

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063431.D
 Acq On : 17 Sep 2020 20:00
 Operator : JC/MD
 Sample : L4015-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

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

Quant Time: Sep 18 02:52:30 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	225511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	423819	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	431333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	186744	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	189803	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
35) Dibromofluoromethane	7.55	113	138777	47.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.60%	
50) Toluene-d8	10.06	98	557834	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
62) 4-Bromofluorobenzene	12.38	95	221538	54.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.56%	

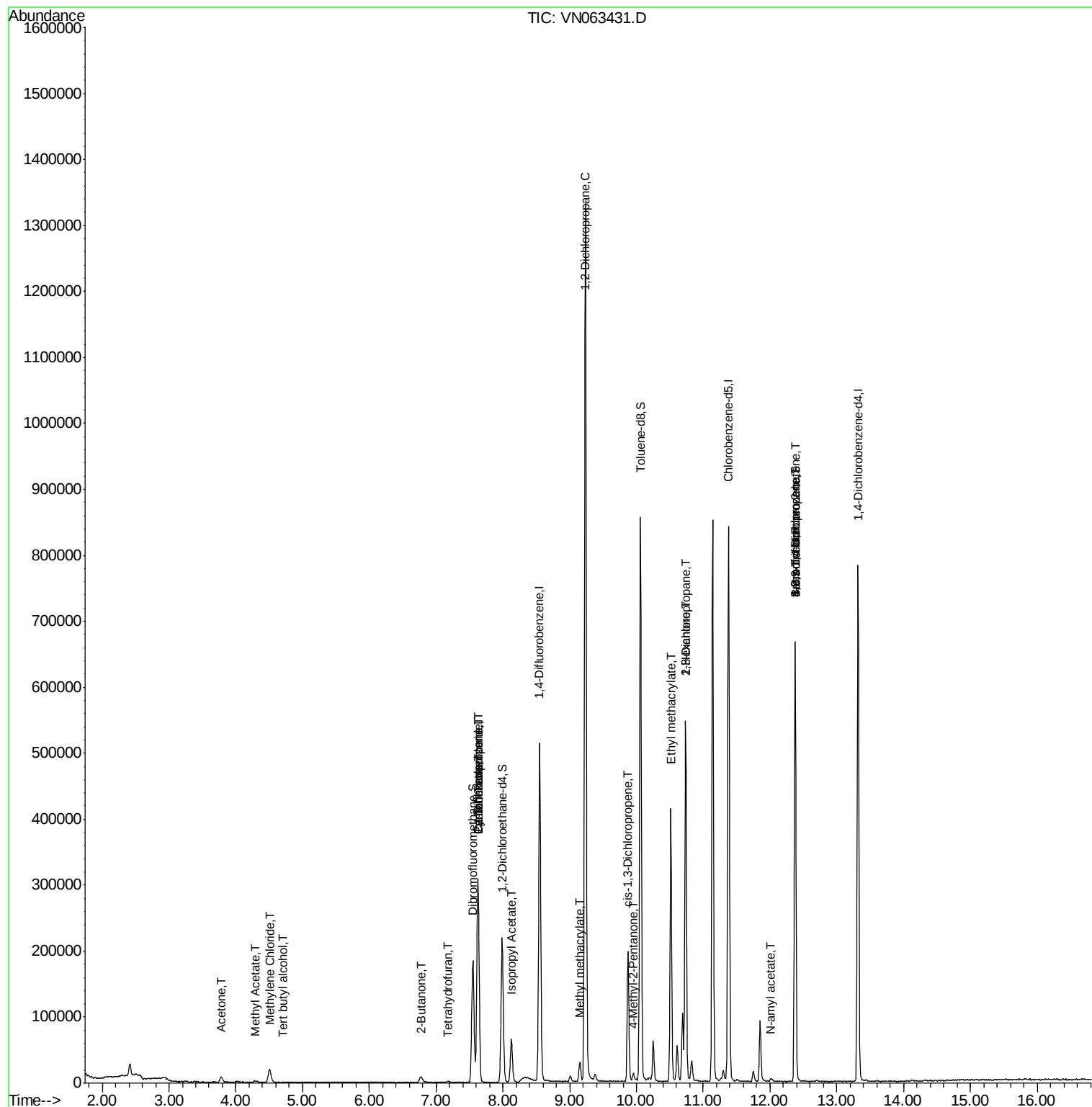
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.71	59	134	0.252	ug/l #	72
16) Acetone	3.78	43	14031	11.373	ug/l	100
18) Methyl Acetate	4.30	43	1668	0.533	ug/l #	90
20) Methylene Chloride	4.51	84	13906	4.449	ug/l	95
25) 2-Butanone	6.79	43	1141	0.601	ug/l #	51
29) Tetrahydrofuran	7.17	42	1095	0.845	ug/l #	69
31) Cyclohexane	7.62	56	6824	1.287	ug/l #	50
36) 1,1-Dichloropropene	7.62	75	20897	4.628	ug/l #	48
38) Carbon Tetrachloride	7.63	117	25194	5.466	ug/l #	17
43) Isopropyl Acetate	8.13	43	81295	10.259	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1508	0.430	ug/l #	43
48) Methyl methacrylate	9.15	41	4203	1.080	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	7520	1.695	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	33546	5.943	ug/l #	65
56) Ethyl methacrylate	10.51	69	1344	0.280	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5249	0.946	ug/l #	42
59) 2-Hexanone	10.74	43	84494	26.291	ug/l #	53
71) Bromoform	12.37	173	585	0.234	ug/l #	1
74) N-amyl acetate	12.01	43	3072	0.434	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	125708	27.197	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	125708	74.563	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: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

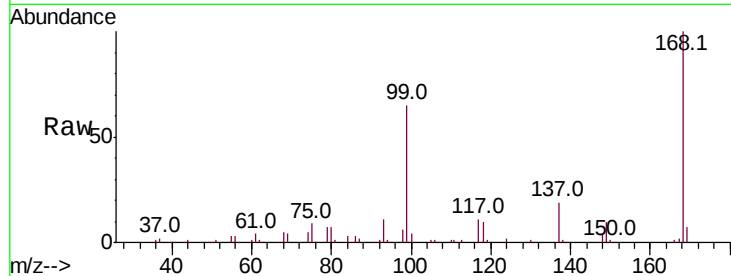
REACTOR-5W-(D-4)

Tot Ion:168 Resp: 22511

Ion Ratio Lower Upper

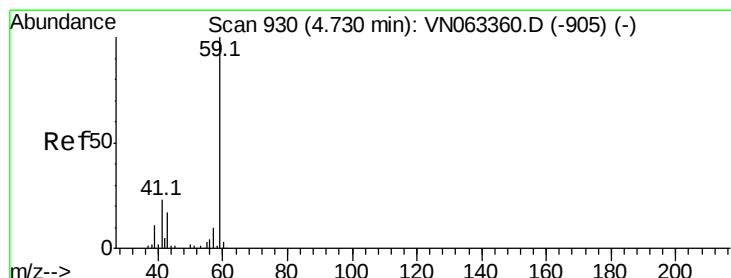
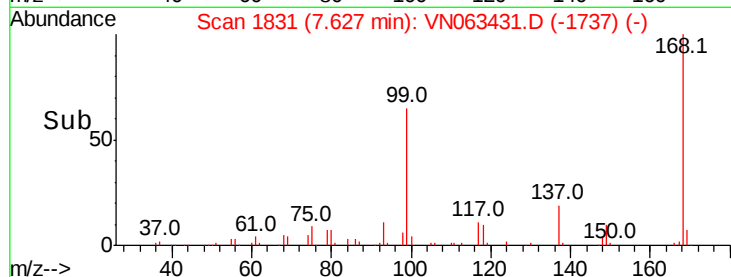
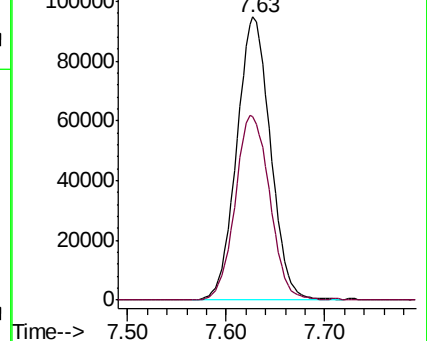
168 100

99 64.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.252 ug/l

RT: 4.71 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN063431.D

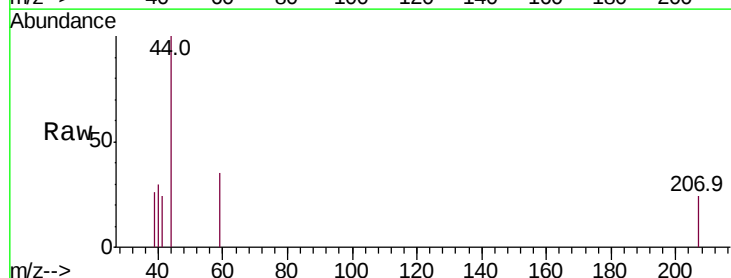
Acq: 17 Sep 2020 20:00

Tgt Ion: 59 Resp: 134

Ion Ratio Lower Upper

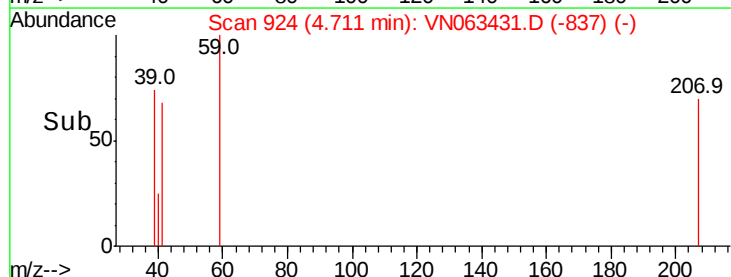
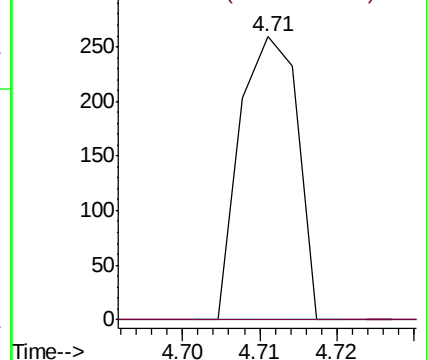
59 100

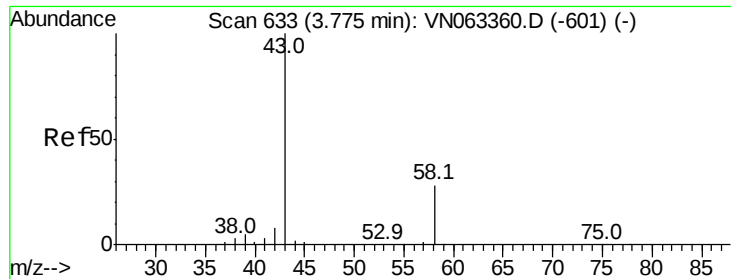
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 11.373 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

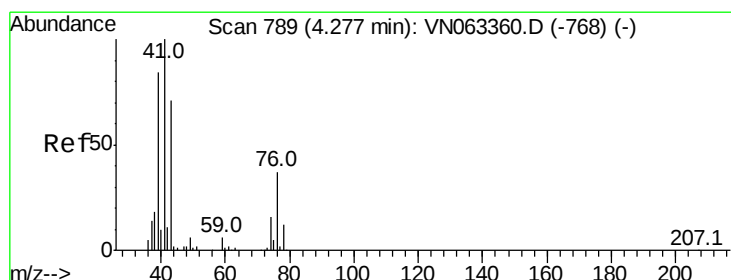
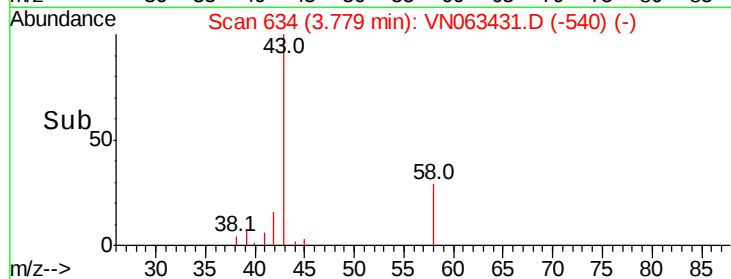
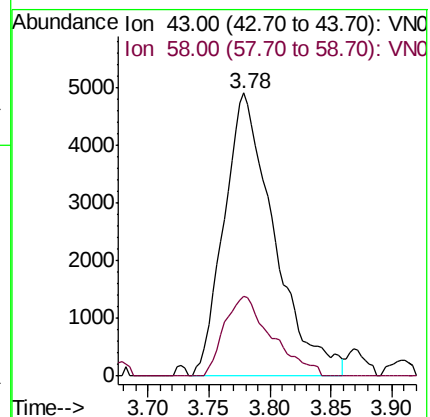
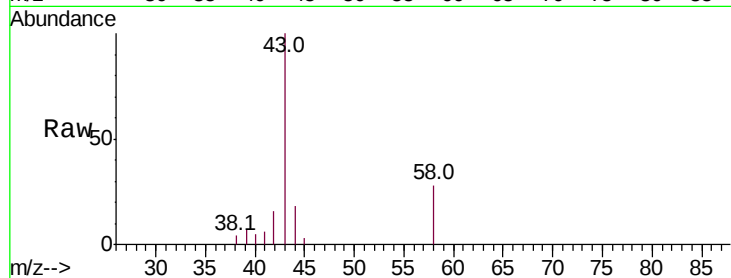
REACTOR-5W-(D-4)

Tot Ion: 43 Resp: 14031

Ion Ratio Lower Upper

43 100

58 28.1 22.3 33.5



#18

Methyl Acetate

Concen: 0.533 ug/l

RT: 4.30 min Scan# 795

Delta R.T. 0.02 min

Lab File: VN063431.D

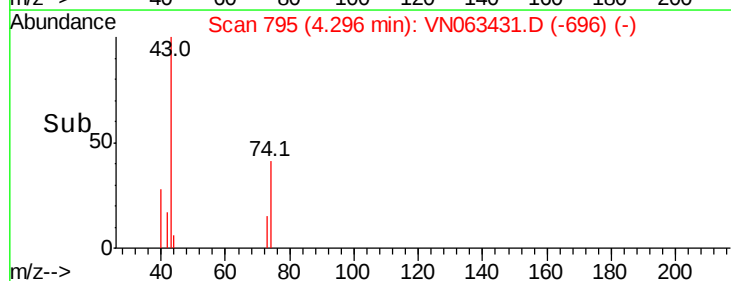
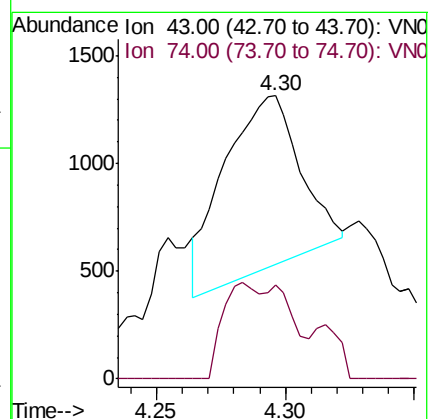
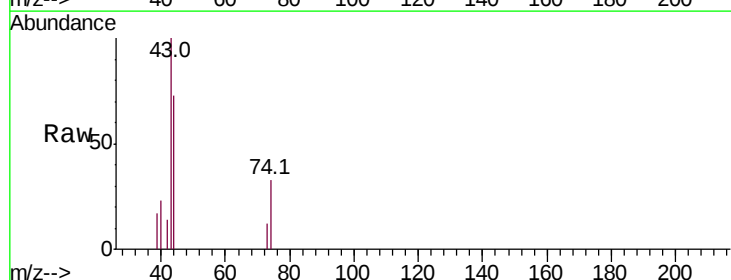
Acq: 17 Sep 2020 20:00

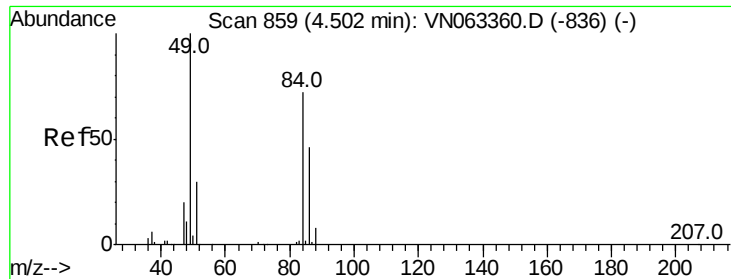
Tgt Ion: 43 Resp: 1668

Ion Ratio Lower Upper

43 100

74 26.4 17.4 26.2#

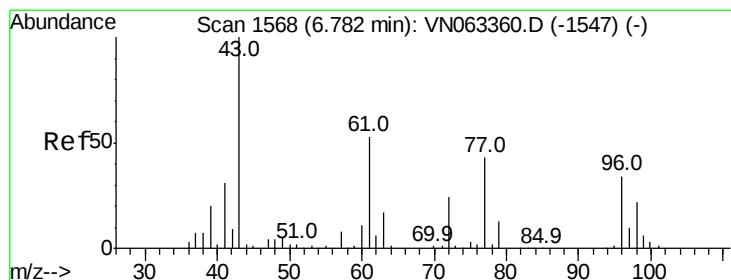
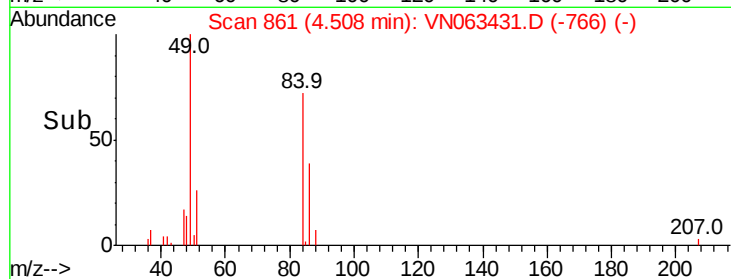
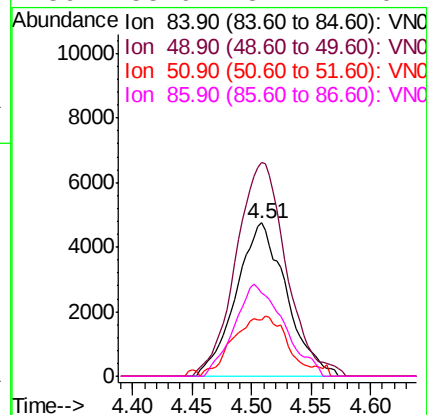
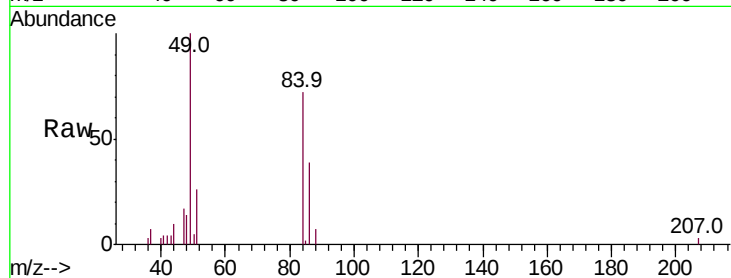




#20
Methvlene Chloride
Concen: 4.449 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063431.D
Acq: 17 Sep 2020 20:00

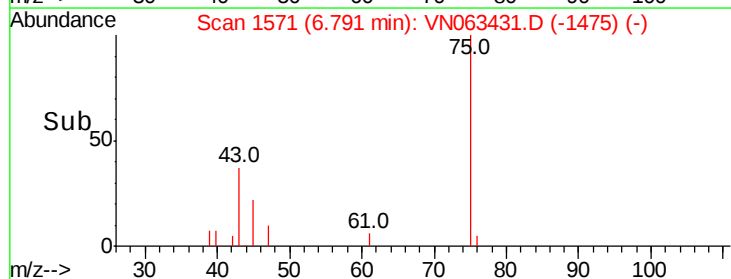
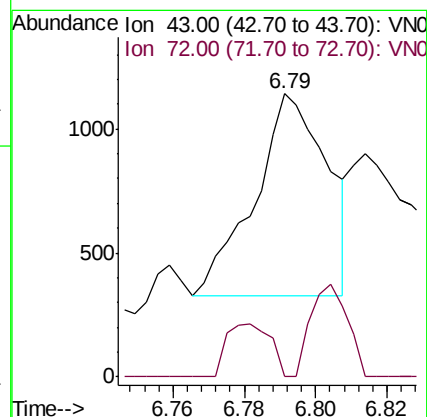
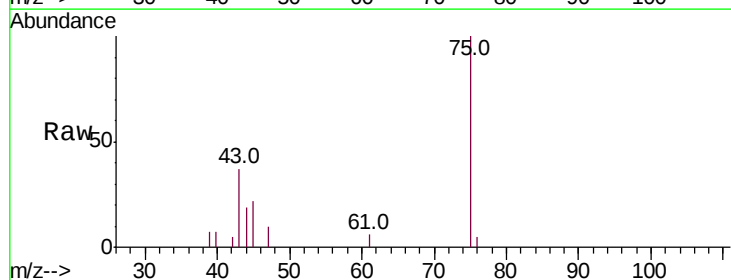
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(D-4)

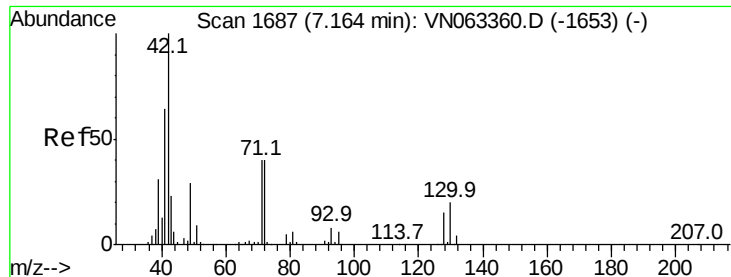
Tot Ion:	84	Resp:	13906
Ion	Ratio	Lower	Upper
84	100		
49	139.4	110.7	166.1
51	36.8	32.9	49.3
86	53.9	51.1	76.7



#25
2-Butanone
Concen: 0.601 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063431.D
Acq: 17 Sep 2020 20:00

Tgt Ion:	43	Resp:	1141
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.2	28.8#





#29

Tetrahydrofuran

Concen: 0.845 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

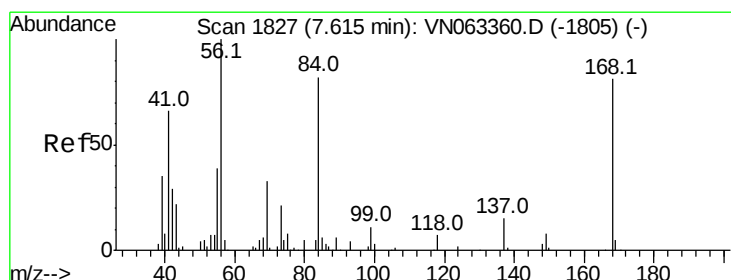
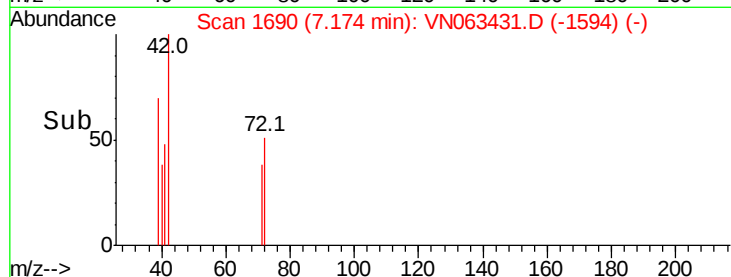
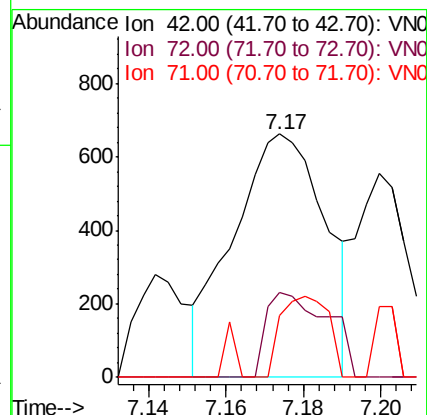
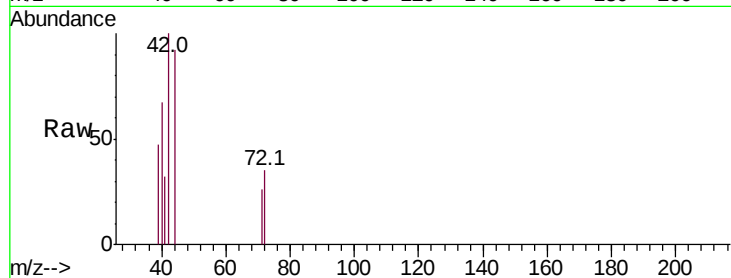
Tot Ion: 42 Resp: 1095

Ion Ratio Lower Upper

42 100

72 23.3 32.1 48.1#

71 17.3 31.2 46.8#



#31

Cyclohexane

Concen: 1.287 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

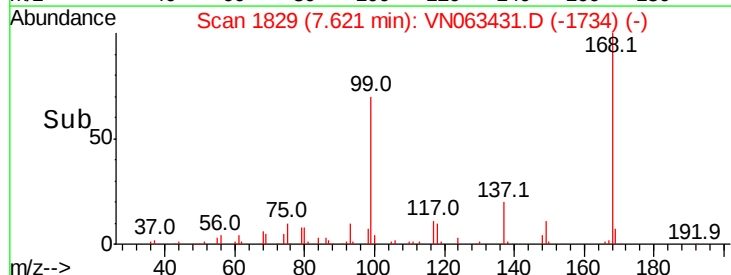
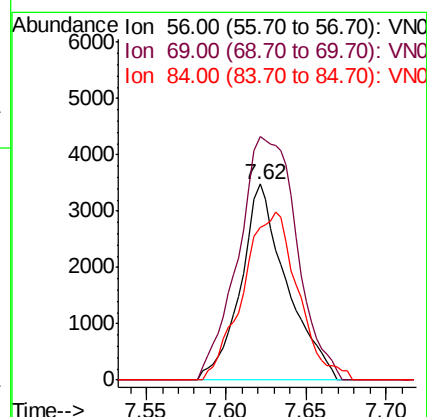
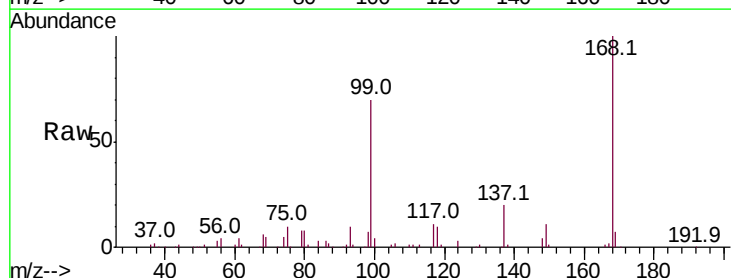
Tgt Ion: 56 Resp: 6824

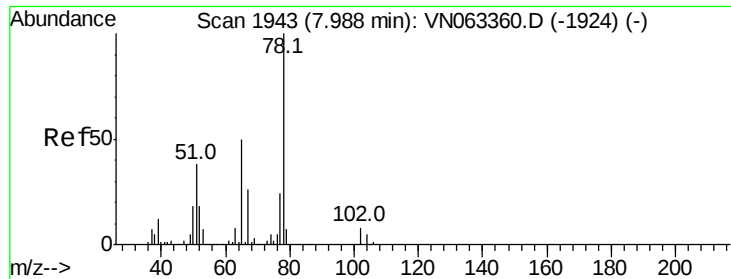
Ion Ratio Lower Upper

56 100

69 124.4 26.1 39.1#

84 78.0 65.4 98.2

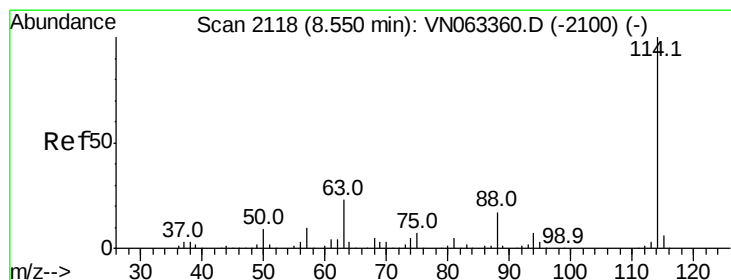
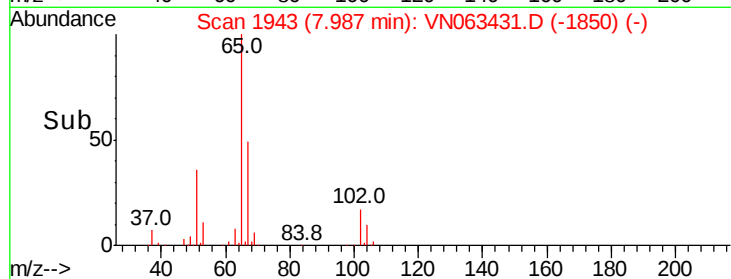
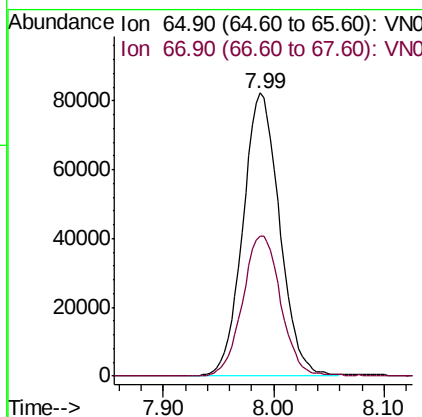
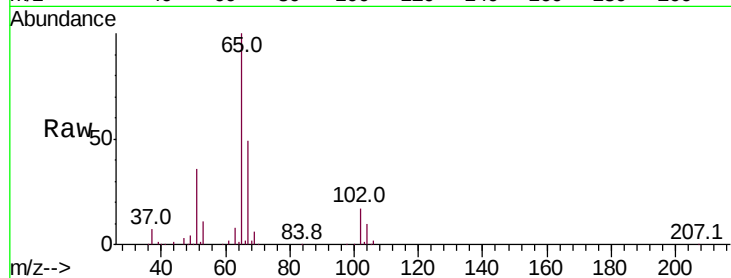




#33
 1,2-Dichloroethane-d4
 Concen: 49.443 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063431.D
 Acq: 17 Sep 2020 20:00

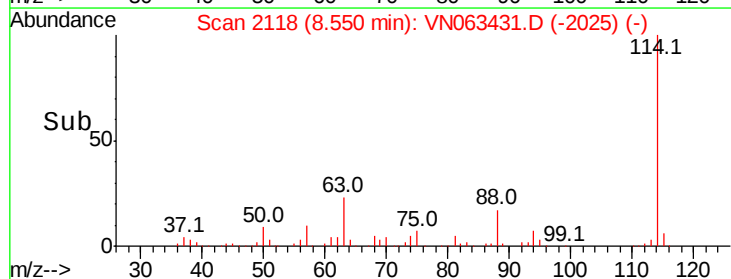
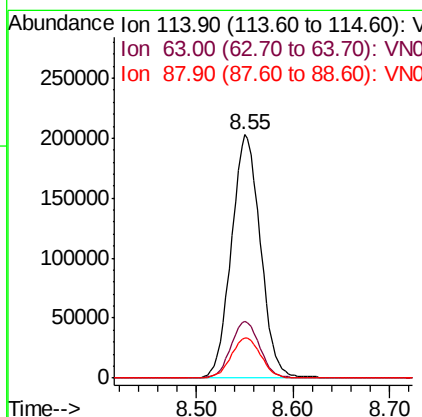
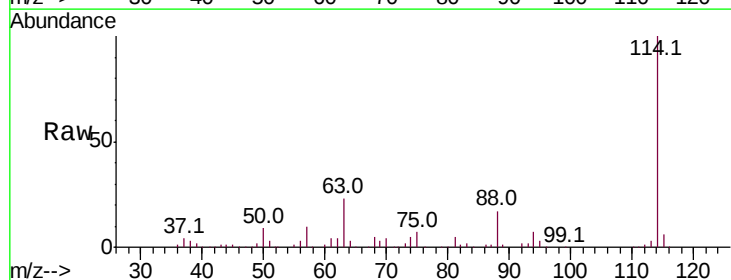
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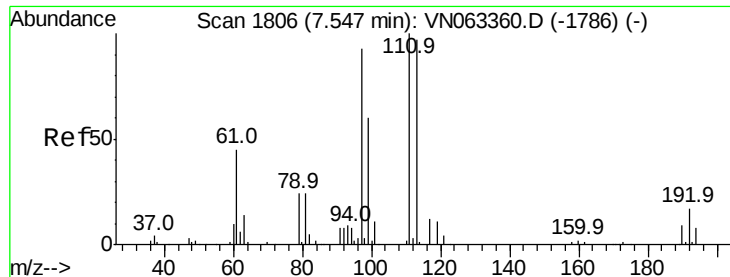
Tot Ion: 65 Resp: 189803
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063431.D
 Acq: 17 Sep 2020 20:00

Tgt Ion: 114 Resp: 423819
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 46.4
 88 16.5 0.0 33.2

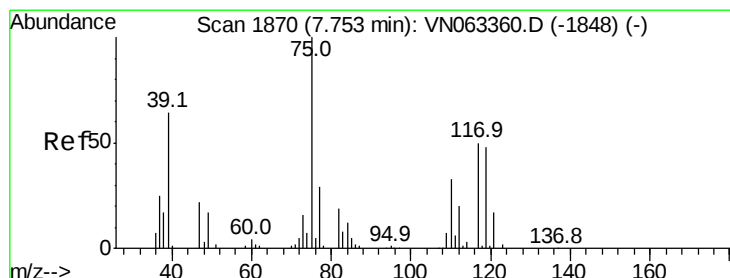
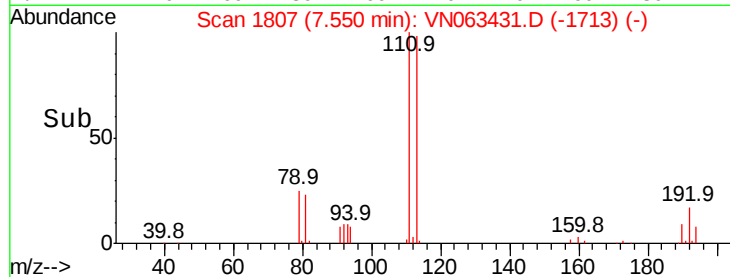
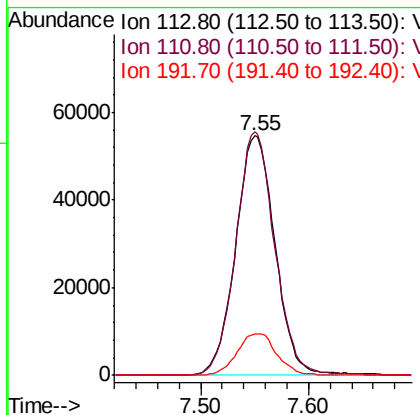
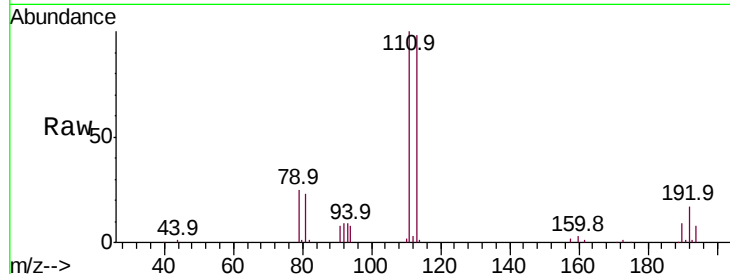




#35
 Dibromofluoromethane
 Concen: 47.299 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063431.D
 Acq: 17 Sep 2020 20:00

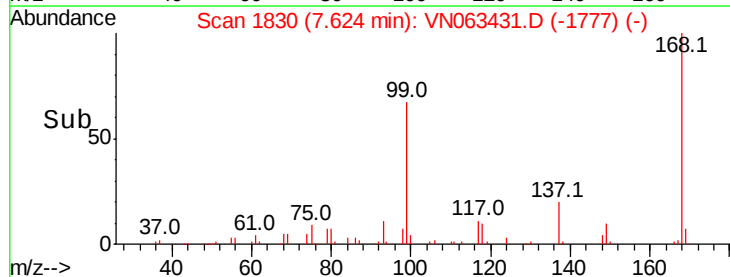
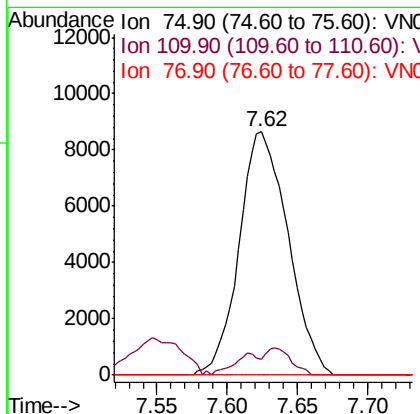
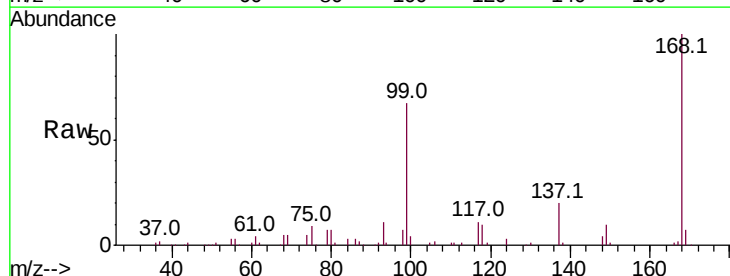
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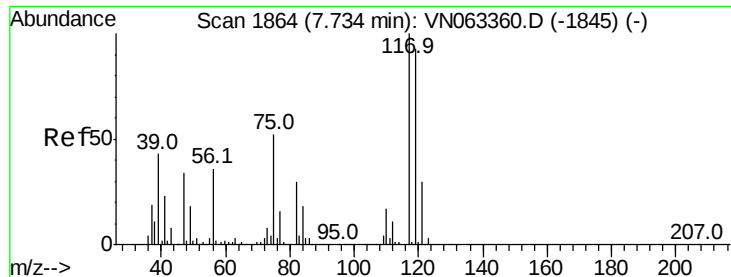
Tot Ion:113 Resp: 138777
 Ion Ratio Lower Upper
 113 100
 111 100.3 82.9 124.3
 192 17.5 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.628 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063431.D
 Acq: 17 Sep 2020 20:00

Tgt Ion: 75 Resp: 20897
 Ion Ratio Lower Upper
 75 100
 110 5.8 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.466 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

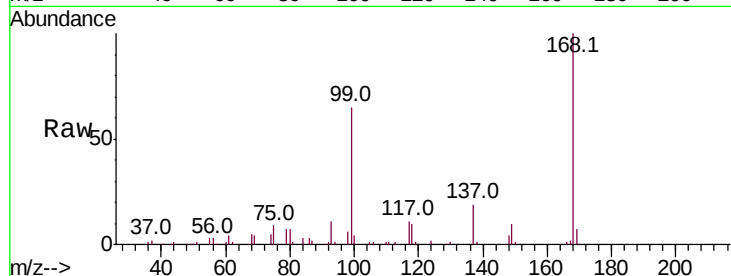
Tot Ion:117 Resp: 25194

Ion Ratio Lower Upper

117 100

119 5.1 74.5 111.7#

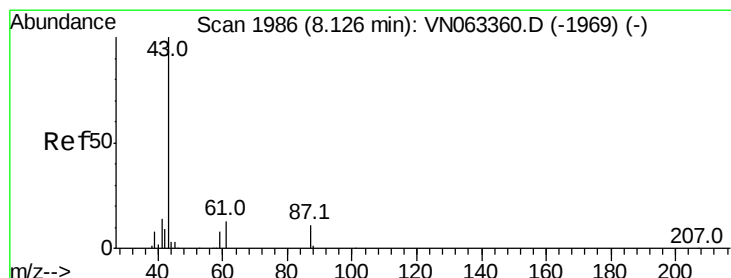
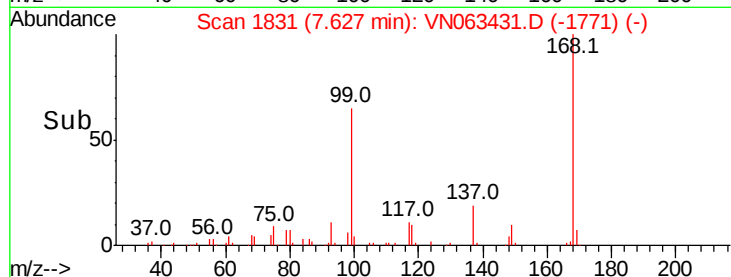
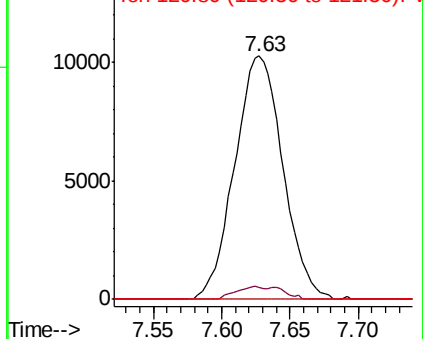
121 0.0 24.1 36.1#



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: 10.259 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

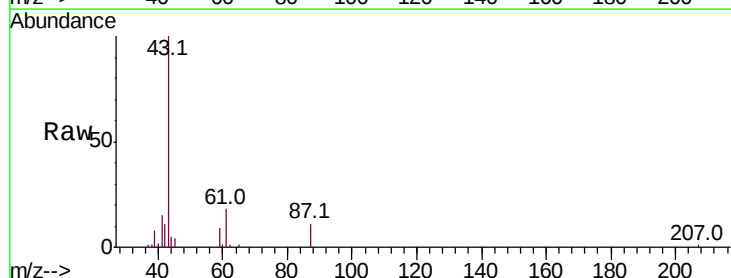
Tgt Ion: 43 Resp: 81295

Ion Ratio Lower Upper

43 100

61 18.2 14.2 21.2

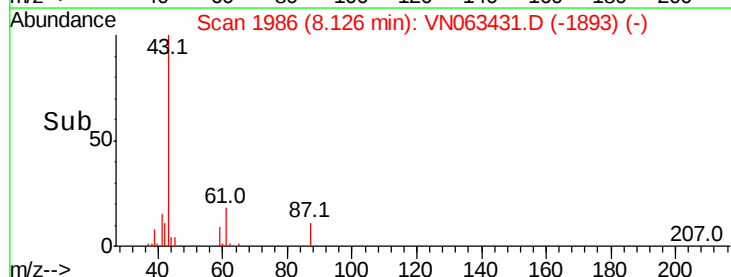
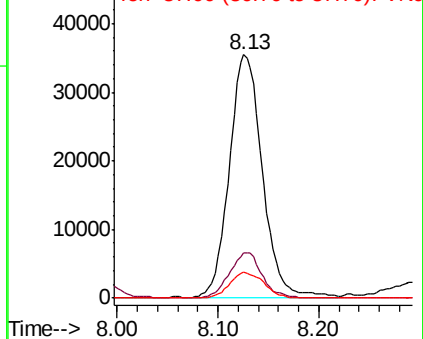
87 10.7 9.0 13.6

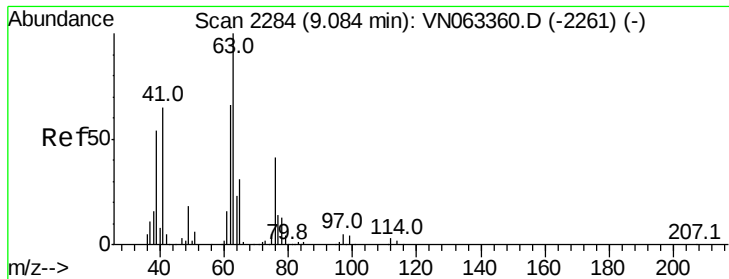


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.430 ug/l

RT: 9.24 min Scan# 2334

Delta R.T. 0.16 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

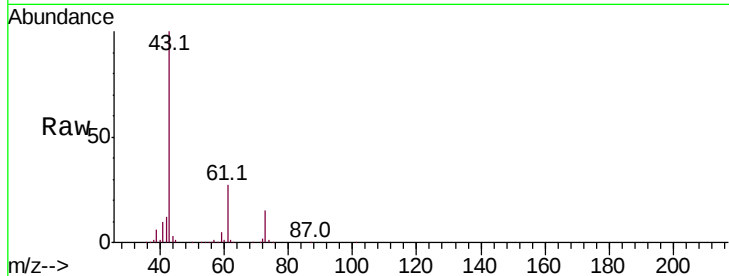
REACTOR-5W-(D-4)

Tot Ion: 63 Resp: 1508

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

800

600

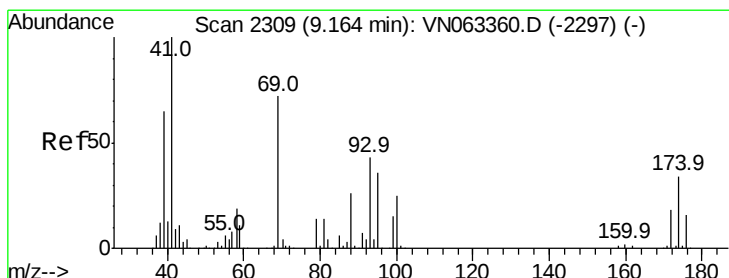
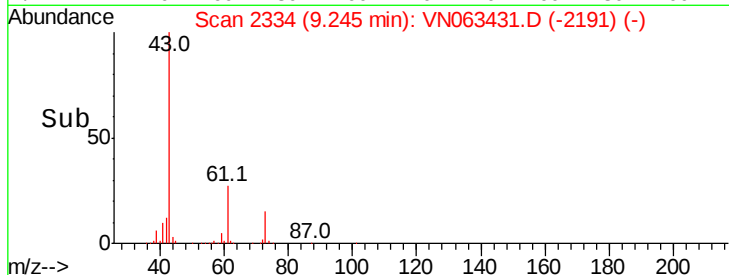
400

200

0

9.20 9.25

Time-->



#48

Methyl methacrylate

Concen: 1.080 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

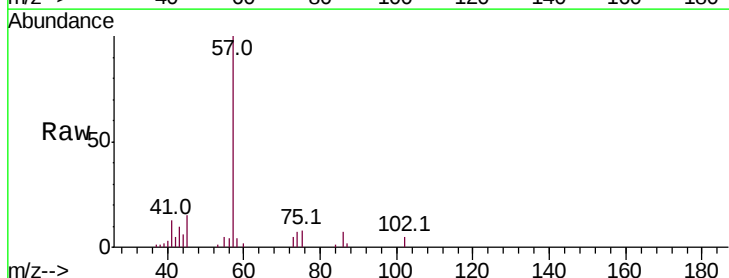
Tgt Ion: 41 Resp: 4203

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): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

15000

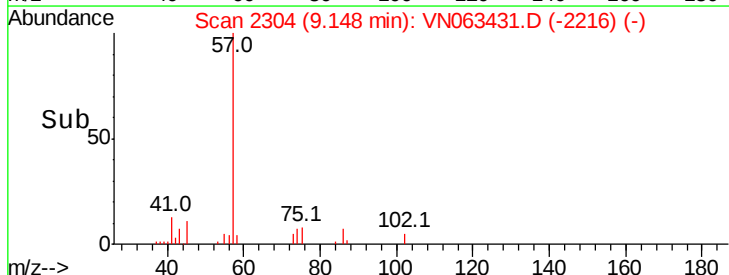
10000

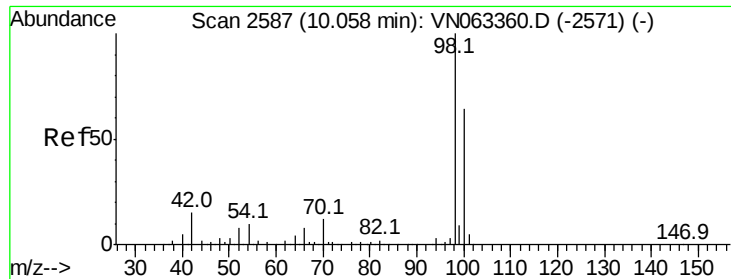
5000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 50.563 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

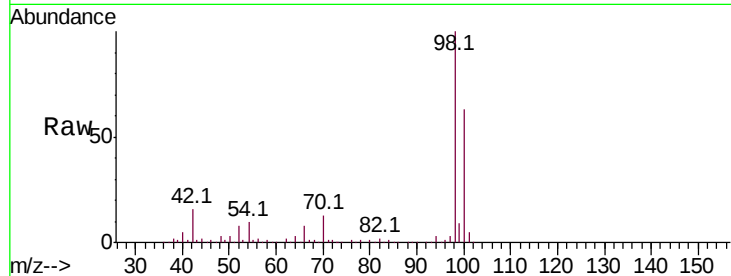
REACTOR-5W-(D-4)

Tot Ion: 98 Resp: 557834

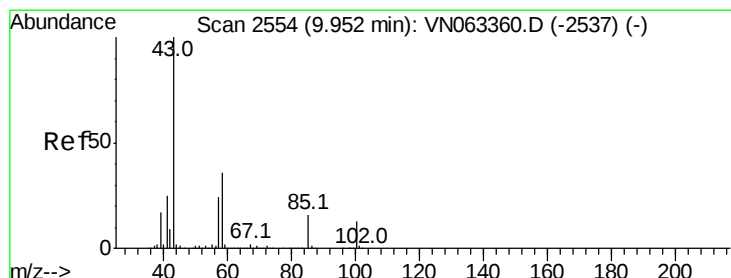
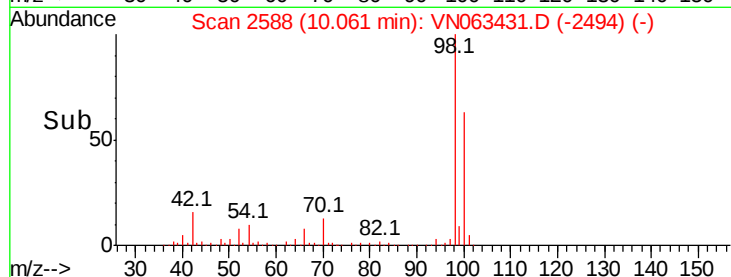
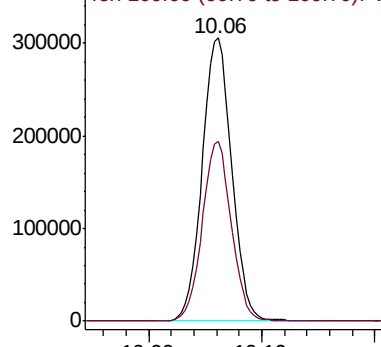
Ion Ratio Lower Upper

98 100

100 62.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.695 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063431.D

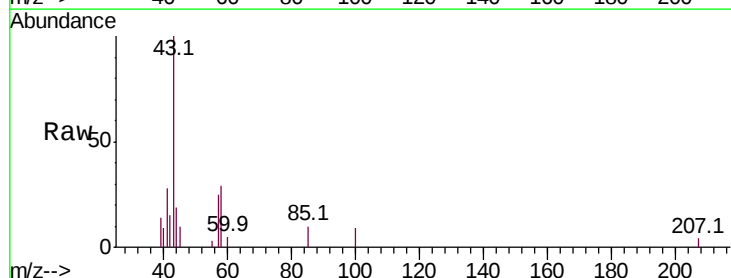
Acq: 17 Sep 2020 20:00

Tgt Ion: 43 Resp: 7520

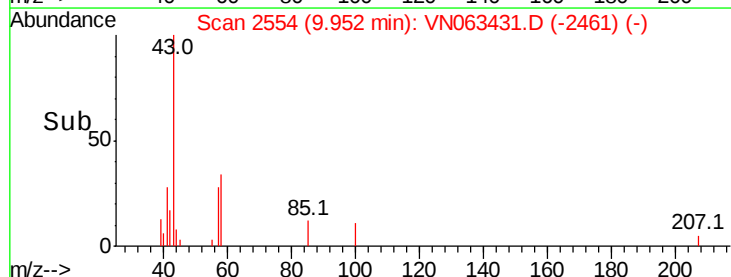
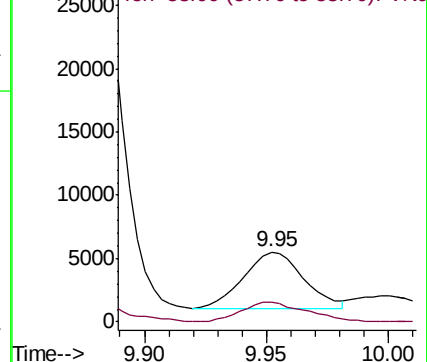
Ion Ratio Lower Upper

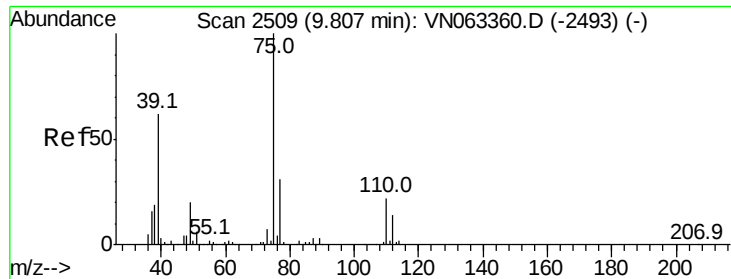
43 100

58 38.7 29.0 43.6



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





#54

cis-1,3-Dichloropropene

Concen: 5.943 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

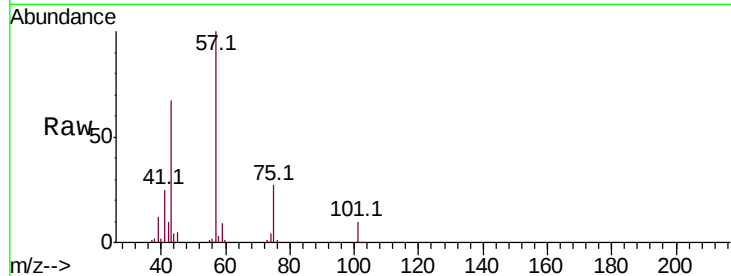
Tot Ion: 75 Resp: 33546

Ion Ratio Lower Upper

75 100

77 1.1 24.6 37.0#

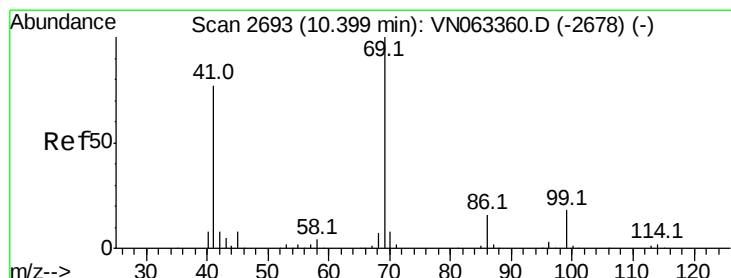
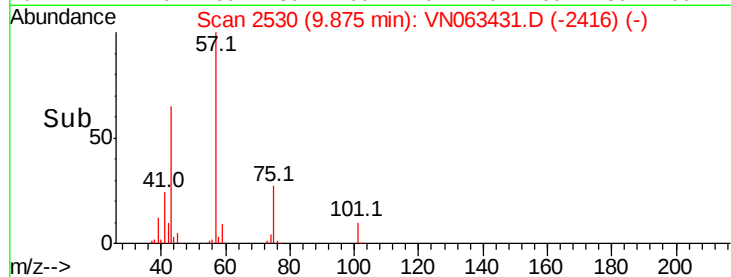
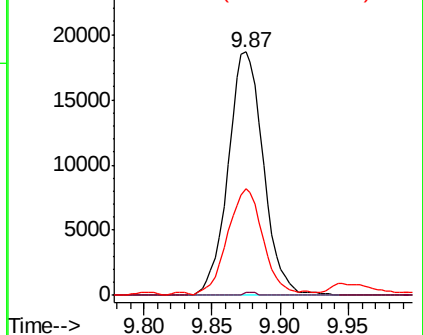
39 42.7 49.8 74.8#



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: 0.280 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

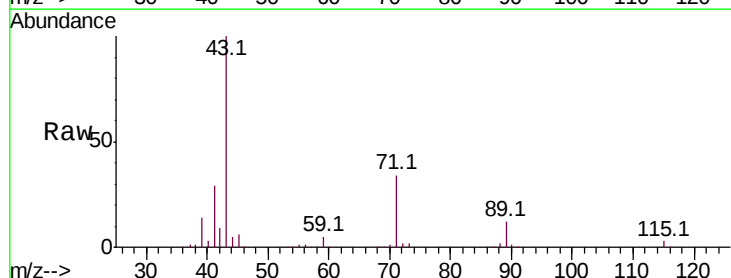
Tgt Ion: 69 Resp: 1344

Ion Ratio Lower Upper

69 100

41 6311.8 61.0 91.6#

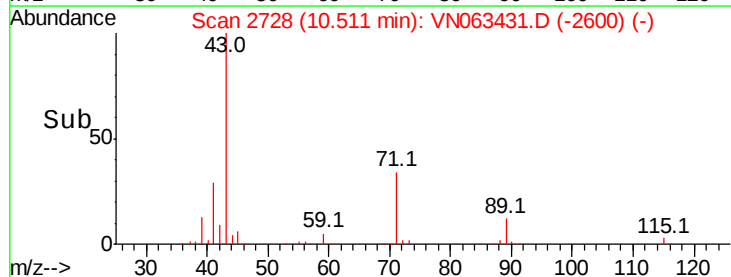
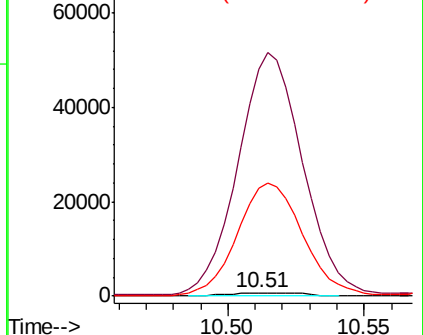
39 3007.1 39.2 58.8#

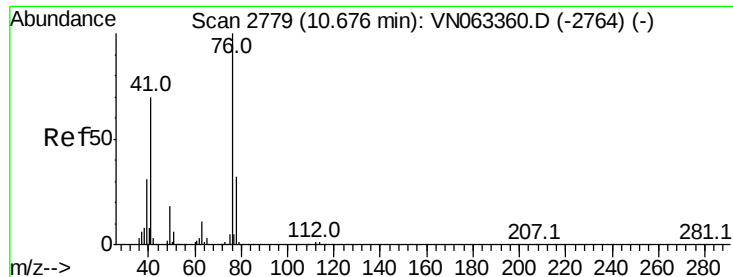


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.946 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

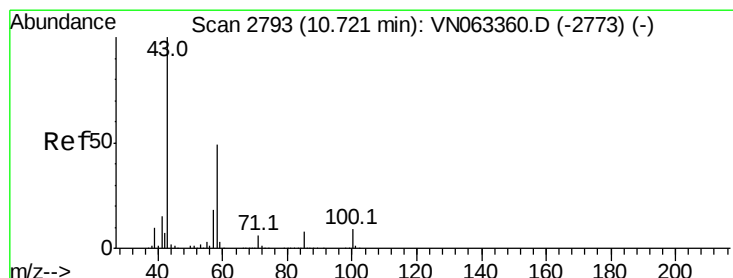
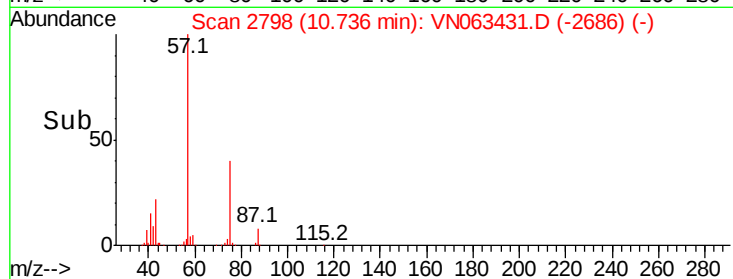
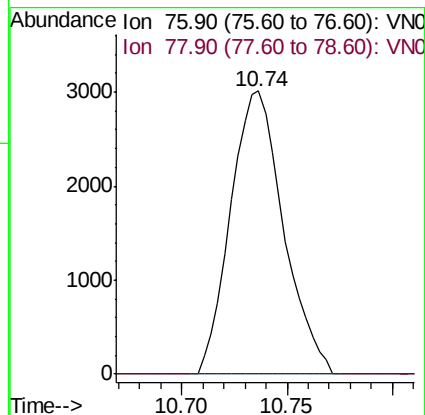
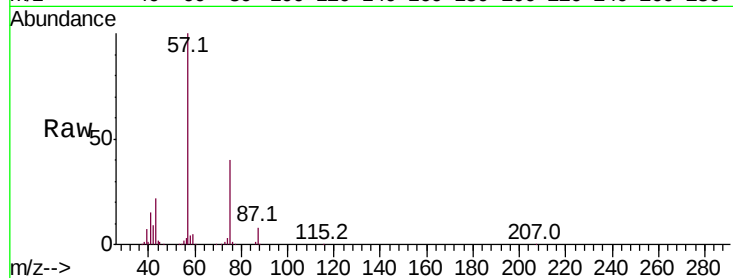
REACTOR-5W-(D-4)

Tot Ion: 76 Resp: 5249

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 26.291 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063431.D

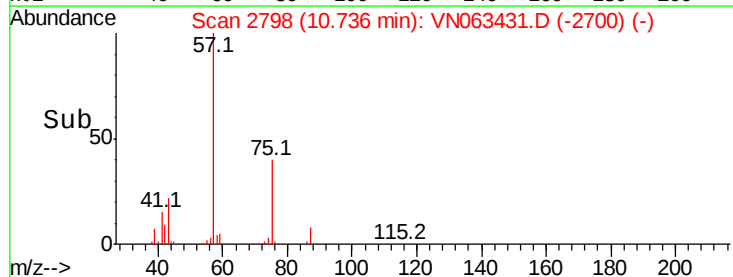
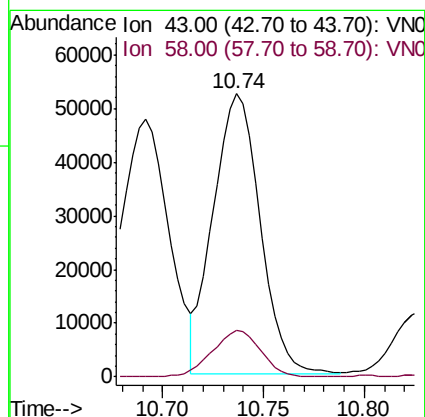
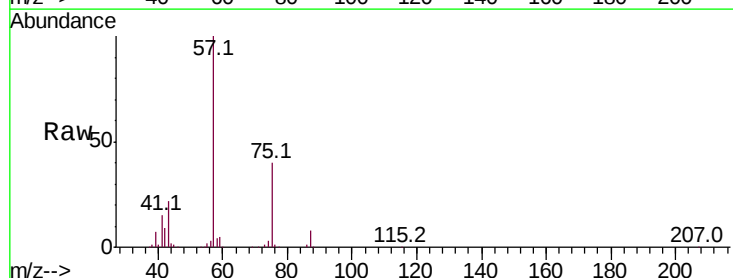
Acq: 17 Sep 2020 20:00

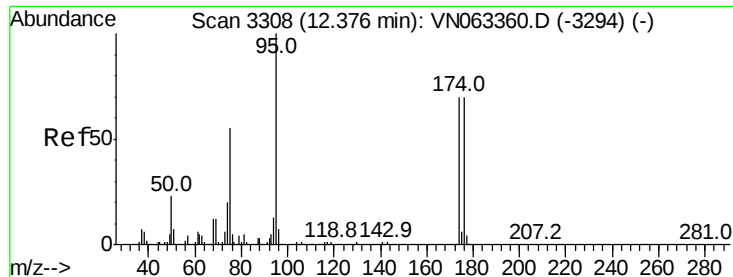
Tgt Ion: 43 Resp: 84494

Ion Ratio Lower Upper

43 100

58 17.2 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.778 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

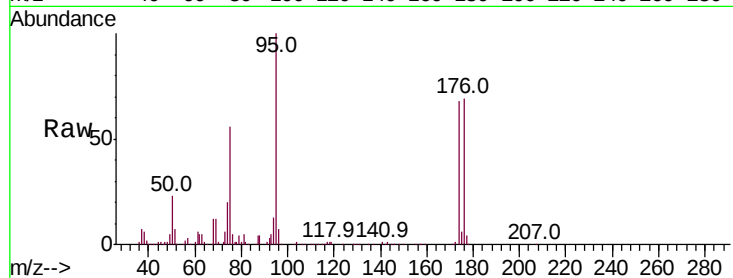
Tot Ion: 95 Resp: 221538

Ion Ratio Lower Upper

95 100

174 69.4 0.0 140.8

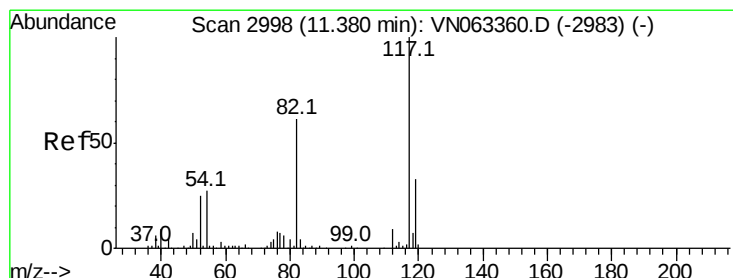
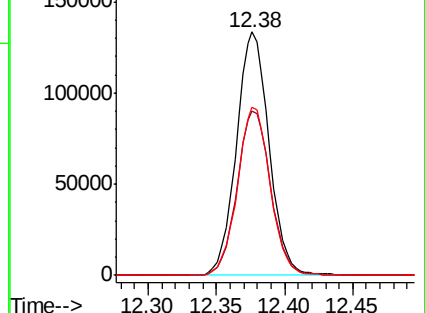
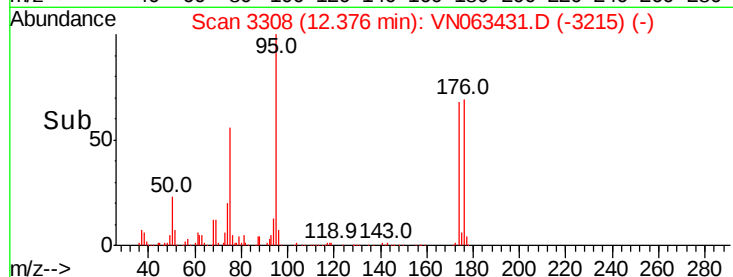
176 69.0 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063431.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063431.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063431.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

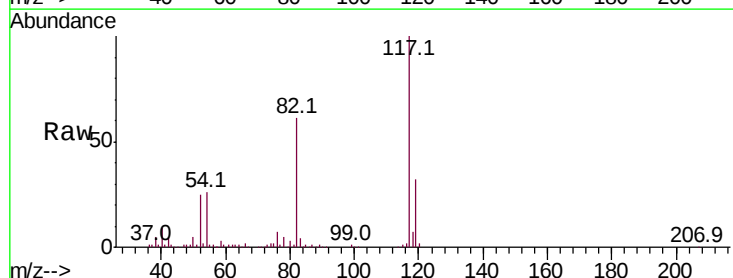
Tgt Ion: 117 Resp: 431333

Ion Ratio Lower Upper

117 100

82 61.4 49.2 73.8

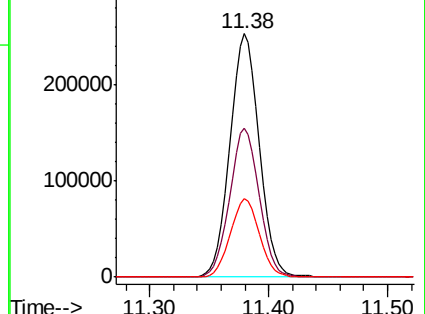
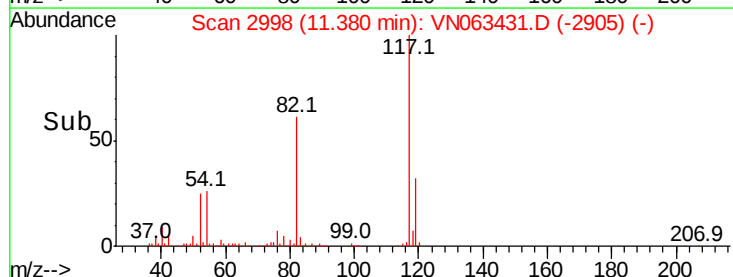
119 32.1 26.2 39.4

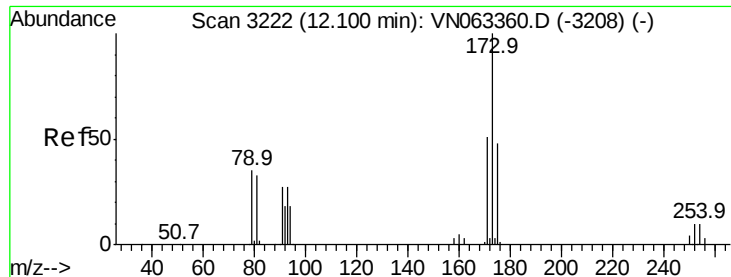


Abundance Ion 116.90 (116.60 to 117.60): VN063431.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063431.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063431.D (-2905) (-)





#71

Bromoform

Concen: 0.234 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

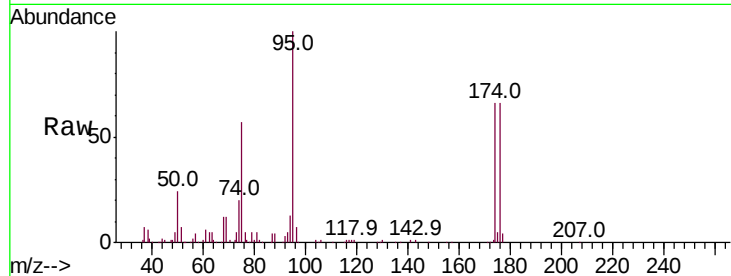
Tot Ion:173 Resp: 585

Ion Ratio Lower Upper

173 100

175 1764.6 24.0 72.0#

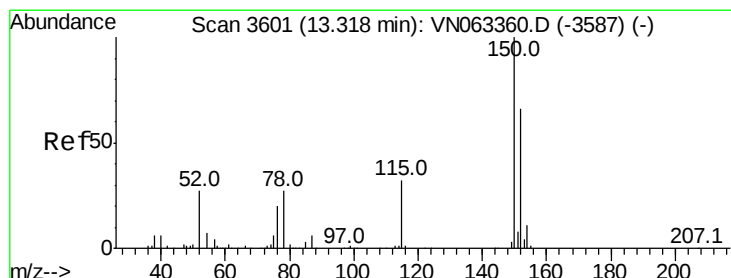
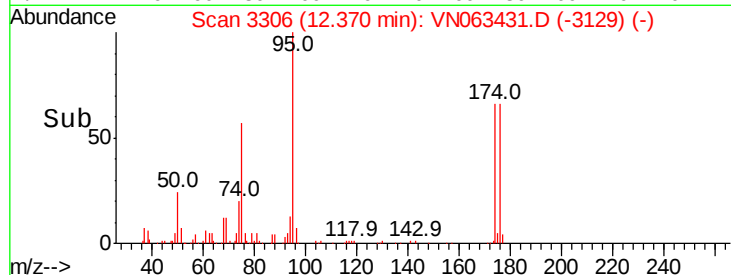
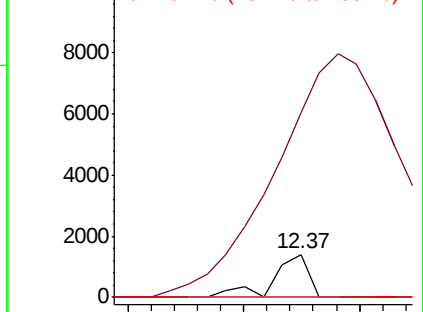
254 0.0 0.0 0.0



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: VN063431.D

Acq: 17 Sep 2020 20:00

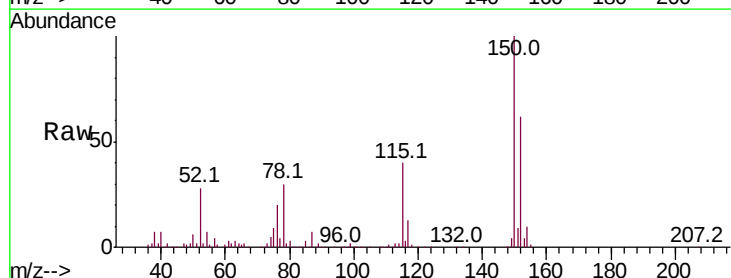
Tgt Ion:152 Resp: 186744

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

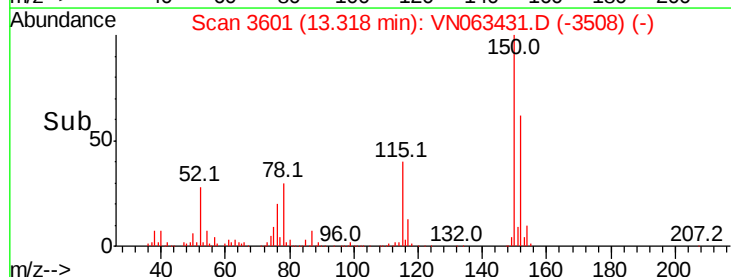
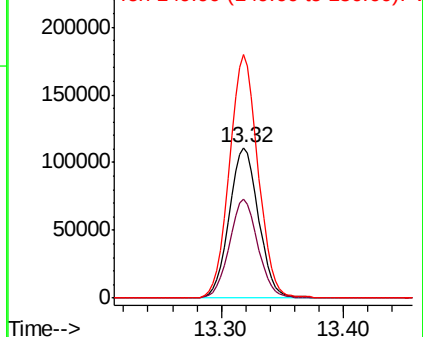
150 157.0 0.0 343.4

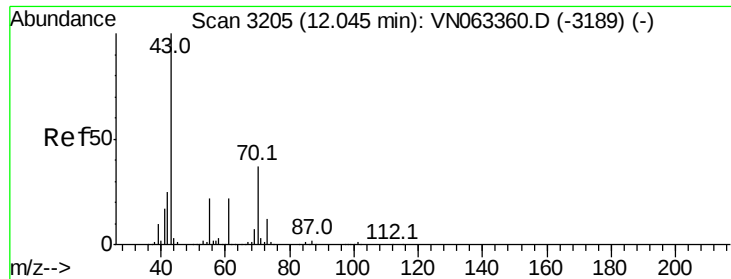


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.434 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

Tot Ion: 43 Resp: 3072

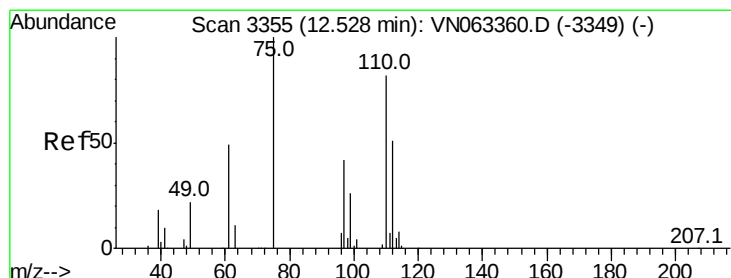
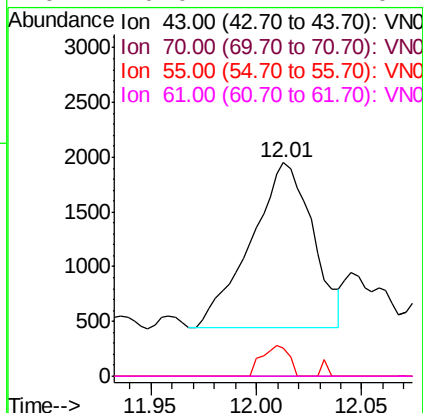
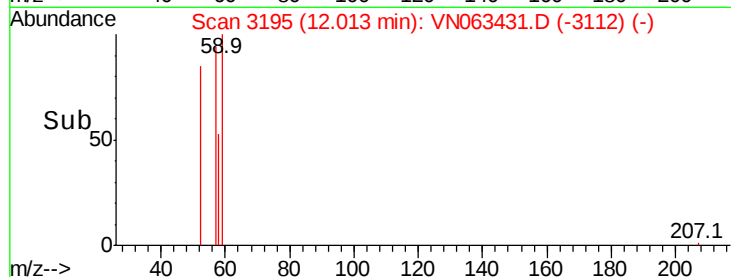
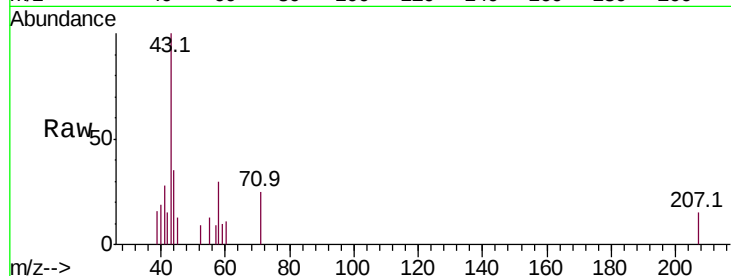
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 8.1 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 27.197 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063431.D

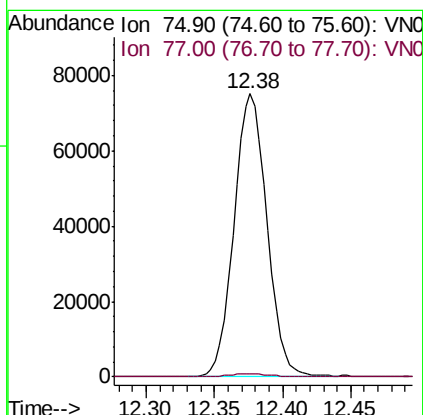
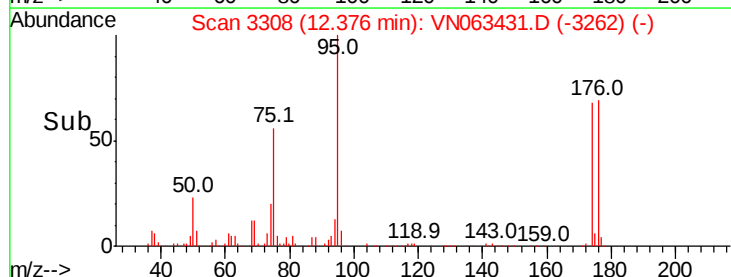
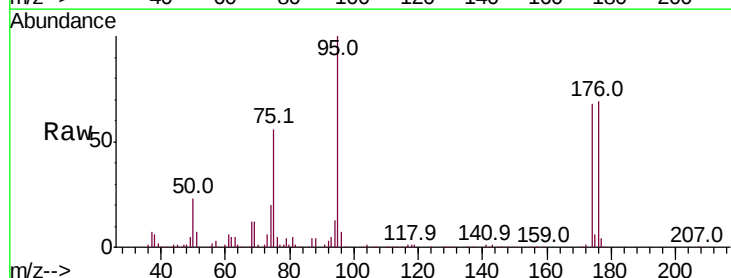
Acq: 17 Sep 2020 20:00

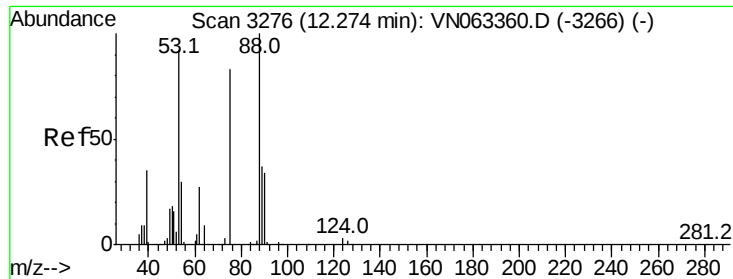
Tgt Ion: 75 Resp: 125708

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 74.563 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063431.D

Acq: 17 Sep 2020 20:00

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-4)

Tot Ion: 75 Resp: 125708

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

