(B-4)

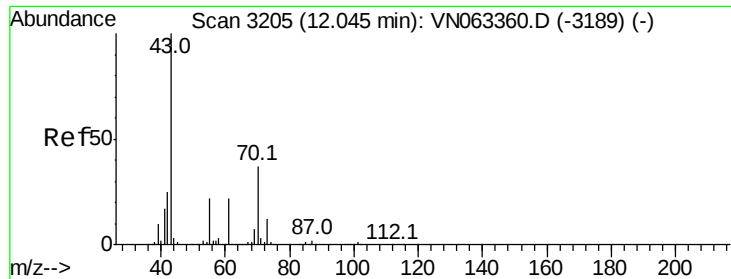
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.4	49.2	73.8
119	32.5	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063429.D
Acq: 17 Sep 2020 19:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.4	32.2	96.6
150	155.9	0.0	343.4





#74

N-amvl acetate

Concen: 0.542 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-4)

Tot Ion: 43 Resp: 3741

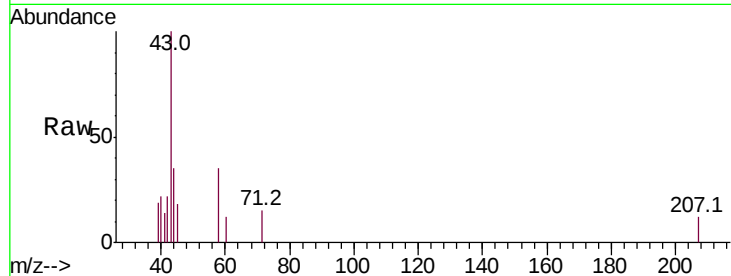
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.5 17.7 26.5#

61 0.0 17.4 26.2#

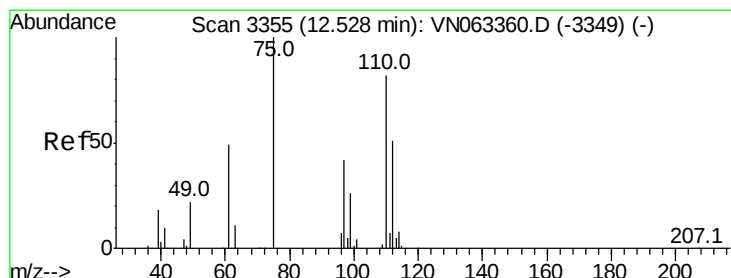
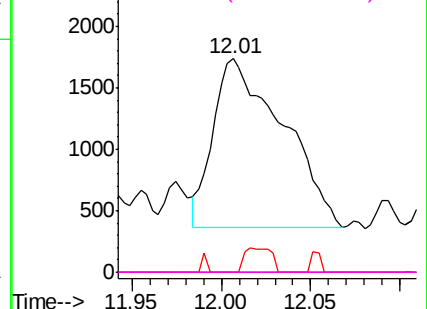
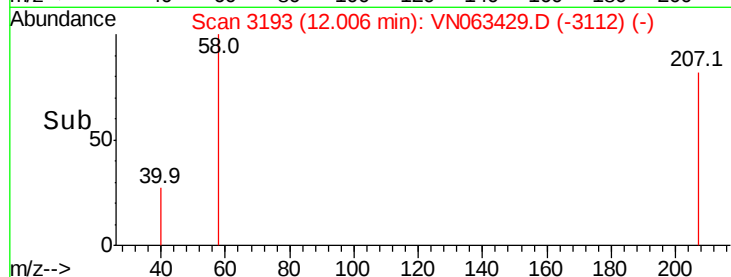


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.169 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063429.D

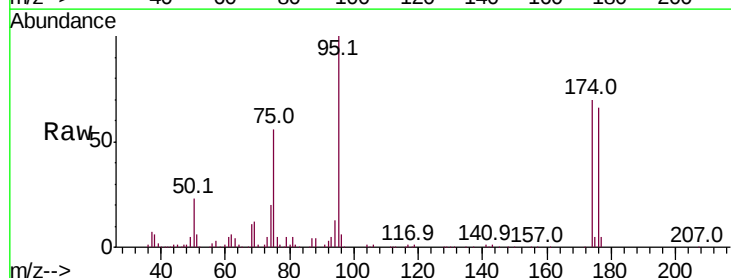
Acq: 17 Sep 2020 19:12

Tgt Ion: 75 Resp: 122389

Ion Ratio Lower Upper

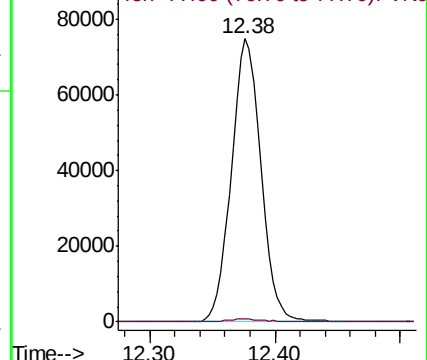
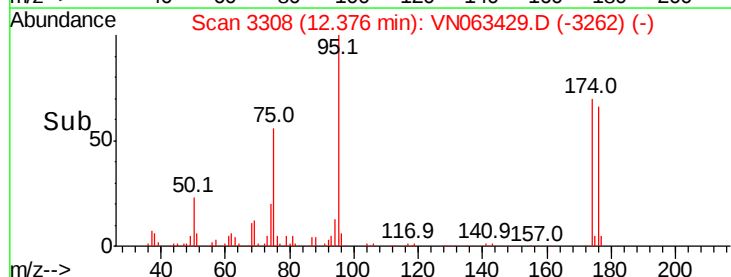
75 100

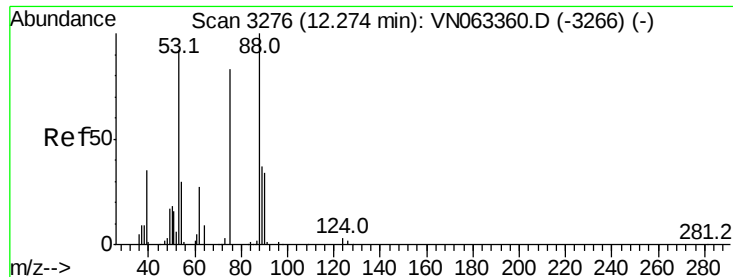
77 1.2 0.0 0.0#



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: 74.488 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063429.D

Acq: 17 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-4)

Tot Ion: 75 Resp: 122389

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

