

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063458.D
 Acq On : 18 Sep 2020 15:26
 Operator : JC/MD
 Sample : PB131701ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131701ZHE#13

Quant Time: Sep 21 01:35:09 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	252913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	464579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	471044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	204697	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	204646	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
35) Dibromofluoromethane	7.55	113	146206	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	
50) Toluene-d8	10.06	98	606387	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.38	95	244078	55.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.12%	

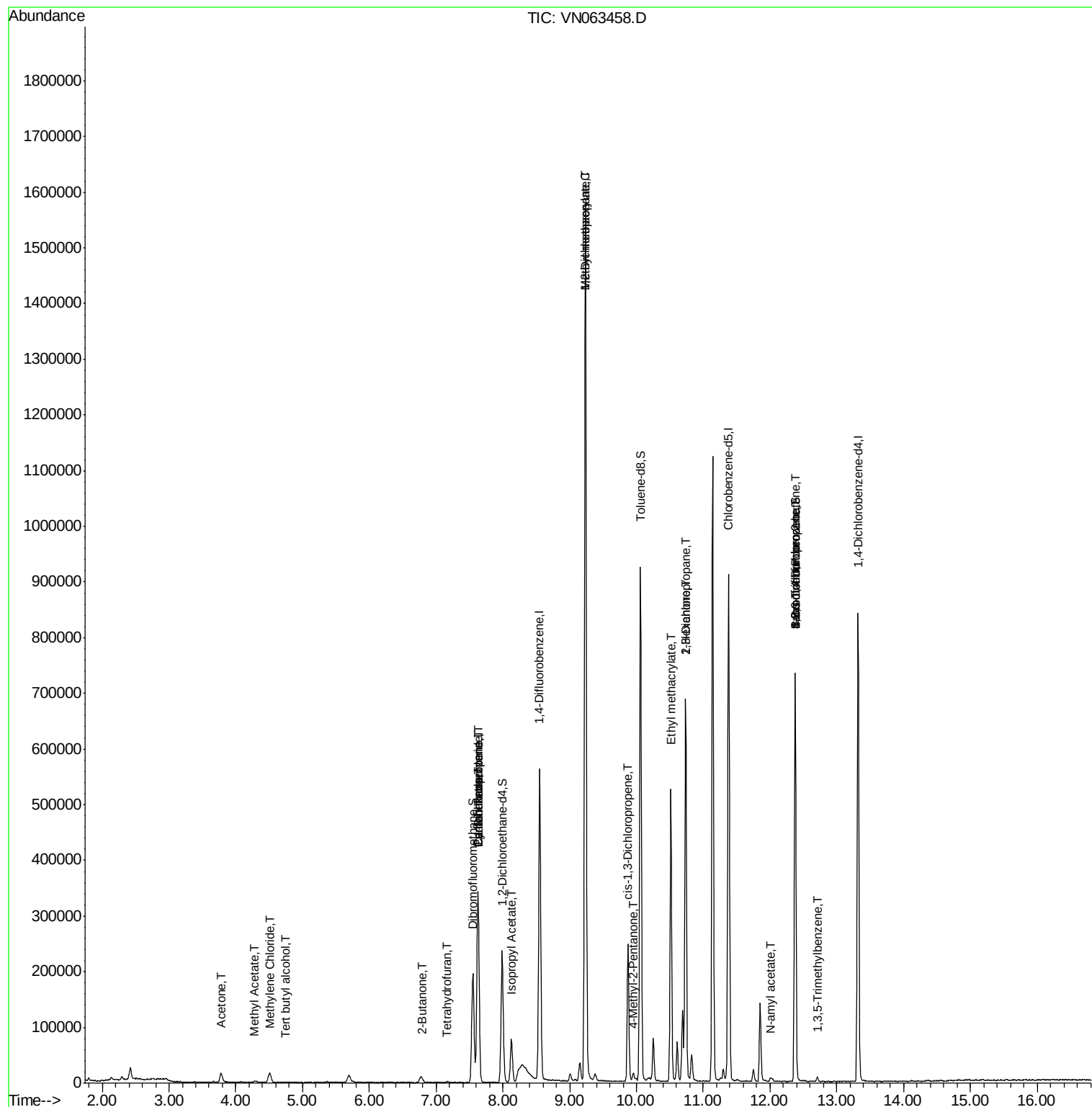
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	718	1.204	ug/l #	72
16) Acetone	3.78	43	30691	22.181	ug/l	98
18) Methyl Acetate	4.28	43	2493	0.710	ug/l #	79
20) Methylene Chloride	4.51	84	11681	3.332	ug/l	96
25) 2-Butanone	6.80	43	2328	1.094	ug/l	97
29) Tetrahydrofuran	7.17	42	942	0.648	ug/l #	38
31) Cyclohexane	7.63	56	7157	1.204	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	23270	4.702	ug/l #	51
38) Carbon Tetrachloride	7.63	117	27371	5.417	ug/l #	16
43) Isopropyl Acetate	8.13	43	96772	11.141	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1944	0.505	ug/l #	43
48) Methyl methacrylate	9.23	41	156514	36.676	ug/l #	49
51) 4-Methyl-2-Pentanone	9.95	43	9906	2.037	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	40620	6.565	ug/l #	62
56) Ethyl methacrylate	10.52	69	1581	0.300	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6541	1.075	ug/l #	42
59) 2-Hexanone	10.74	43	108119	30.690	ug/l #	54
71) Bromoform	12.38	173	1602	0.587	ug/l #	1
74) N-amyl acetate	12.01	43	3703	0.477	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	136217	26.886	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4376	0.320	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.38	75	136217	73.710	ug/l #	7

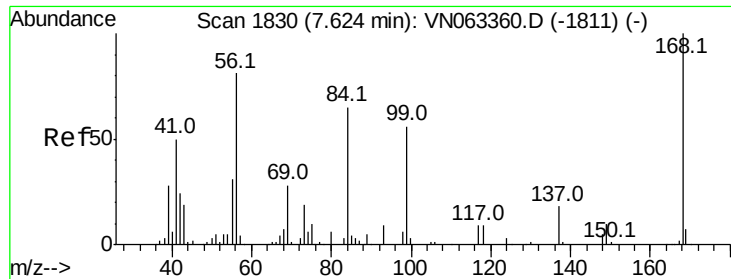
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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Quant Time: Sep 21 01:35:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
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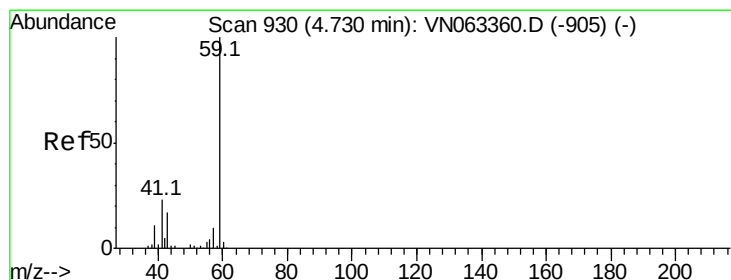
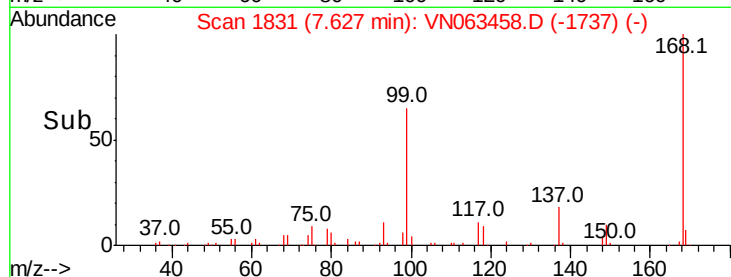
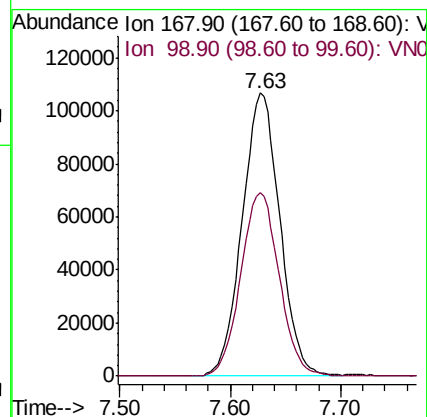
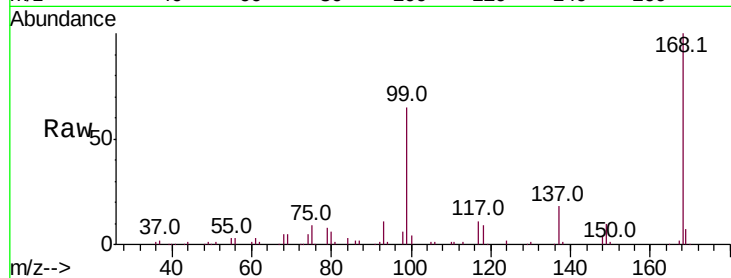




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN063458.D
Acq: 18 Sep 2020 15:26

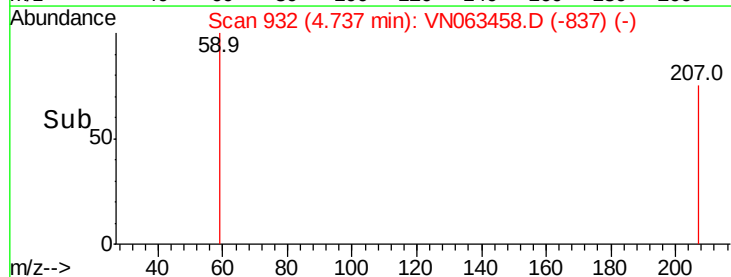
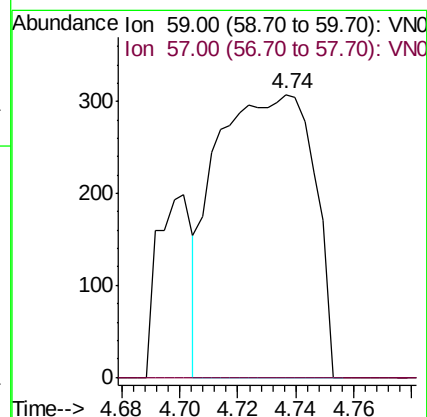
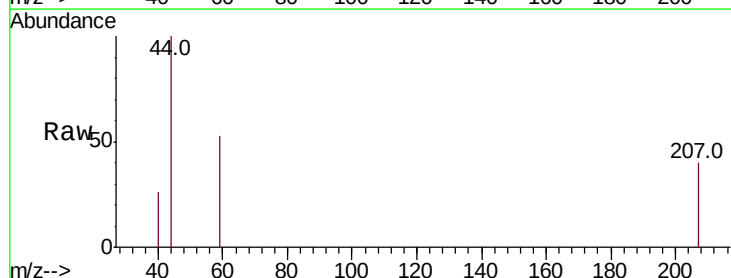
Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#13

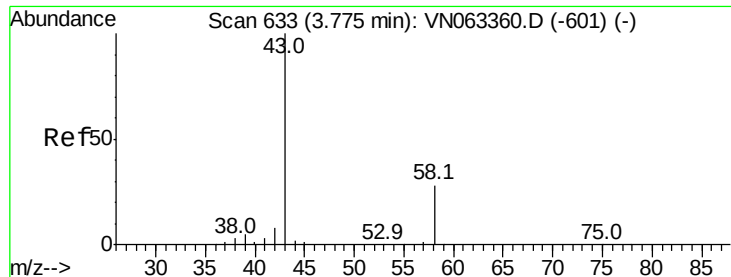
Tot Ion:168 Resp: 252913
Ion Ratio Lower Upper
168 100
99 64.9 53.0 79.6



#11
Tert butyl alcohol
Concen: 1.204 ug/l
RT: 4.74 min Scan# 932
Delta R.T. 0.01 min
Lab File: VN063458.D
Acq: 18 Sep 2020 15:26

Tgt Ion: 59 Resp: 718
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 22.181 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

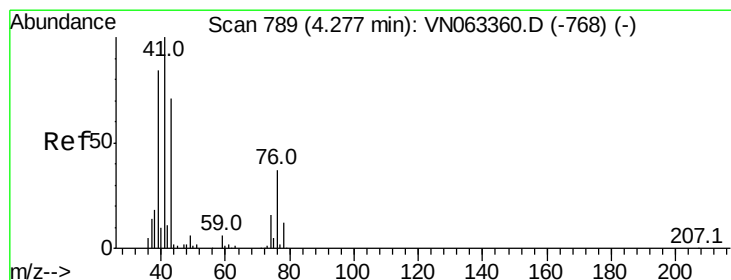
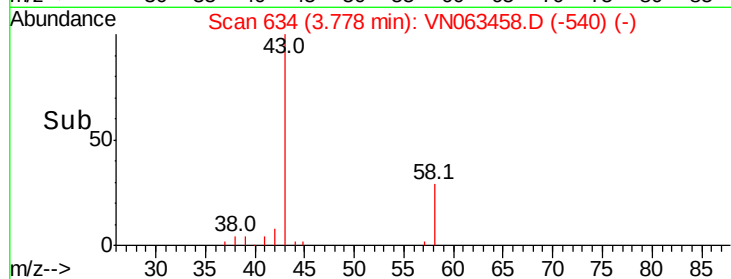
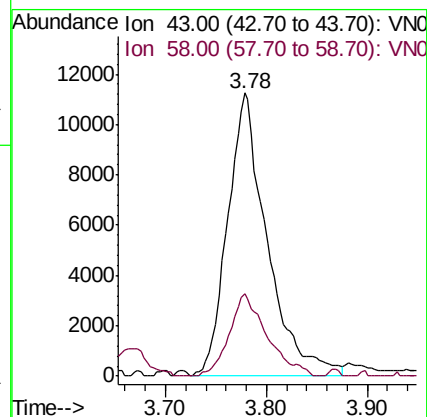
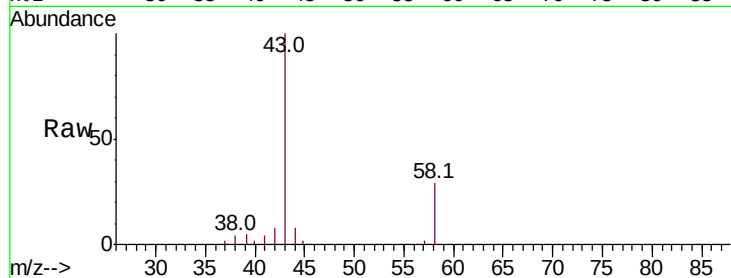
PB131701ZHE#13

Tot Ion: 43 Resp: 30691

Ion Ratio Lower Upper

43 100

58 28.9 22.3 33.5



#18

Methyl Acetate

Concen: 0.710 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063458.D

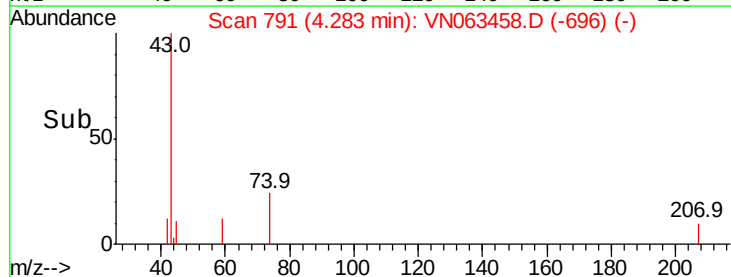
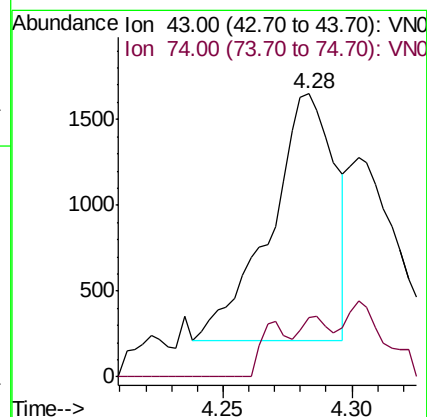
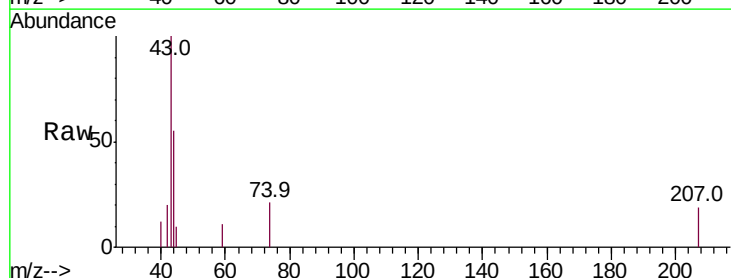
Acq: 18 Sep 2020 15:26

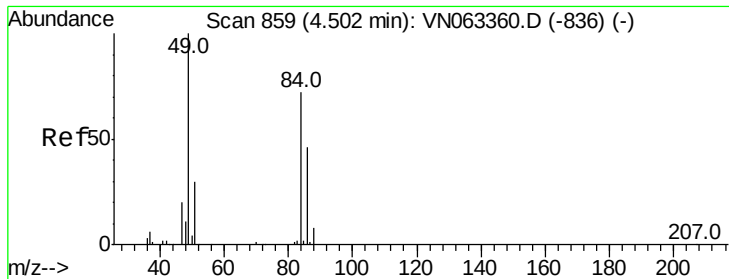
Tgt Ion: 43 Resp: 2493

Ion Ratio Lower Upper

43 100

74 11.8 17.4 26.2#

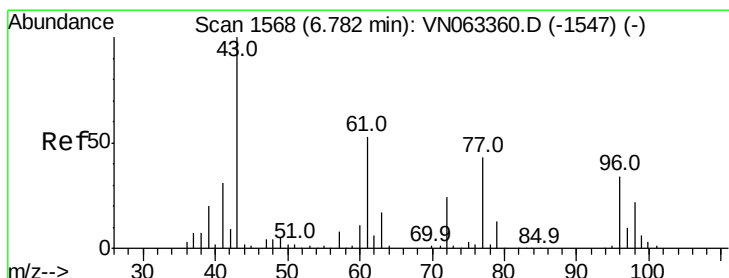
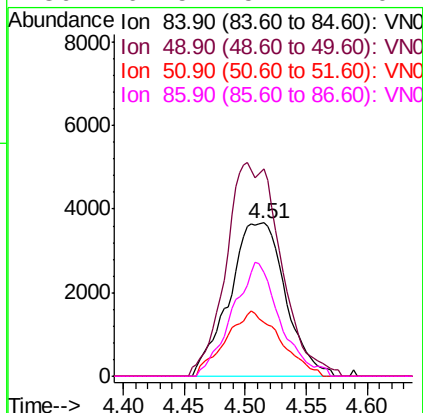
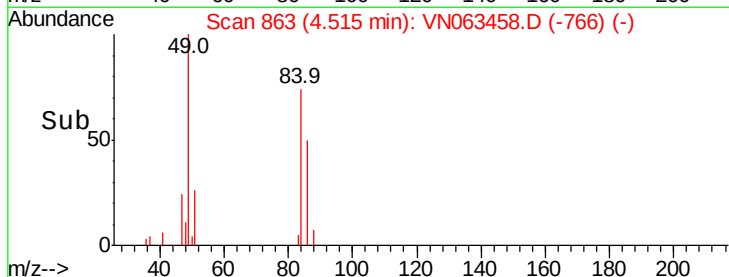
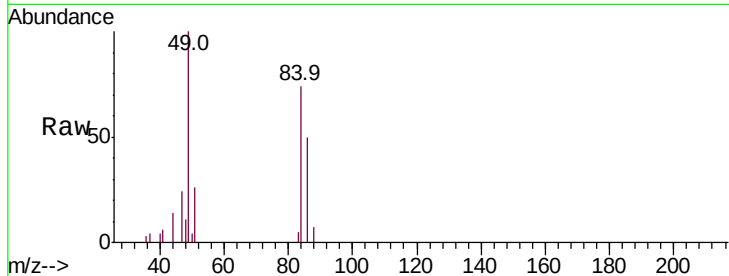




#20
Methvlene Chloride
Concen: 3.332 ug/l
RT: 4.51 min Scan# 863
Delta R.T. 0.01 min
Lab File: VN063458.D
Acq: 18 Sep 2020 15:26

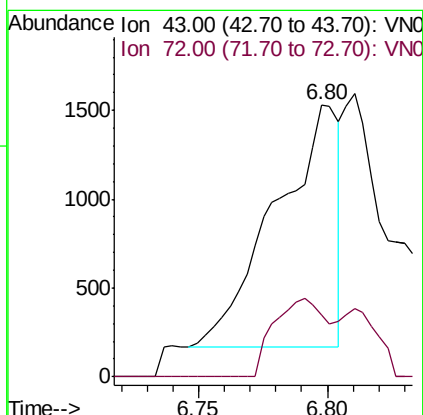
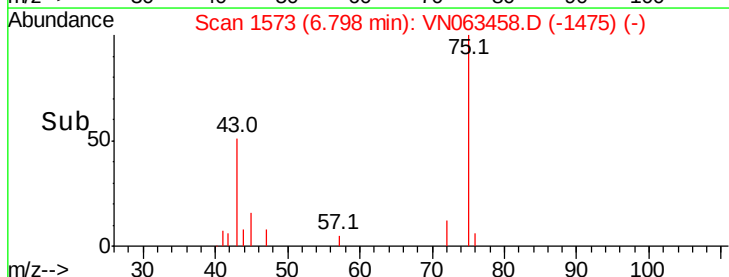
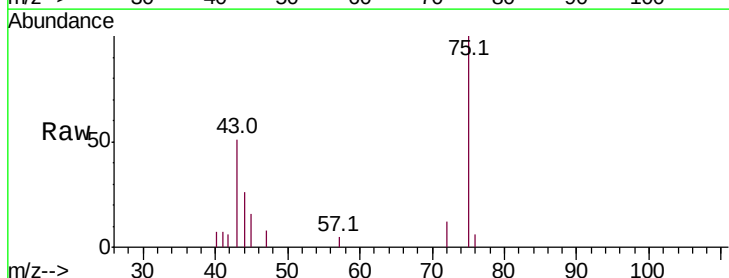
Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#13

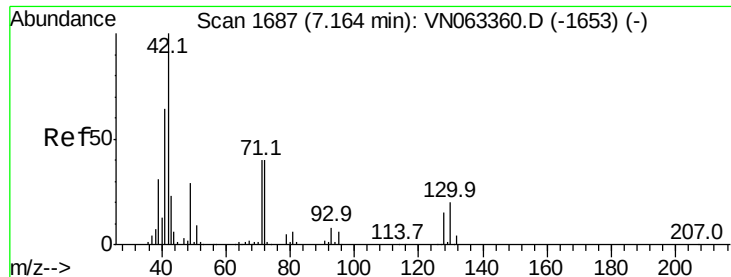
Tot Ion:	84	Resp:	11681
Ion	Ratio	Lower	Upper
84	100		
49	135.4	110.7	166.1
51	34.9	32.9	49.3
86	67.5	51.1	76.7



#25
2-Butanone
Concen: 1.094 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063458.D
Acq: 18 Sep 2020 15:26

Tgt Ion:	43	Resp:	2328
Ion	Ratio	Lower	Upper
43	100		
72	25.5	19.2	28.8





#29

Tetrahydrofuran

Concen: 0.648 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#13

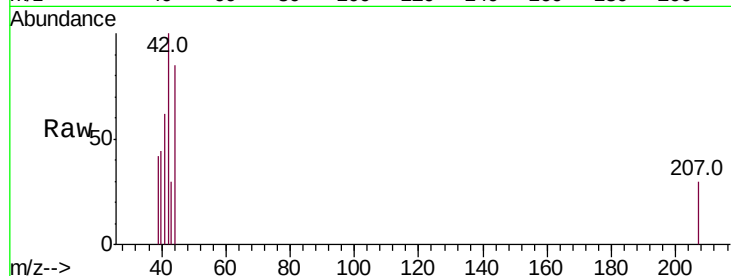
Tot Ion: 42 Resp: 942

Ion Ratio Lower Upper

42 100

72 3.2 32.1 48.1#

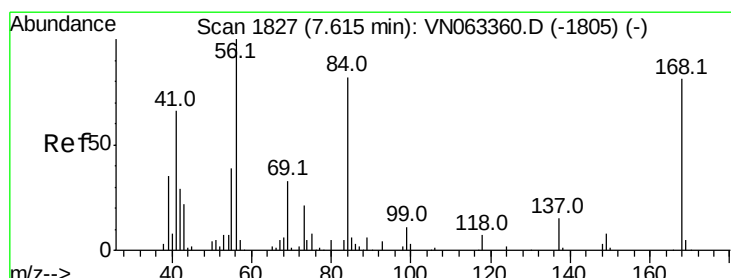
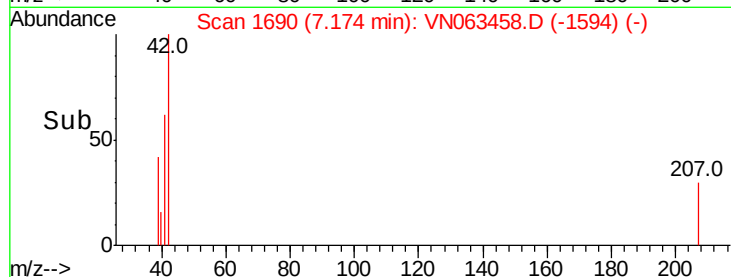
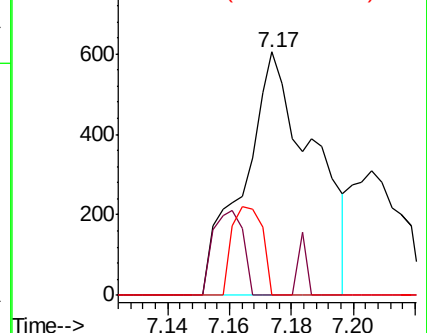
71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.204 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

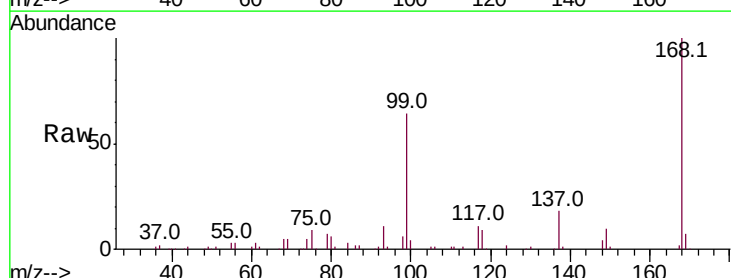
Tgt Ion: 56 Resp: 7157

Ion Ratio Lower Upper

56 100

69 152.2 26.1 39.1#

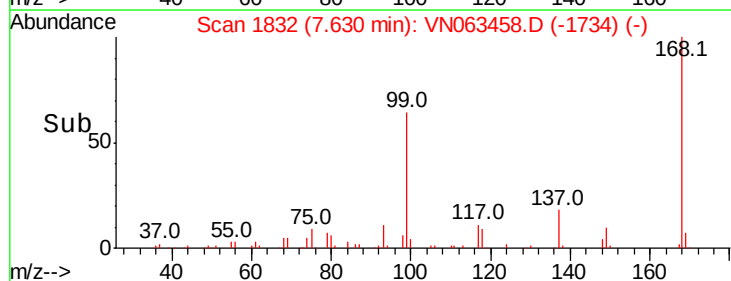
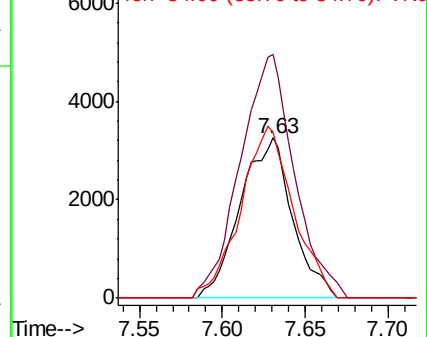
84 103.7 65.4 98.2#

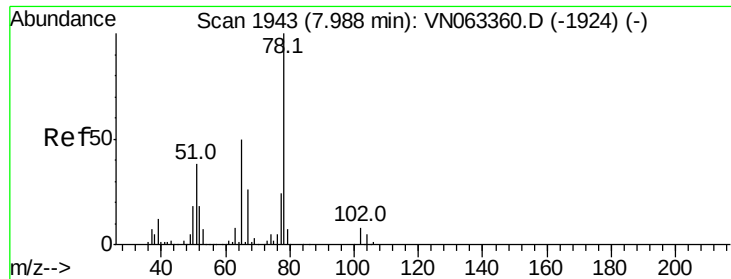


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

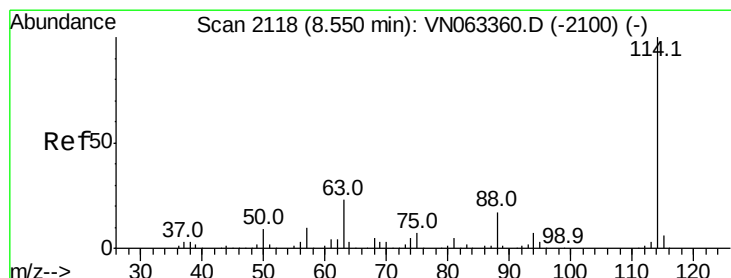
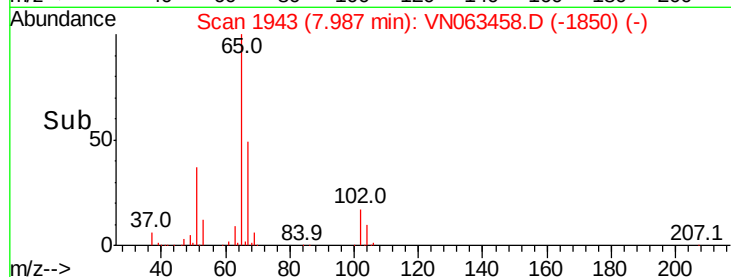
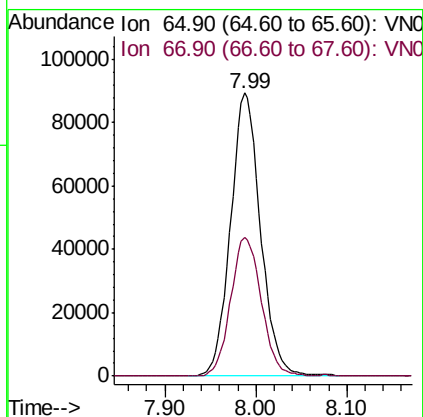
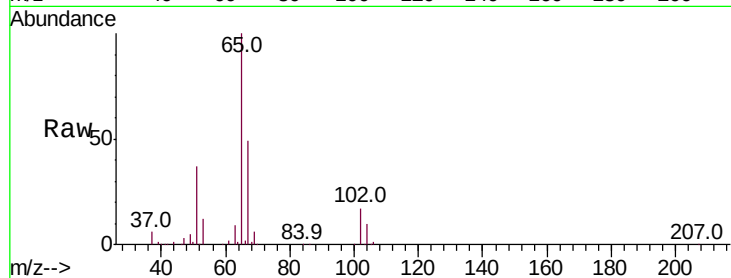




#33
 1,2-Dichloroethane-d4
 Concen: 47.534 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063458.D
 Acq: 18 Sep 2020 15:26

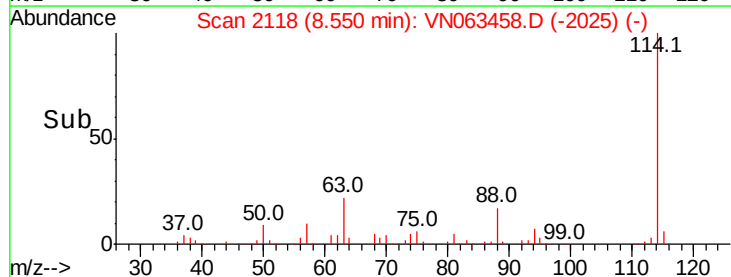
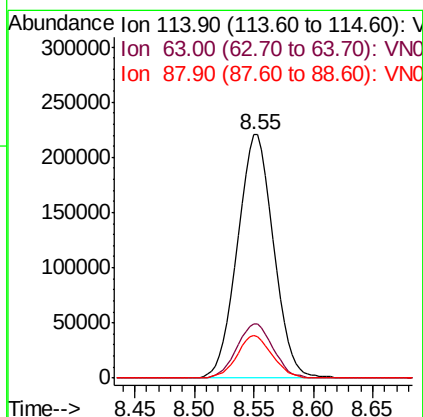
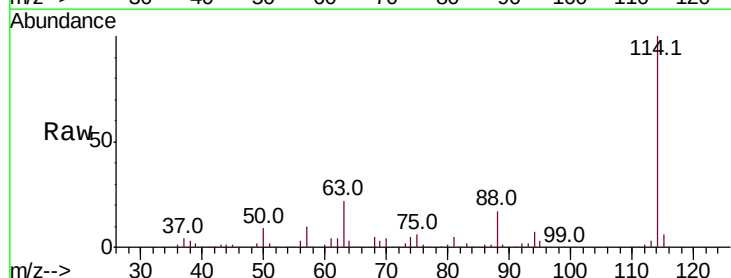
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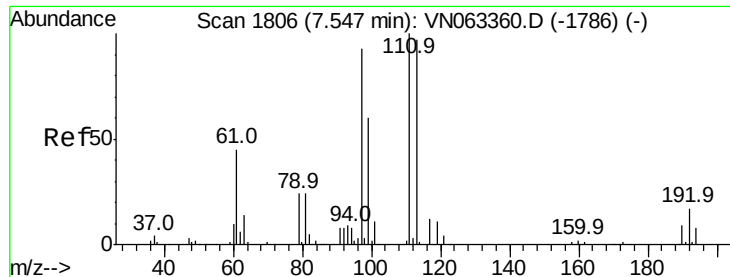
Tot Ion: 65 Resp: 204646
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063458.D
 Acq: 18 Sep 2020 15:26

Tgt Ion: 114 Resp: 464579
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 46.4
 88 17.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 45.459 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#13

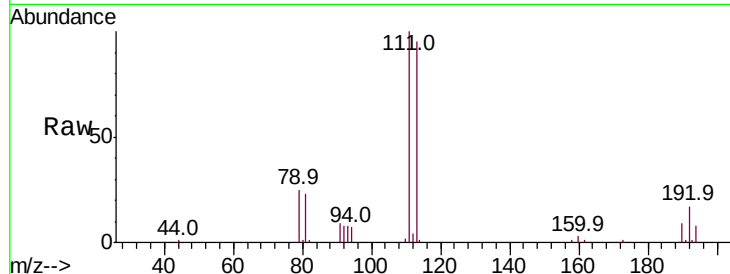
Tot Ion:113 Resp: 146206

Ion Ratio Lower Upper

113 100

111 104.9 82.9 124.3

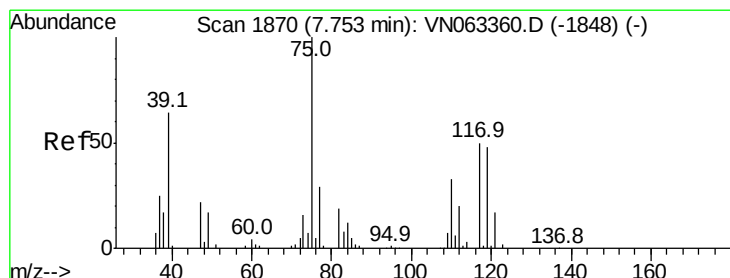
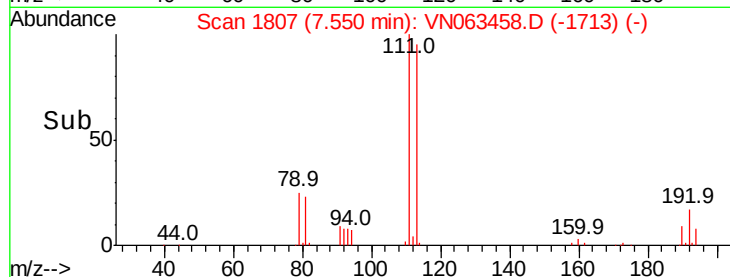
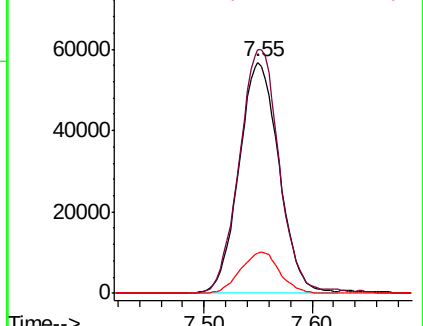
192 17.3 13.9 20.9



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: 4.702 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

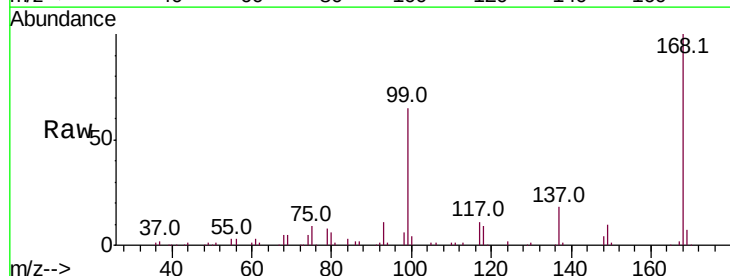
Tgt Ion: 75 Resp: 23270

Ion Ratio Lower Upper

75 100

110 9.1 16.5 49.5#

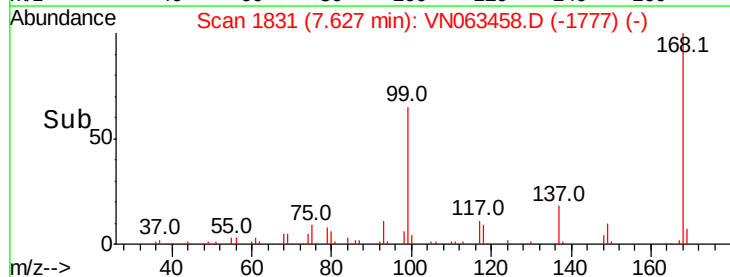
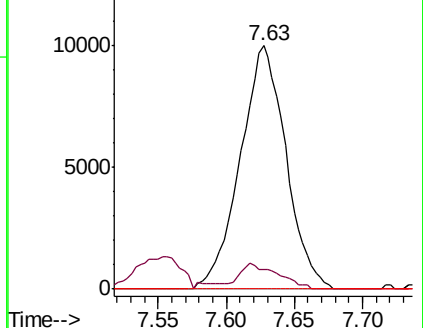
77 0.0 24.6 36.8#

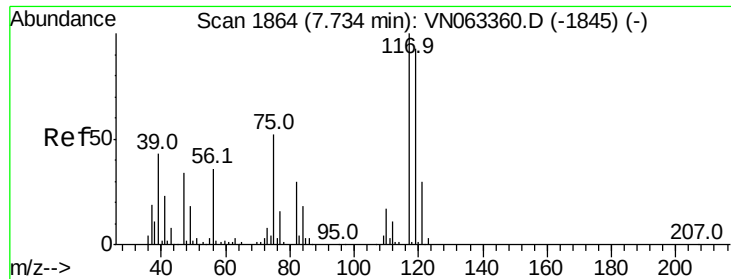


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

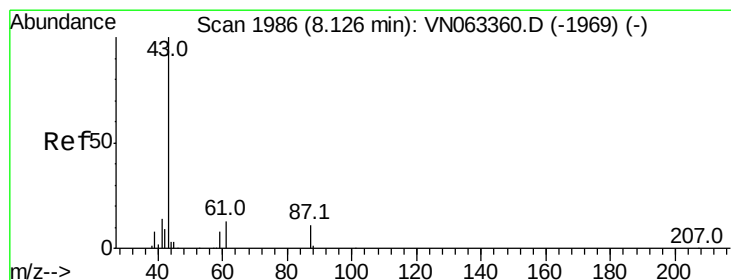
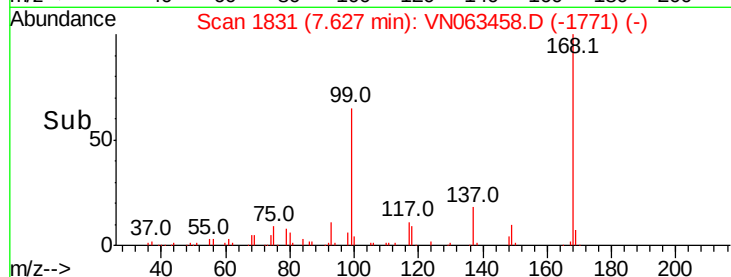
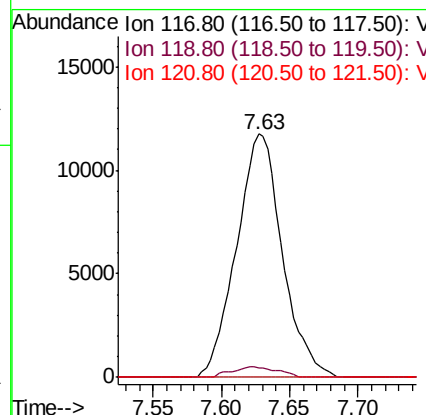
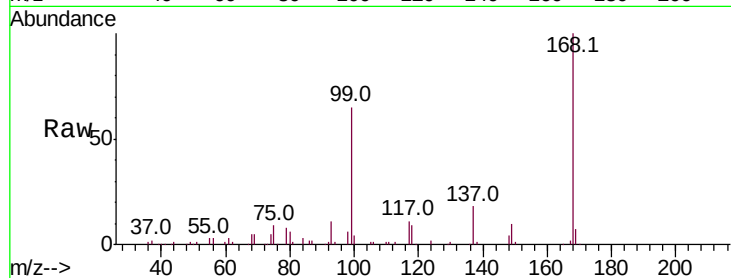




#38
Carbon Tetrachloride
Concen: 5.417 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063458.D
Acq: 18 Sep 2020 15:26

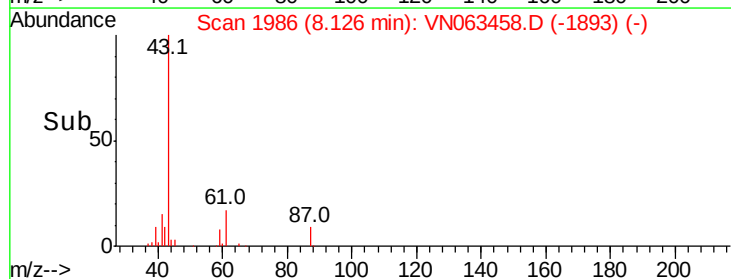
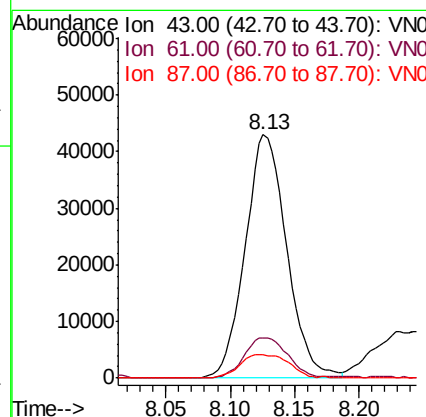
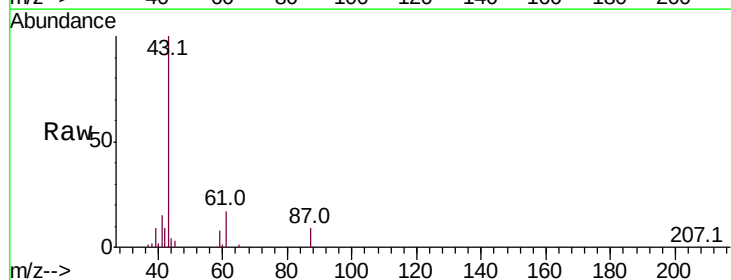
Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#13

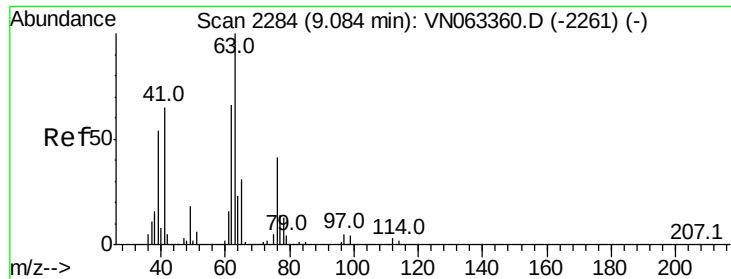
Tot Ion:117 Resp: 27371
Ion Ratio Lower Upper
117 100
119 4.1 74.5 111.7#
121 0.0 24.1 36.1#



#43
Isopropyl Acetate
Concen: 11.141 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN063458.D
Acq: 18 Sep 2020 15:26

Tgt Ion: 43 Resp: 96772
Ion Ratio Lower Upper
43 100
61 17.3 14.2 21.2
87 11.3 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.505 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

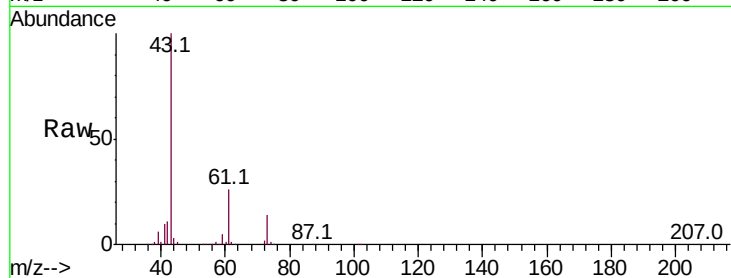
PB131701ZHE#13

Tot Ion: 63 Resp: 1944

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

9.23

1500

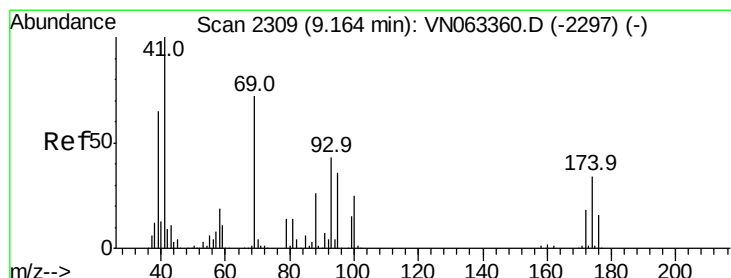
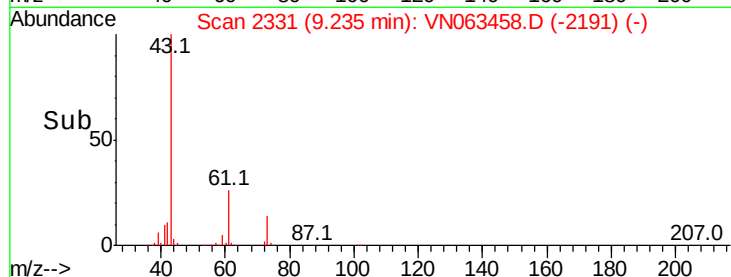
1000

500

0

Time-->

9.20 9.25



#48

Methyl methacrylate

Concen: 36.676 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

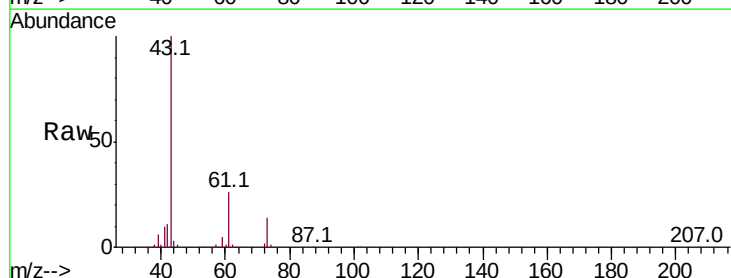
Tgt Ion: 41 Resp: 156514

Ion Ratio Lower Upper

41 100

69 0.1 59.3 88.9#

39 58.8 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

9.23

100000

80000

60000

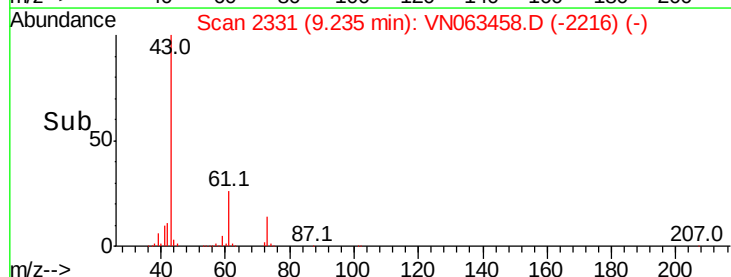
40000

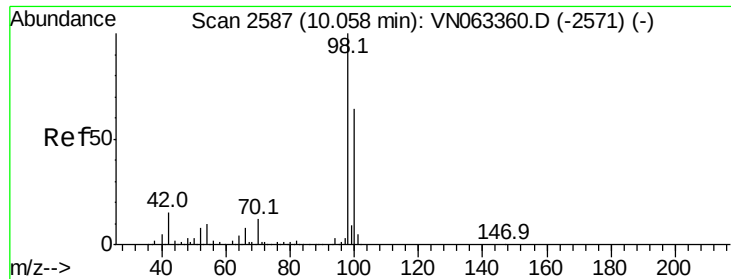
20000

0

Time-->

9.15 9.20 9.25 9.30





#50

Toluene-d8

Concen: 50.142 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

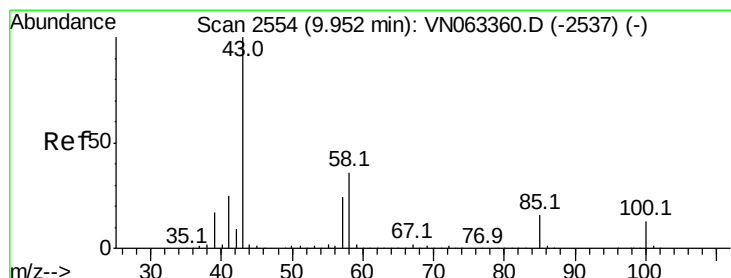
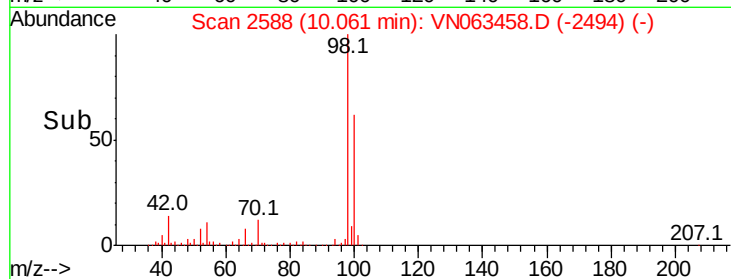
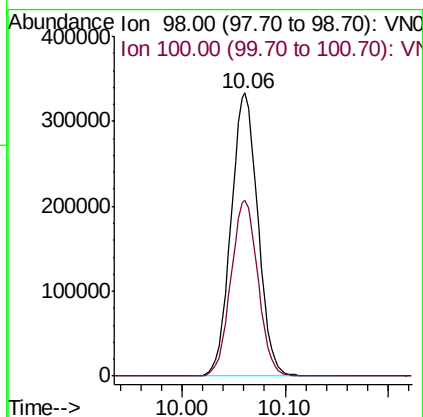
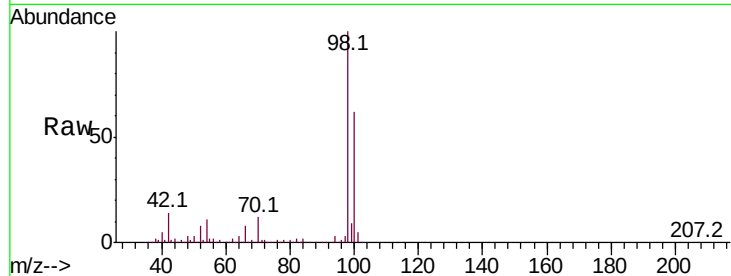
PB131701ZHE#13

Tot Ion: 98 Resp: 606387

Ion Ratio Lower Upper

98 100

100 62.5 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.037 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063458.D

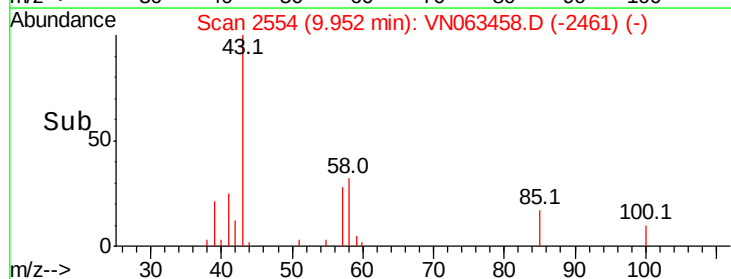
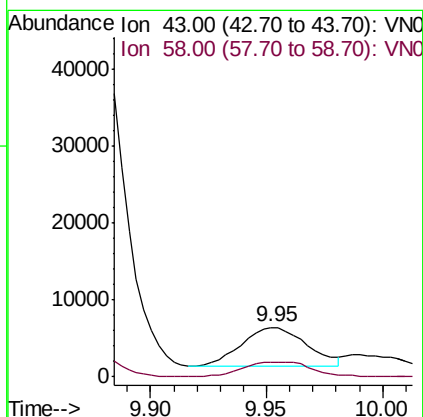
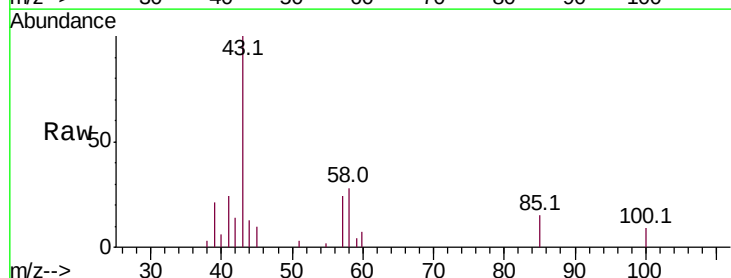
Acq: 18 Sep 2020 15:26

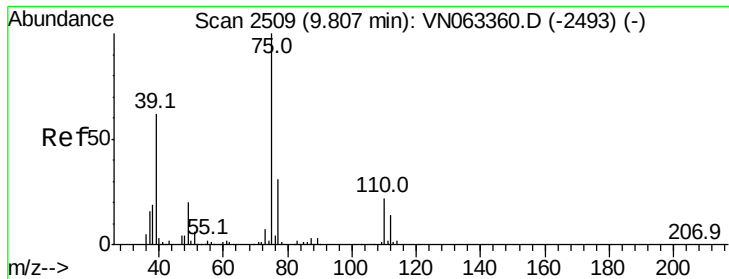
Tgt Ion: 43 Resp: 9906

Ion Ratio Lower Upper

43 100

58 40.1 29.0 43.6



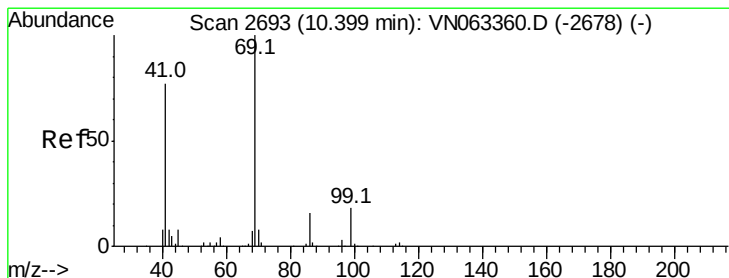
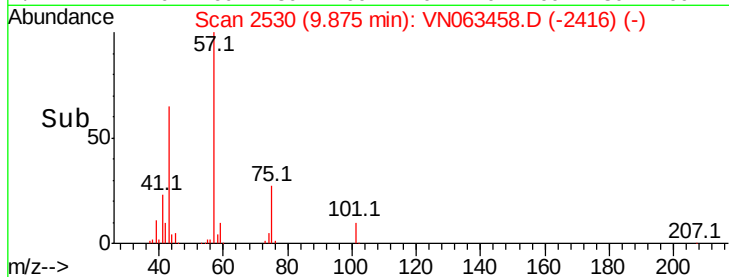
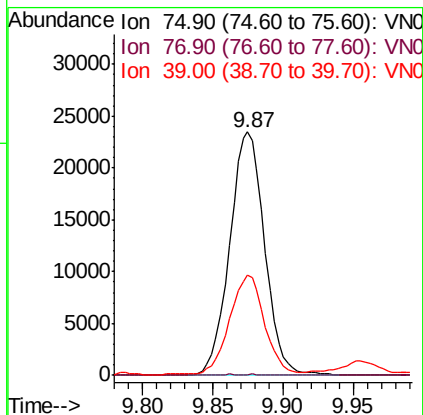
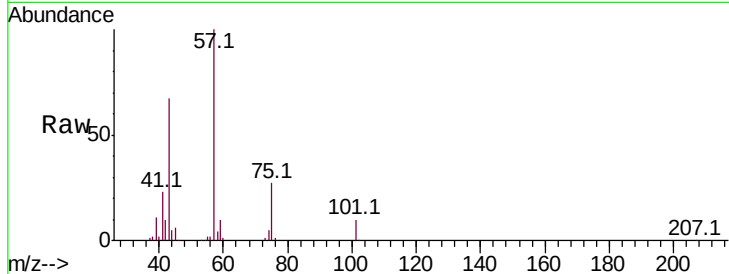


#54

cis-1,3-Dichloropropene
 Concen: 6.565 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063458.D
 Acq: 18 Sep 2020 15:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131701ZHE#13

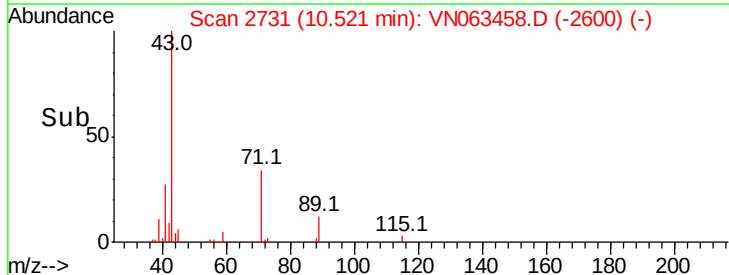
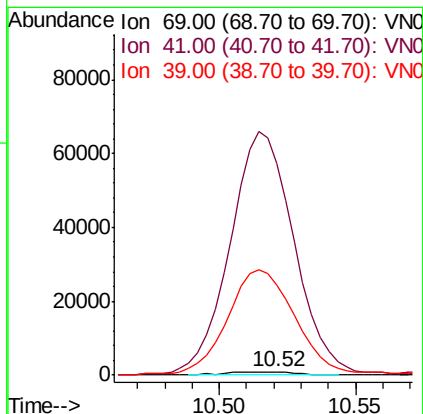
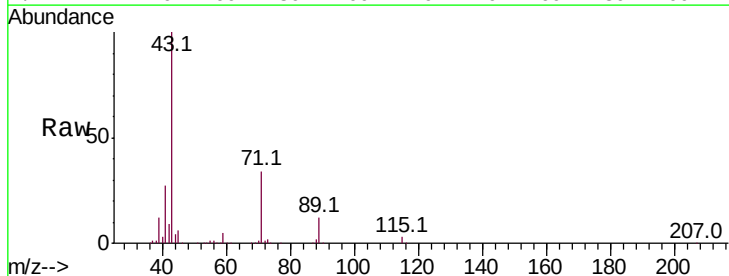
Tot Ion: 75 Resp: 40620
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 40.2 49.8 74.8#

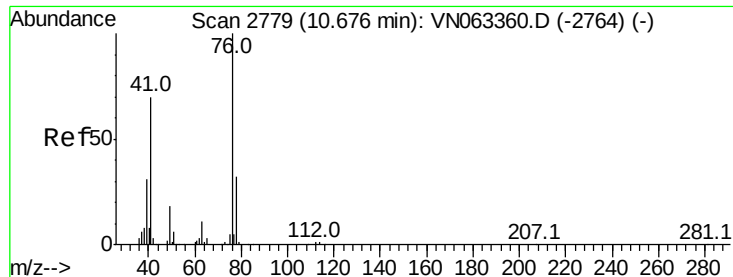


#56

Ethyl methacrylate
 Concen: 0.300 ug/l
 RT: 10.52 min Scan# 2731
 Delta R.T. 0.12 min
 Lab File: VN063458.D
 Acq: 18 Sep 2020 15:26

Tgt Ion: 69 Resp: 1581
 Ion Ratio Lower Upper
 69 100
 41 6763.0 61.0 91.6#
 39 3070.1 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 1.075 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

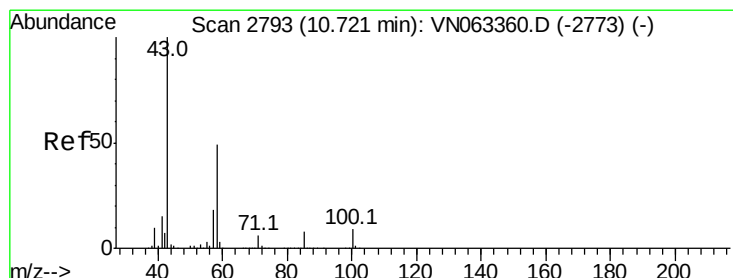
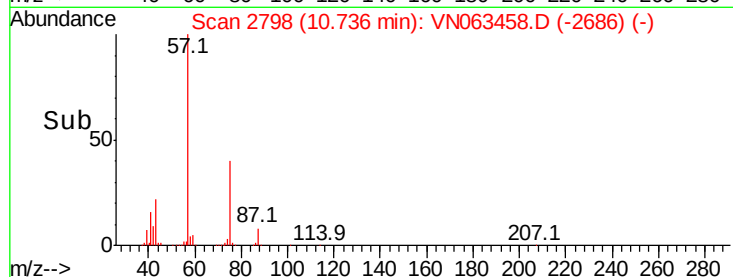
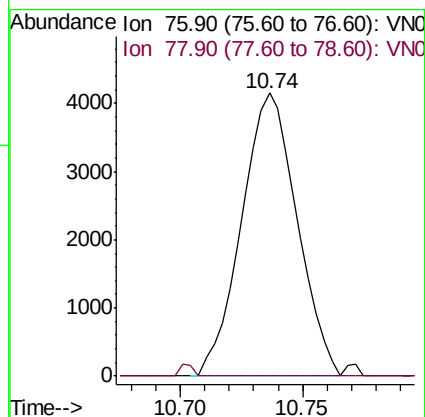
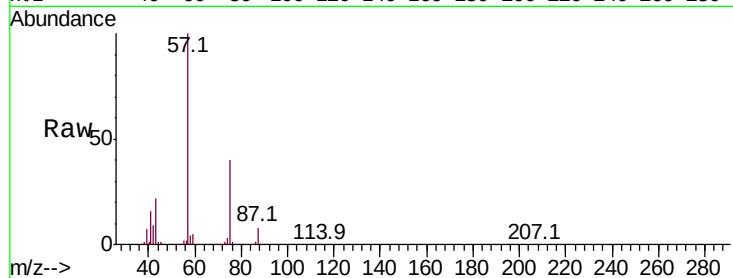
PB131701ZHE#13

Tot Ion: 76 Resp: 6541

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 30.690 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063458.D

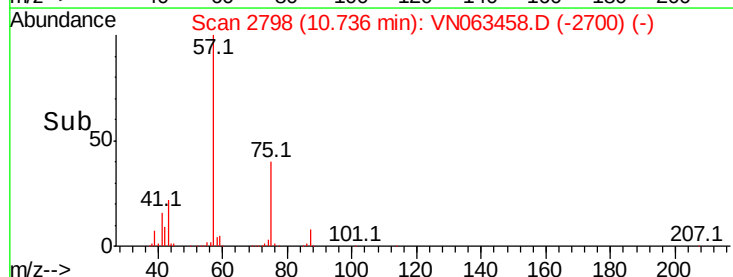
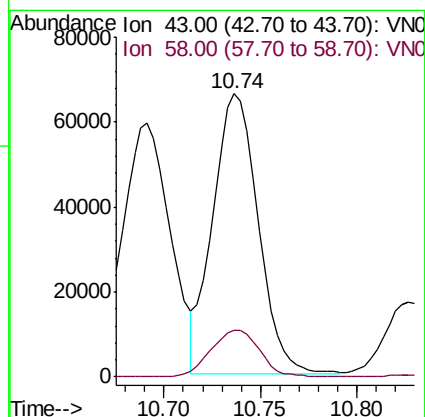
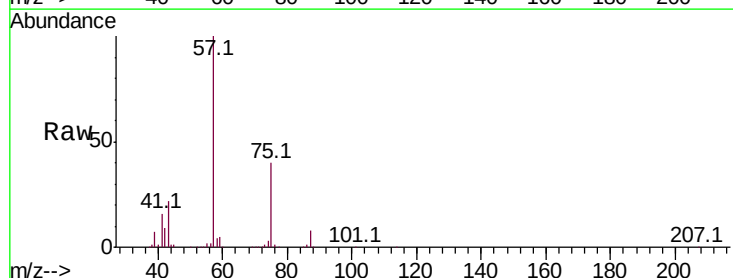
Acq: 18 Sep 2020 15:26

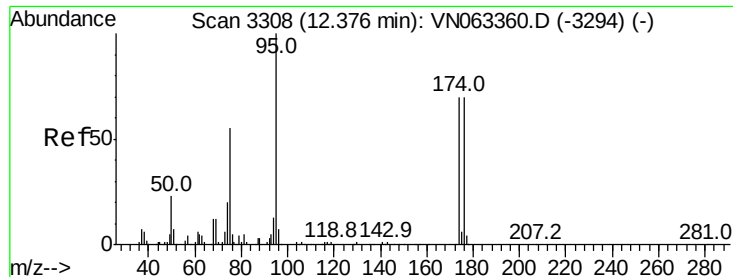
Tgt Ion: 43 Resp: 108119

Ion Ratio Lower Upper

43 100

58 17.8 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 55.056 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#13

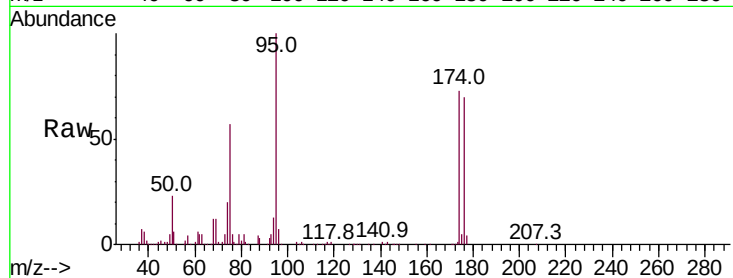
Tot Ion: 95 Resp: 244078

Ion Ratio Lower Upper

95 100

174 71.5 0.0 140.8

176 69.6 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

200000

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

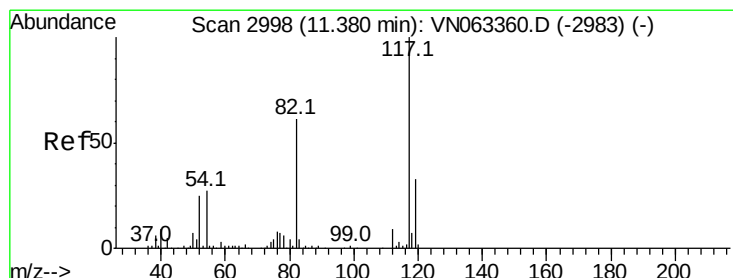
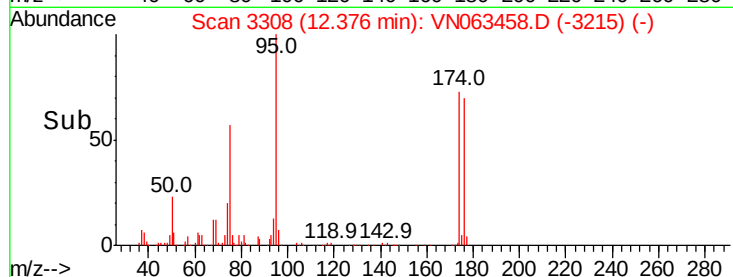
Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)

12.38

100000

50000

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

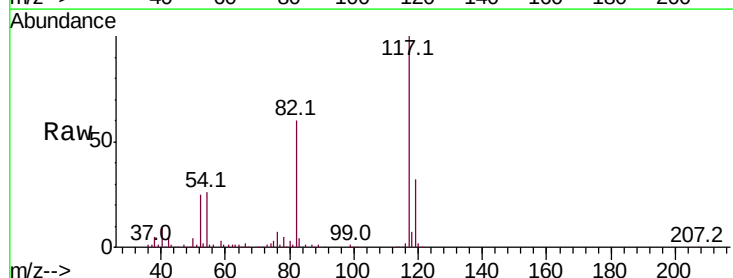
Tgt Ion: 117 Resp: 471044

Ion Ratio Lower Upper

117 100

82 60.5 49.2 73.8

119 31.8 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

300000

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

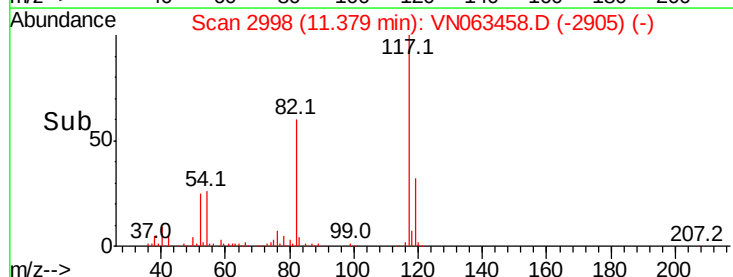
Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)

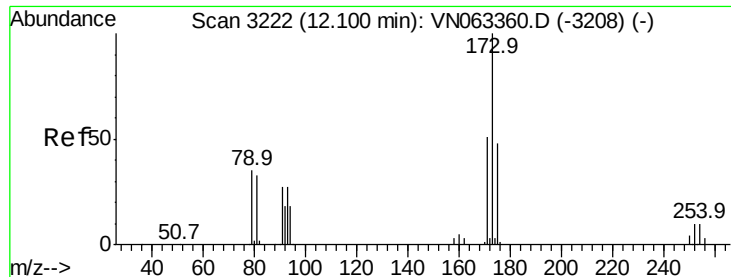
11.38

200000

100000

Time-->





#71

Bromoform

Concen: 0.587 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#13

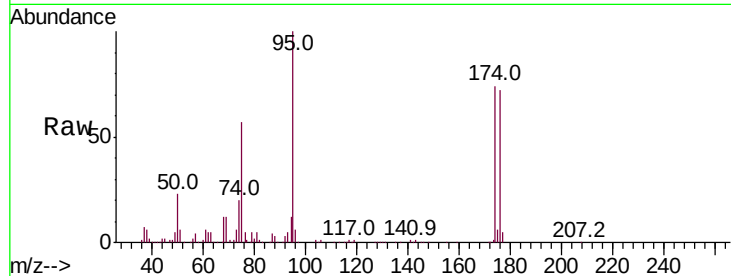
Tot Ion:173 Resp: 1602

Ion Ratio Lower Upper

173 100

175 672.3 24.0 72.0#

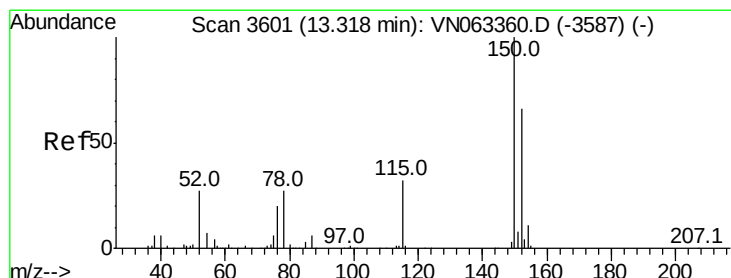
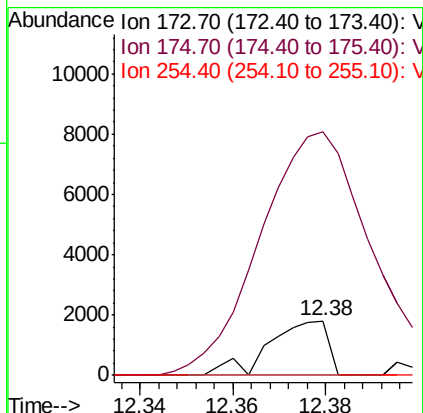
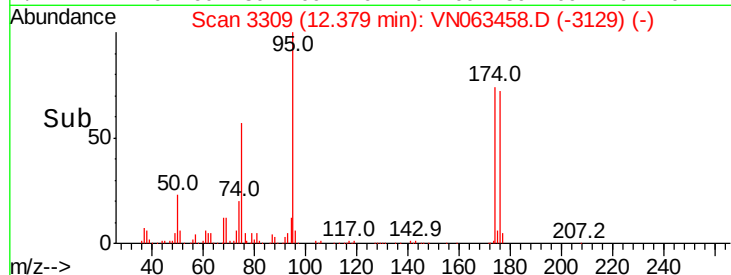
254 0.0 0.0 0.0



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: VN063458.D

Acq: 18 Sep 2020 15:26

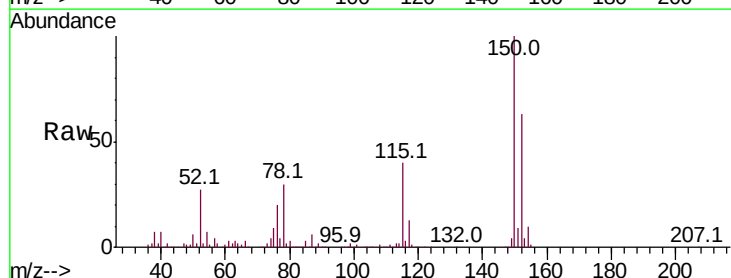
Tgt Ion:152 Resp: 204697

Ion Ratio Lower Upper

152 100

115 64.3 32.2 96.6

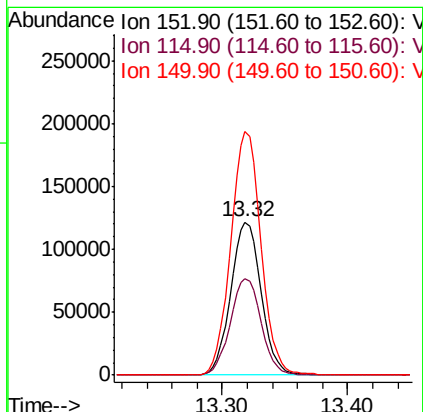
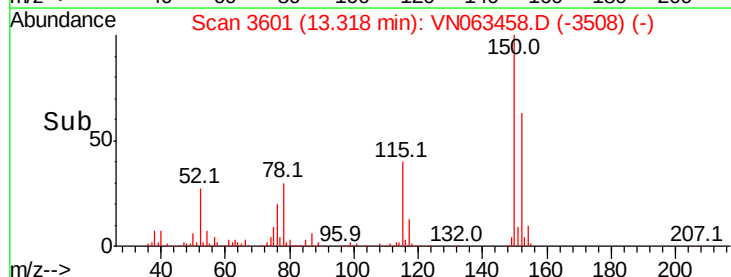
150 157.9 0.0 343.4

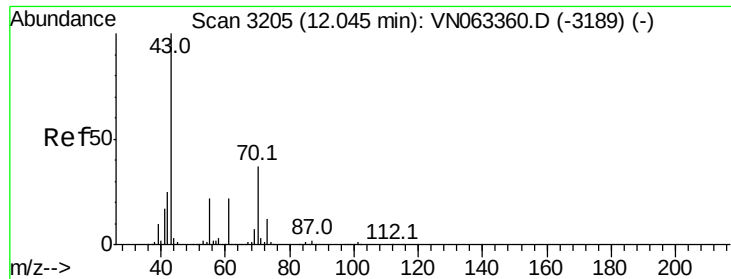


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.477 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

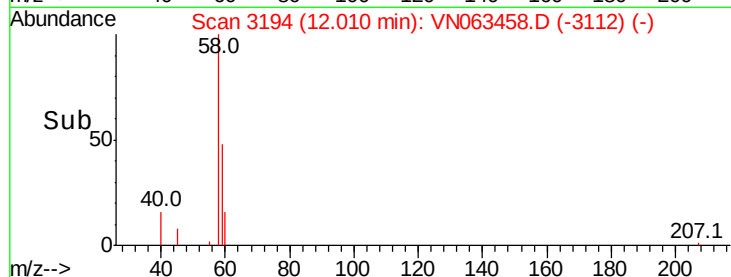
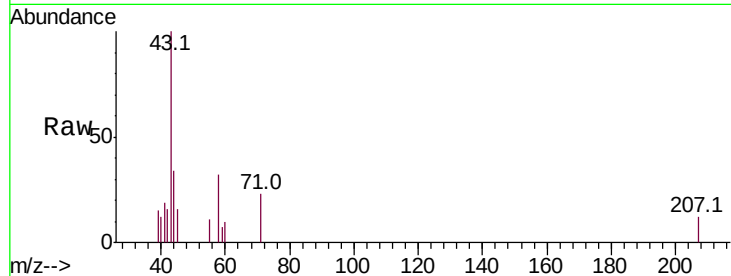
MSVOA_N

ClientSampleId :

PB131701ZHE#13

Tot Ion: 43 Resp: 3703

Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.6	44.4#
55	7.9	17.7	26.5#
61	0.0	17.4	26.2#

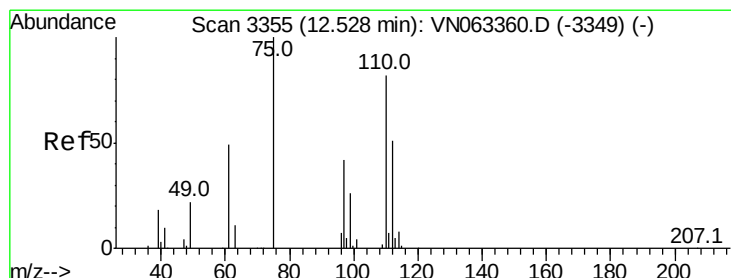


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 26.886 ug/l

RT: 12.38 min Scan# 3308

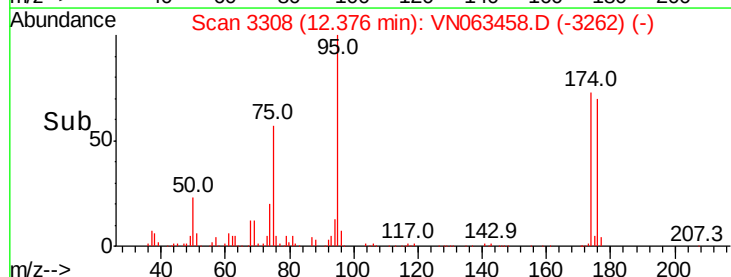
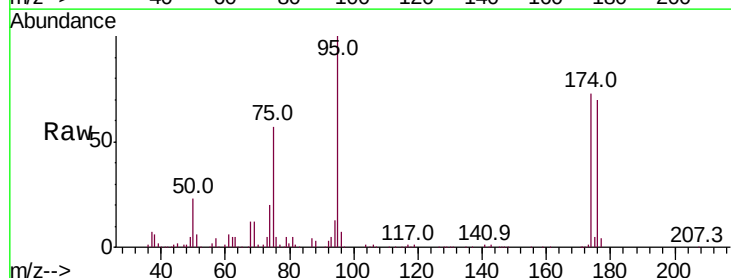
Delta R.T. -0.15 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

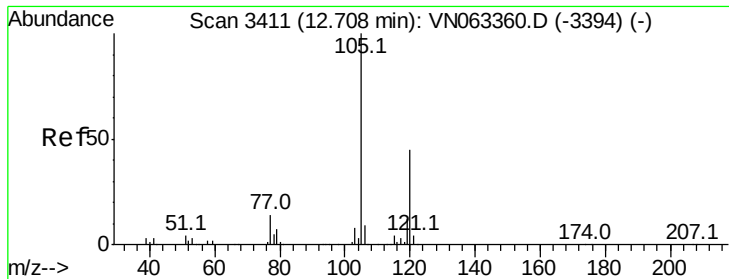
Tgt Ion: 75 Resp: 136217

Ion	Ratio	Lower	Upper
75	100		
77	0.9	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#80

1,3,5-Trimethylbenzene

Concen: 0.320 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

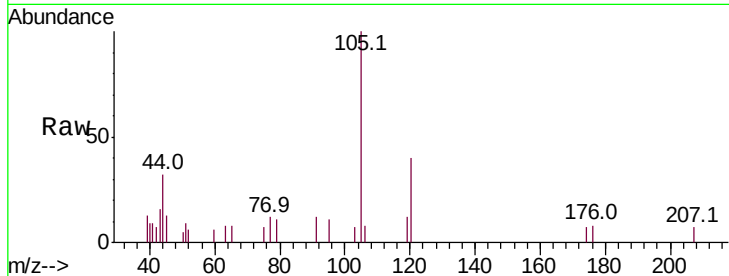
PB131701ZHE#13

Tot Ion:105 Resp: 4376

Ion Ratio Lower Upper

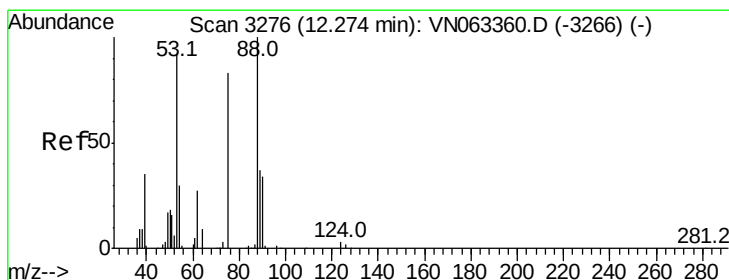
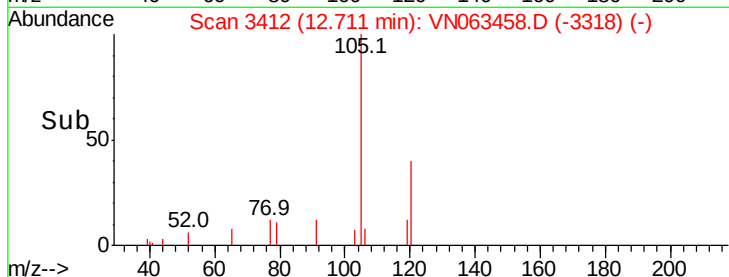
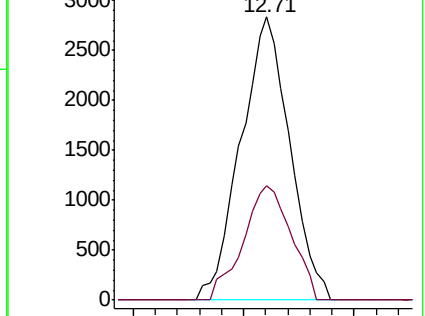
105 100

120 39.4 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 73.710 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063458.D

Acq: 18 Sep 2020 15:26

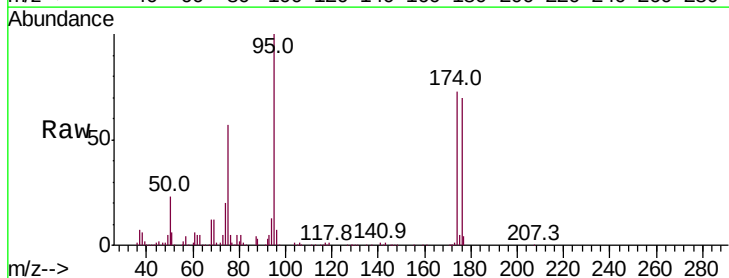
Tgt Ion: 75 Resp: 136217

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

