

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063656.D
 Acq On : 25 Sep 2020 3:25
 Operator : JC/MD
 Sample : PB131852ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131852ZHE#01

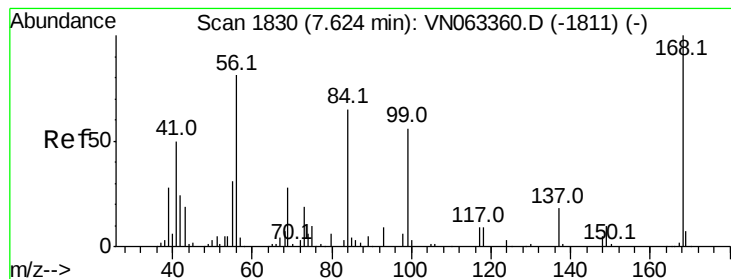
Quant Time: Sep 25 05:37:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	403146	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	407752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	174327	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	180096	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
35) Dibromofluoromethane	7.55	113	132968	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	10.06	98	518208	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	12.38	95	203854	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	115	0.239	ug/l #	72
16) Acetone	3.79	43	13609	12.185	ug/l #	84
18) Methyl Acetate	4.28	43	1770	0.624	ug/l	99
20) Methylene Chloride	4.51	84	18065	6.384	ug/l #	84
25) 2-Butanone	6.78	43	1408	0.820	ug/l #	51
29) Tetrahydrofuran	7.19	42	1529	1.303	ug/l #	52
31) Cyclohexane	7.62	56	5949	1.239	ug/l #	24
36) 1,1-Dichloropropene	7.62	75	19824	4.616	ug/l #	52
38) Carbon Tetrachloride	7.62	117	23931	5.458	ug/l #	17
41) Methacrylonitrile	7.16	41	394	0.208	ug/l #	100
43) Isopropyl Acetate	8.13	43	74964	9.946	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1637	0.490	ug/l #	43
48) Methyl methacrylate	9.15	41	5039	1.361	ug/l #	15
49) 1,4-Dioxane	9.24	88	185	3.481	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9490	2.249	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	29427	5.481	ug/l #	67
56) Ethyl methacrylate	10.51	69	2162	0.473	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5158	0.977	ug/l #	42
59) 2-Hexanone	10.74	43	85820	28.073	ug/l #	55
71) Bromoform	12.37	173	996	0.421	ug/l #	1
74) N-amyl acetate	12.01	43	4497	0.680	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	115799	26.837	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	3342	0.287	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	115799	73.578	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063656.D

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Instrument :

MSVOA_N

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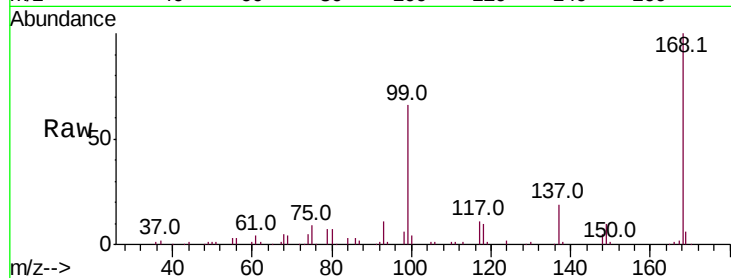
PB131852ZHE#01

Tot Ion:168 Resp: 204156

Ion Ratio Lower Upper

168 100

99 66.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

40000

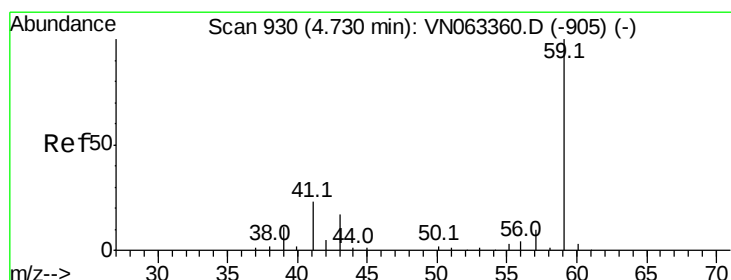
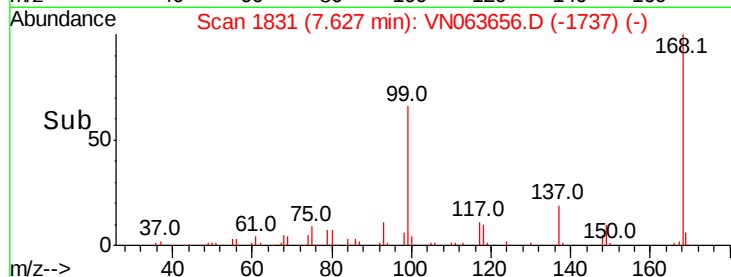
20000

0

Time-->

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.239 ug/l

RT: 4.71 min Scan# 925

Delta R.T. -0.02 min

Lab File: VN063656.D

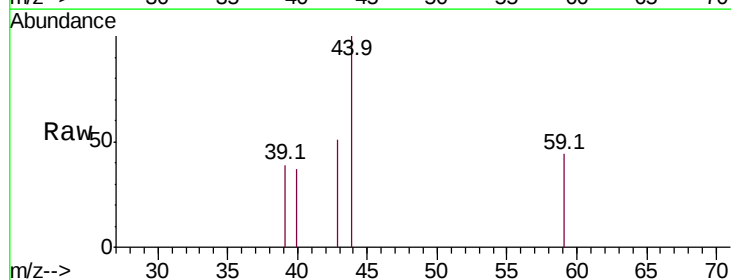
Acq: 25 Sep 2020 3:25

Tgt Ion: 59 Resp: 115

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.71

200

150

100

50

0

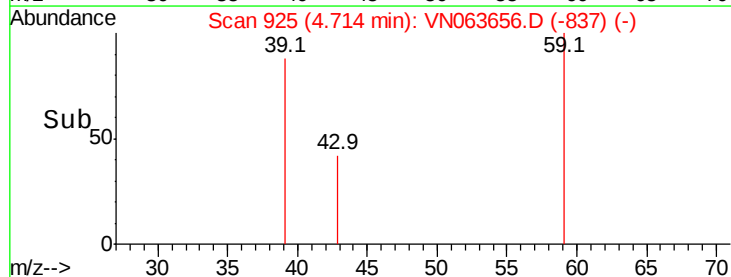
Time-->

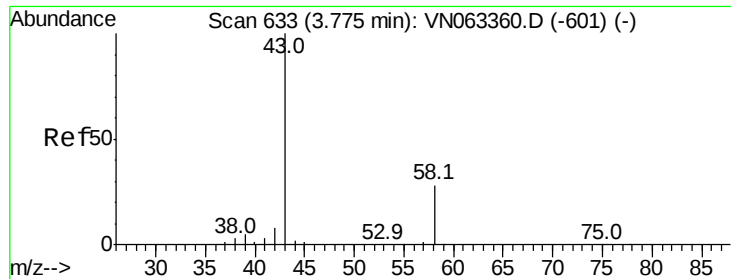
4.70

4.71

4.72

4.73





#16

Acetone

Concen: 12.185 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

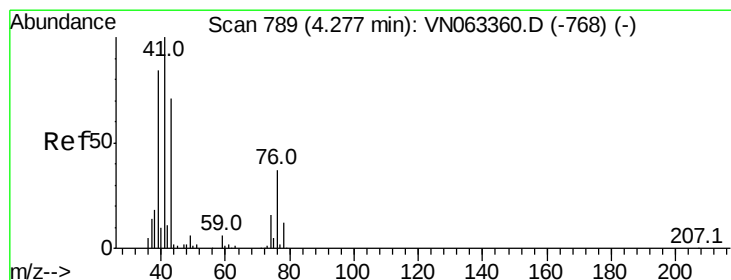
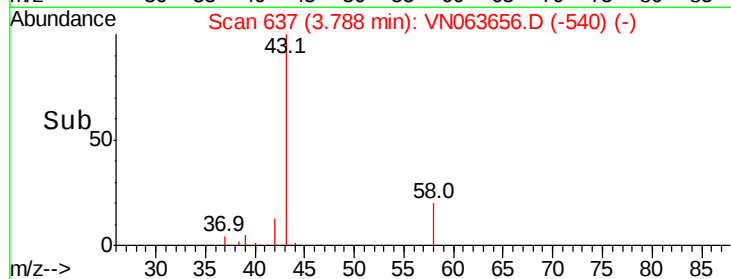
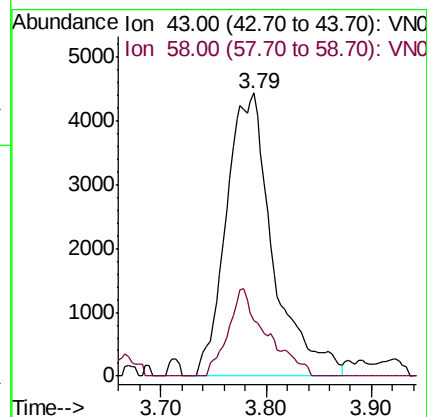
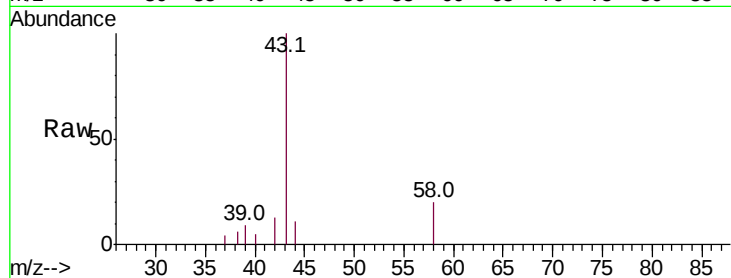
PB131852ZHE#01

Tot Ion: 43 Resp: 13609

Ion Ratio Lower Upper

43 100

58 19.6 22.3 33.5#



#18

Methyl Acetate

Concen: 0.624 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063656.D

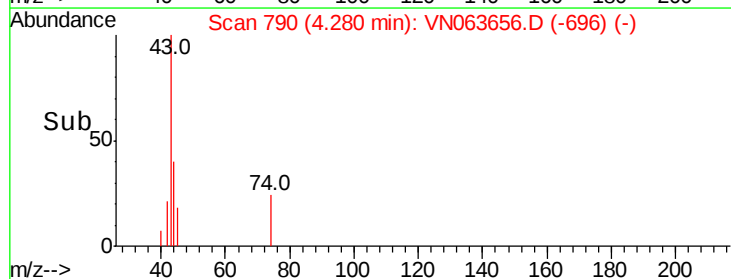
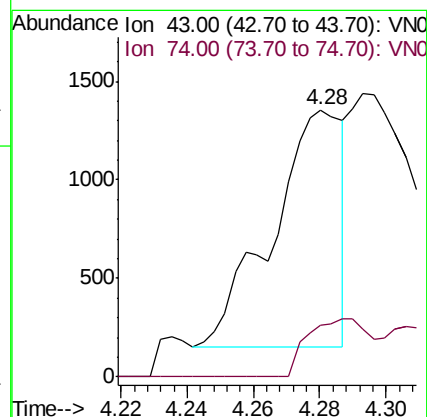
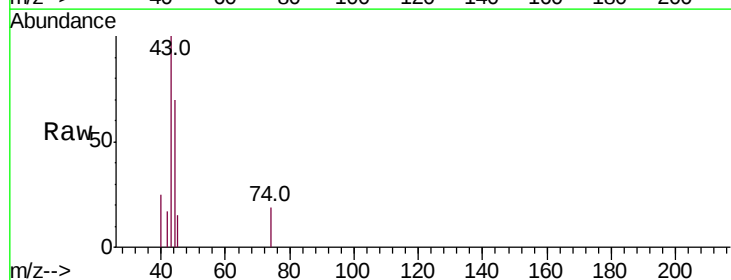
Acq: 25 Sep 2020 3:25

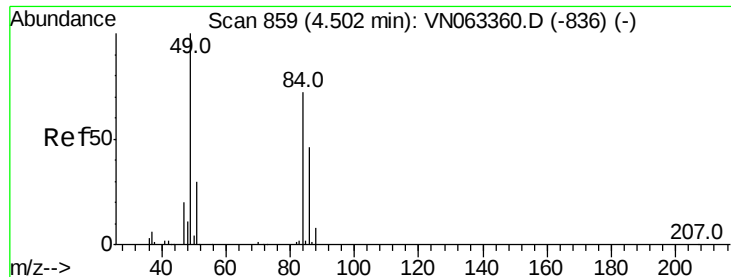
Tgt Ion: 43 Resp: 1770

Ion Ratio Lower Upper

43 100

74 21.5 17.4 26.2

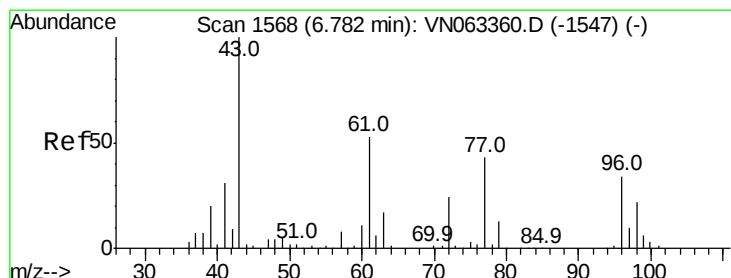
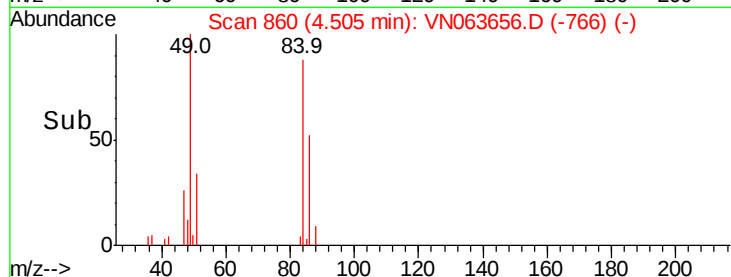
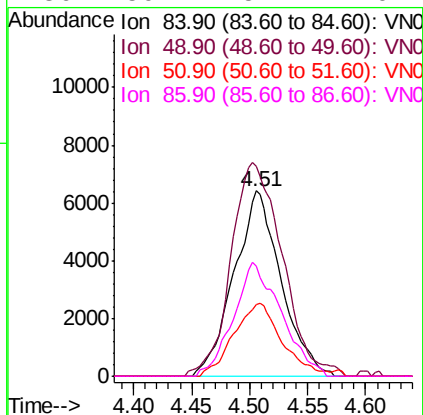
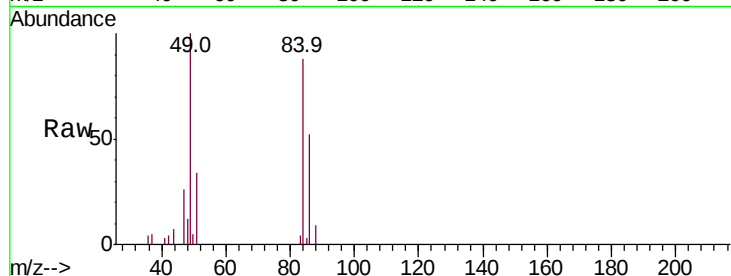




#20
Methvlene Chloride
Concen: 6.384 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063656.D
Acq: 25 Sep 2020 3:25

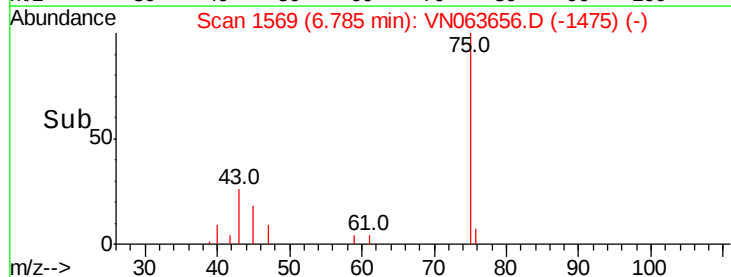
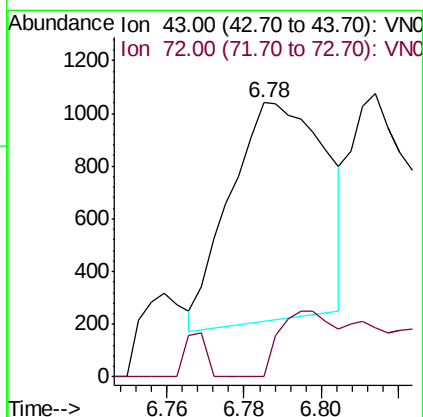
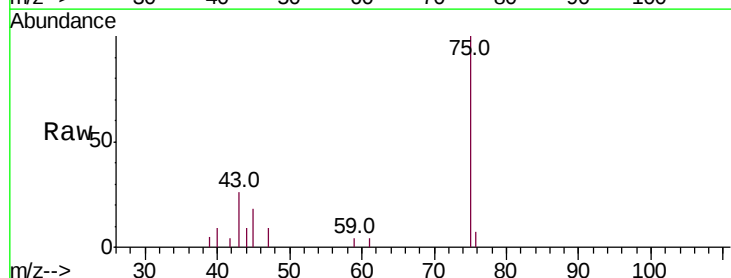
Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#01

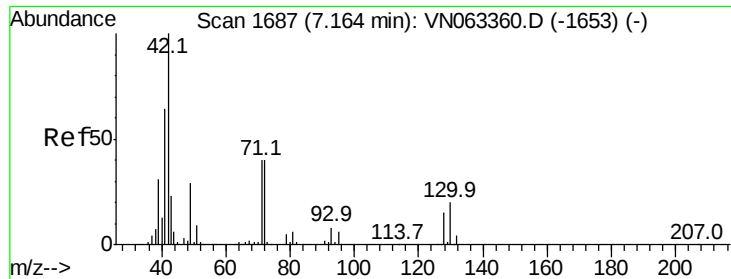
Tot Ion: 84 Resp: 18065
Ion Ratio Lower Upper
84 100
49 110.2 110.7 166.1#
51 38.5 32.9 49.3
86 59.2 51.1 76.7



#25
2-Butanone
Concen: 0.820 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN063656.D
Acq: 25 Sep 2020 3:25

Tgt Ion: 43 Resp: 1408
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#





#29

Tetrahydrofuran

Concen: 1.303 ug/l

RT: 7.19 min Scan# 1694

Delta R.T. 0.02 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#01

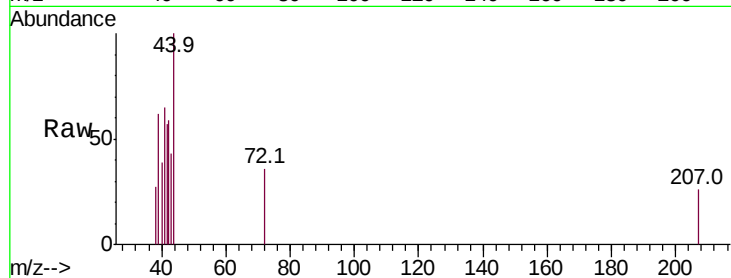
Tot Ion: 42 Resp: 1529

Ion Ratio Lower Upper

42 100

72 20.5 32.1 48.1#

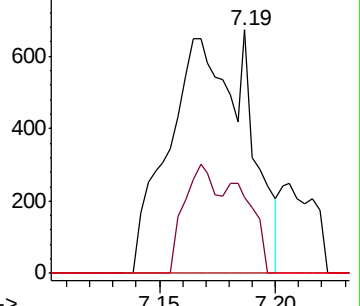
71 0.0 31.2 46.8#



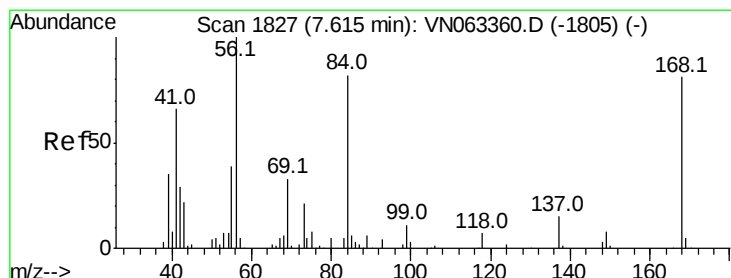
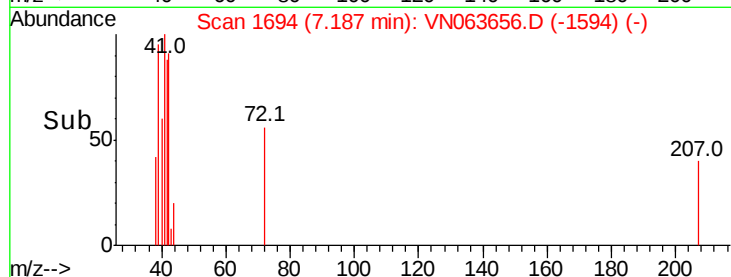
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.239 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

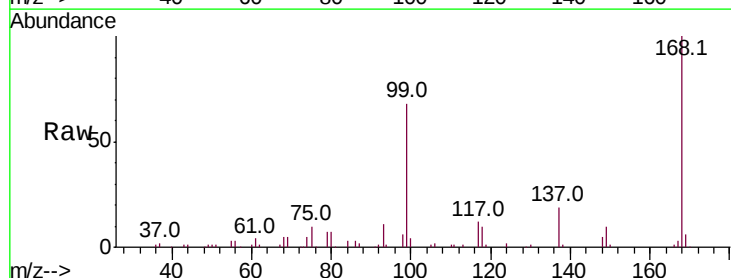
Tgt Ion: 56 Resp: 5949

Ion Ratio Lower Upper

56 100

69 155.3 26.1 39.1#

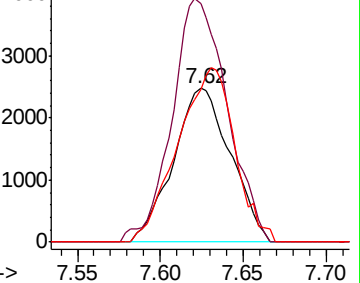
84 99.6 65.4 98.2#



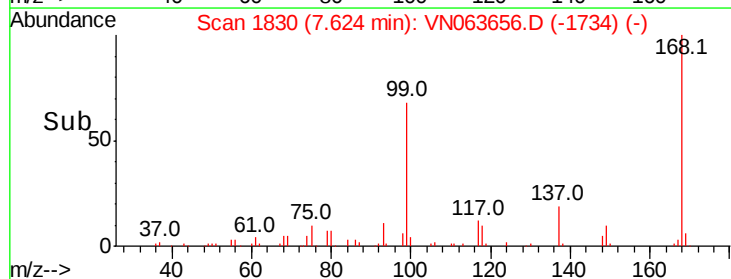
Abundance Ion 56.00 (55.70 to 56.70): VN0

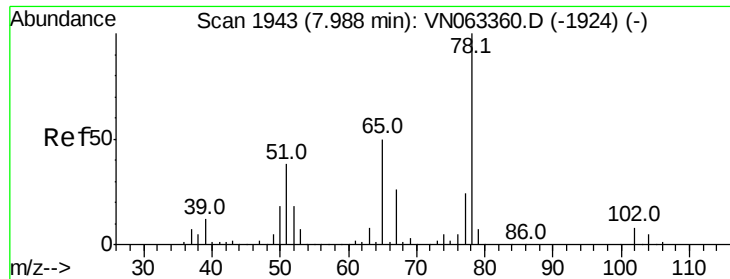
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.822 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

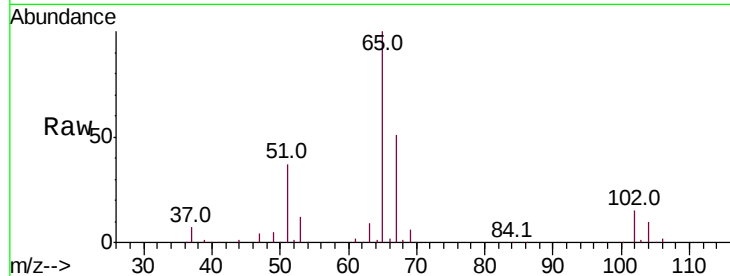
PB131852ZHE#01

Tot Ion: 65 Resp: 180096

Ion Ratio Lower Upper

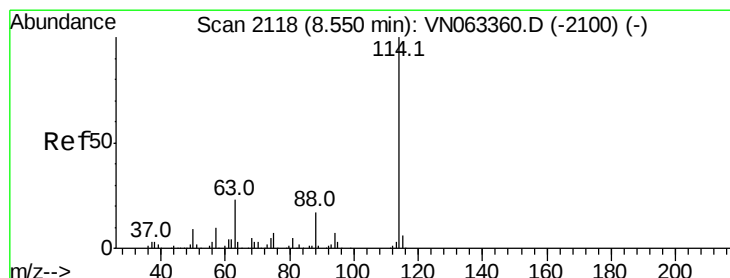
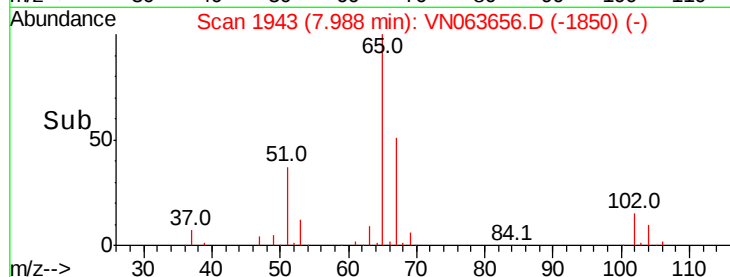
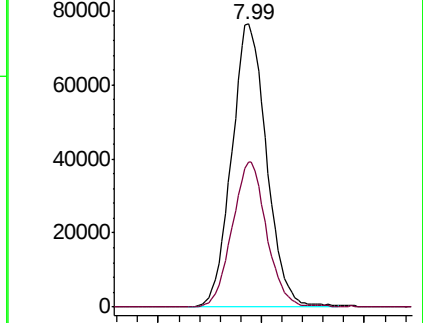
65 100

67 50.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

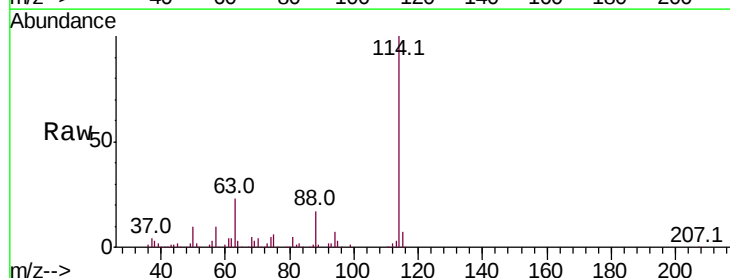
Tgt Ion: 114 Resp: 403146

Ion Ratio Lower Upper

114 100

63 22.7 0.0 46.4

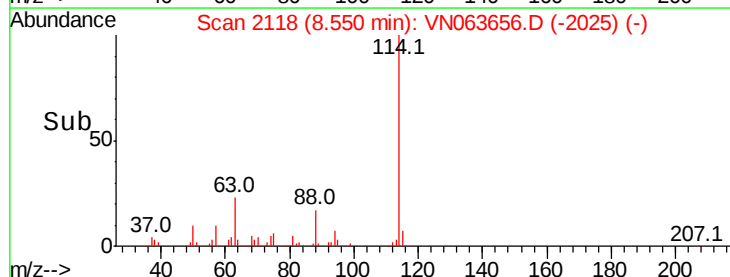
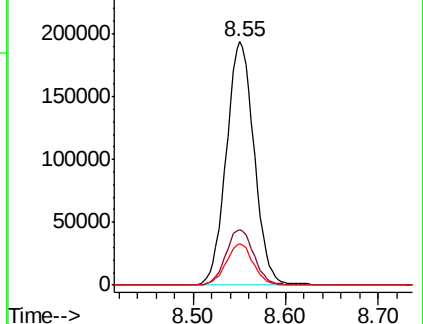
88 17.2 0.0 33.2

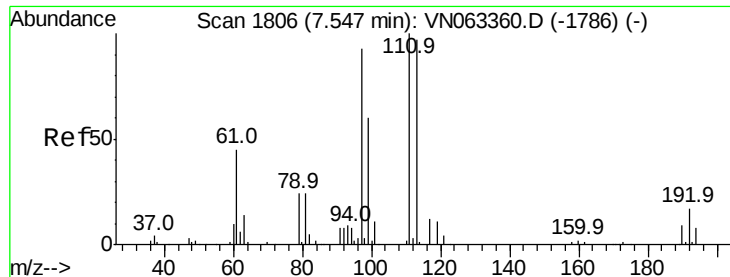


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)

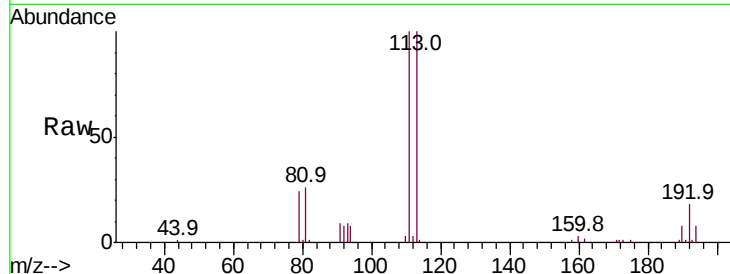




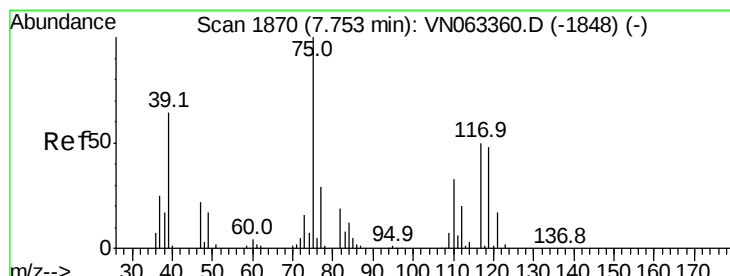
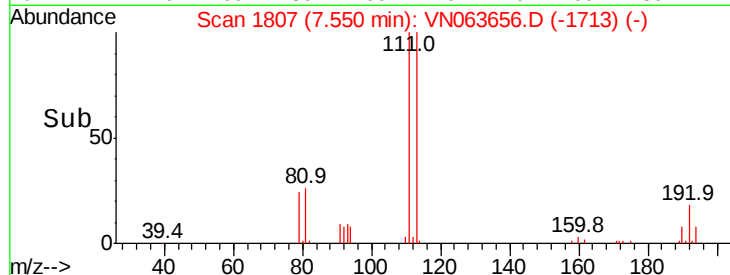
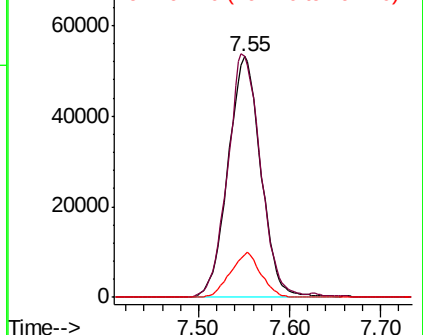
#35
 Dibromofluoromethane
 Concen: 47.643 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063656.D
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Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.9	124.3
192	17.3	13.9	20.9

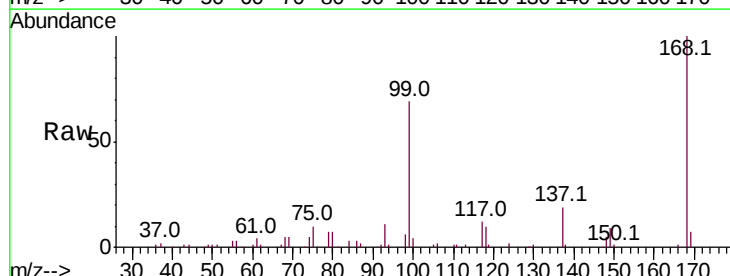


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

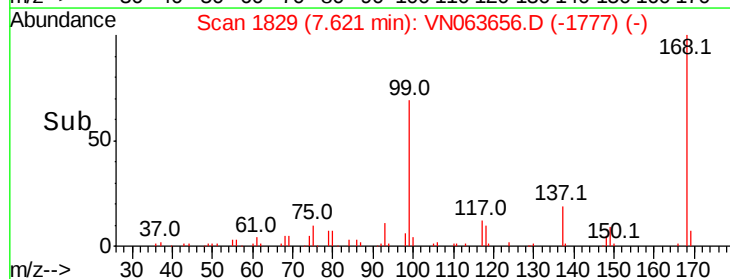
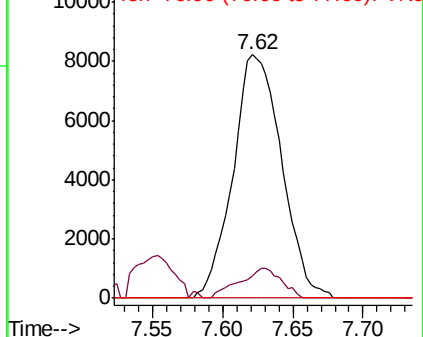


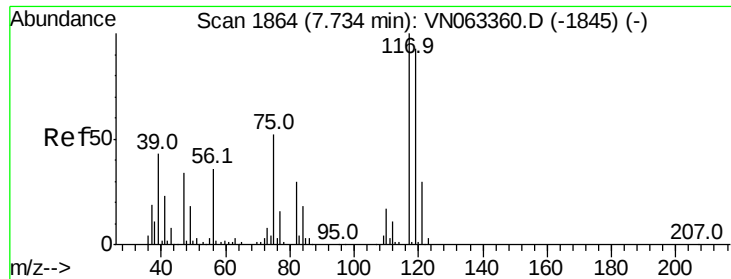
#36
 1,1-Dichloropropene
 Concen: 4.616 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN063656.D
 Acq: 25 Sep 2020 3:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	16.5	49.5#
77	0.0	24.6	36.8#



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

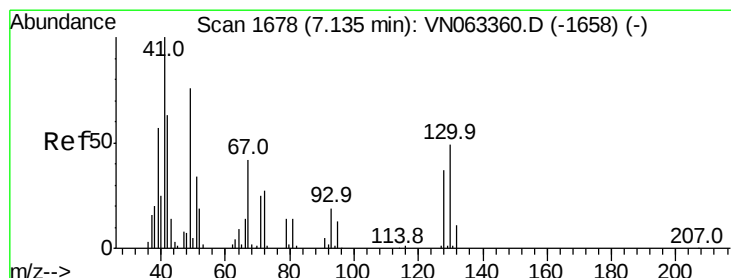
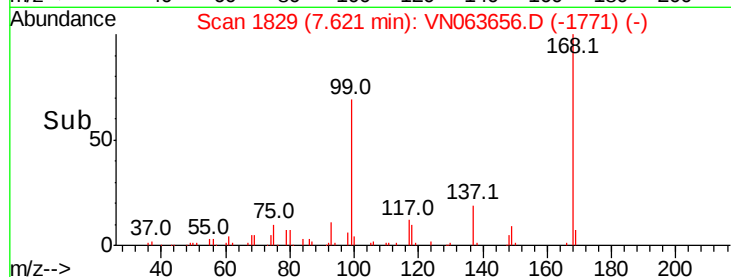
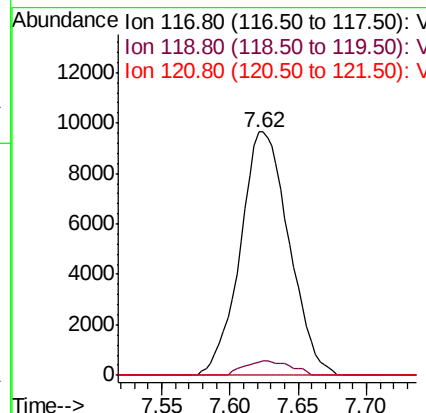
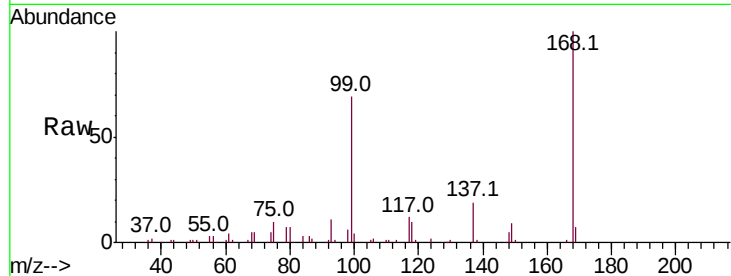




#38
Carbon Tetrachloride
Concen: 5.458 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. -0.11 min
Lab File: VN063656.D
Acq: 25 Sep 2020 3:25

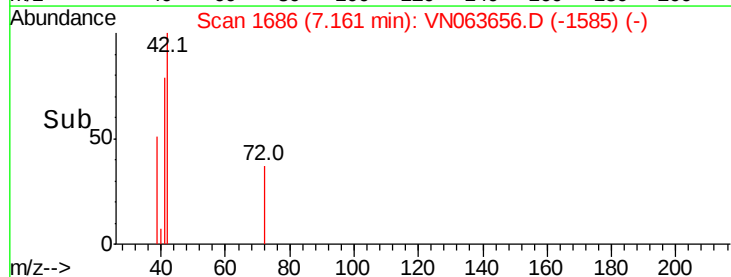
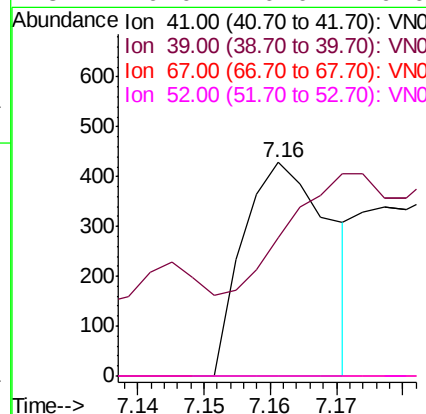
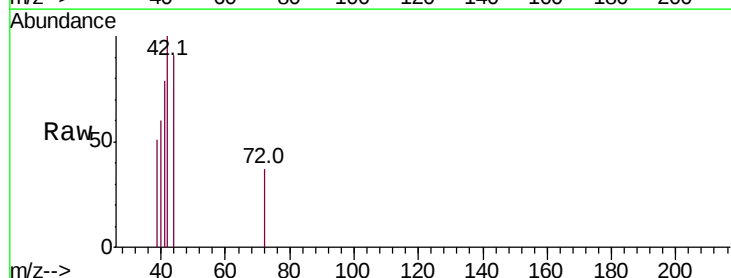
Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#01

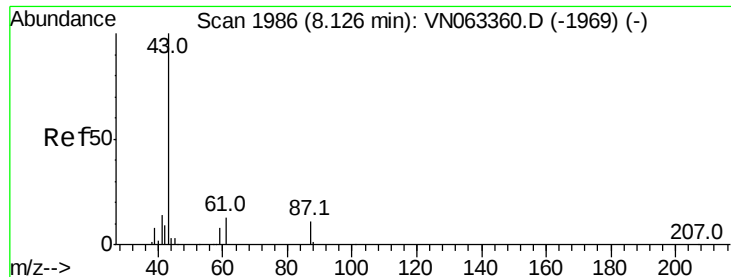
Tot Ion:117 Resp: 23931
Ion Ratio Lower Upper
117 100
119 5.4 74.5 111.7#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.208 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN063656.D
Acq: 25 Sep 2020 3:25

Tgt Ion: 41 Resp: 394
Ion Ratio Lower Upper
41 100
39 98.0 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 9.946 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#01

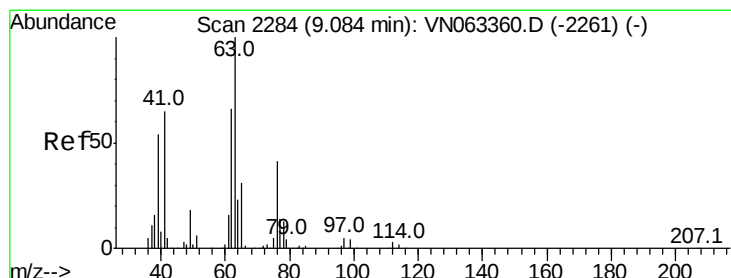
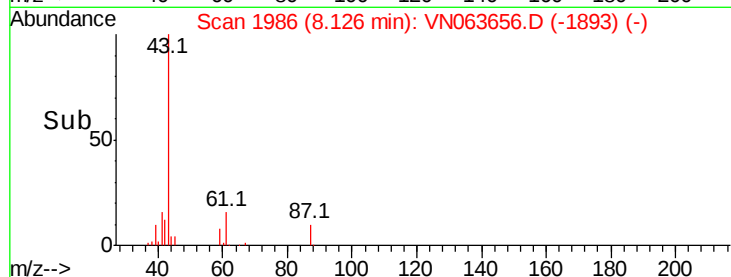
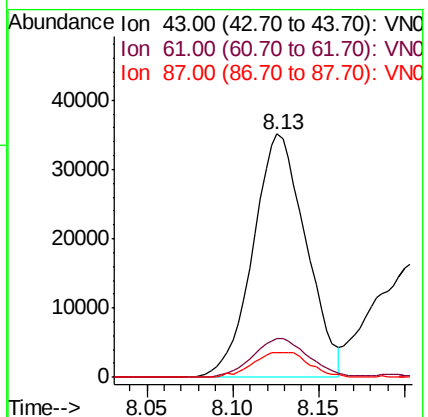
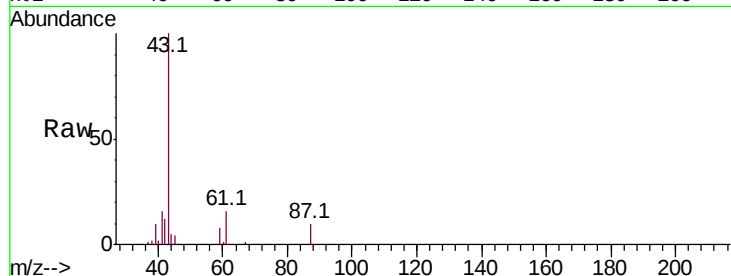
Tot Ion: 43 Resp: 74964

Ion Ratio Lower Upper

43 100

61 16.9 14.2 21.2

87 10.9 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.490 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063656.D

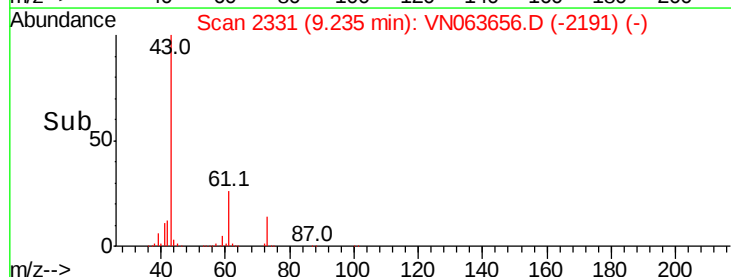
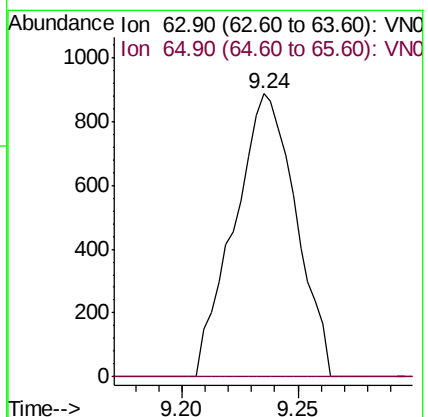
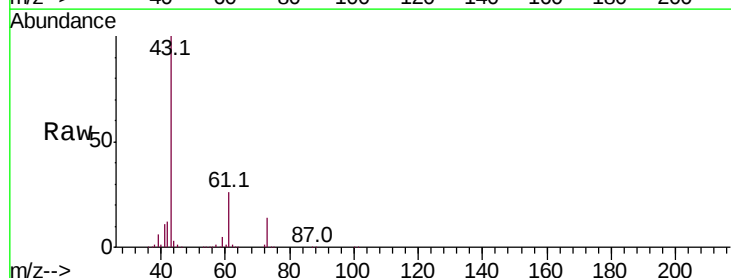
Acq: 25 Sep 2020 3:25

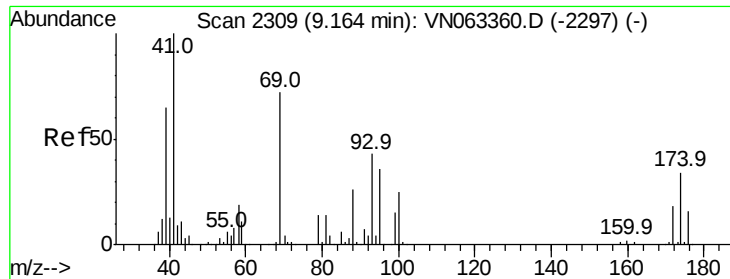
Tgt Ion: 63 Resp: 1637

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#





#48

Methyl methacrylate

Concen: 1.361 ug/l

RT: 9.15 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#01

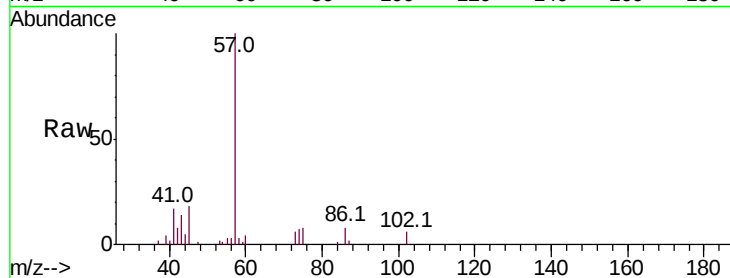
Tot Ion: 41 Resp: 5039

Ion Ratio Lower Upper

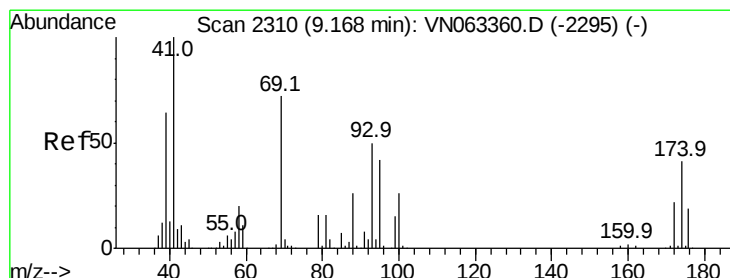
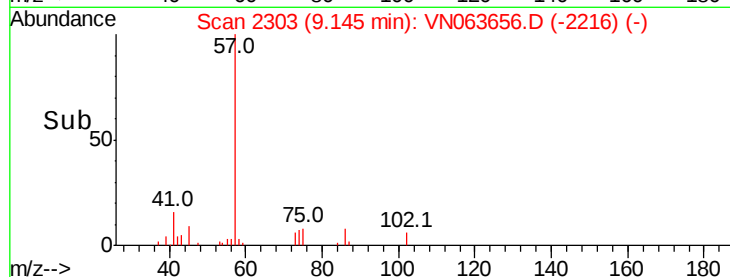
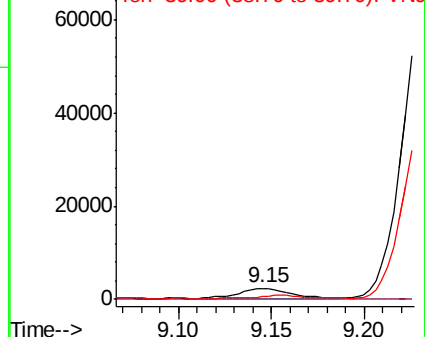
41 100

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



#49

1,4-Dioxane

Concen: 3.481 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

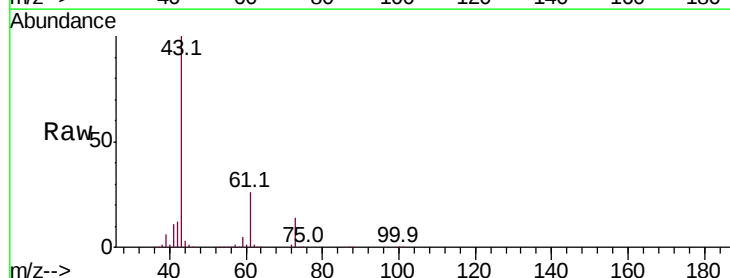
Tgt Ion: 88 Resp: 185

Ion Ratio Lower Upper

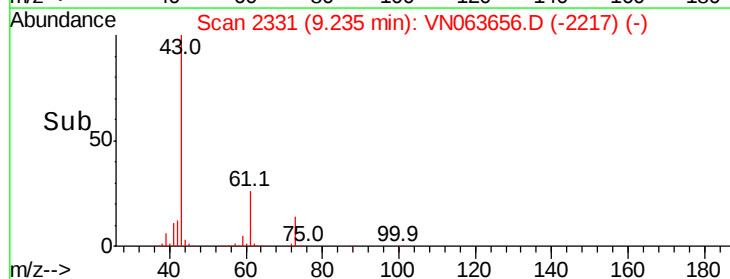
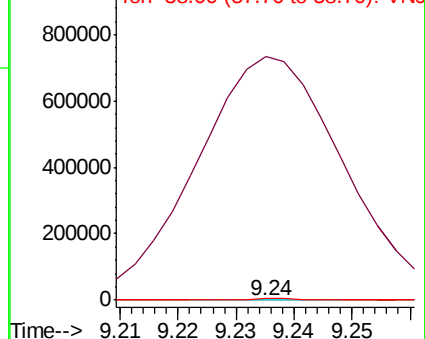
88 100

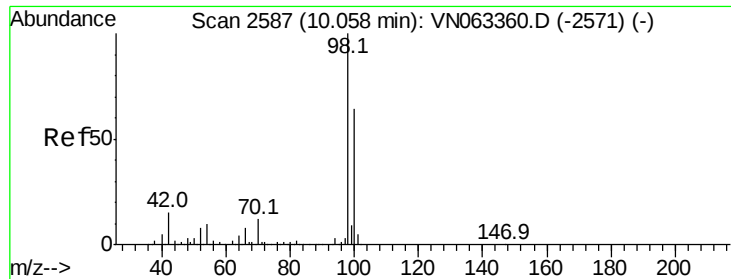
43 718533.0 32.6 49.0#

58 3267.0 60.0 90.0#



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





#50

Toluene-d8

Concen: 49.380 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

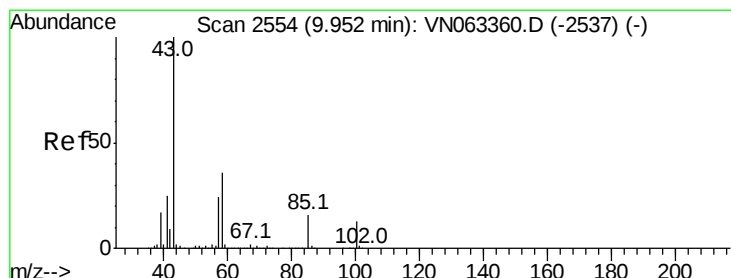
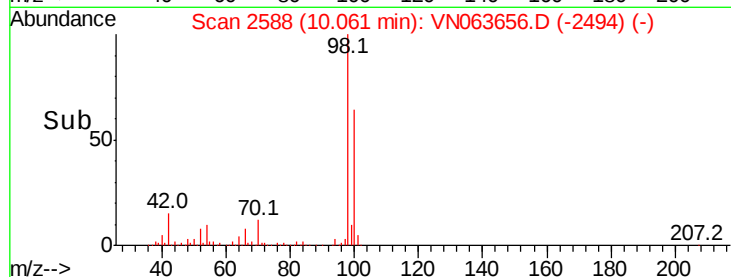
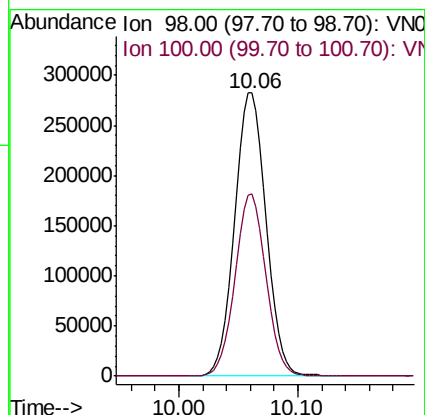
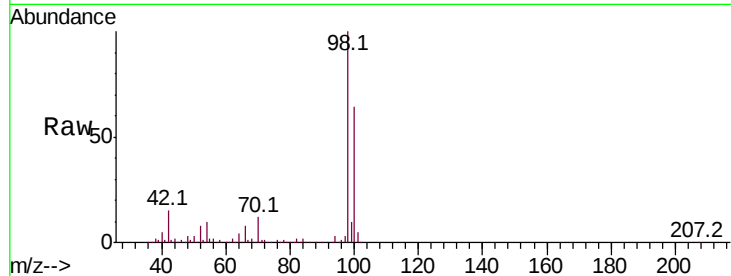
PB131852ZHE#01

Tot Ion: 98 Resp: 518208

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.249 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063656.D

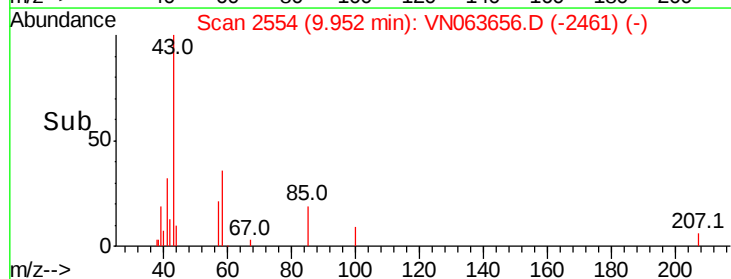
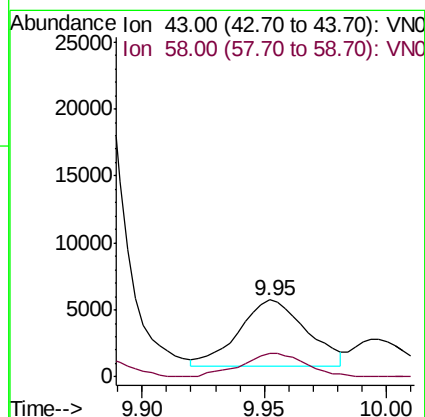
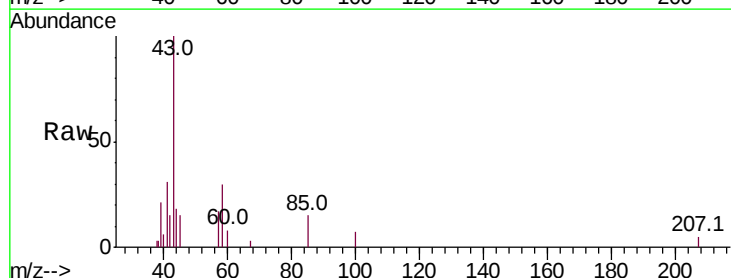
Acq: 25 Sep 2020 3:25

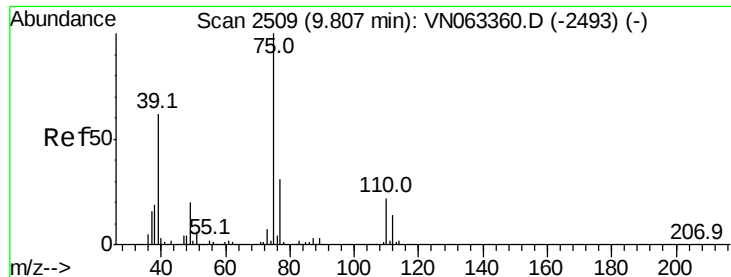
Tgt Ion: 43 Resp: 9490

Ion Ratio Lower Upper

43 100

58 33.4 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 5.481 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#01

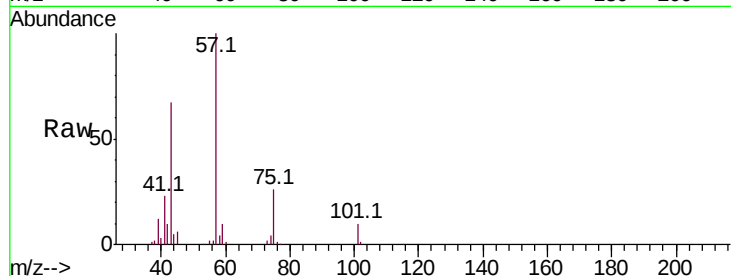
Tot Ion: 75 Resp: 29427

Ion Ratio Lower Upper

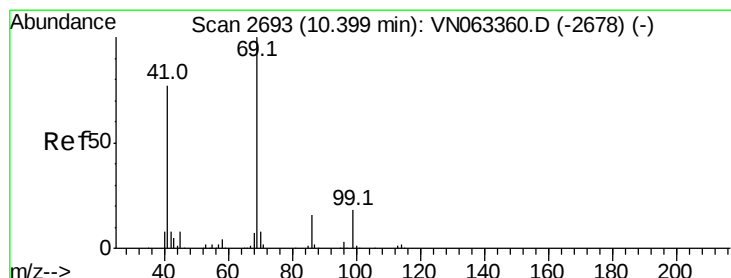
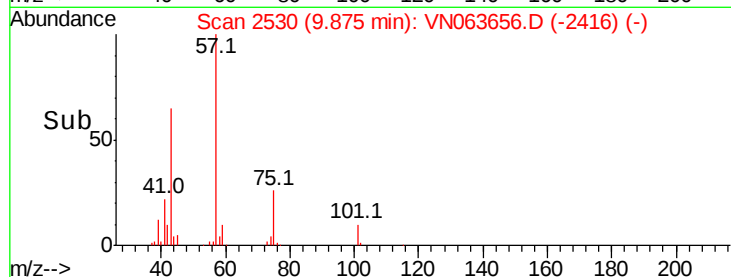
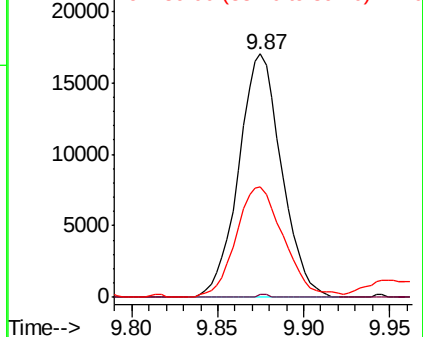
75 100

77 1.0 24.6 37.0#

39 45.4 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 0.473 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

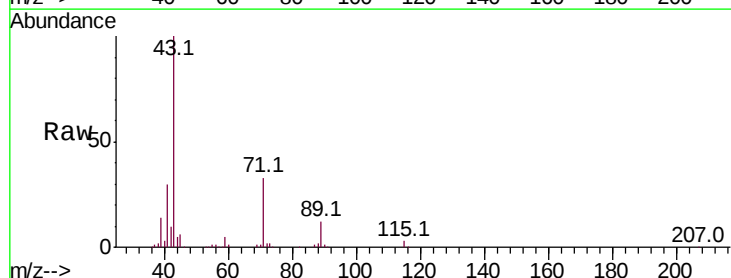
Tgt Ion: 69 Resp: 2162

Ion Ratio Lower Upper

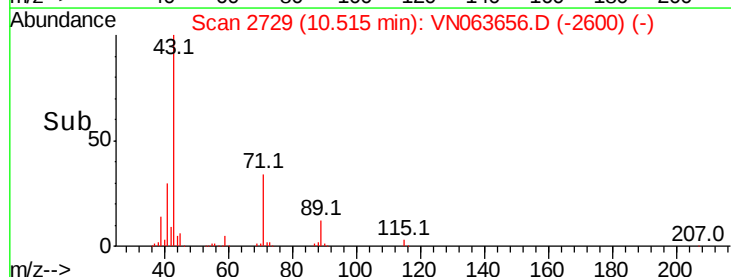
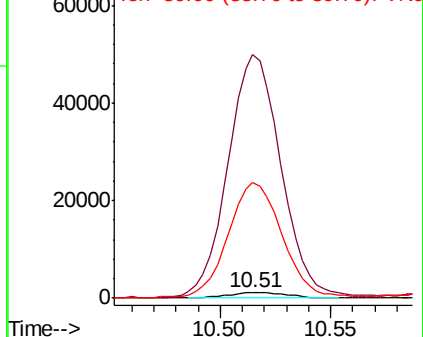
69 100

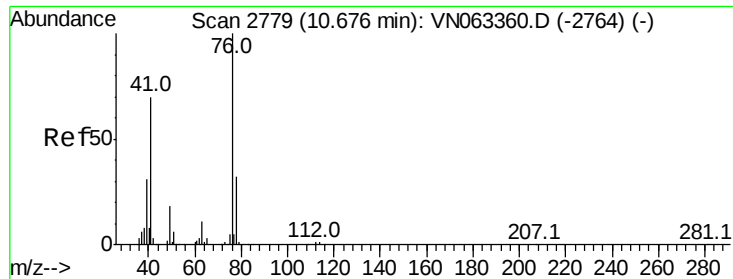
41 3898.1 61.0 91.6#

39 1889.1 39.2 58.8#



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





#57

1,3-Dichloropropane

Concen: 0.977 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

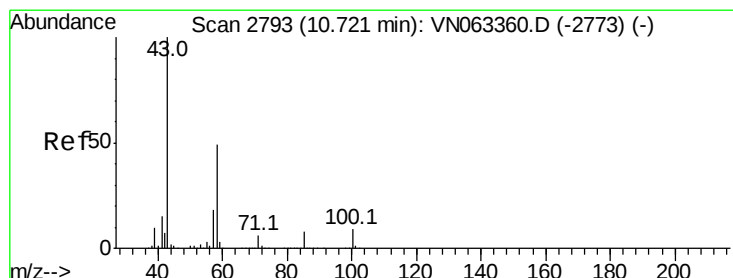
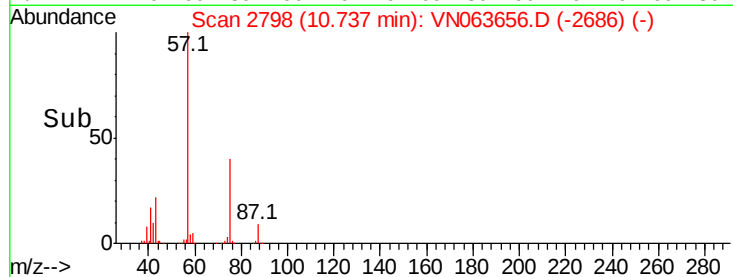
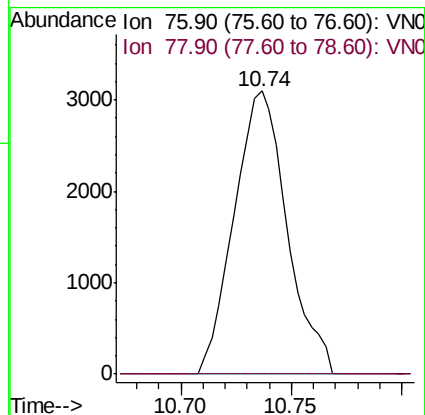
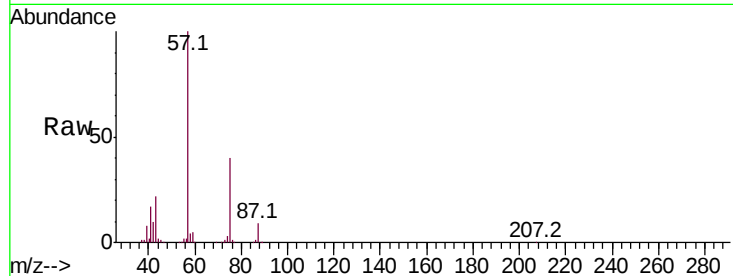
PB131852ZHE#01

Tot Ion: 76 Resp: 5158

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 28.073 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063656.D

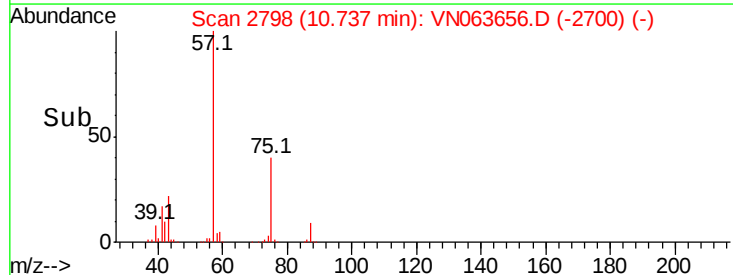
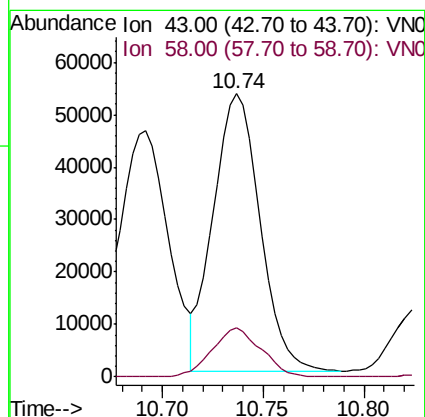
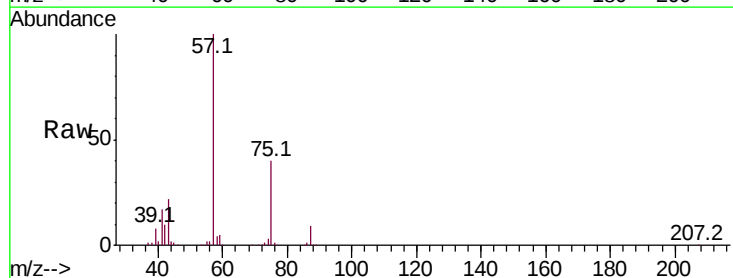
Acq: 25 Sep 2020 3:25

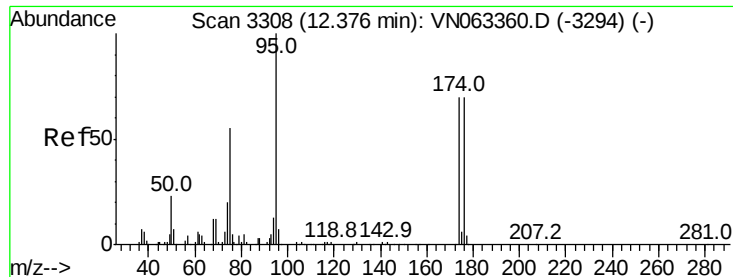
Tgt Ion: 43 Resp: 85820

Ion Ratio Lower Upper

43 100

58 18.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 52.990 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#01

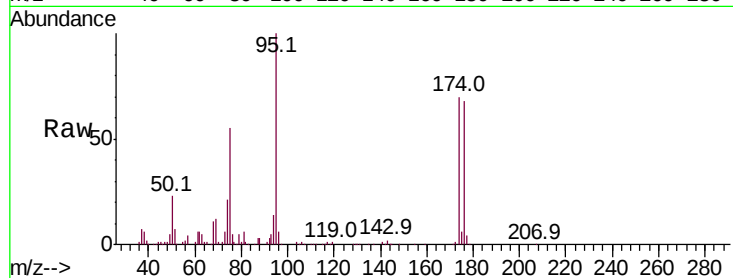
Tot Ion: 95 Resp: 203854

Ion Ratio Lower Upper

95 100

174 72.1 0.0 140.8

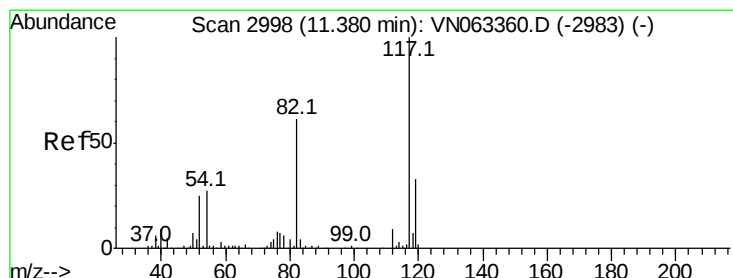
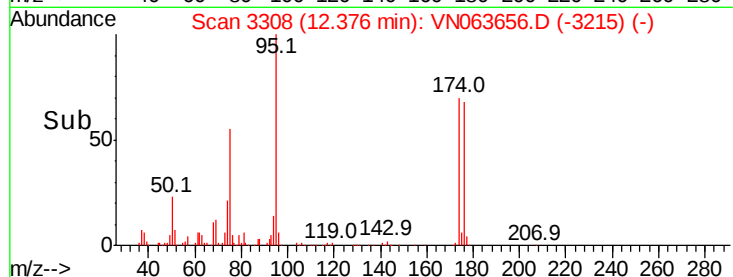
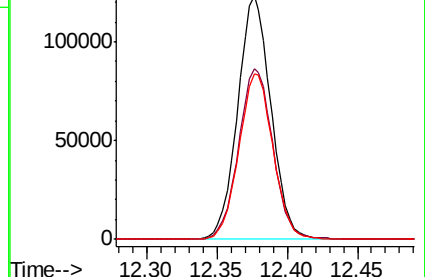
176 69.7 0.0 137.6



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

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

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

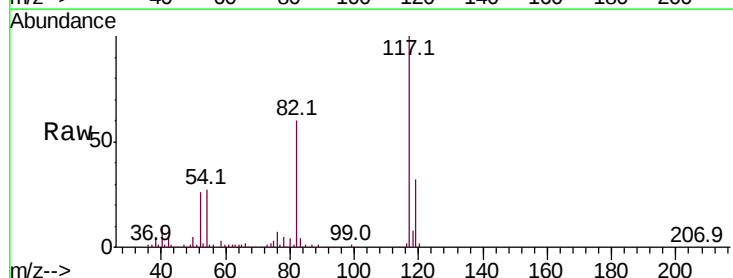
Tgt Ion: 117 Resp: 407752

Ion Ratio Lower Upper

117 100

82 60.5 49.2 73.8

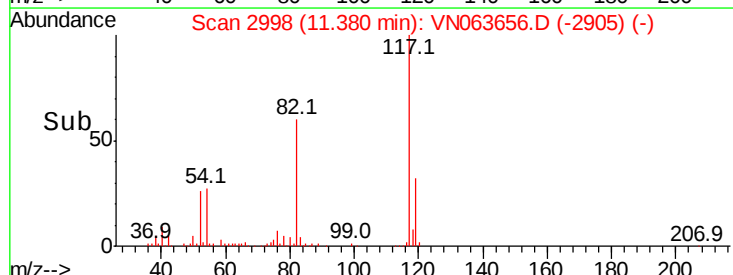
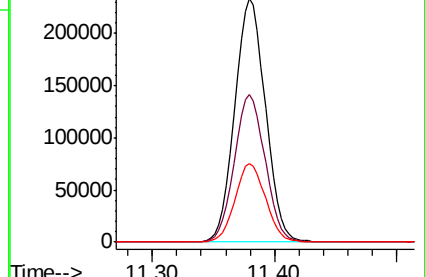
119 32.4 26.2 39.4

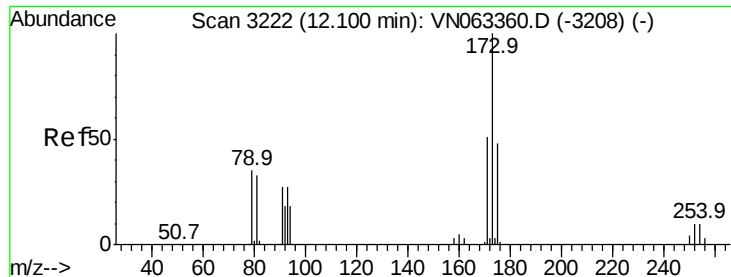


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

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

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





#71

Bromoform

Concen: 0.421 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN063656.D

Acq: 25 Sep 2020 3:25

Instrument :

MSVOA_N

ClientSampleId :

PB131852ZHE#01

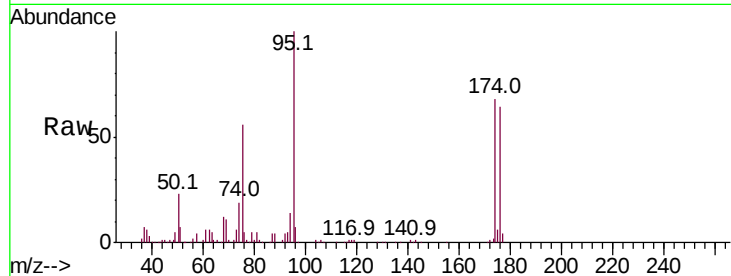
Tot Ion:173 Resp: 996

Ion Ratio Lower Upper

173 100

175 1045.1 24.0 72.0#

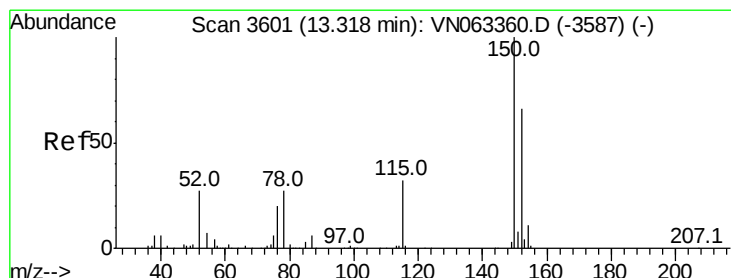
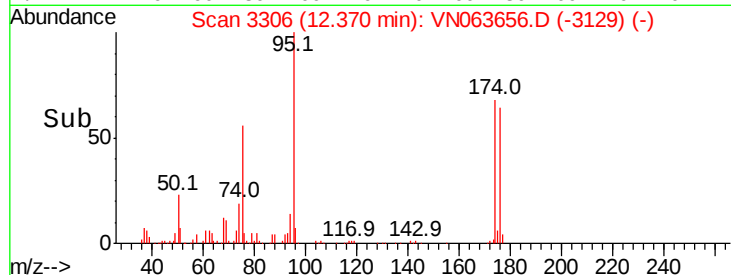
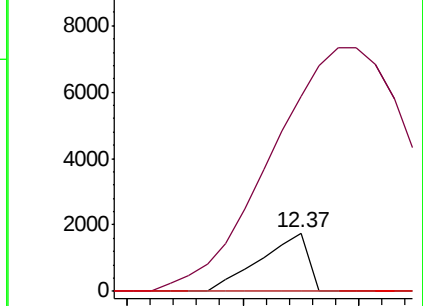
254 0.0 0.0 0.0



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: VN063656.D

Acq: 25 Sep 2020 3:25

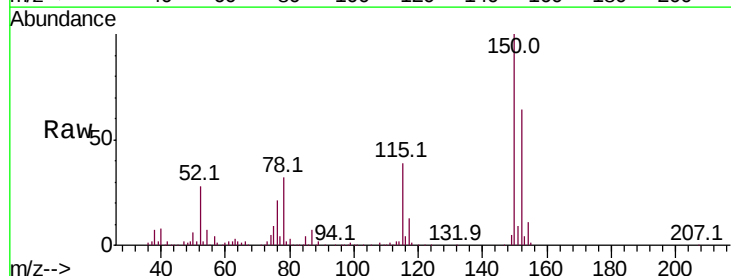
Tgt Ion:152 Resp: 174327

Ion Ratio Lower Upper

152 100

115 62.7 32.2 96.6

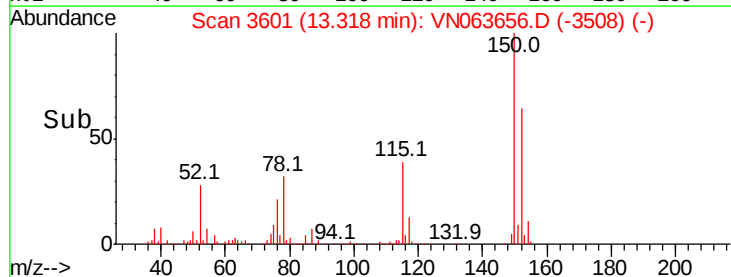
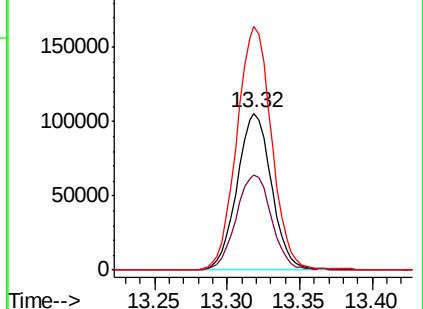
150 157.3 0.0 343.4

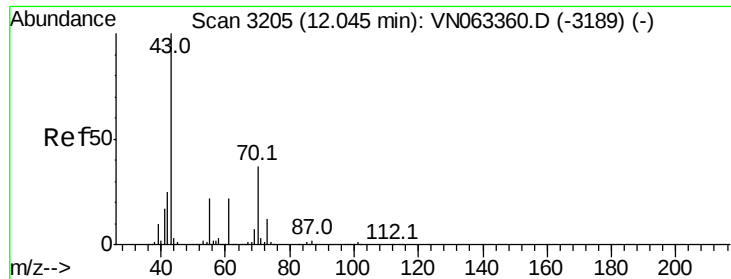


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

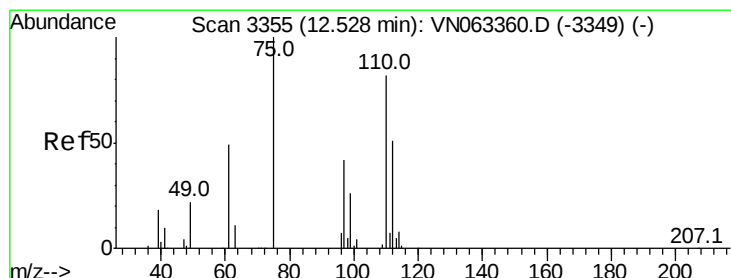
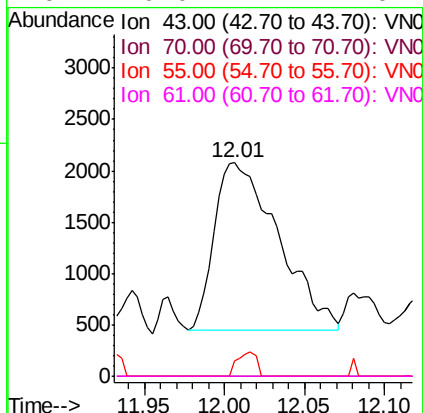
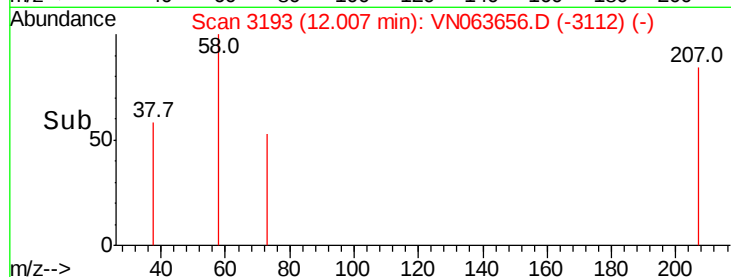
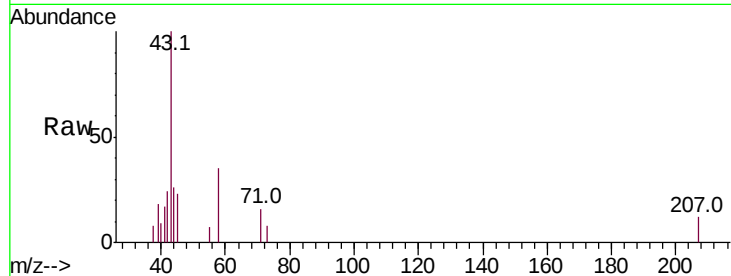




#74
N-amvl acetate
Concen: 0.680 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN063656.D
Acq: 25 Sep 2020 3:25

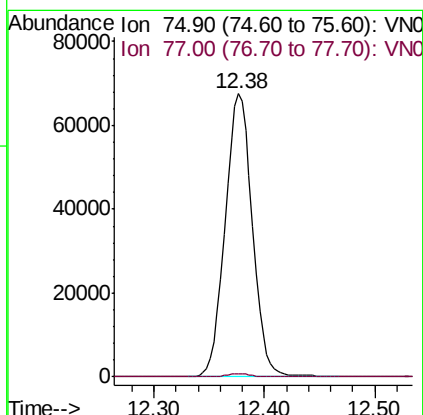
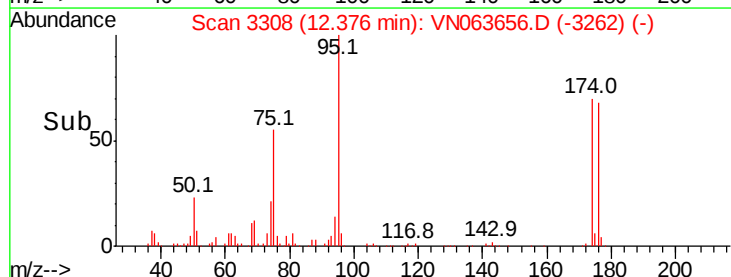
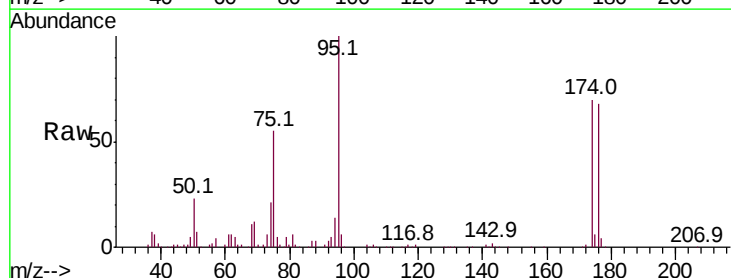
Instrument :
MSVOA_N
ClientSampleId :
PB131852ZHE#01

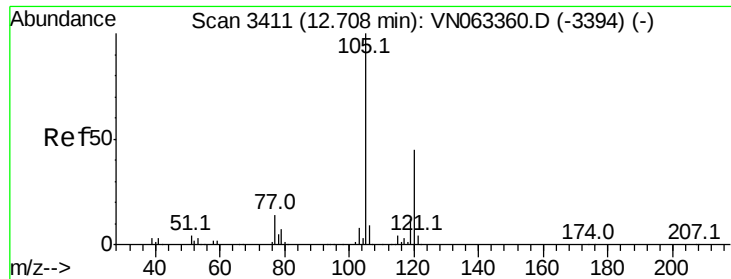
Tot Ion: 43 Resp: 4497
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 4.1 17.7 26.5#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 26.837 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063656.D
Acq: 25 Sep 2020 3:25

Tgt Ion: 75 Resp: 115799
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

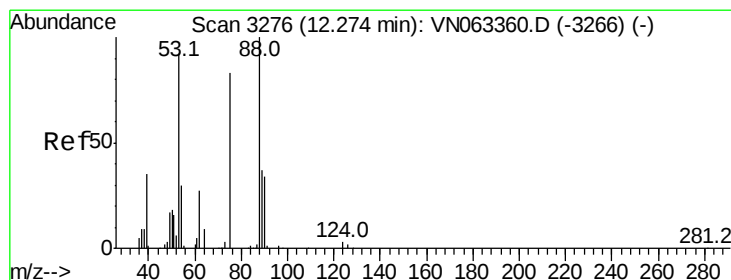
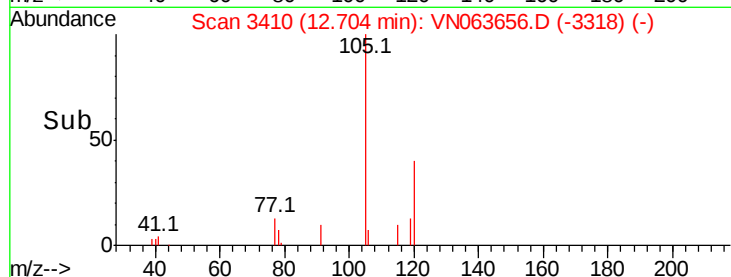
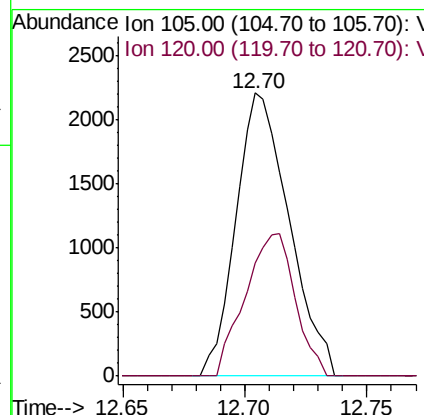
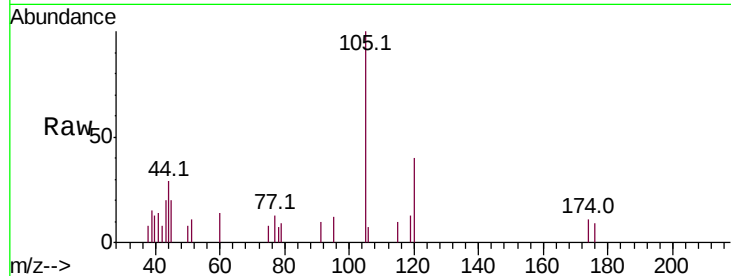




#80
 1,3,5-Trimethylbenzene
 Concen: 0.287 ug/l
 RT: 12.70 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN063656.D
 Acq: 25 Sep 2020 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131852ZHE#01

Tot Ion:105 Resp: 3342
 Ion Ratio Lower Upper
 105 100
 120 47.0 22.9 68.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.578 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063656.D
 Acq: 25 Sep 2020 3:25

Tgt Ion: 75 Resp: 115799
 Ion Ratio Lower Upper
 75 100
 53 0.2 85.7 128.5#
 89 0.0 38.0 57.0#

