

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090220\
 Data File : VN063200.D
 Acq On : 2 Sep 2020 17:05
 Operator : JC/MD
 Sample : L3889-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-843-845

Quant Time: Sep 03 01:02:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

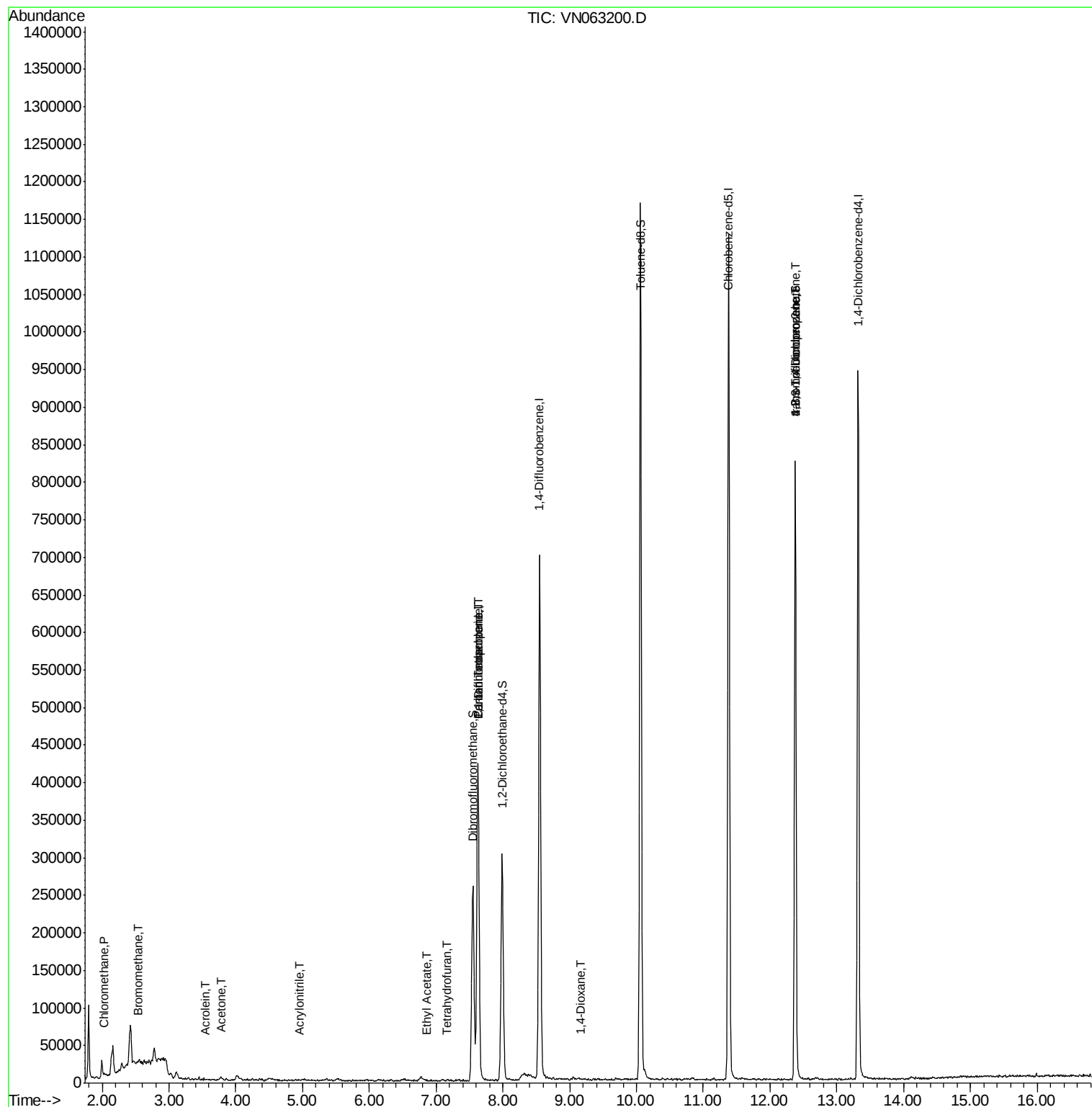
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	307668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	609516	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	600263	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	233140	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	254635	50.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.26%	
35) Dibromofluoromethane	7.55	113	194690	49.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.58%	
50) Toluene-d8	10.06	98	773638	51.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	12.38	95	270589	51.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.78%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	2320	0.526	ug/l	89
5) Bromomethane	2.54	94	829	0.202	ug/l	81
7) Trichlorofluoromethane	3.00	101	29	Below Cal	#	33
13) Acrolein	3.56	56	159	16.403	ug/l #	15
15) Acrylonitrile	4.95	53	34	2.423	ug/l #	1
16) Acetone	3.78	43	4800	3.357	ug/l #	85
20) Methylene Chloride	4.49	84	532	Below Cal	#	82
29) Tetrahydrofuran	7.16	42	541	0.353	ug/l #	34
31) Cyclohexane	7.63	56	9948	Below Cal	#	33
36) 1,1-Dichloropropene	7.63	75	30112	5.139	ug/l #	47
37) Ethyl Acetate	6.87	43	403	0.453	ug/l #	59
38) Carbon Tetrachloride	7.62	117	33898	5.704	ug/l #	15
49) 1,4-Dioxane	9.17	88	402	6.033	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	156100	34.078	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	156100	82.365	ug/l #	10

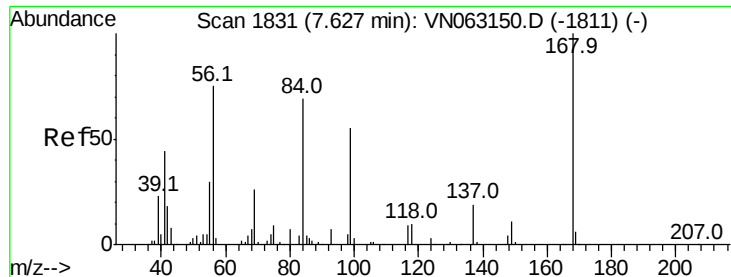
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

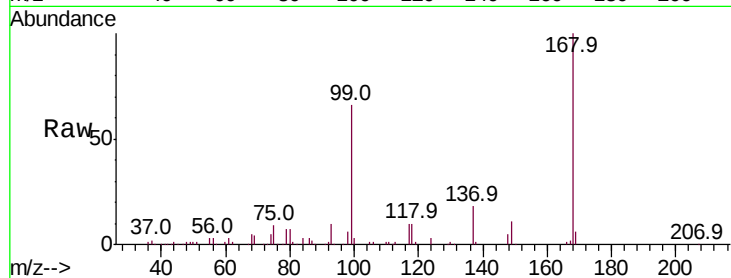
BP-VPB181-GW-843-845

Tot Ion:168 Resp: 307668

Ion Ratio Lower Upper

168 100

99 65.9 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

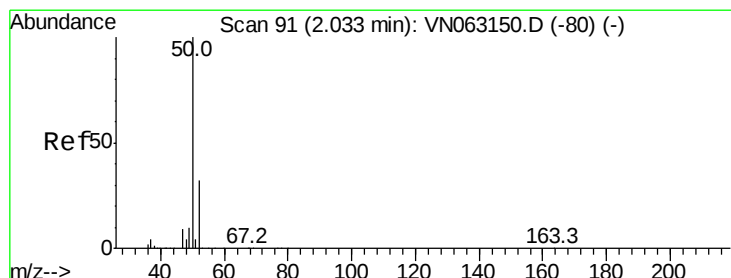
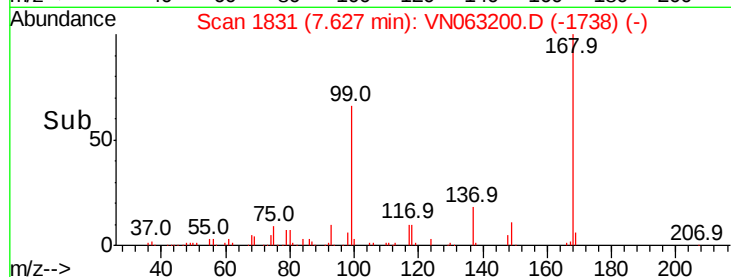
7.63

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.526 ug/l

RT: 2.03 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN063200.D

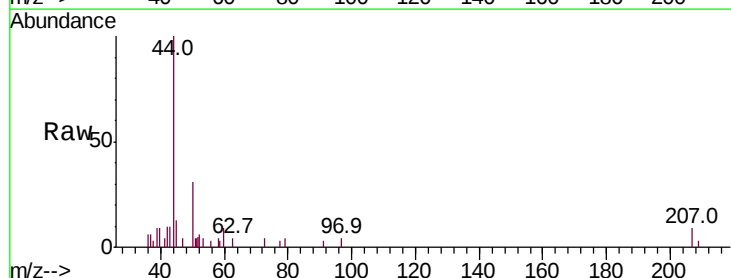
Acq: 2 Sep 2020 17:05

Tgt Ion: 50 Resp: 2320

Ion Ratio Lower Upper

50 100

52 26.1 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

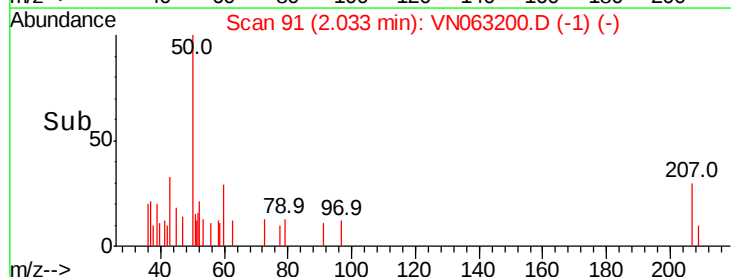
1500

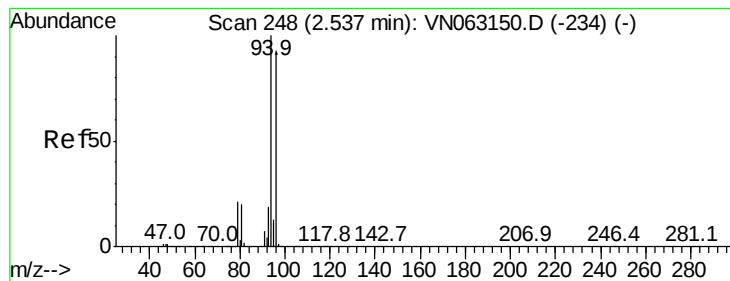
1000

500

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.202 ug/l

RT: 2.54 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

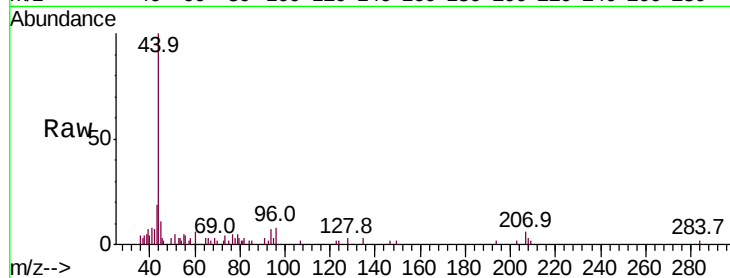
BP-VPB181-GW-843-845

Tot Ion: 94 Resp: 829

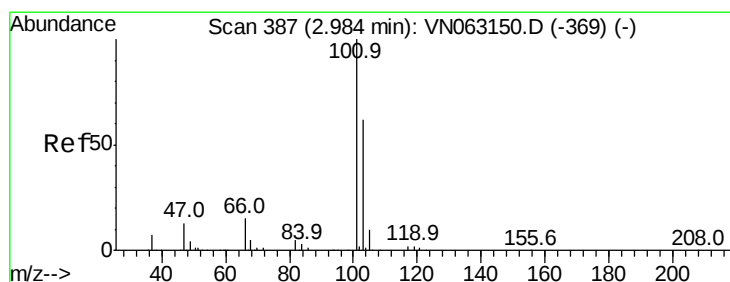
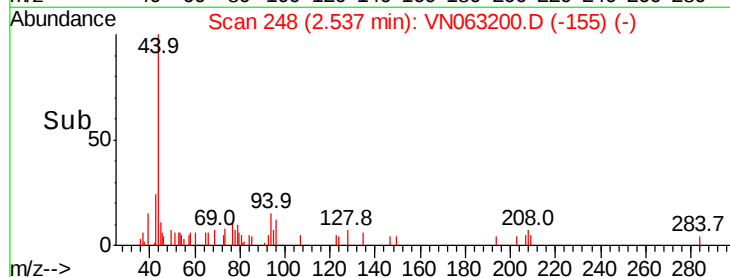
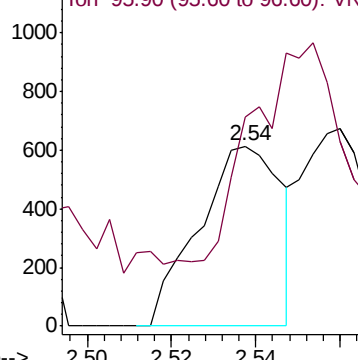
Ion Ratio Lower Upper

94 100

96 74.9 74.4 111.6



Abundance Ion 93.90 (93.60 to 94.60): VN063150.D (-234) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.00 min Scan# 391

Delta R.T. 0.01 min

Lab File: VN063200.D

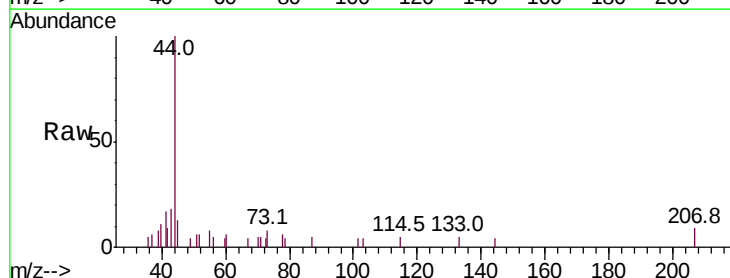
Acq: 2 Sep 2020 17:05

Tgt Ion: 101 Resp: 29

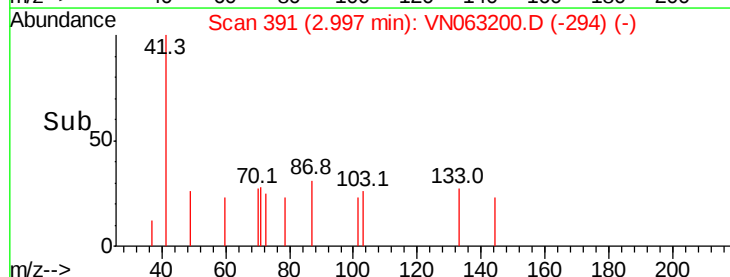
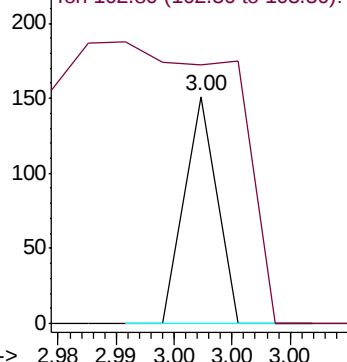
Ion Ratio Lower Upper

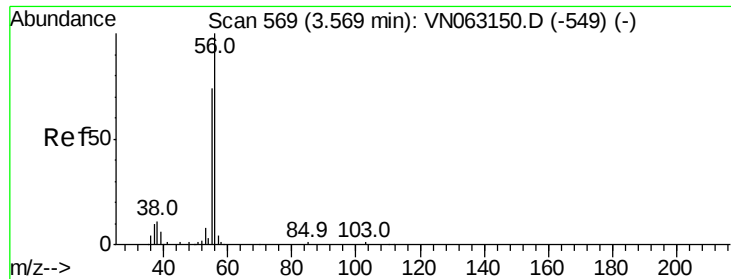
101 100

103 113.9 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): VN063150.D (-369) (-)





#13

Acrolein

Concen: 16.403 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

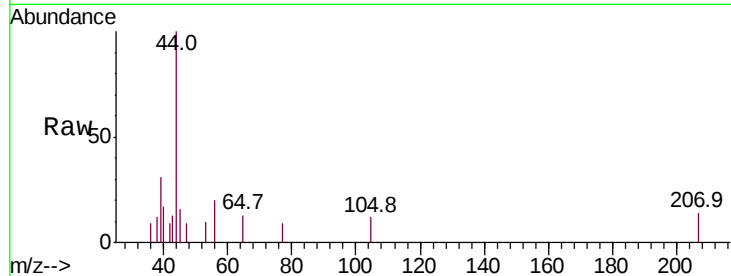
BP-VPB181-GW-843-845

Tot Ion: 56 Resp: 159

Ion Ratio Lower Upper

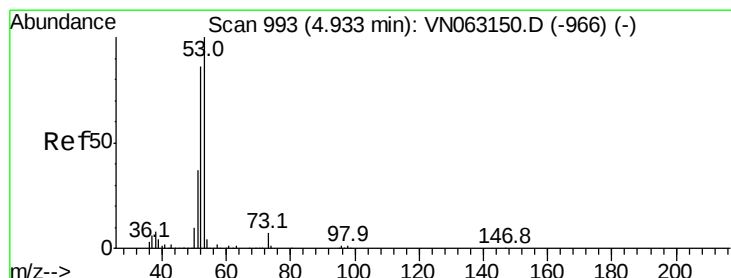
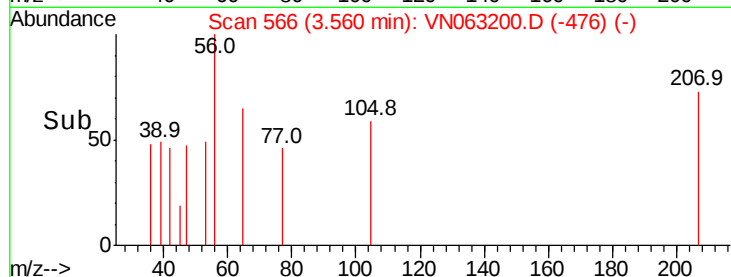
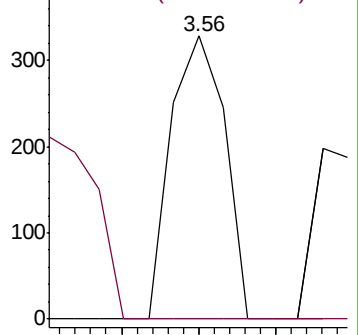
56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acrylonitrile

Concen: 2.423 ug/l

RT: 4.95 min Scan# 997

Delta R.T. 0.01 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

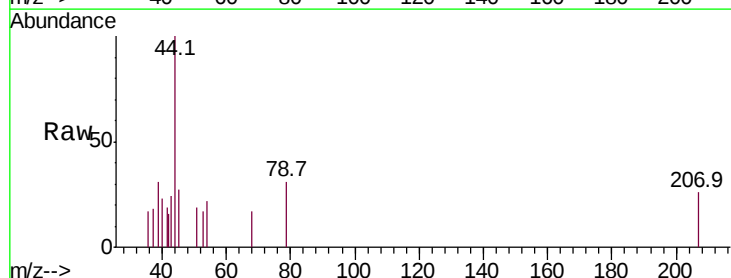
Tgt Ion: 53 Resp: 34

Ion Ratio Lower Upper

53 100

52 91.2 67.2 100.8

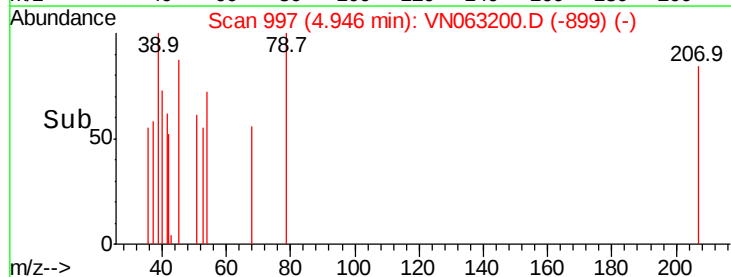
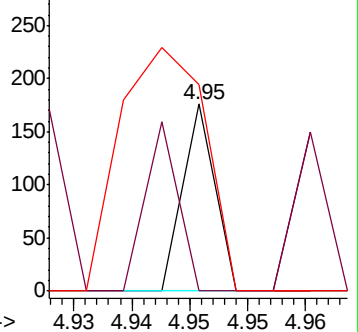
51 341.2 30.2 45.4#

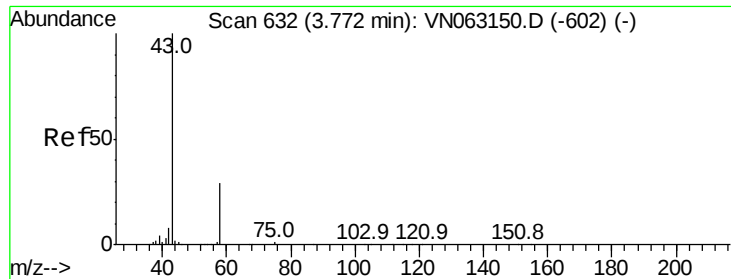


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: 3.357 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

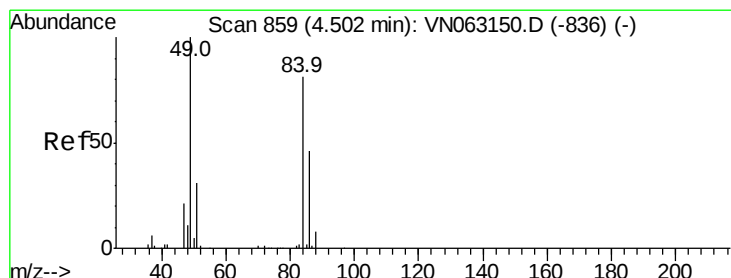
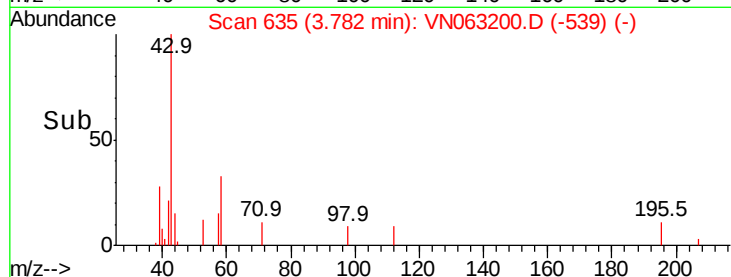
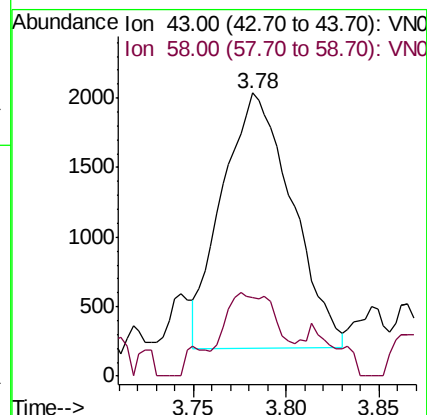
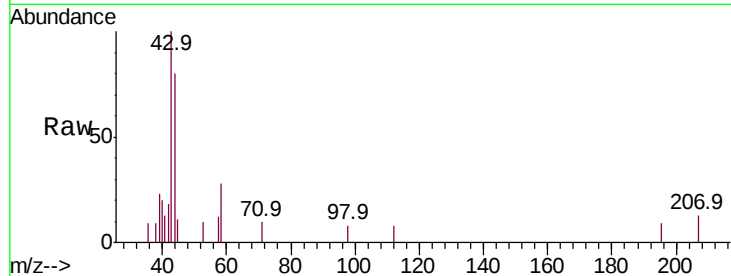
BP-VPB181-GW-843-845

Tot Ion: 43 Resp: 4800

Ion Ratio Lower Upper

43 100

58 21.0 23.1 34.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.49 min Scan# 856

Delta R.T. -0.01 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Tgt Ion: 84 Resp: 532

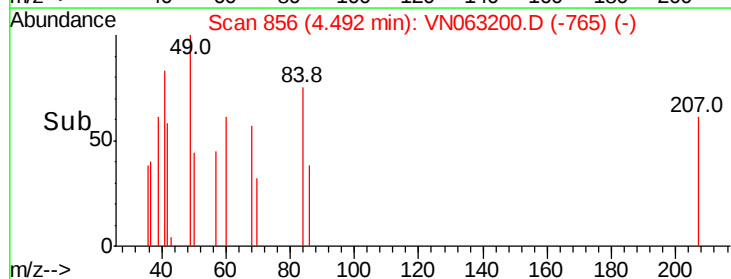
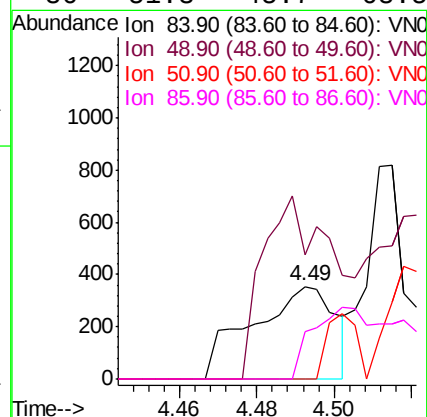
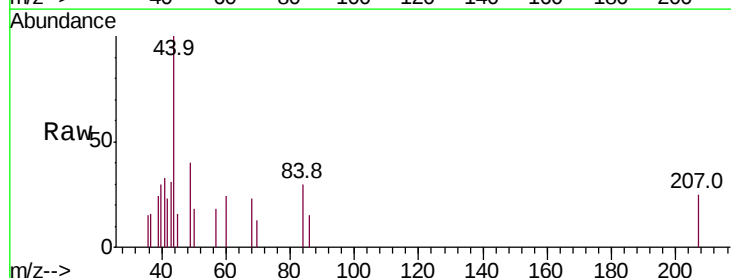
Ion Ratio Lower Upper

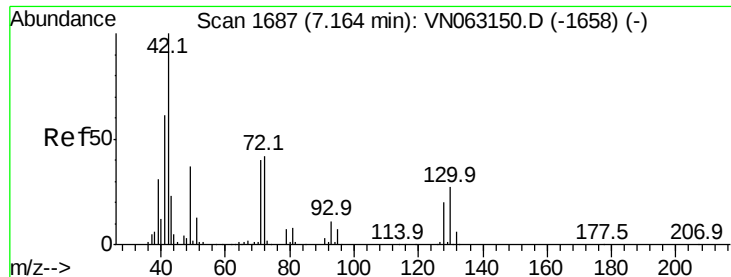
84 100

49 133.8 98.4 147.6

51 0.0 30.4 45.6#

86 51.3 45.7 68.5





#29

Tetrahydrofuran

Concen: 0.353 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-843-845

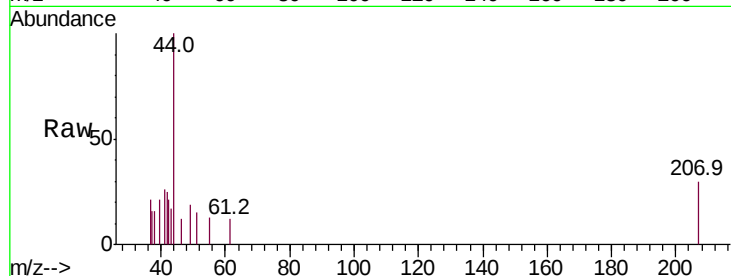
Tot Ion: 42 Resp: 541

Ion Ratio Lower Upper

42 100

72 0.0 33.9 50.9#

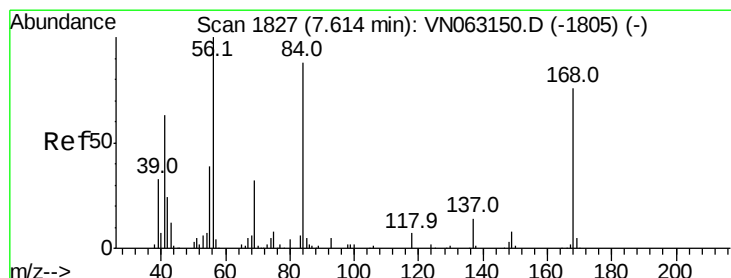
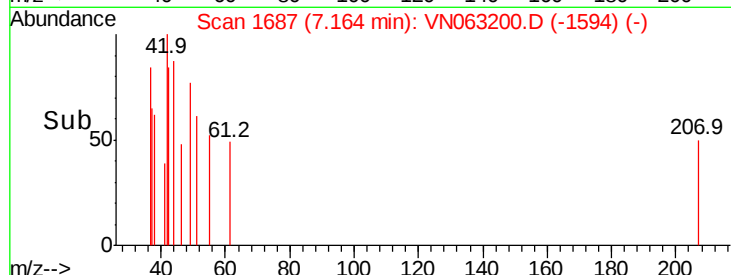
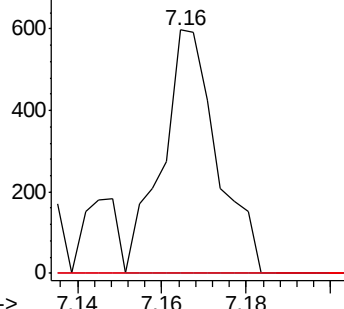
71 0.0 31.9 47.9#



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: Below Cal

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

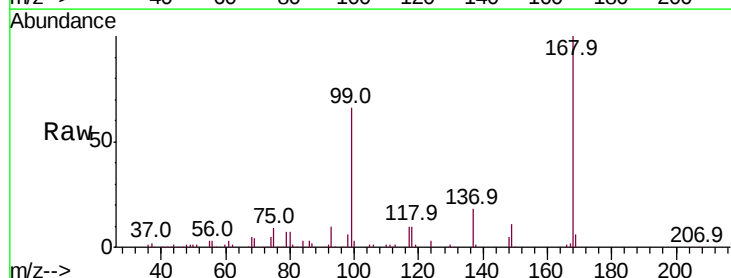
Tgt Ion: 56 Resp: 9948

Ion Ratio Lower Upper

56 100

69 147.9 25.4 38.0#

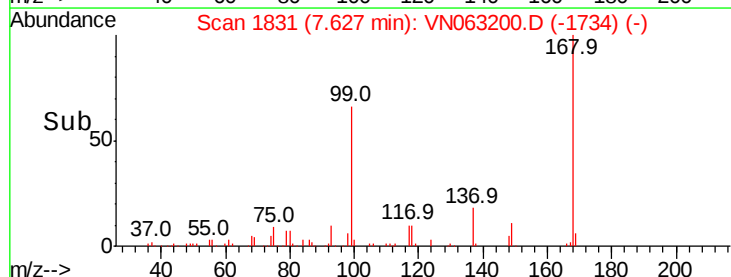
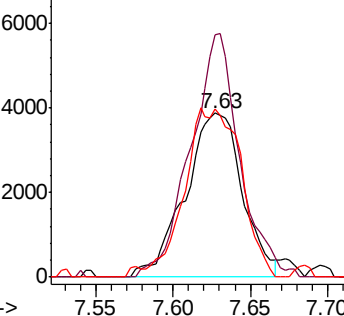
84 102.6 70.2 105.4

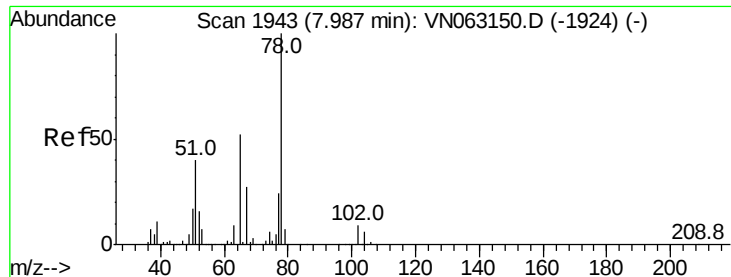


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.629 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

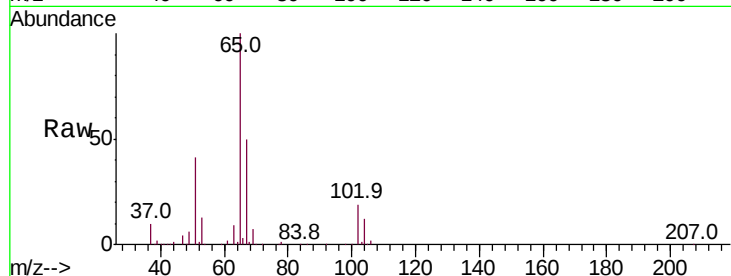
BP-VPB181-GW-843-845

Tot Ion: 65 Resp: 254635

Ion Ratio Lower Upper

65 100

67 49.8 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN063200.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063200.D (-1850) (-)

7.99

120000

100000

80000

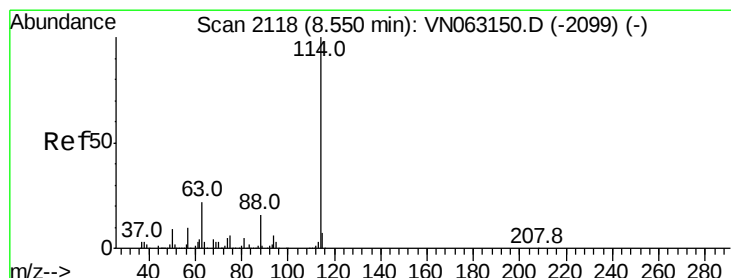
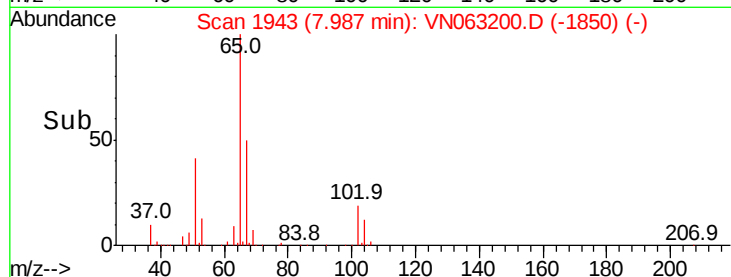
60000

40000

20000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

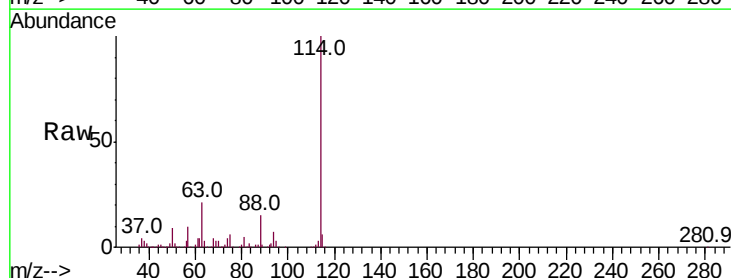
Tgt Ion: 114 Resp: 609516

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.0

88 15.0 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN063200.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN063200.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN063200.D (-2025) (-)

8.55

400000

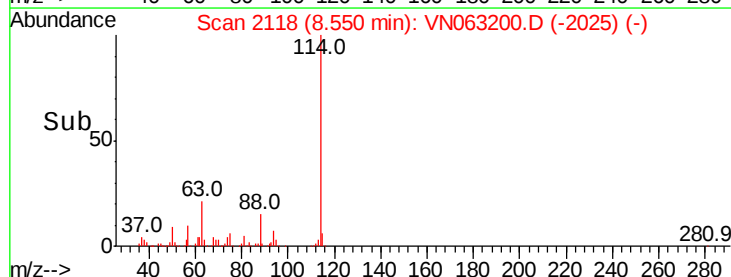
300000

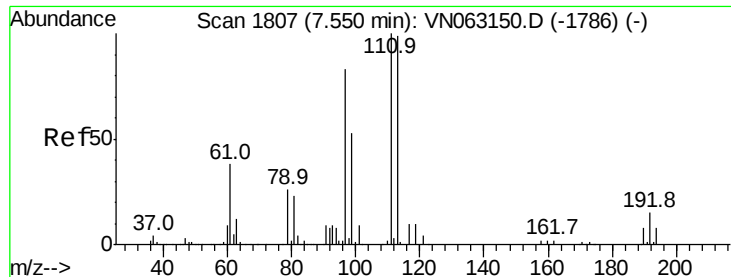
200000

100000

0

Time--> 8.45 8.50 8.55 8.60 8.65





#35

Dibromofluoromethane

Concen: 49.788 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

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ClientSampleId :

BP-VPB181-GW-843-845

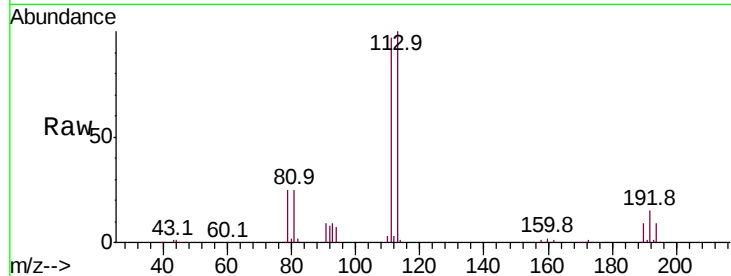
Tot Ion:113 Resp: 194690

Ion Ratio Lower Upper

113 100

111 101.1 80.7 121.1

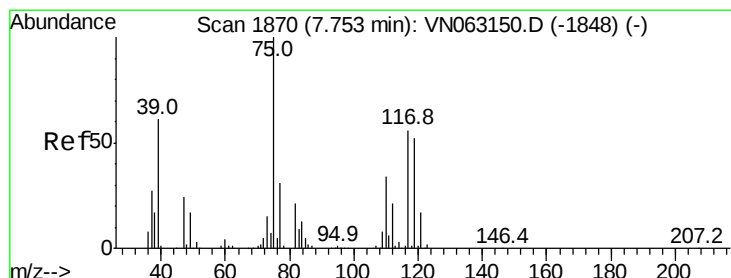
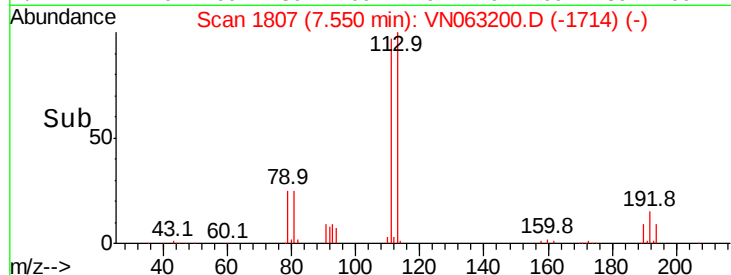
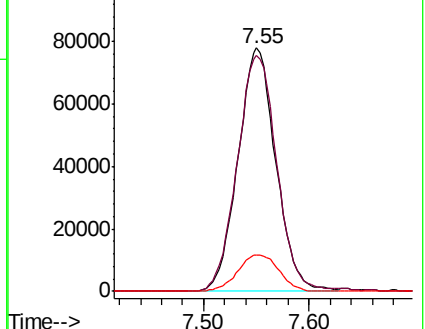
192 16.3 12.6 19.0



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: 5.139 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

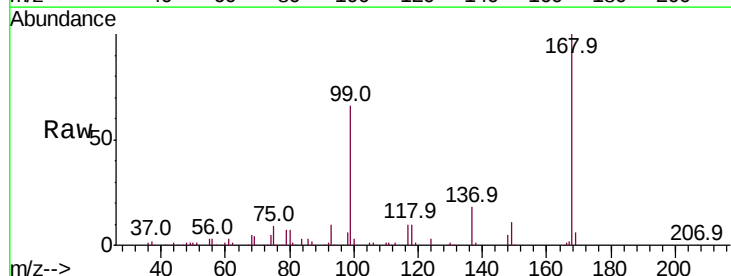
Tgt Ion: 75 Resp: 30112

Ion Ratio Lower Upper

75 100

110 5.8 16.6 49.8#

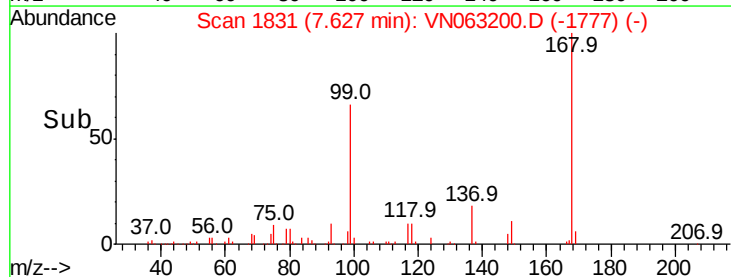
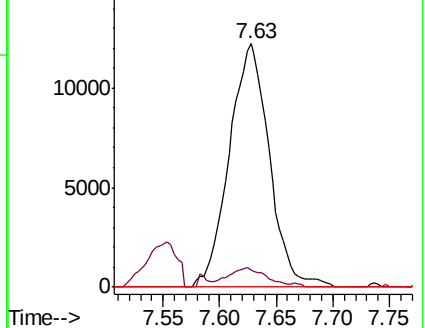
77 0.0 25.4 38.2#

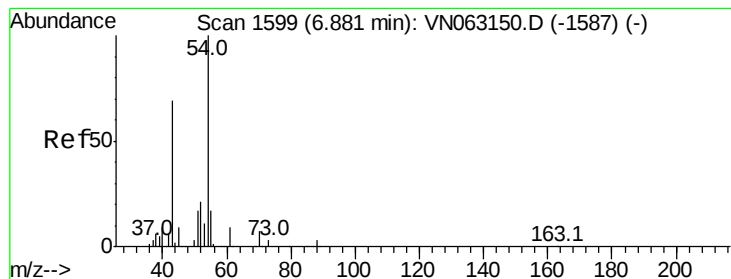


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#37

Ethyl Acetate

Concen: 0.453 ug/l

RT: 6.87 min Scan# 1594

Delta R.T. -0.02 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-843-845

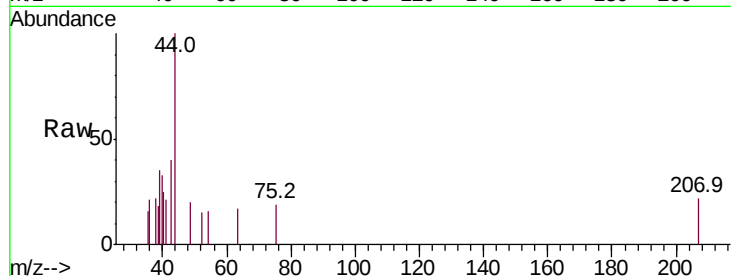
Tot Ion: 43 Resp: 403

Ion Ratio Lower Upper

43 100

61 32.5 10.2 15.4#

70 0.0 3.0 4.6#

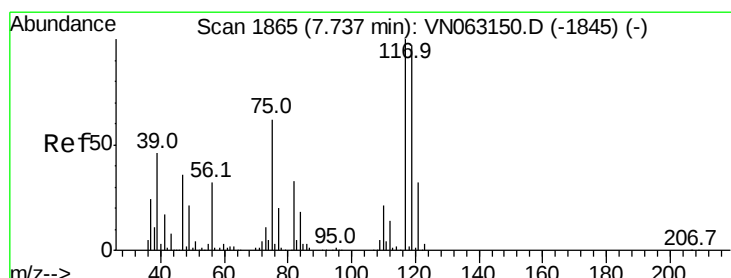
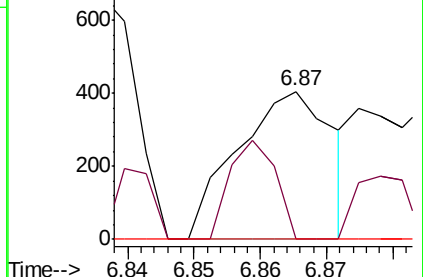
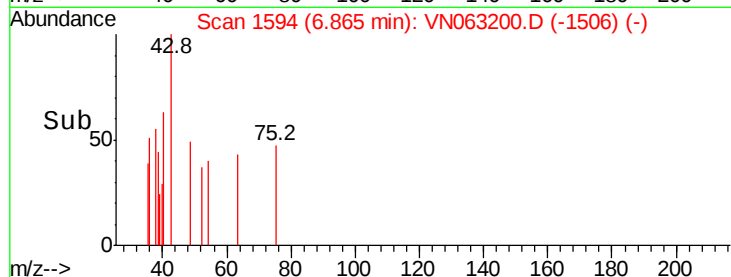


Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-1587) (-)

Ion 60.90 (60.60 to 61.60): VN063150.D (-1587) (-)

Ion 70.00 (69.70 to 70.70): VN063150.D (-1587) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.704 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

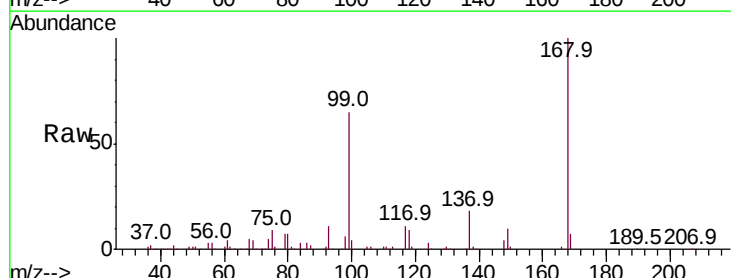
Tgt Ion: 117 Resp: 33898

Ion Ratio Lower Upper

117 100

119 4.5 77.2 115.8#

121 0.0 25.6 38.4#

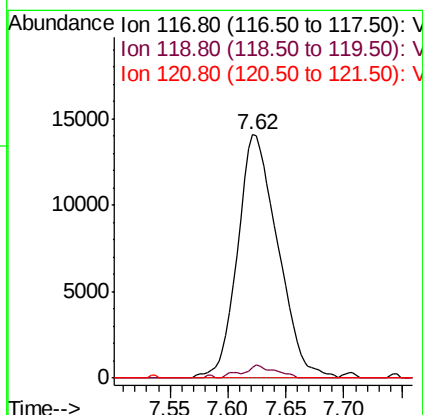
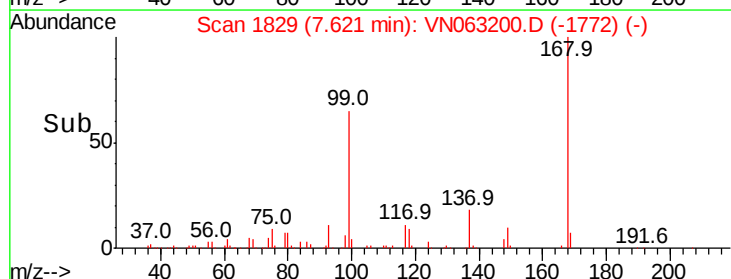


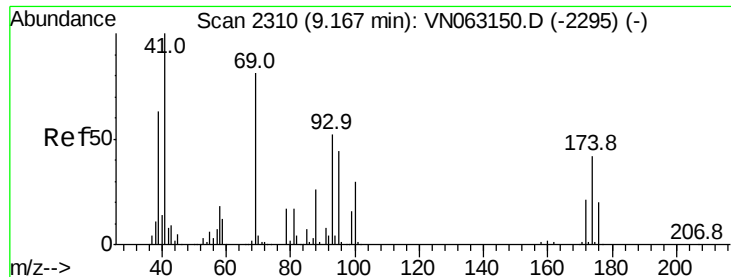
Abundance Ion 116.80 (116.50 to 117.50): VN063150.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063150.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063150.D (-1845) (-)

Time-->





#49

1,4-Dioxane

Concen: 6.033 ug/l

RT: 9.17 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-843-845

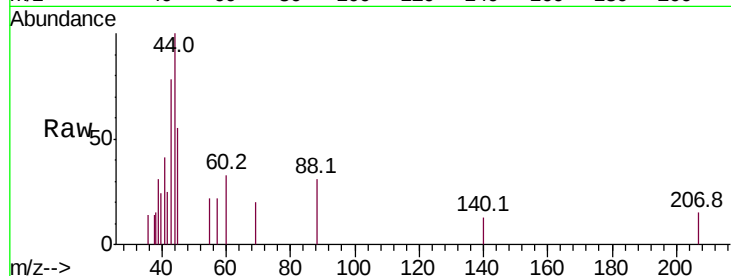
Tot Ion: 88 Resp: 402

Ion Ratio Lower Upper

88 100

43 60.4 28.6 42.8#

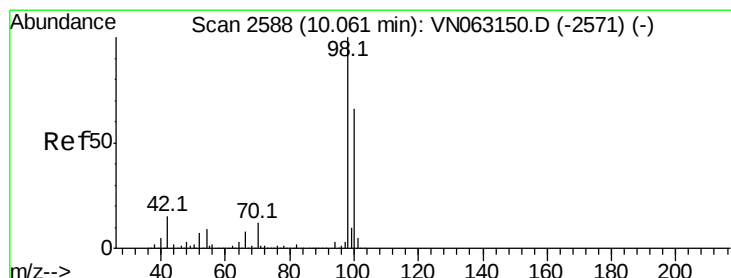
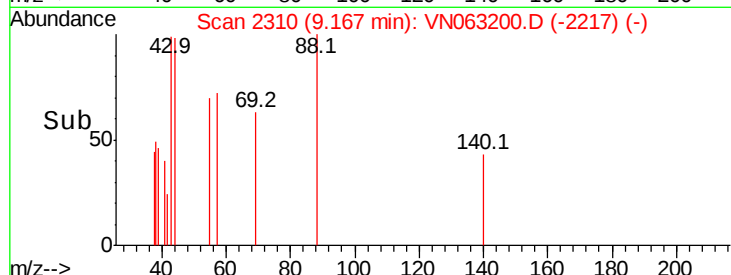
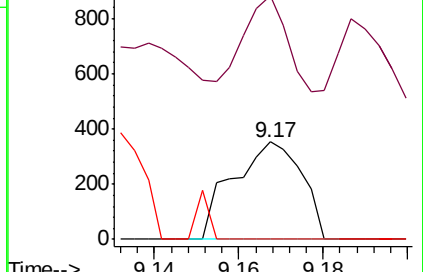
58 8.5 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VN063150.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063150.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063150.D (-2295) (-)



#50

Toluene-d8

Concen: 51.401 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063200.D

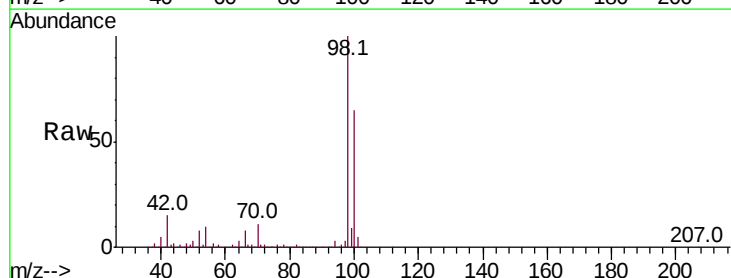
Acq: 2 Sep 2020 17:05

Tgt Ion: 98 Resp: 773638

Ion Ratio Lower Upper

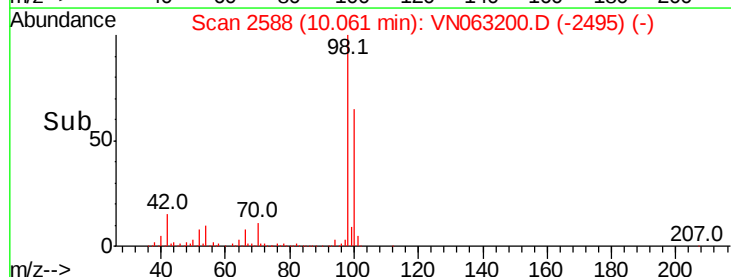
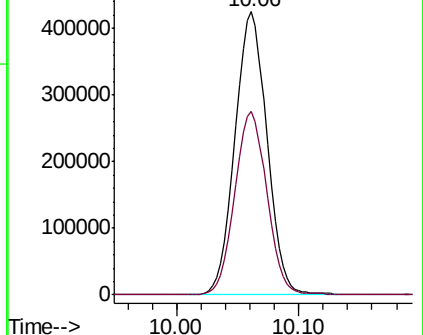
98 100

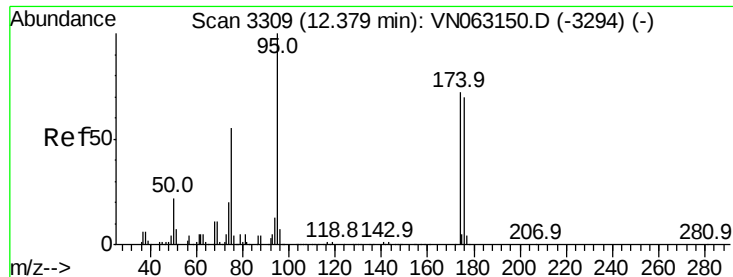
100 65.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN063150.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063150.D (-2571) (-)





#62

4-Bromofluorobenzene

Concen: 51.395 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-843-845

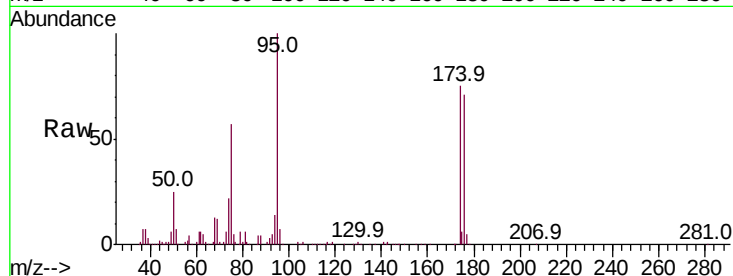
Tot Ion: 95 Resp: 270589

Ion Ratio Lower Upper

95 100

174 73.7 0.0 143.8

176 69.9 0.0 138.4

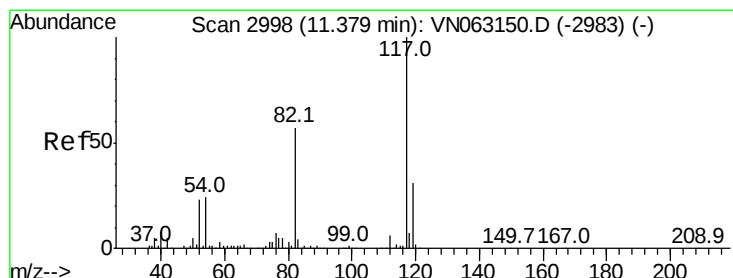
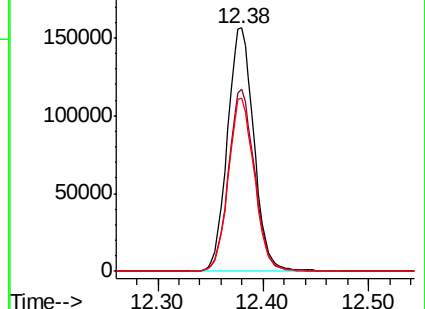
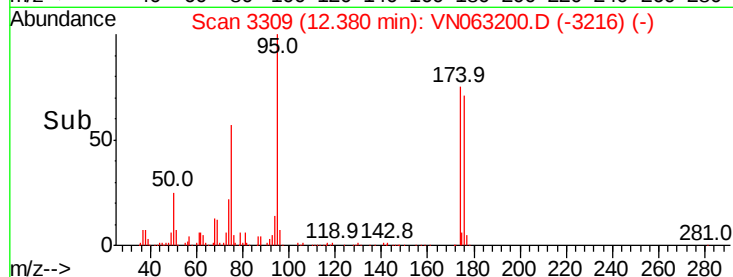


Abundance Ion 94.90 (94.60 to 95.60): VN063150.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063150.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063150.D (-3294) (-)

12.38



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

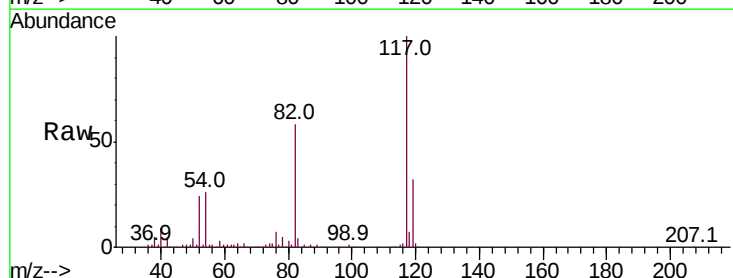
Tgt Ion: 117 Resp: 600263

Ion Ratio Lower Upper

117 100

82 58.0 45.4 68.0

119 31.6 24.6 37.0

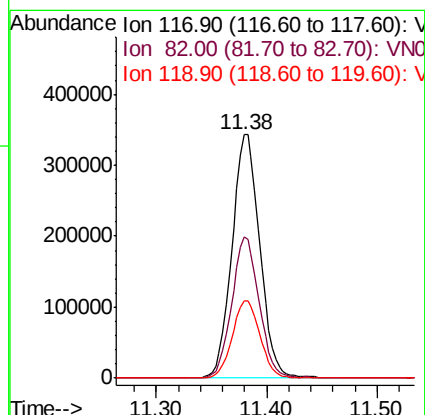
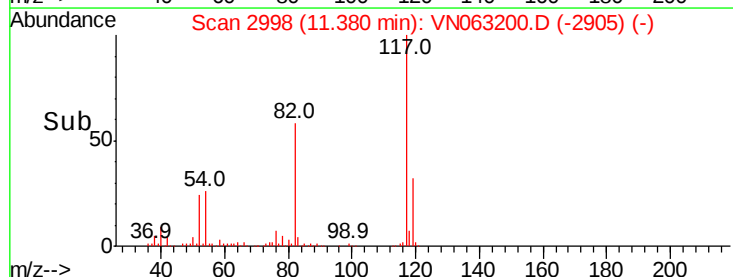


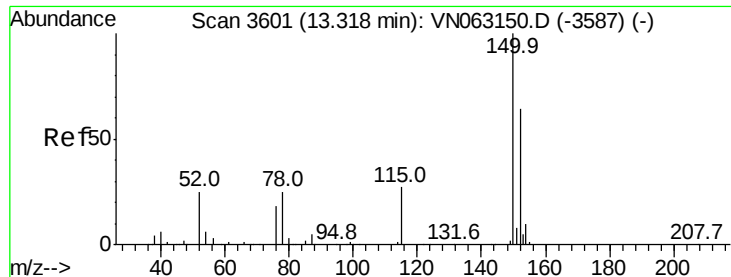
Abundance Ion 116.90 (116.60 to 117.60): VN063150.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063150.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063150.D (-2983) (-)

11.38





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-843-845

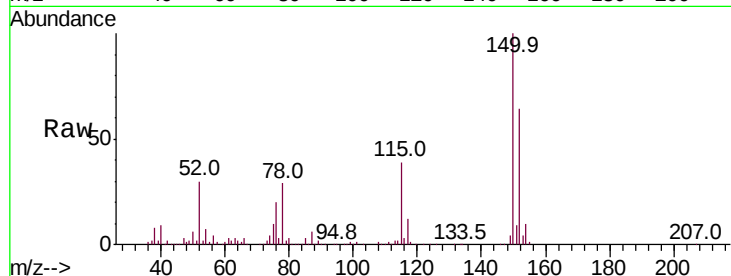
Tot Ion:152 Resp: 233140

Ion Ratio Lower Upper

152 100

115 61.6 32.0 96.2

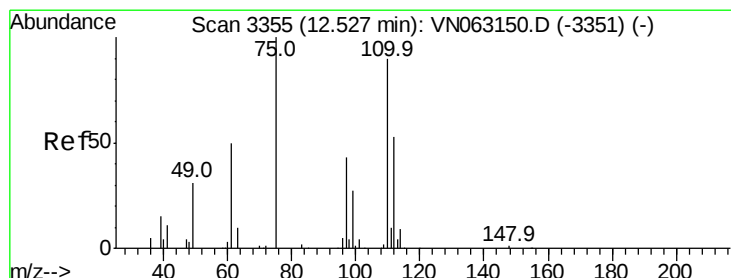
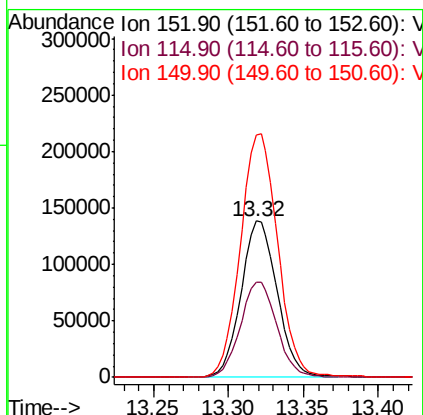
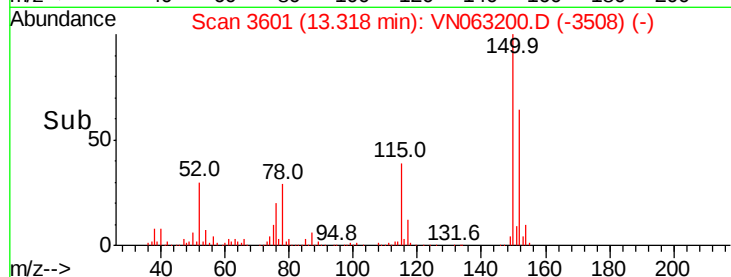
150 161.1 0.0 353.0



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: 34.078 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063200.D

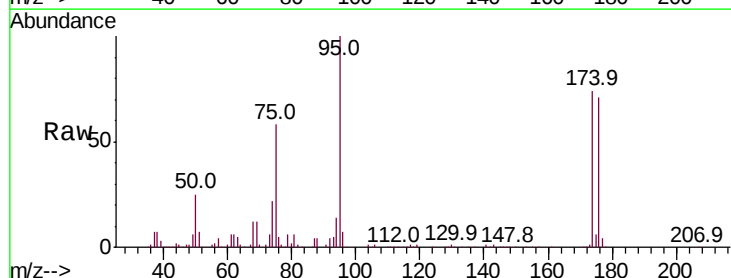
Acq: 2 Sep 2020 17:05

Tgt Ion: 75 Resp: 156100

Ion Ratio Lower Upper

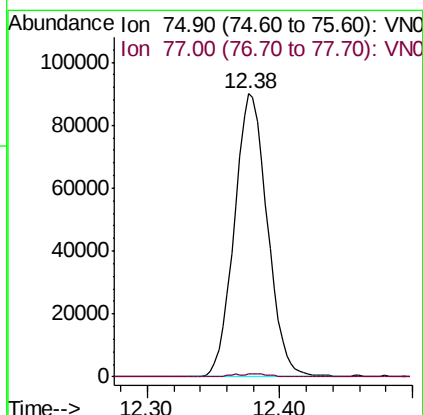
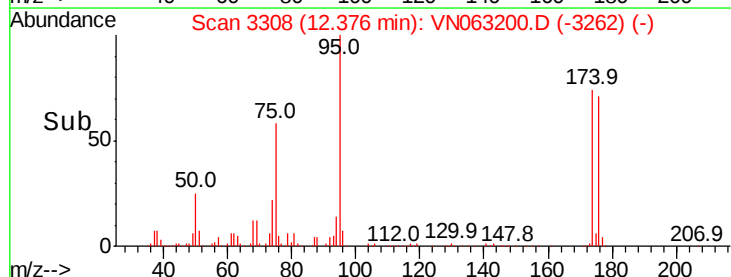
75 100

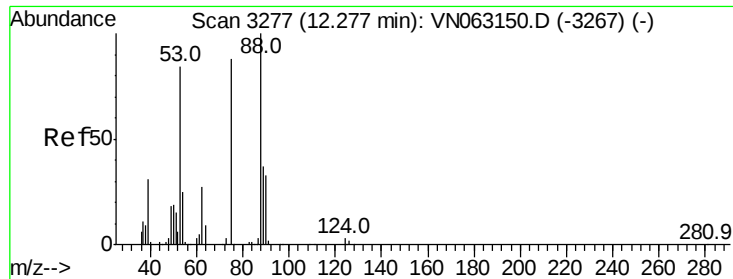
77 0.7 0.0 0.0#



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: 82.365 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063200.D

Acq: 2 Sep 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-843-845

Tot Ion: 75 Resp: 156100

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.1 35.3 52.9#

