

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063452.D
 Acq On : 18 Sep 2020 13:02
 Operator : JC/MD
 Sample : PB131709TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131709TB

Quant Time: Sep 21 01:34:17 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	253538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	463126	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	458741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	201760	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	202439	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
35) Dibromofluoromethane	7.55	113	152070	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
50) Toluene-d8	10.06	98	596255	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.38	95	238201	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	

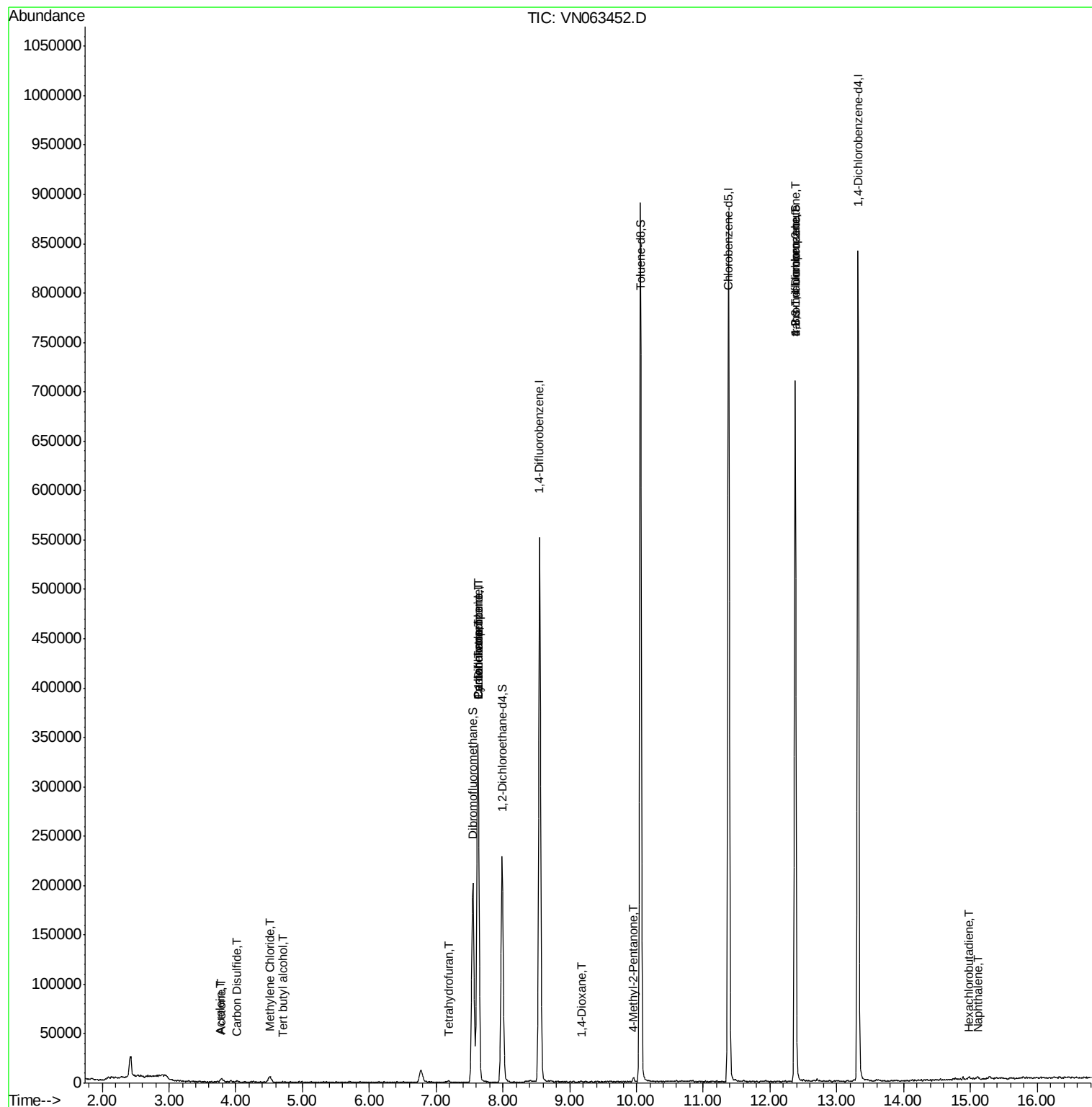
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	179	0.299	ug/l #	72
13) Acrolein	3.76	56	65	0.293	ug/l #	13
16) Acetone	3.78	43	6310	4.549	ug/l	98
17) Carbon Disulfide	4.02	76	2016	0.242	ug/l #	75
20) Methylene Chloride	4.51	84	3894	1.108	ug/l #	79
29) Tetrahydrofuran	7.18	42	712	0.489	ug/l #	61
31) Cyclohexane	7.62	56	7283	1.222	ug/l #	24
36) 1,1-Dichloropropene	7.63	75	24523	4.970	ug/l #	51
38) Carbon Tetrachloride	7.62	117	27884	5.536	ug/l #	17
49) 1,4-Dioxane	9.17	88	104	1.704	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	2397	0.494	ug/l #	86
76) 1,2,3-Trichloropropane	12.38	75	132627	26.558	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132627	72.812	ug/l #	7
94) Hexachlorobutadiene	14.99	225	556	0.344	ug/l	76
95) Naphthalene	15.11	128	3084	0.239	ug/l #	80

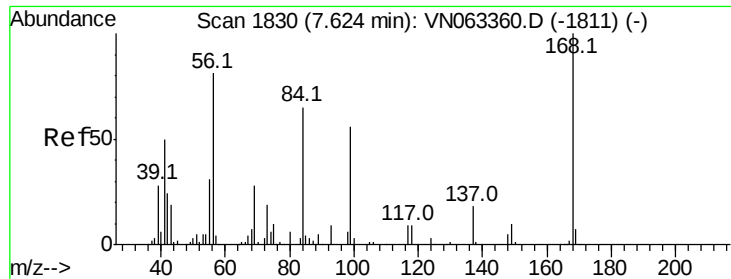
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampled :

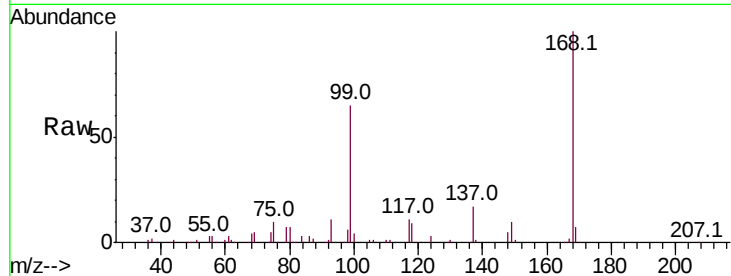
PB131709TB

Tot Ion:168 Resp: 253538

Ion Ratio Lower Upper

168 100

99 64.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

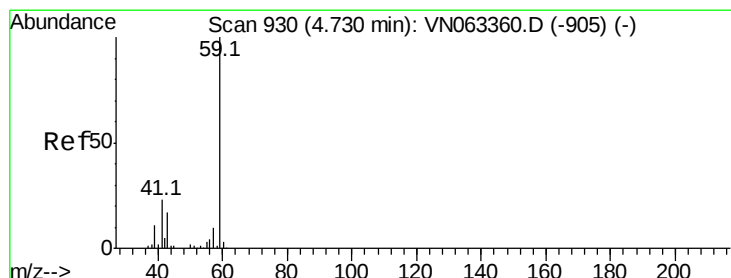
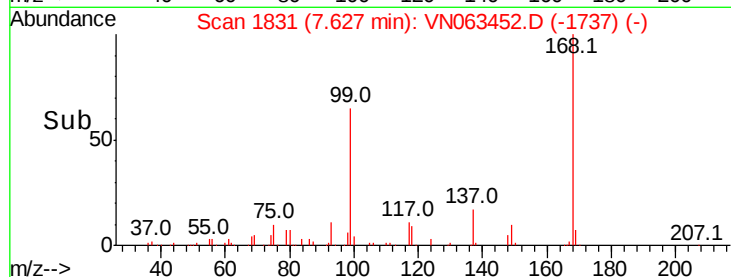
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.299 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN063452.D

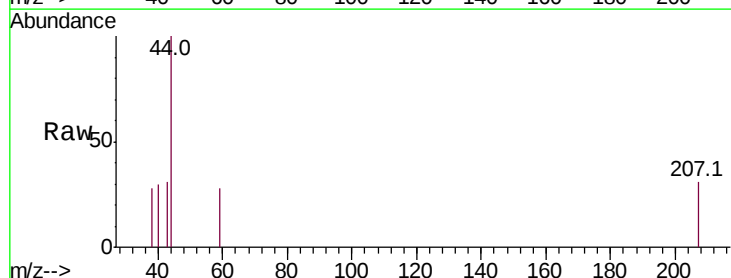
Acq: 18 Sep 2020 13:02

Tgt Ion: 59 Resp: 179

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

4.70

200

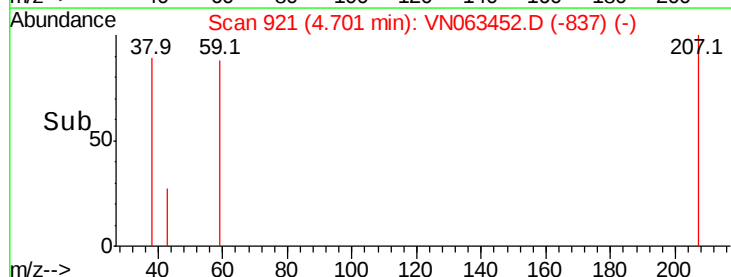
150

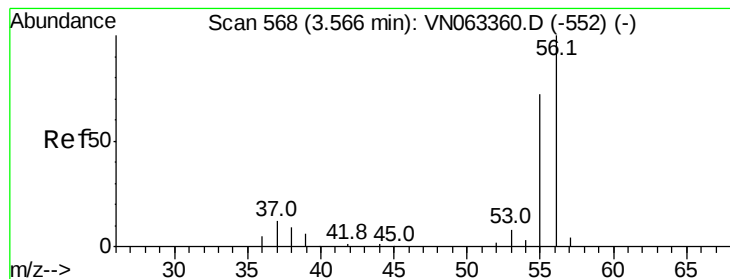
100

50

0

Time--> 4.68 4.69 4.70 4.71 4.72





#13

Acrolein

Concen: 0.293 ug/l

RT: 3.76 min Scan# 628

Delta R.T. 0.19 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

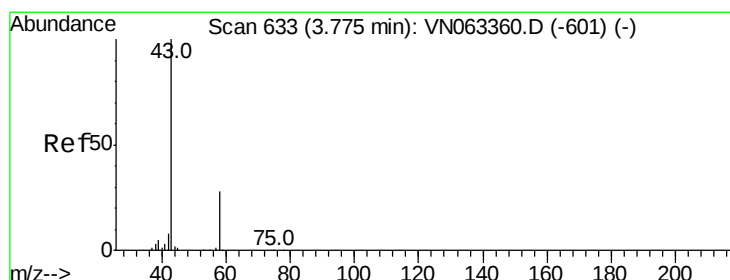
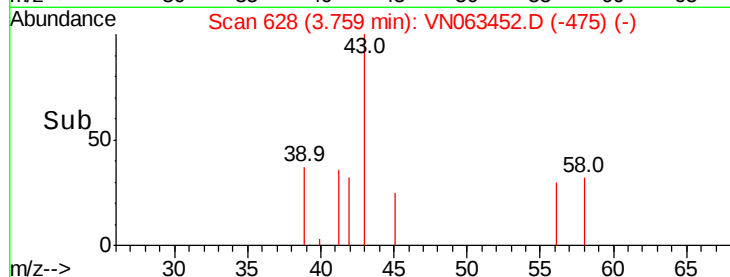
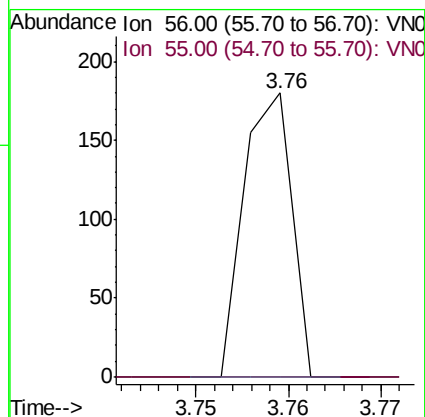
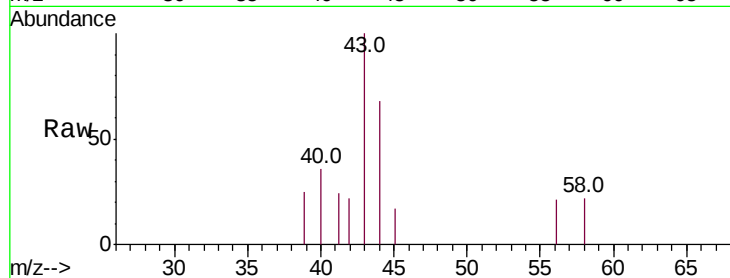
PB131709TB

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



#16

Acetone

Concen: 4.549 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063452.D

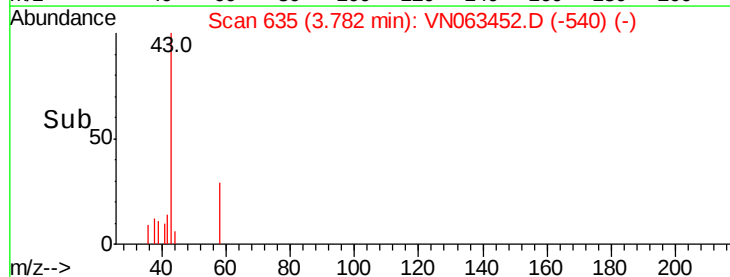
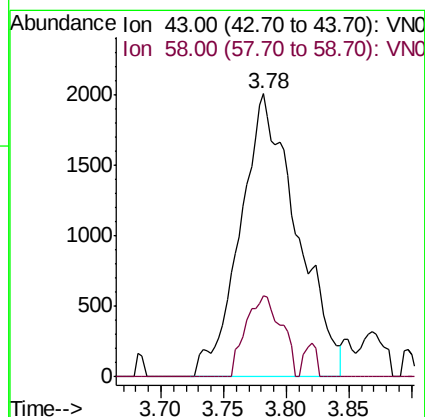
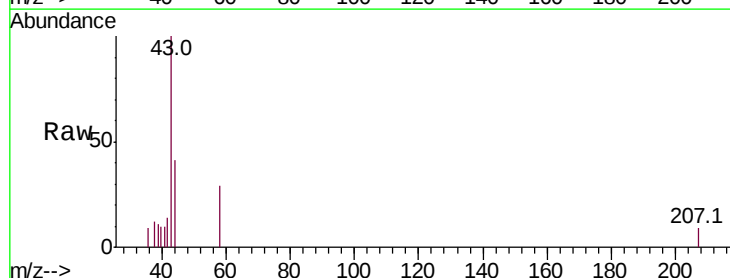
Acq: 18 Sep 2020 13:02

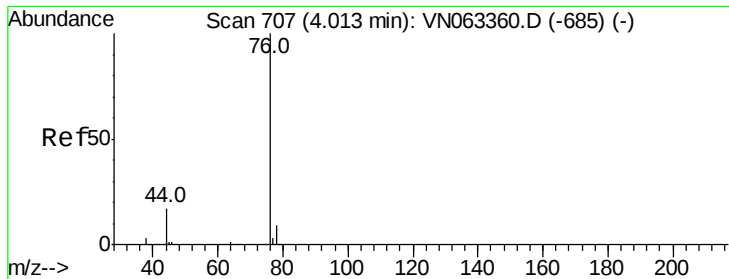
Tgt Ion: 43 Resp: 6310

Ion Ratio Lower Upper

43 100

58 28.8 22.3 33.5

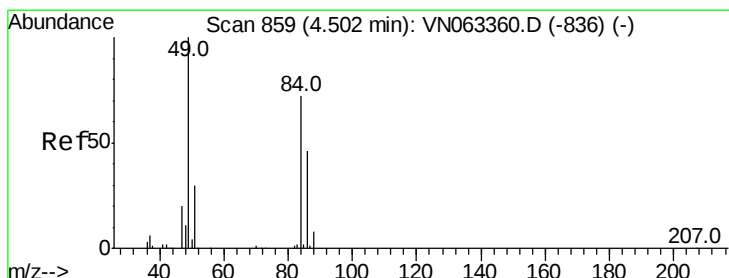
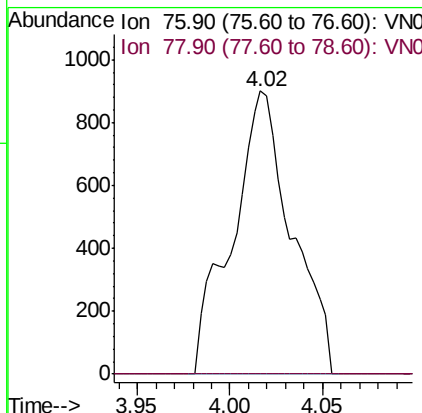
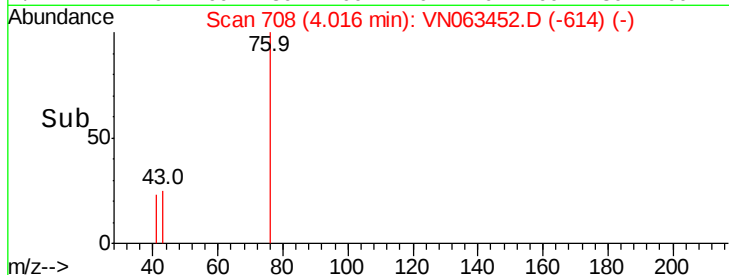
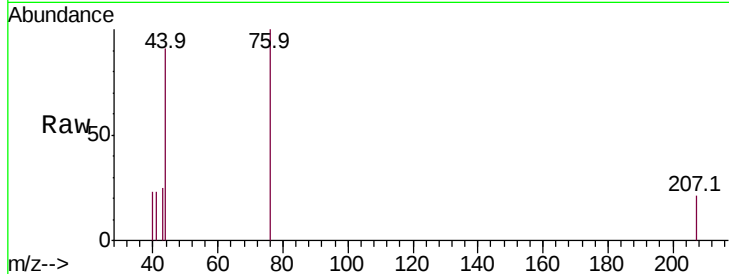




#17
Carbon Disulfide
Concen: 0.242 ug/l
RT: 4.02 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN063452.D
Acq: 18 Sep 2020 13:02

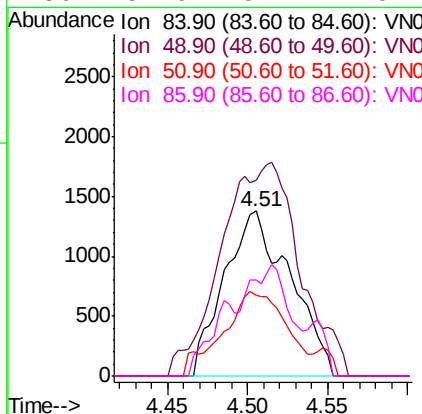
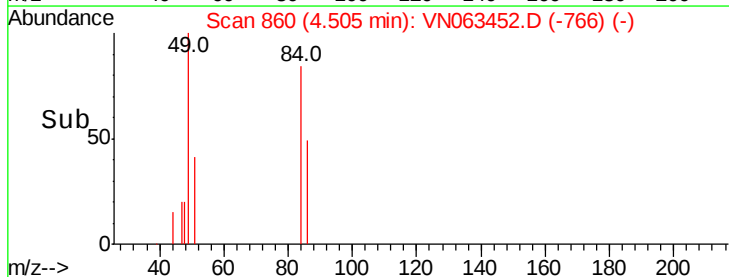
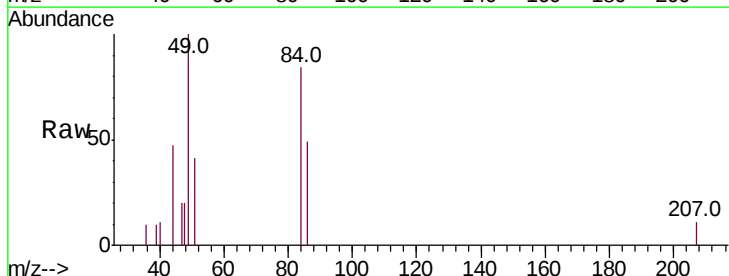
Instrument :
MSVOA_N
ClientSampleId :
PB131709TB

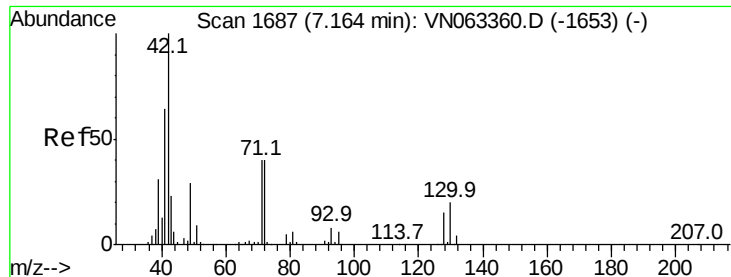
Tot Ion: 76 Resp: 2016
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#20
Methylene Chloride
Concen: 1.108 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063452.D
Acq: 18 Sep 2020 13:02

Tgt Ion: 84 Resp: 3894
Ion Ratio Lower Upper
84 100
49 102.8 110.7 166.1#
51 49.1 32.9 49.3
86 57.9 51.1 76.7





#29

Tetrahydrofuran

Concen: 0.489 ug/l

RT: 7.18 min Scan# 1693

Delta R.T. 0.02 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB131709TB

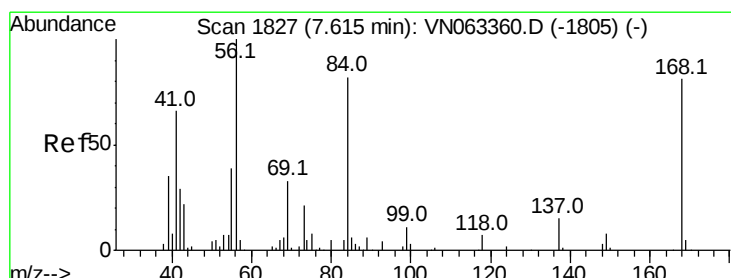
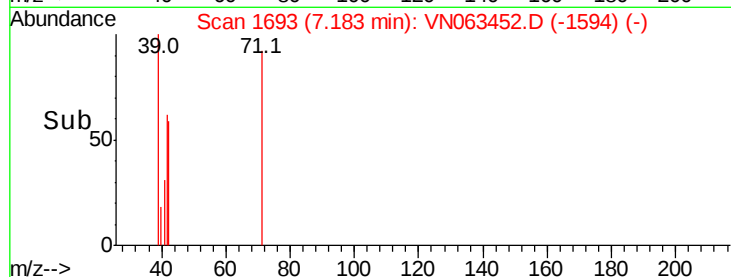
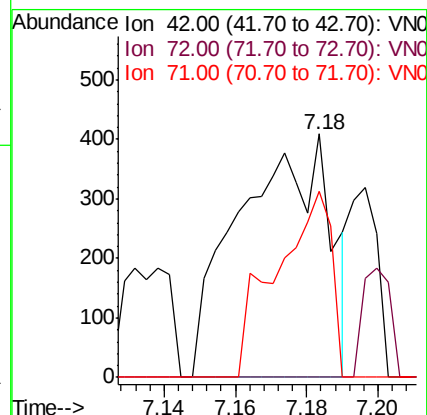
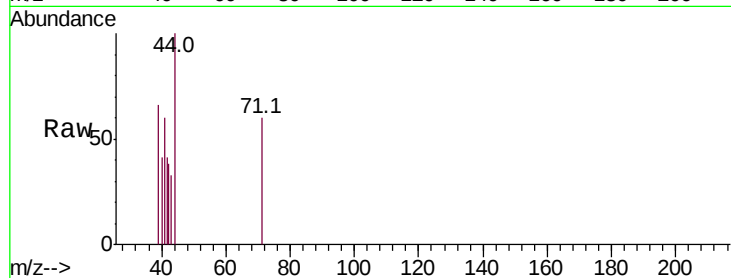
Tot Ion: 42 Resp: 712

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 47.2 31.2 46.8#



#31

Cyclohexane

Concen: 1.222 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

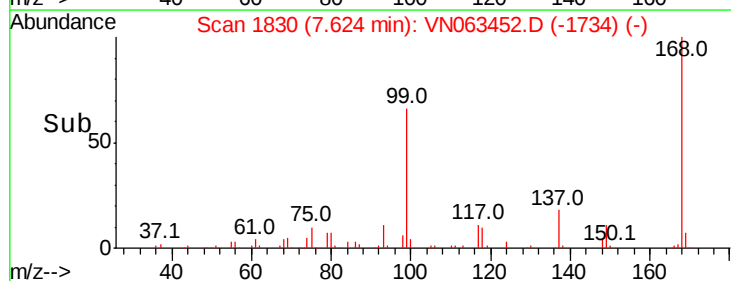
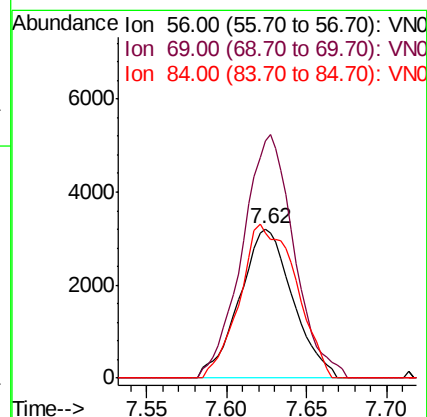
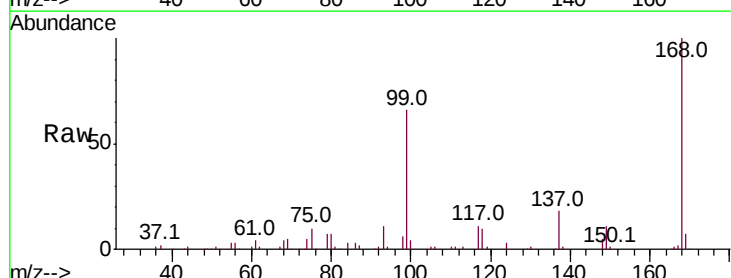
Tgt Ion: 56 Resp: 7283

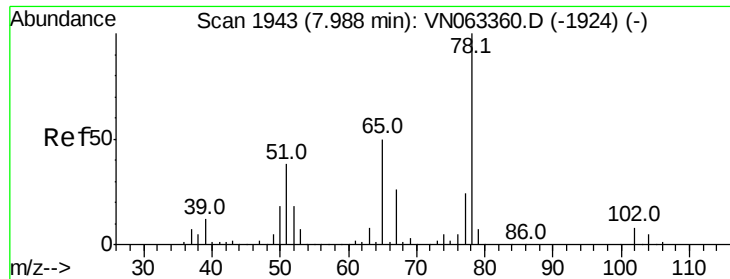
Ion Ratio Lower Upper

56 100

69 159.1 26.1 39.1#

84 96.7 65.4 98.2

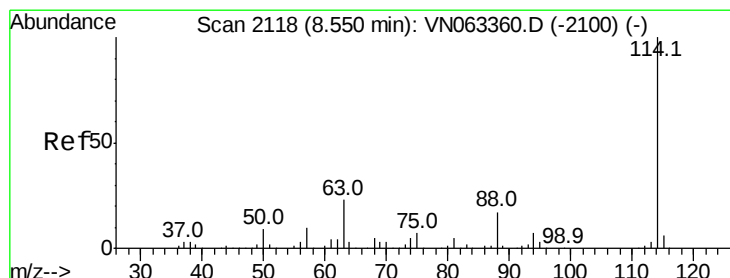
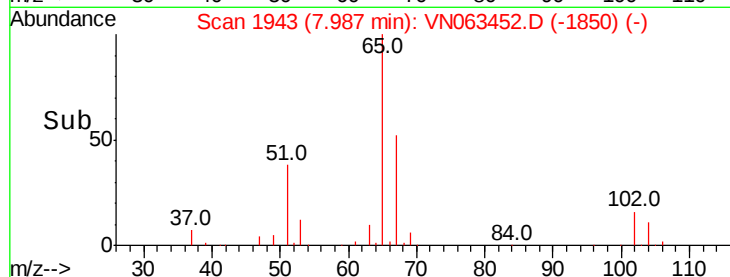
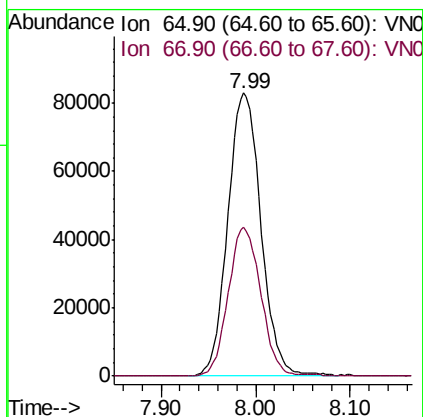
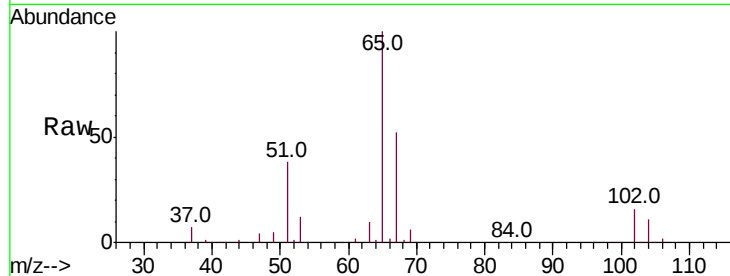




#33
 1,2-Dichloroethane-d4
 Concen: 46.906 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063452.D
 Acq: 18 Sep 2020 13:02

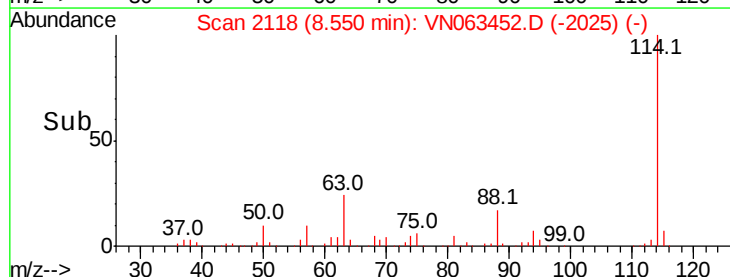
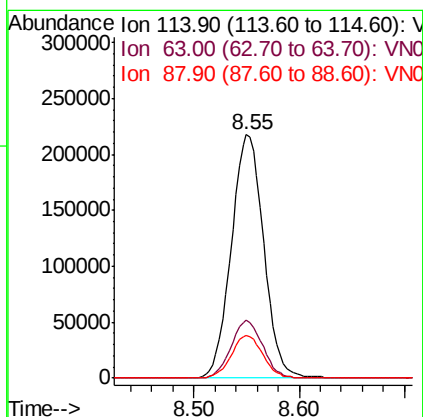
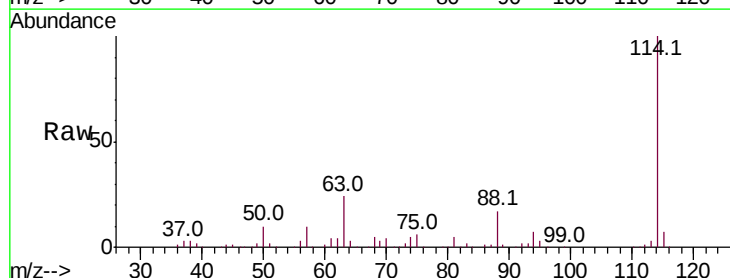
Instrument :
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 PB131709TB

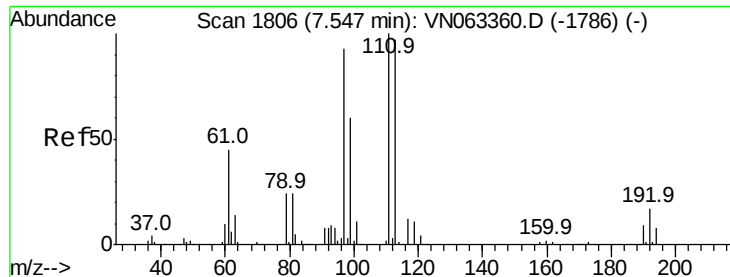
Tot Ion: 65 Resp: 202439
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063452.D
 Acq: 18 Sep 2020 13:02

Tgt Ion: 114 Resp: 463126
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 46.4
 88 17.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.431 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB131709TB

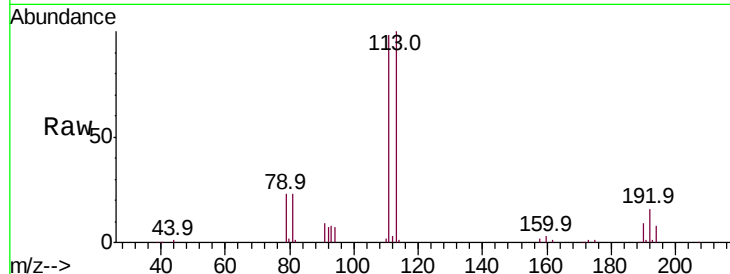
Tot Ion:113 Resp: 152070

Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

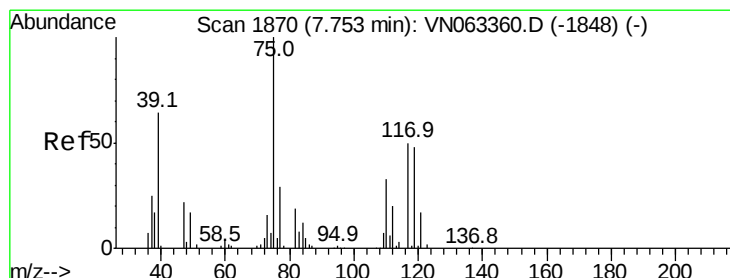
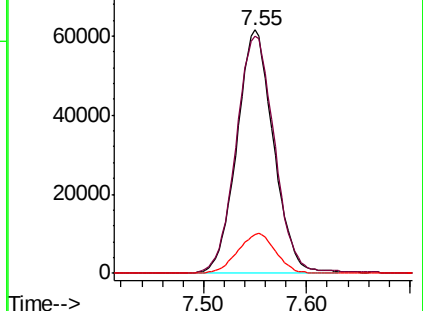
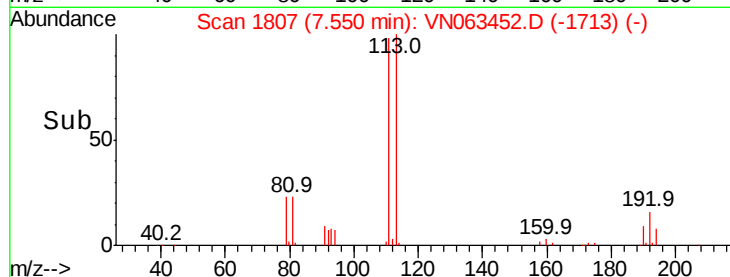
192 17.0 13.9 20.9



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: 4.970 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

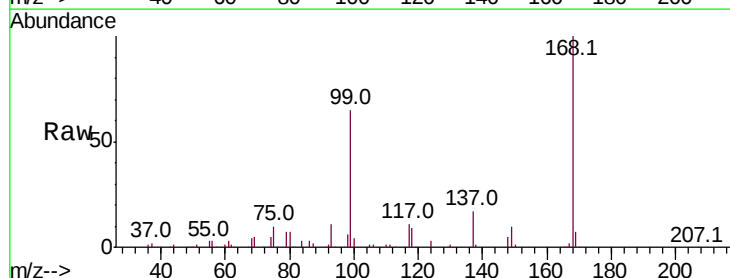
Tgt Ion: 75 Resp: 24523

Ion Ratio Lower Upper

75 100

110 9.2 16.5 49.5#

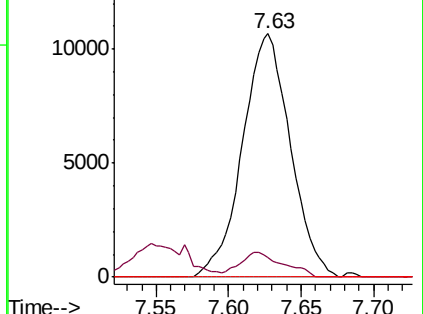
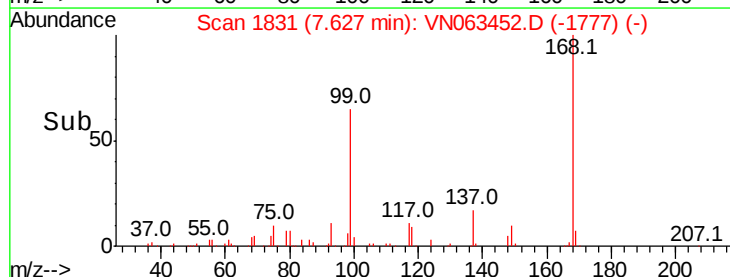
77 0.0 24.6 36.8#

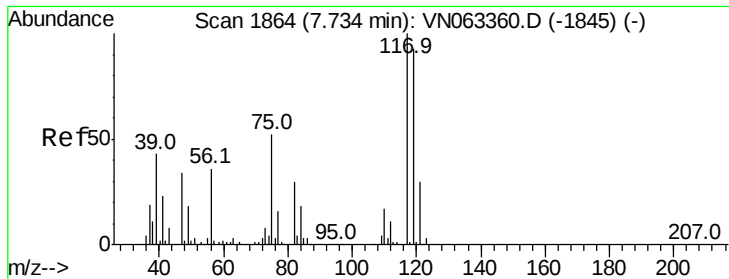


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

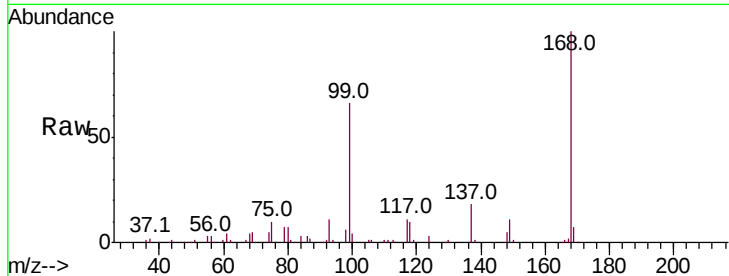




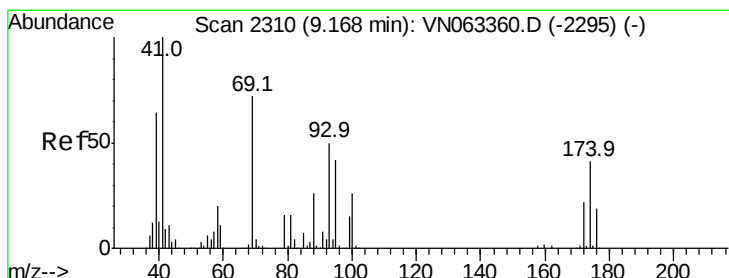
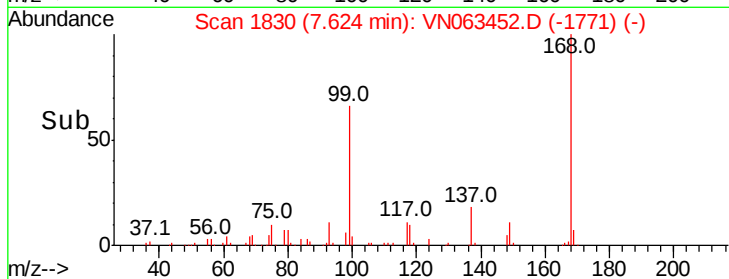
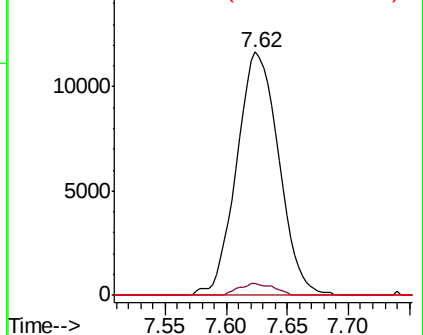
#38
Carbon Tetrachloride
Concen: 5.536 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN063452.D
Acq: 18 Sep 2020 13:02

Instrument :
MSVOA_N
ClientSampled :
PB131709TB

Tot Ion:117 Resp: 27884
Ion Ratio Lower Upper
117 100
119 5.0 74.5 111.7#
121 0.0 24.1 36.1#

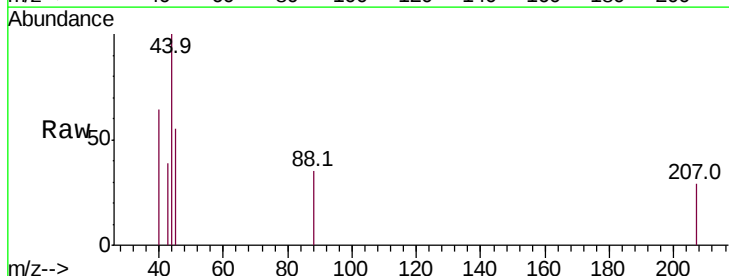


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

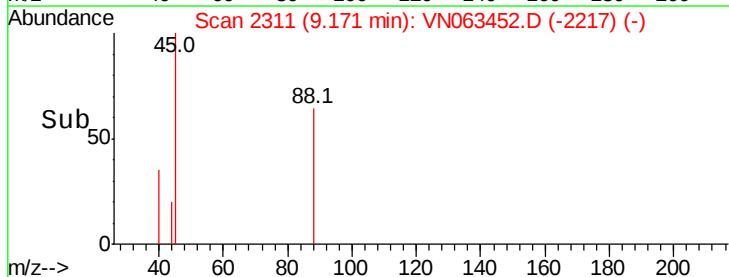
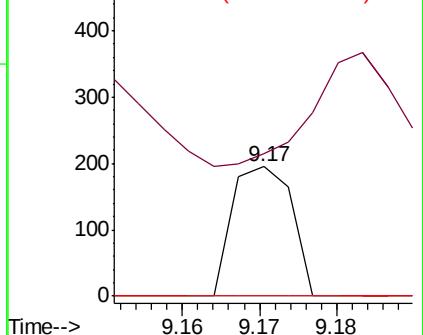


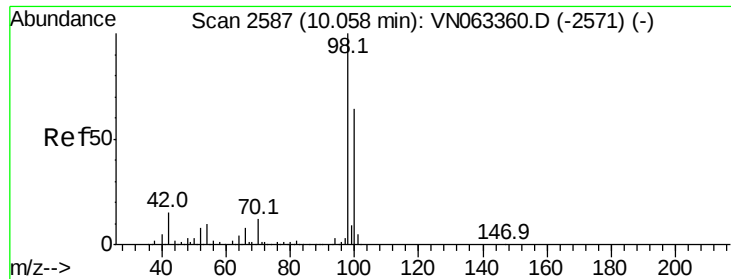
#49
1,4-Dioxane
Concen: 1.704 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063452.D
Acq: 18 Sep 2020 13:02

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 489.4 32.6 49.0#
58 0.0 60.0 90.0#



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





#50

Toluene-d8

Concen: 49.459 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

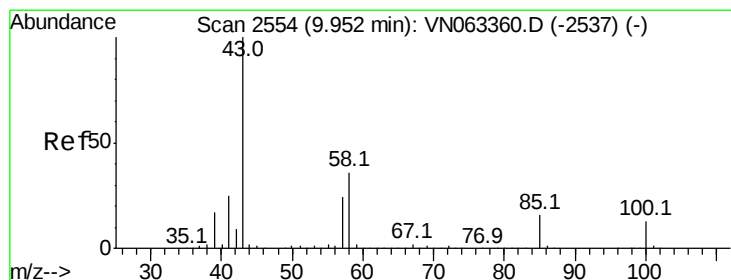
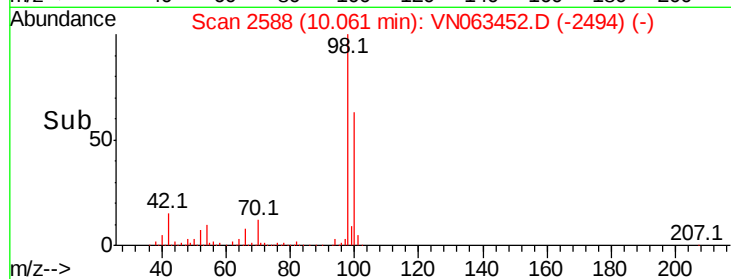
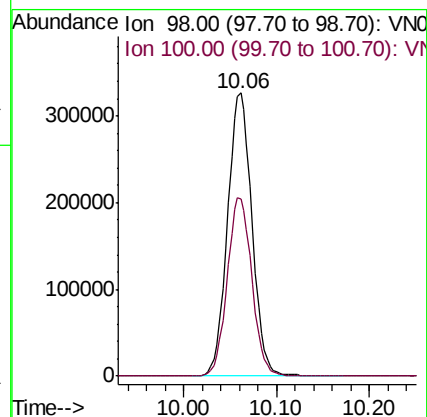
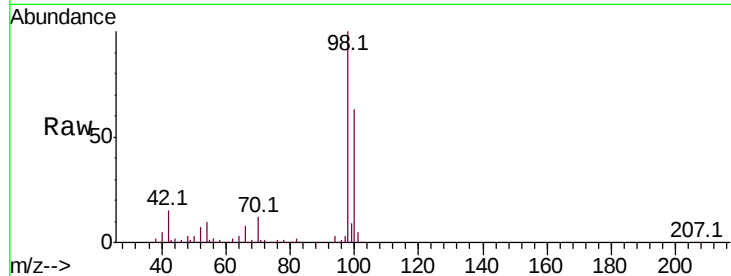
PB131709TB

Tot Ion: 98 Resp: 596255

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.494 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063452.D

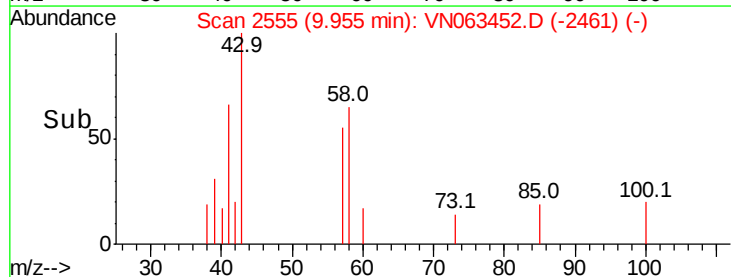
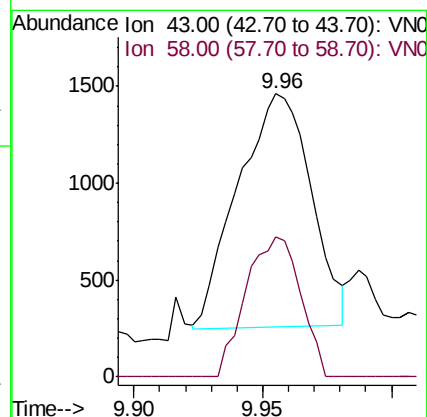
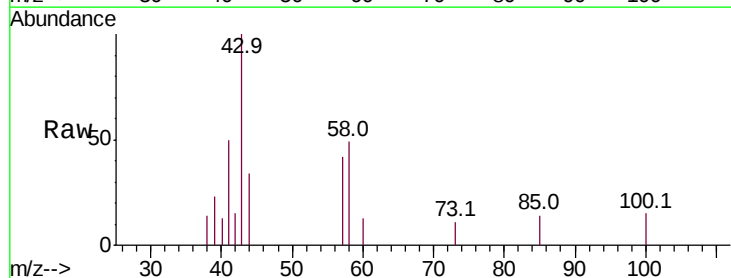
Acq: 18 Sep 2020 13:02

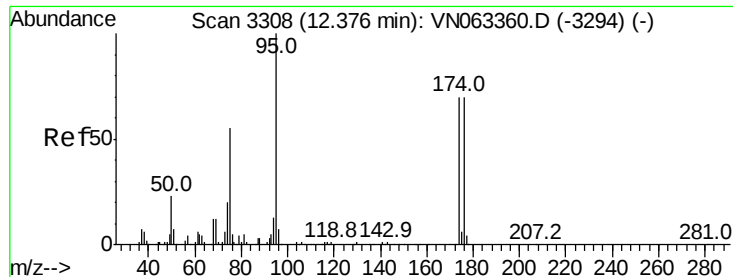
Tgt Ion: 43 Resp: 2397

Ion Ratio Lower Upper

43 100

58 44.4 29.0 43.6#





#62

4-Bromofluorobenzene

Concen: 53.899 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB131709TB

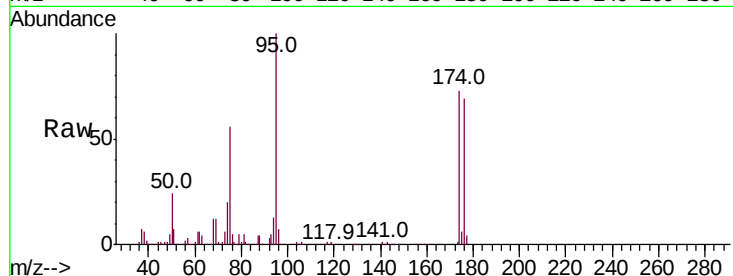
Tot Ion: 95 Resp: 238201

Ion Ratio Lower Upper

95 100

174 71.8 0.0 140.8

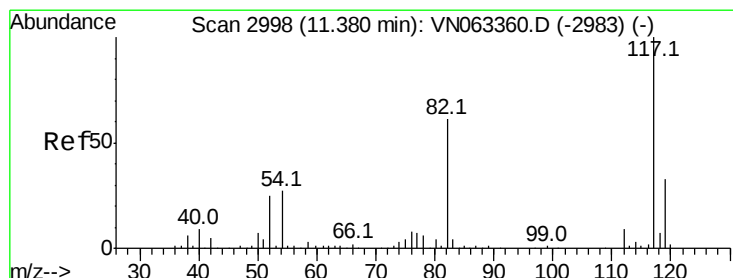
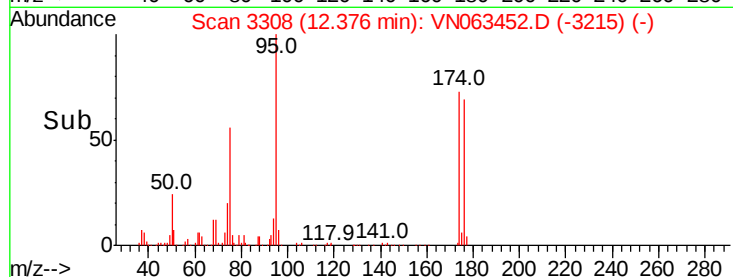
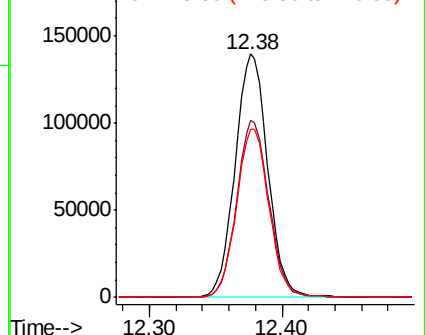
176 69.0 0.0 137.6



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: VN063452.D

Acq: 18 Sep 2020 13:02

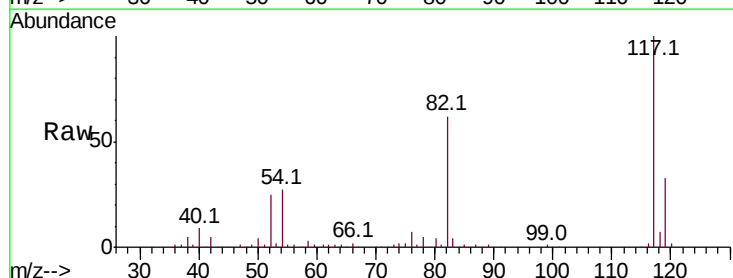
Tgt Ion: 117 Resp: 458741

Ion Ratio Lower Upper

117 100

82 61.8 49.2 73.8

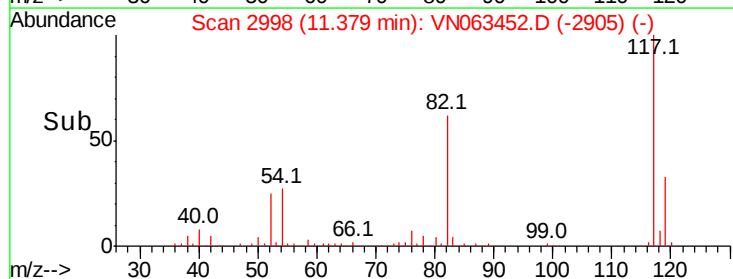
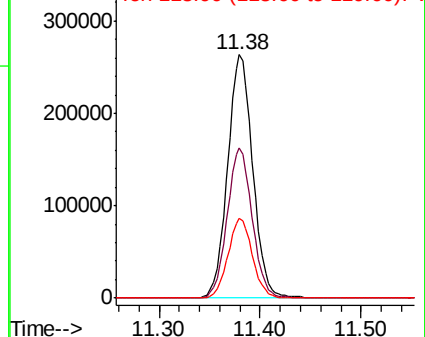
119 32.8 26.2 39.4

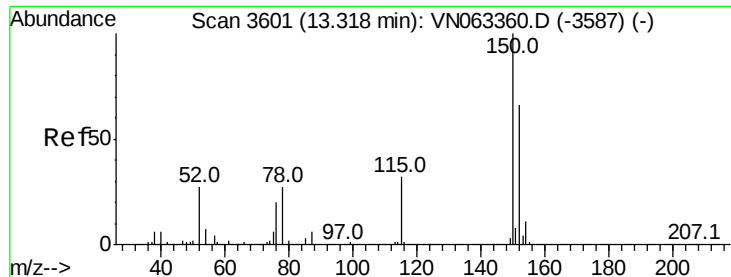


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB131709TB

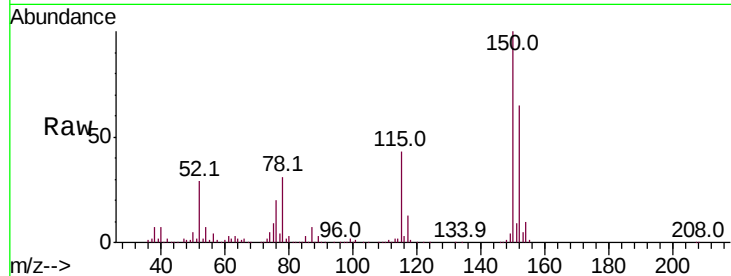
Tot Ion:152 Resp: 201760

Ion Ratio Lower Upper

152 100

115 65.4 32.2 96.6

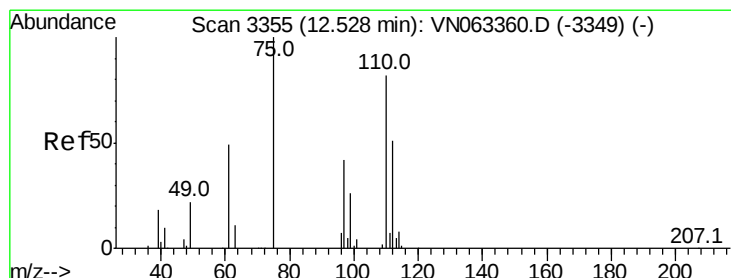
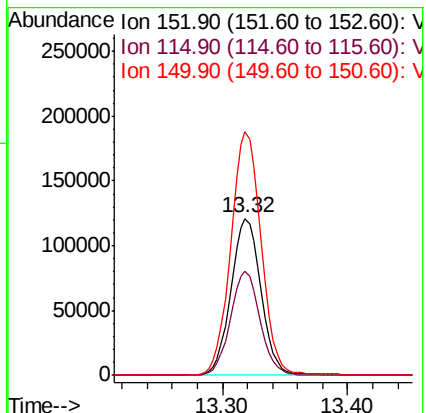
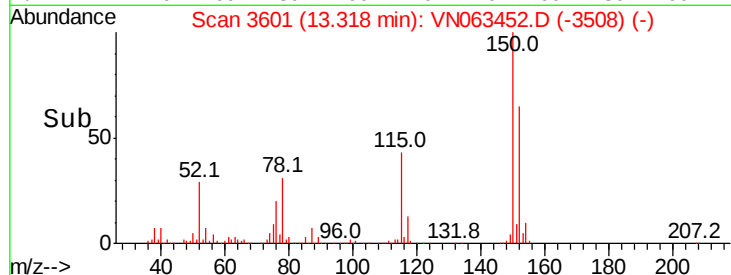
150 156.8 0.0 343.4



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



#76

1,2,3-Trichloropropane

Concen: 26.558 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063452.D

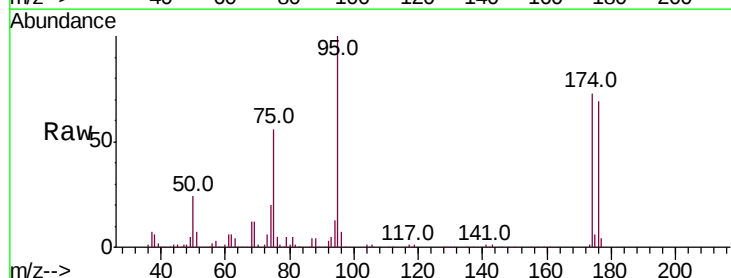
Acq: 18 Sep 2020 13:02

Tgt Ion: 75 Resp: 132627

Ion Ratio Lower Upper

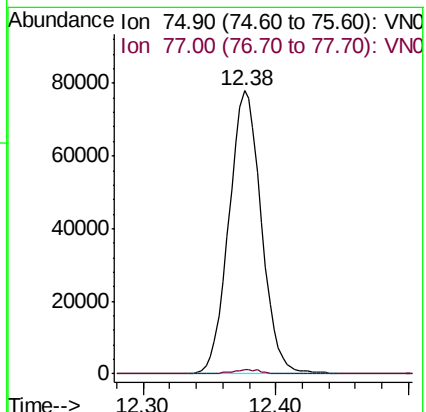
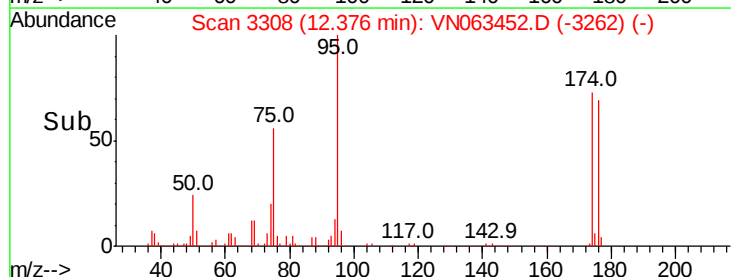
75 100

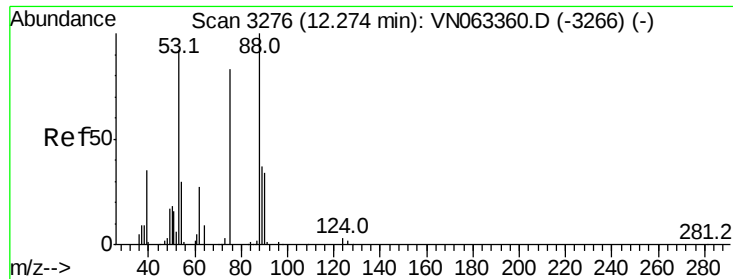
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 72.812 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampled :

PB131709TB

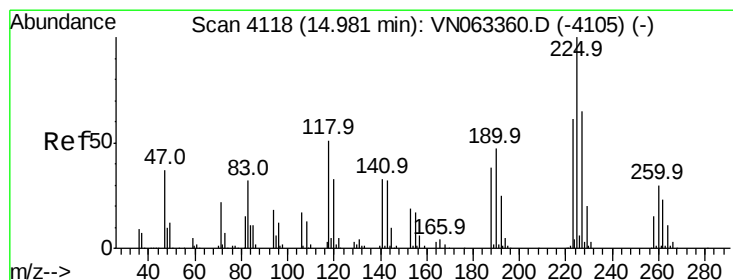
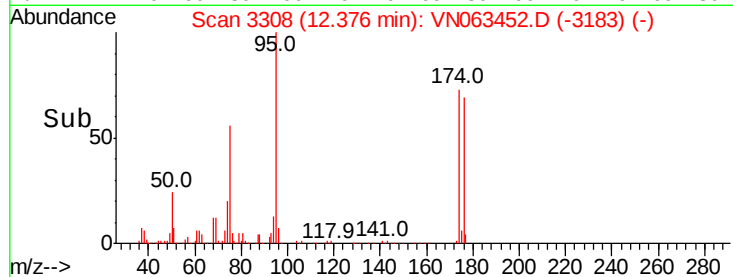
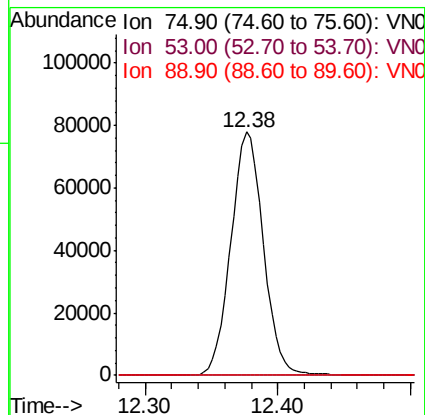
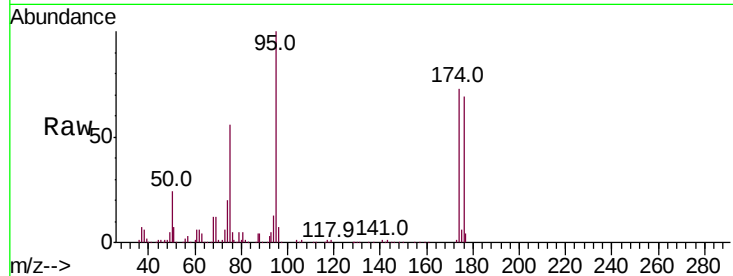
Tot Ion: 75 Resp: 132627

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.1 38.0 57.0#



#94

Hexachlorobutadiene

Concen: 0.344 ug/l

RT: 14.99 min Scan# 4120

Delta R.T. 0.01 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

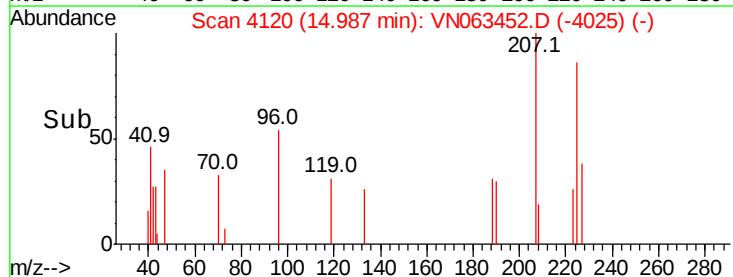
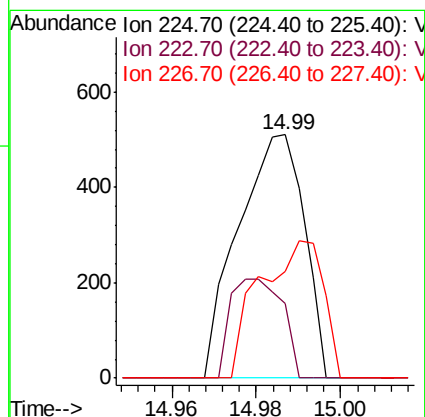
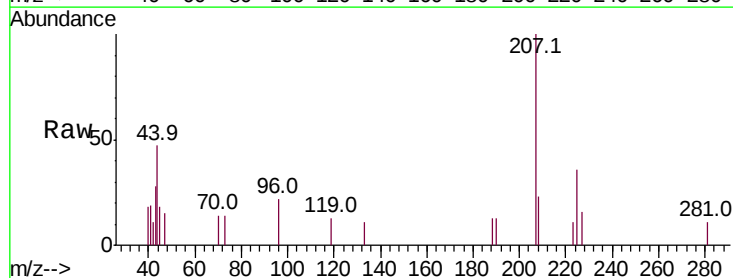
Tgt Ion: 225 Resp: 556

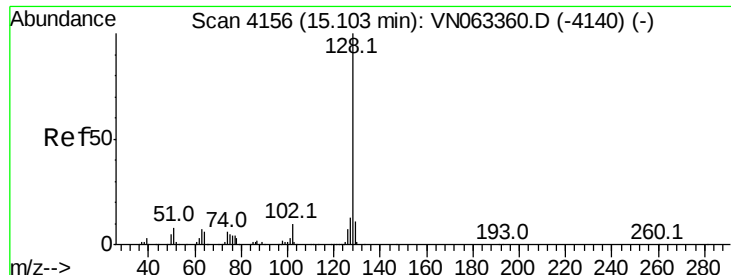
Ion Ratio Lower Upper

225 100

223 32.4 30.6 91.6

227 54.3 31.2 93.6





#95

Naphthalene

Concen: 0.239 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063452.D

Acq: 18 Sep 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB131709TB

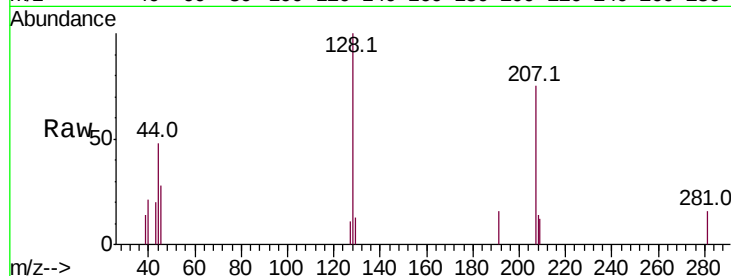
Tot Ion:128 Resp: 3084

Ion Ratio Lower Upper

128 100

127 4.8 10.6 15.8#

129 4.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

