

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064808.D
 Acq On : 24 Nov 2020 14:15
 Operator : JC/MD
 Sample : L4829-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Quant Time: Nov 25 04:03:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	171526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	306619	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	320563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	146167	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	104242	52.28	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	104.56%		
35) Dibromofluoromethane	7.55	113	94529	51.52	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.04%		
50) Toluene-d8	10.06	98	385915	51.48	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.96%		
62) 4-Bromofluorobenzene	12.37	95	152417	56.81	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	113.62%		

Target Compounds

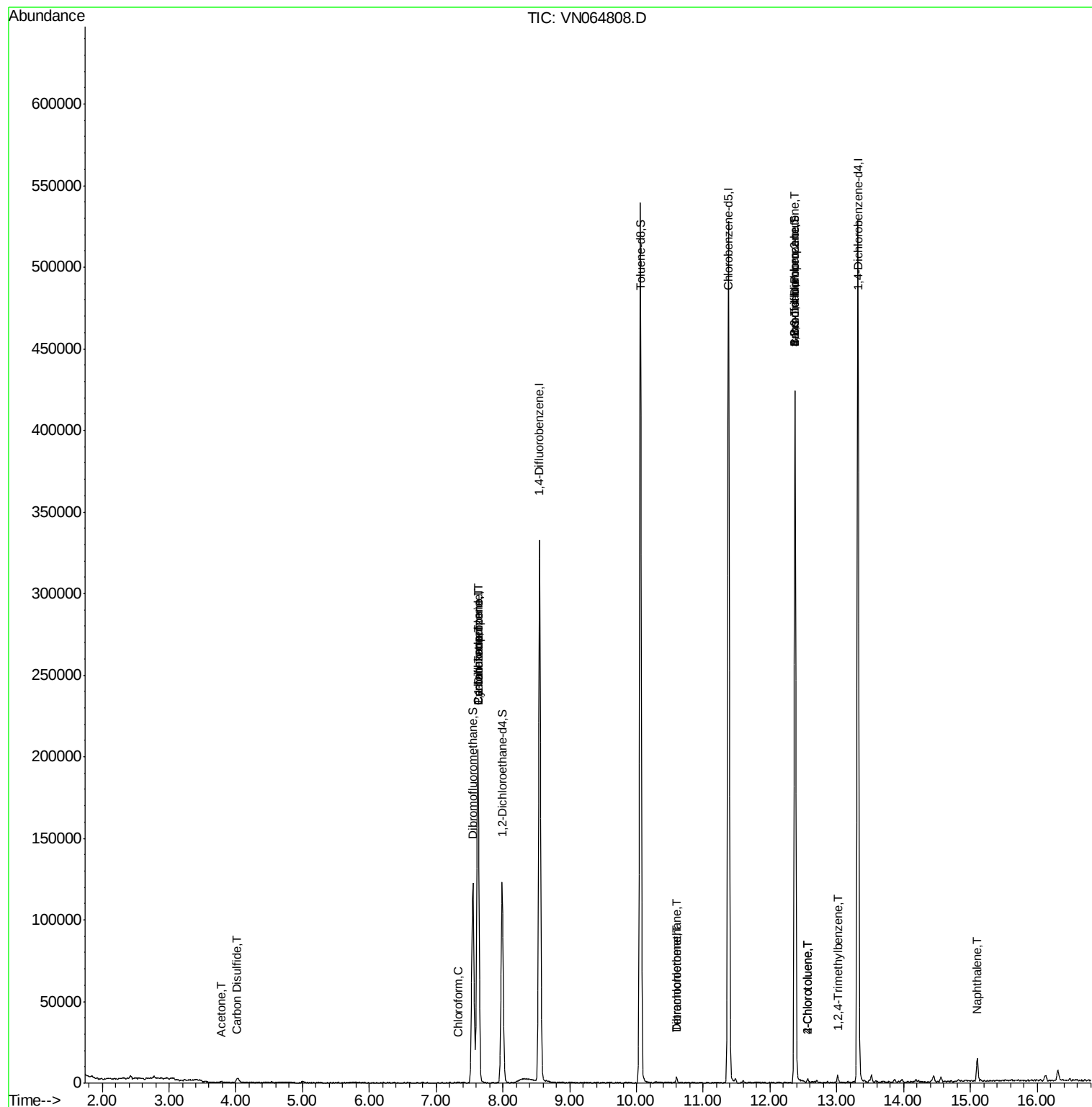
					Qvalue	
16) Acetone	3.78	43	1005	1.533	ug/l #	43
17) Carbon Disulfide	4.01	76	1695	0.400	ug/l #	75
30) Chloroform	7.33	83	730	0.216	ug/l	95
31) Cyclohexane	7.63	56	3220	1.159	ug/l #	6
36) 1,1-Dichloropropene	7.62	75	11950	4.205	ug/l #	48
38) Carbon Tetrachloride	7.63	117	16888	5.711	ug/l #	15
60) Dibromochloromethane	10.60	129	696	0.284	ug/l #	10
64) Tetrachloroethene	10.60	164	835	0.268	ug/l	86
71) Bromoform	12.37	173	1131	0.560	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	72482	23.026	ug/l #	100
79) 2-Chlorotoluene	12.57	91	2316	0.323	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.37	75	72482	63.109	ug/l #	15
82) 4-Chlorotoluene	12.57	91	2316	0.309	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.01	105	3675	0.430	ug/l	87
95) Naphthalene	15.10	128	14410	1.626	ug/l	99

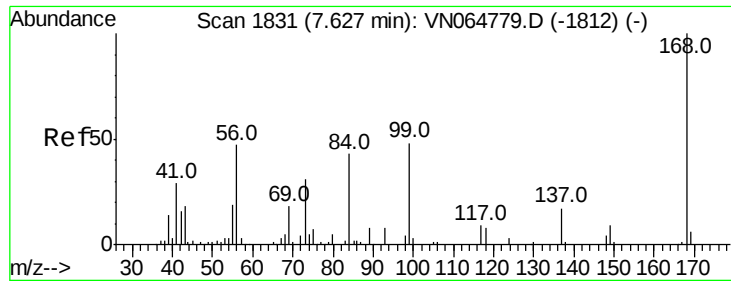
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

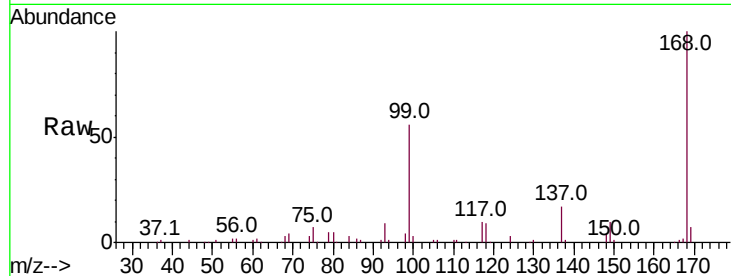
MW-7

Tot Ion:168 Resp: 171526

Ion Ratio Lower Upper

168 100

99 56.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

60000

40000

20000

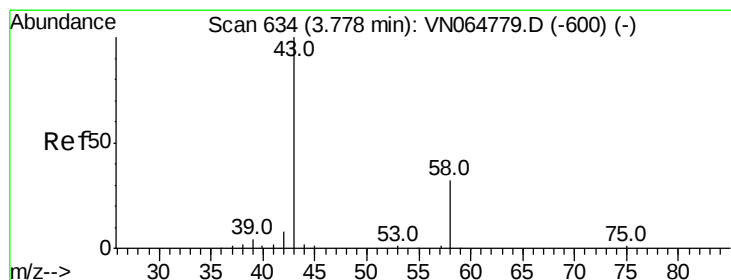
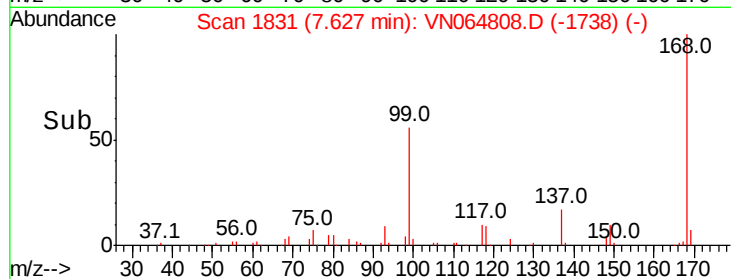
0

7.50

7.60

7.70

Time-->



#16

Acetone

Concen: 1.533 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064808.D

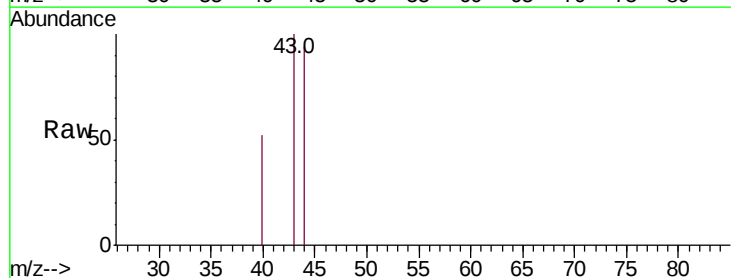
Acq: 24 Nov 2020 14:15

Tgt Ion: 43 Resp: 1005

Ion Ratio Lower Upper

43 100

58 0.0 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

400

300

200

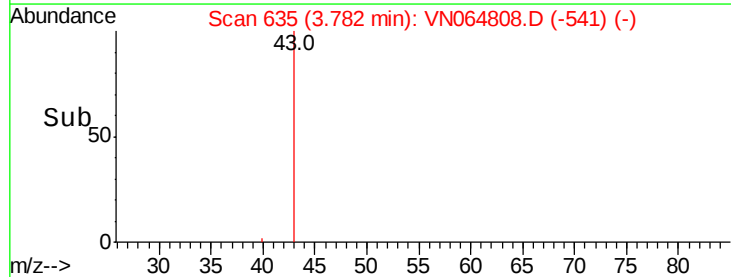
100

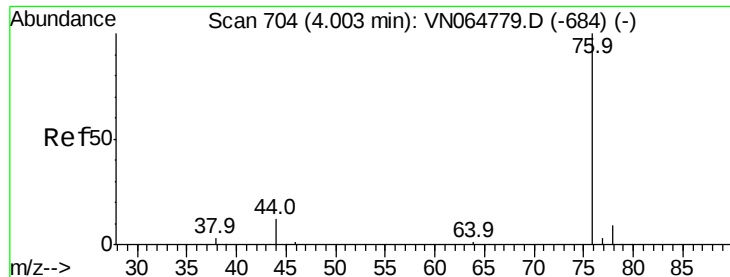
0

3.75

3.80

Time-->





#17

Carbon Disulfide

Concen: 0.400 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

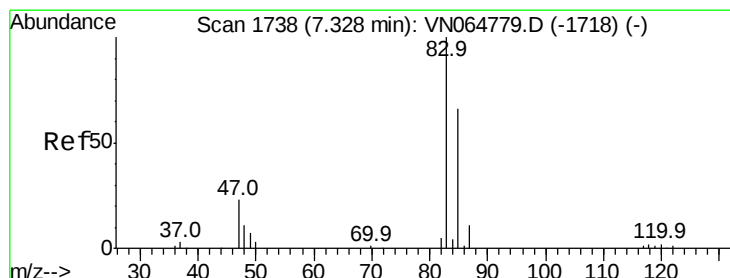
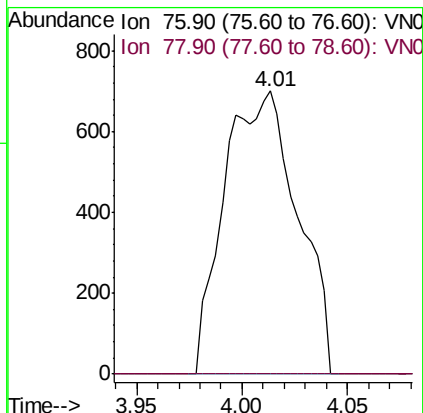
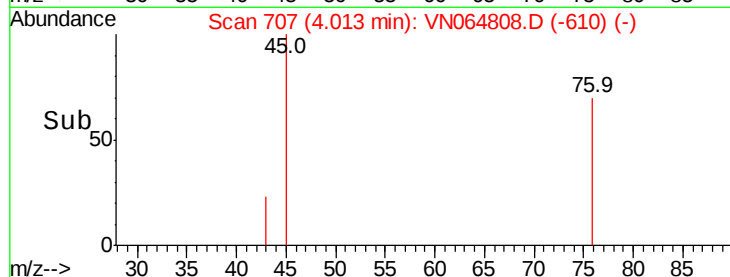
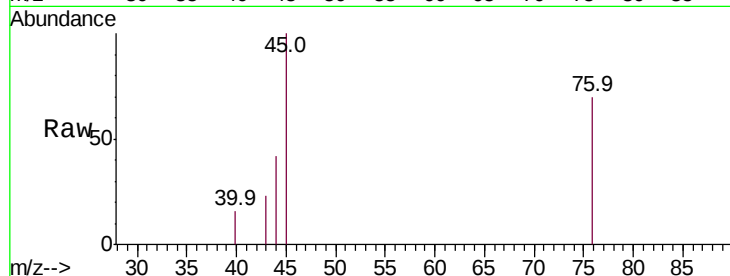
MW-7

Tot Ion: 76 Resp: 1695

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



#30

Chloroform

Concen: 0.216 ug/l

RT: 7.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VN064808.D

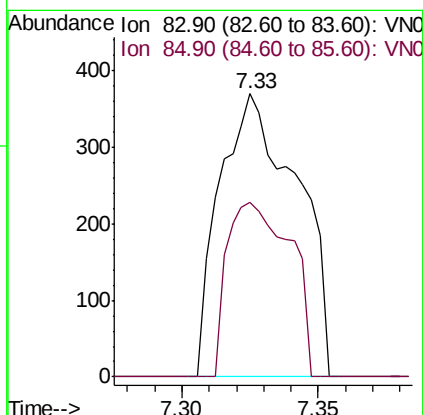
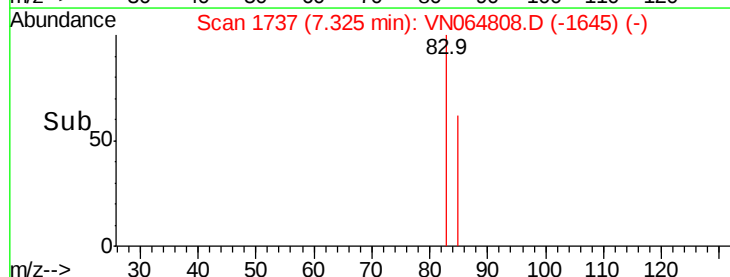
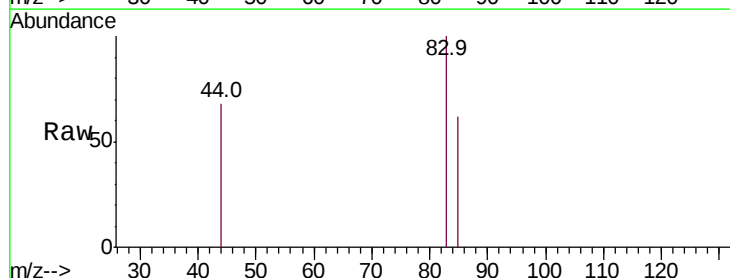
Acq: 24 Nov 2020 14:15

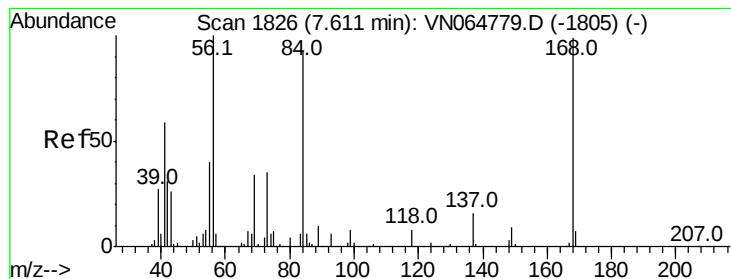
Tgt Ion: 83 Resp: 730

Ion Ratio Lower Upper

83 100

85 61.6 52.6 78.8





#31

Cyclohexane

Concen: 1.159 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

MW-7

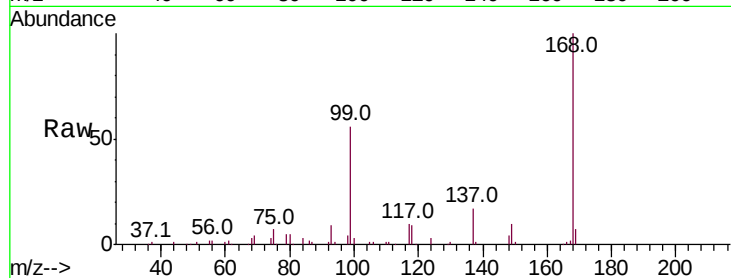
Tot Ion: 56 Resp: 3220

Ion Ratio Lower Upper

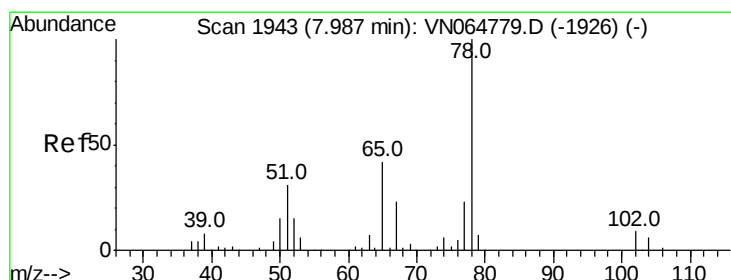
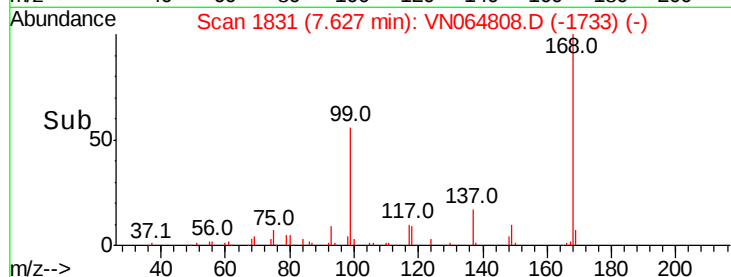
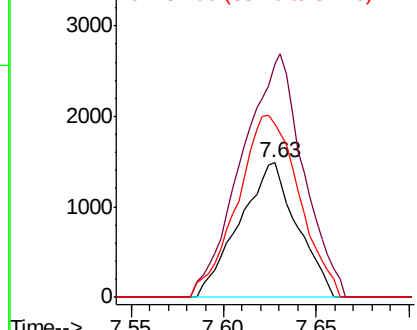
56 100

69 174.0 27.5 41.3#

84 128.9 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 52.275 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064808.D

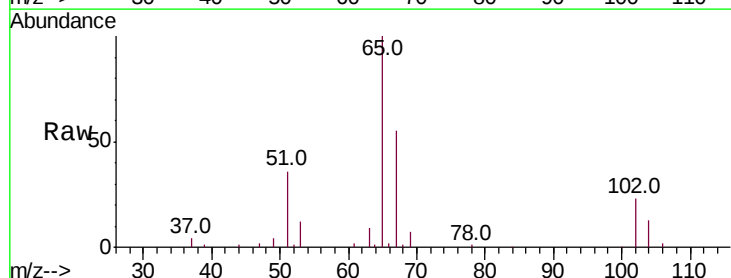
Acq: 24 Nov 2020 14:15

Tgt Ion: 65 Resp: 104242

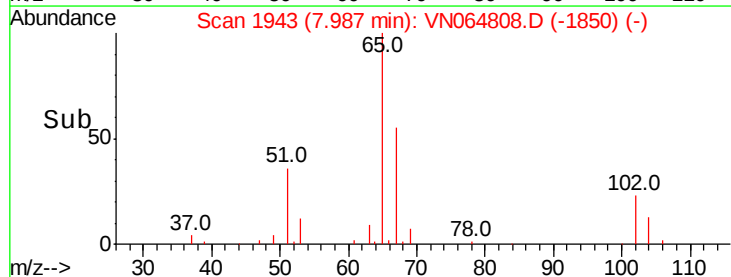
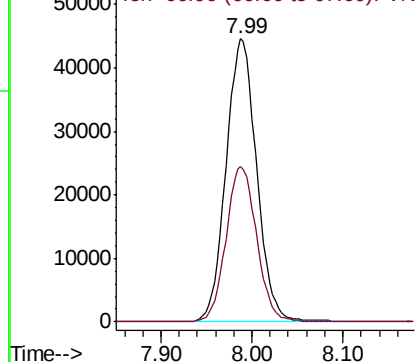
Ion Ratio Lower Upper

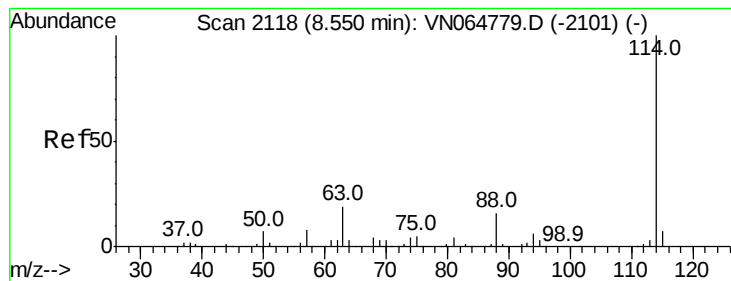
65 100

67 54.6 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

MW-7

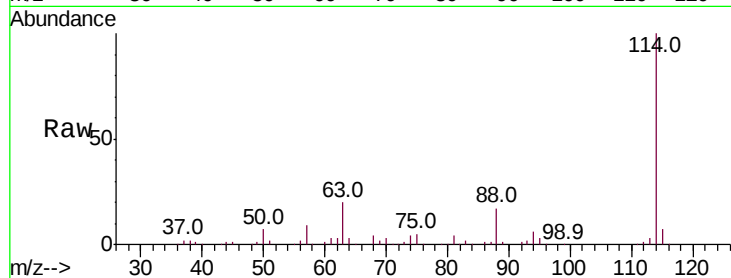
Tot Ion:114 Resp: 306619

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.6

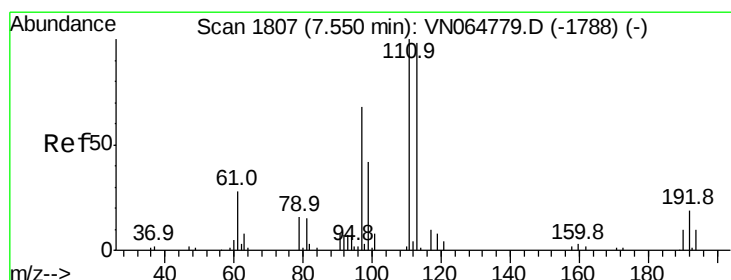
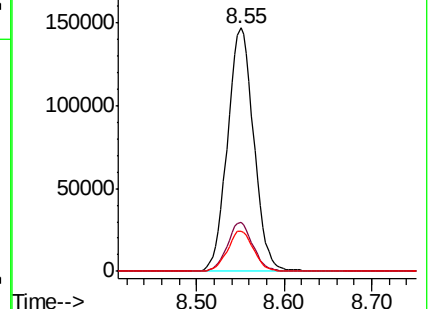
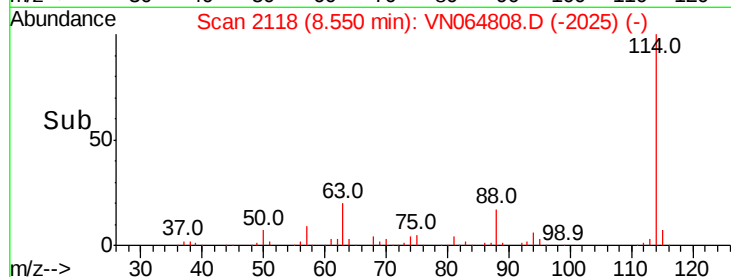
88 16.5 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.523 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

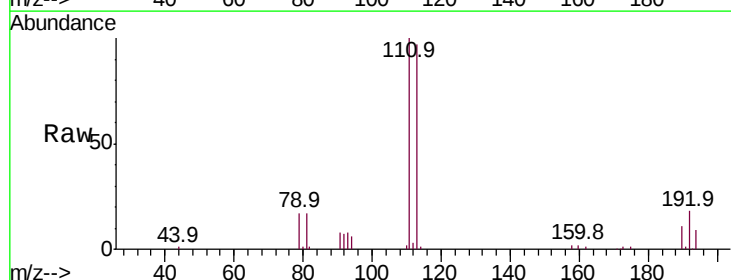
Tgt Ion:113 Resp: 94529

Ion Ratio Lower Upper

113 100

111 104.8 81.6 122.4

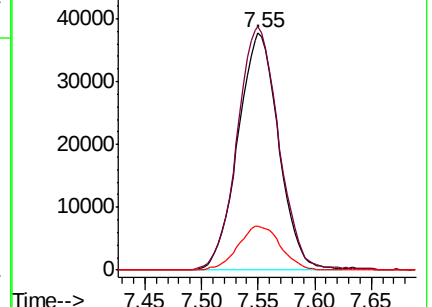
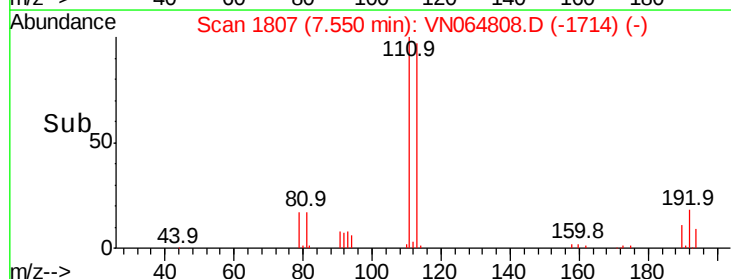
192 19.4 16.2 24.2

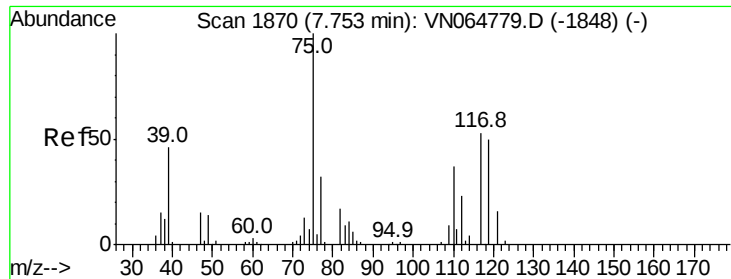


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

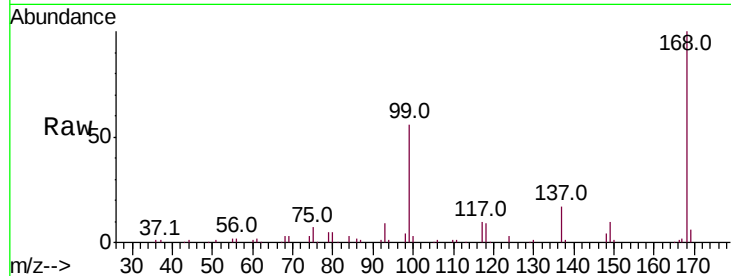




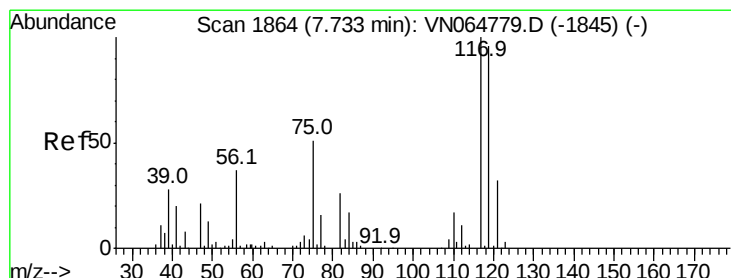
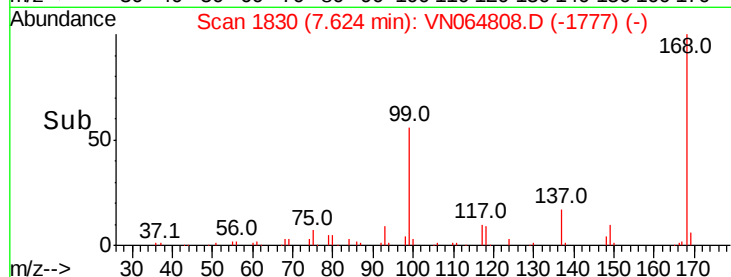
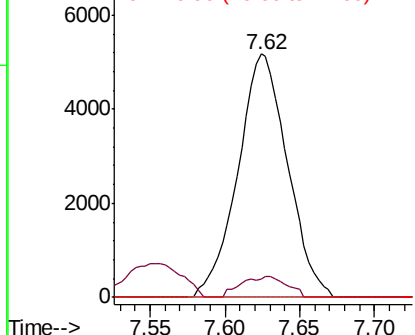
#36
 1,1-Dichloropropene
 Concen: 4.205 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064808.D
 Acq: 24 Nov 2020 14:15

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.8	53.3#
77	0.0	25.0	37.4#

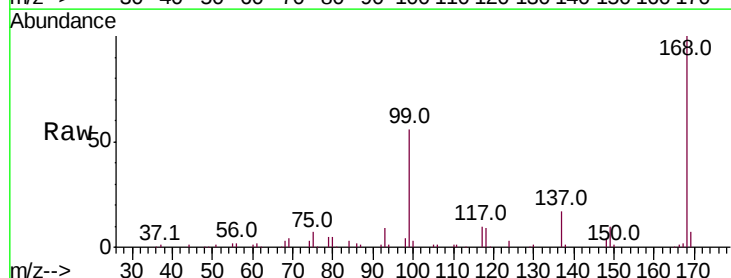


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

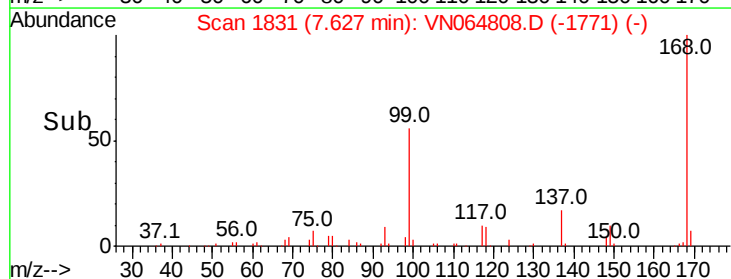
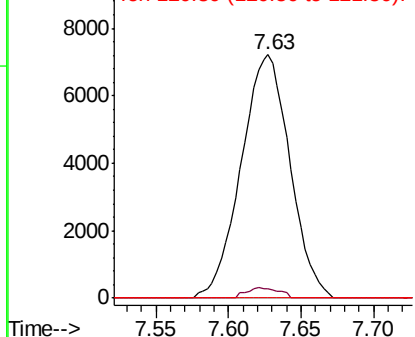


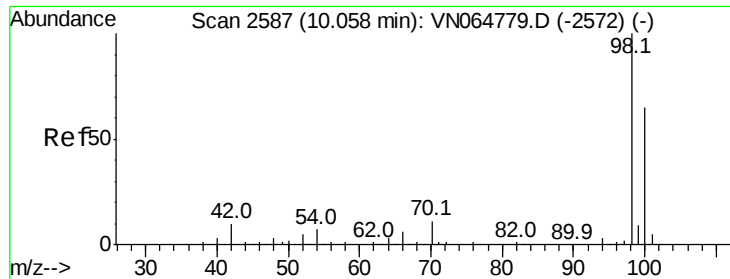
#38
 Carbon Tetrachloride
 Concen: 5.711 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064808.D
 Acq: 24 Nov 2020 14:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	76.7	115.1#
121	0.0	25.4	38.2#



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





#50

Toluene-d8

Concen: 51.479 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

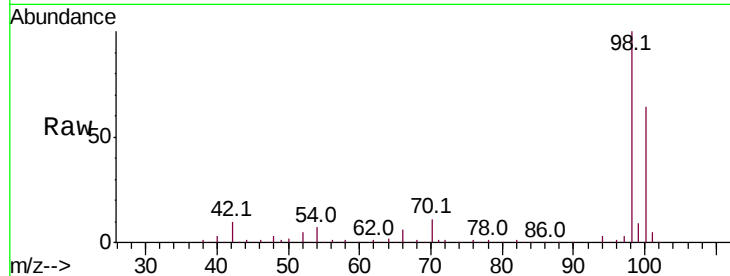
MW-7

Tot Ion: 98 Resp: 385915

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

250000

200000

150000

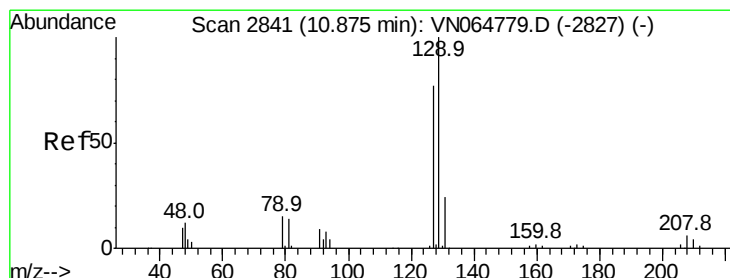
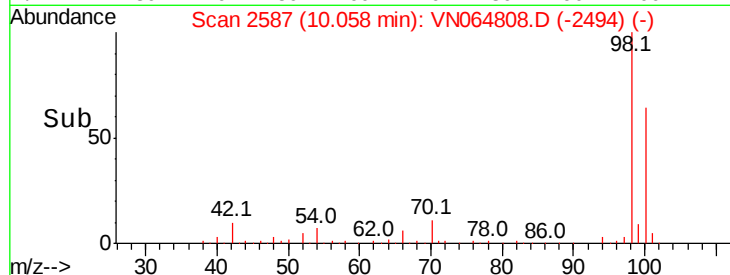
100000

50000

0

10.00 10.10

Time-->



#60

Dibromochloromethane

Concen: 0.284 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN064808.D

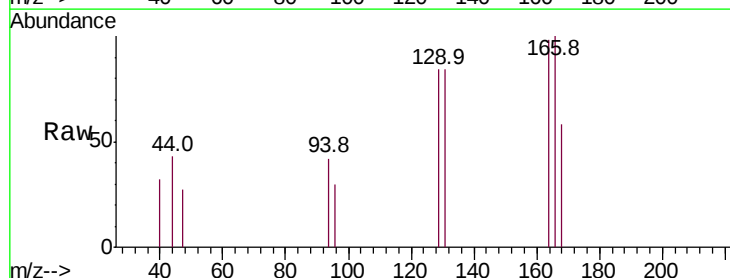
Acq: 24 Nov 2020 14:15

Tgt Ion: 129 Resp: 696

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): VN064779.D (-2827) (-)

Ion 126.80 (126.50 to 127.50): VN064779.D (-2827) (-)

500

400

300

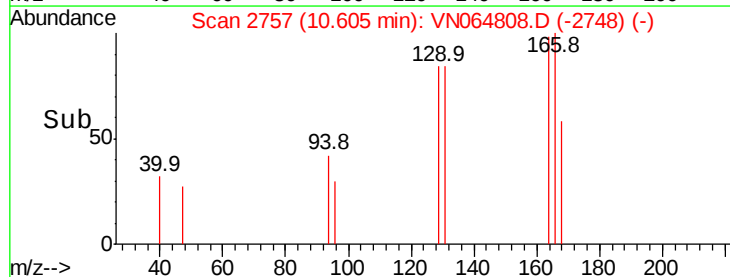
200

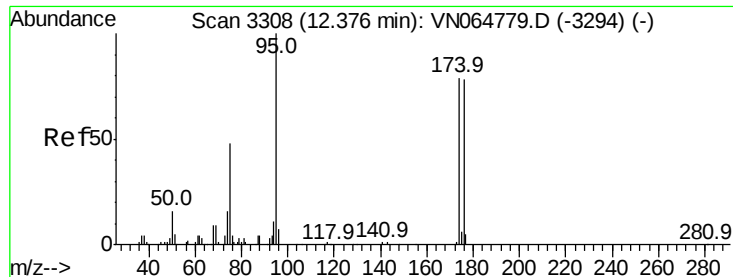
100

0

10.58 10.60 10.62

Time-->





#62

4-Bromofluorobenzene

Concen: 56.812 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

MW-7

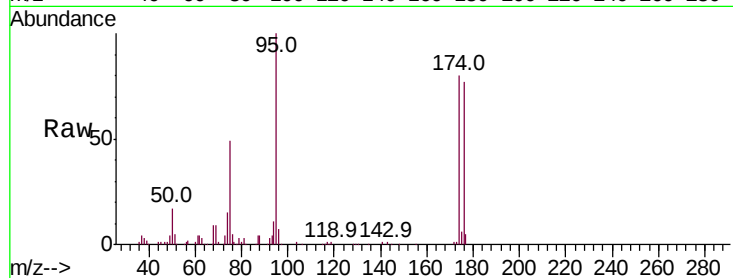
Tot Ion: 95 Resp: 152417

Ion Ratio Lower Upper

95 100

174 81.7 0.0 160.4

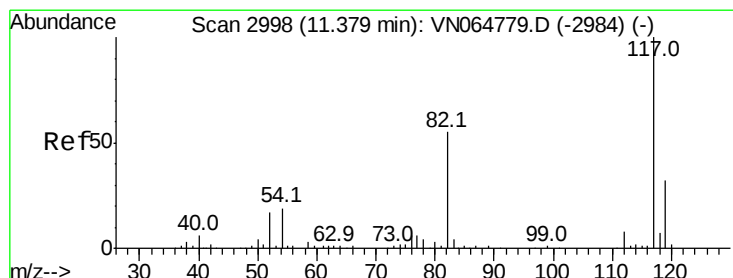
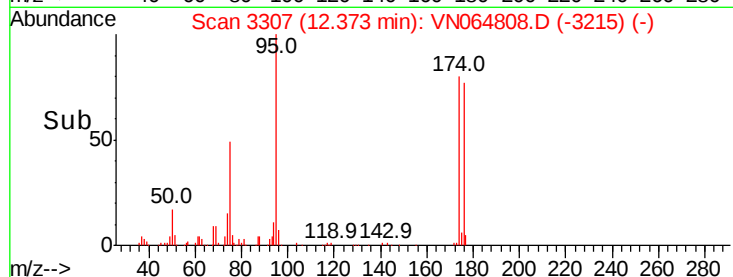
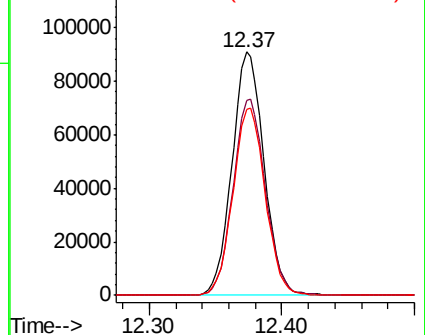
176 77.8 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN064779.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064779.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064779.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

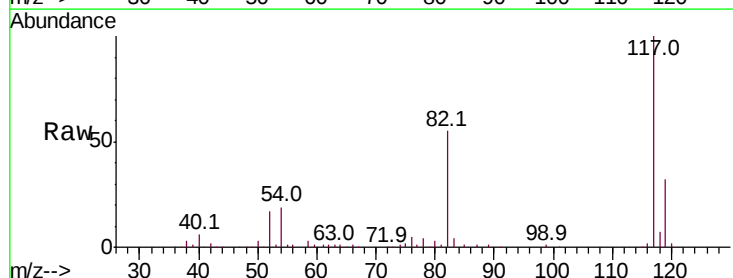
Tgt Ion: 117 Resp: 320563

Ion Ratio Lower Upper

117 100

82 54.7 44.2 66.2

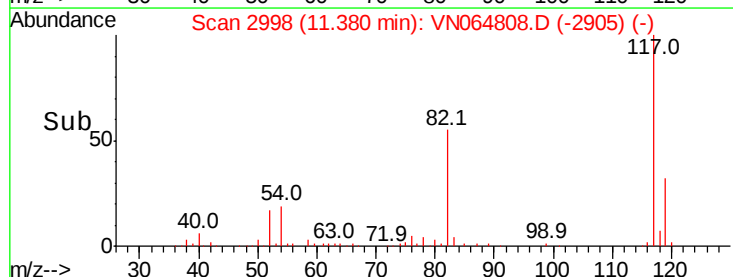
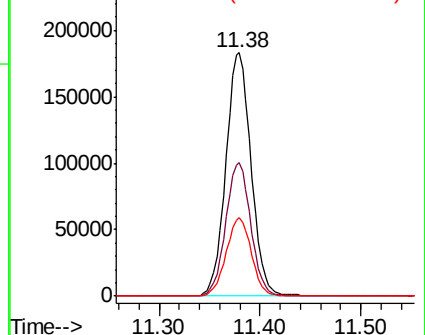
119 32.0 25.8 38.6

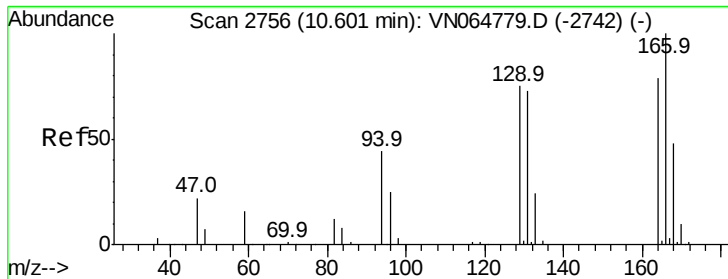


Abundance Ion 116.90 (116.60 to 117.60): VN064779.D (-2984) (-)

Ion 82.00 (81.70 to 82.70): VN064779.D (-2984) (-)

Ion 118.90 (118.60 to 119.60): VN064779.D (-2984) (-)





#64

Tetrachloroethene

Concen: 0.268 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

MW-7

Tot Ion:164 Resp: 835

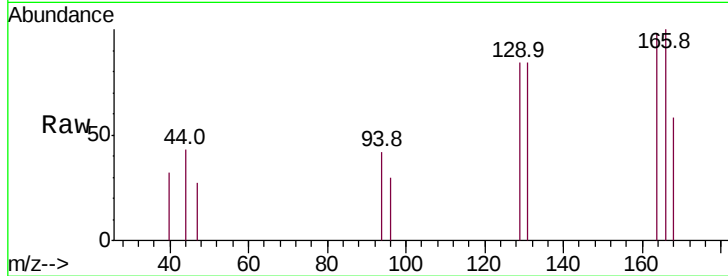
Ion Ratio Lower Upper

164 100

166 102.0 101.4 152.0

129 86.0 76.1 114.1

131 85.5 74.2 111.2

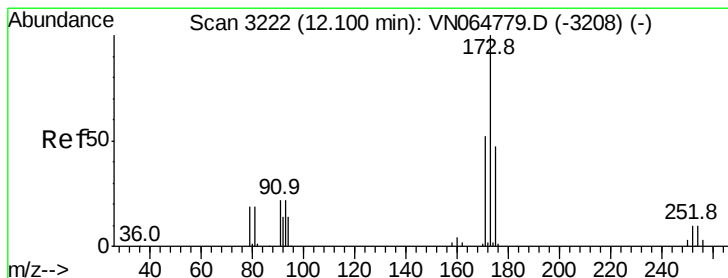
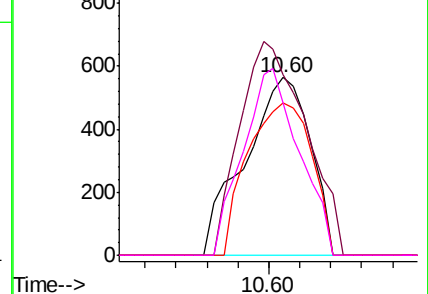
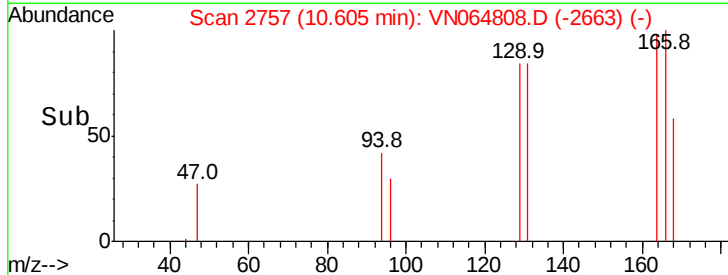


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.560 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

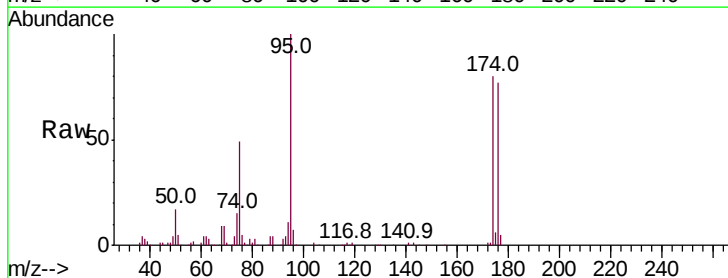
Tgt Ion:173 Resp: 1131

Ion Ratio Lower Upper

173 100

175 694.9 24.3 72.8#

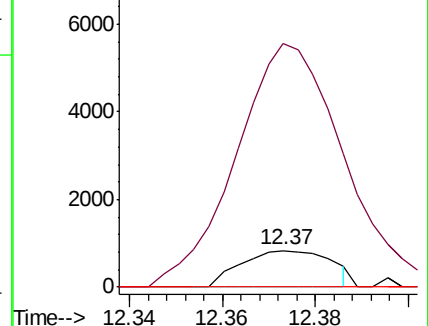
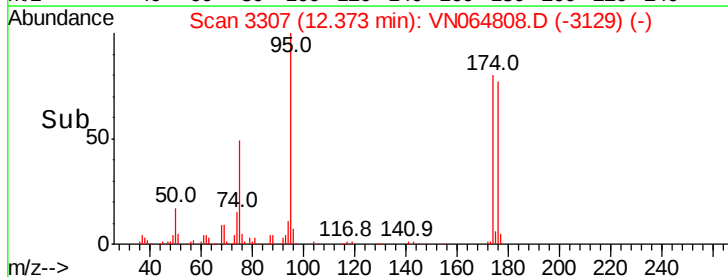
254 0.0 0.0 0.0

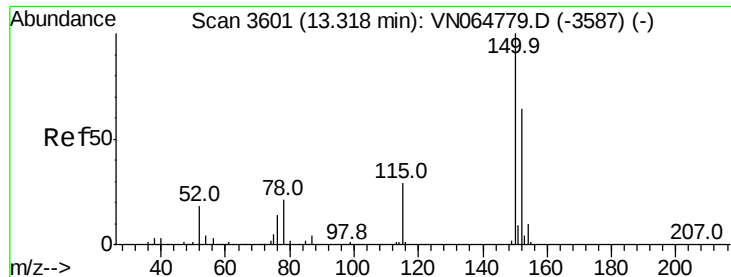


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. -0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

MW-7

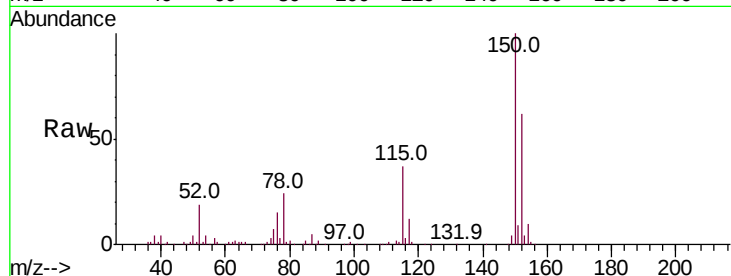
Tot Ion:152 Resp: 146167

Ion Ratio Lower Upper

152 100

115 60.1 29.7 89.1

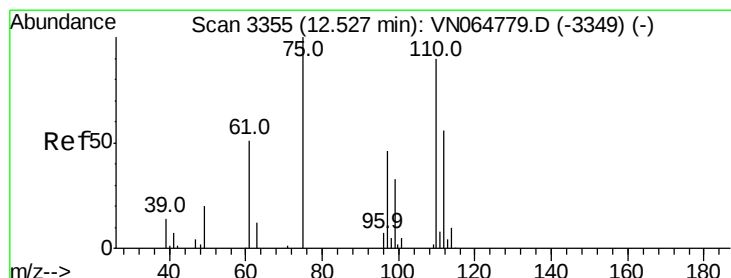
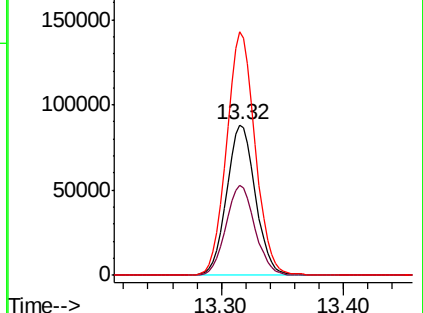
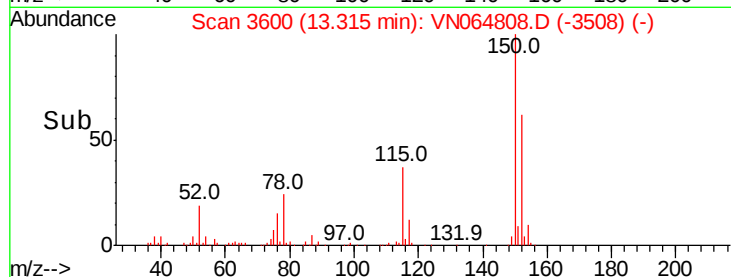
150 159.9 0.0 350.6



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: 23.026 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064808.D

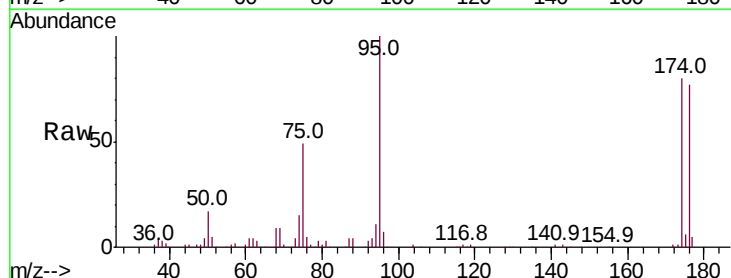
Acq: 24 Nov 2020 14:15

Tgt Ion: 75 Resp: 72482

Ion Ratio Lower Upper

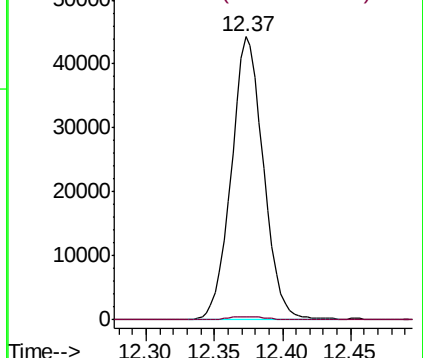
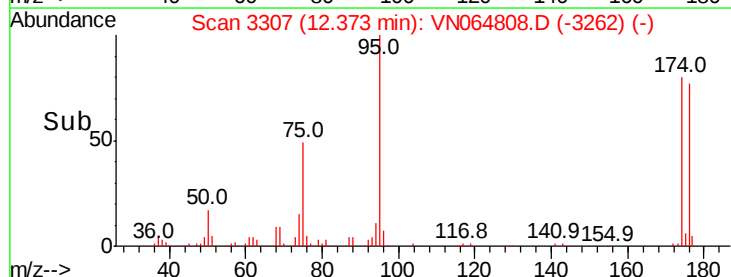
75 100

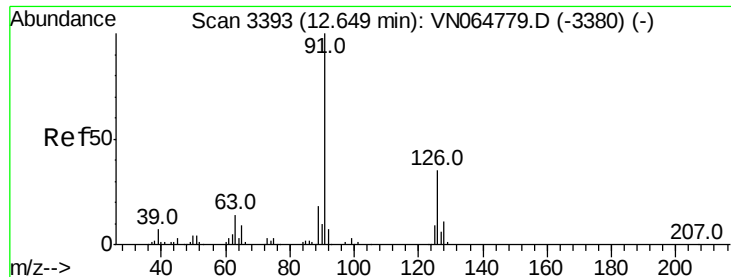
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

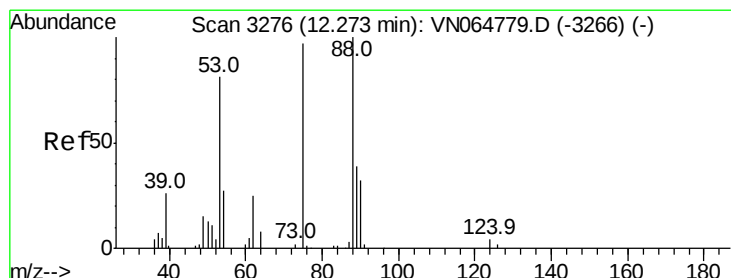
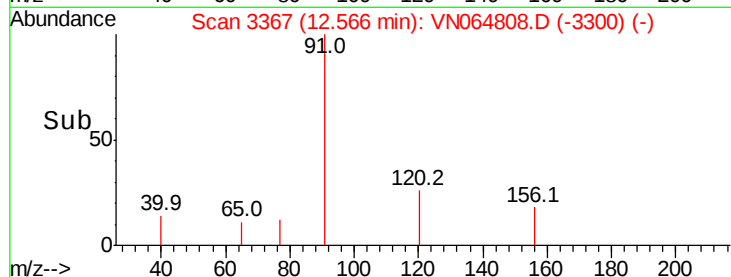
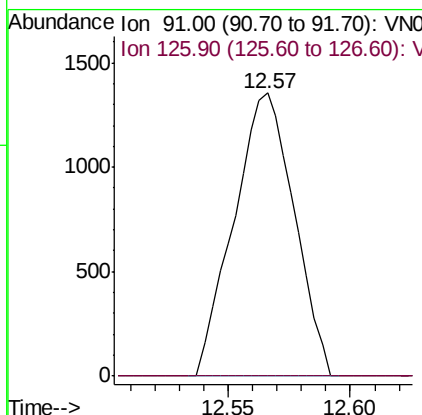
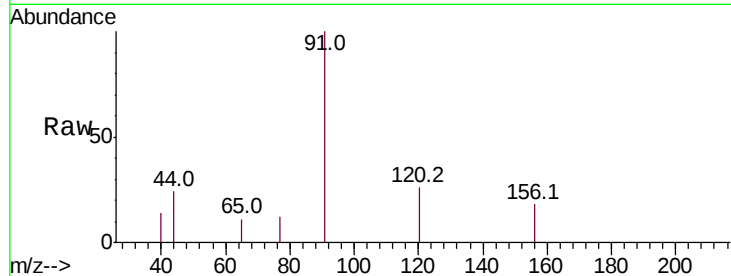




#79
 2-Chlorotoluene
 Concen: 0.323 ug/l
 RT: 12.57 min Scan# 3367
 Delta R.T. -0.08 min
 Lab File: VN064808.D
 Acq: 24 Nov 2020 14:15

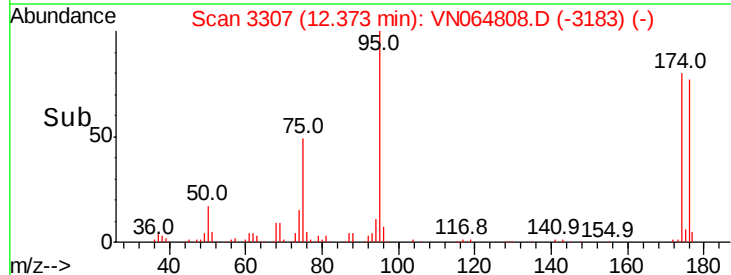
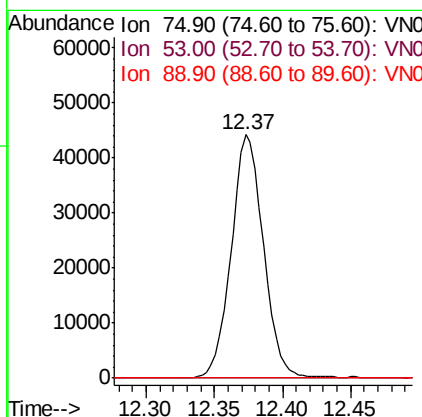
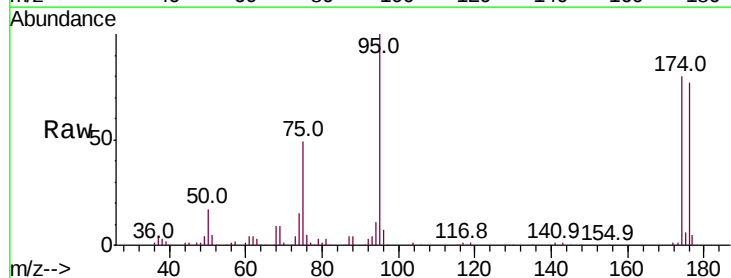
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

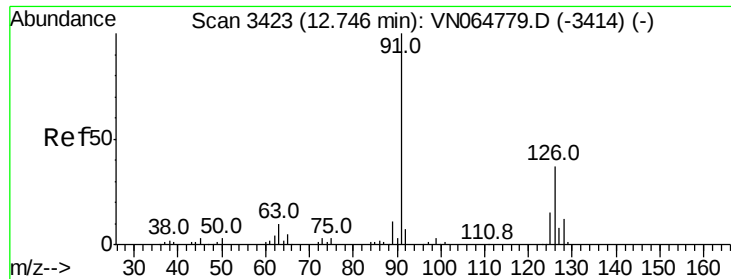
Tot Ion: 91 Resp: 2316
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.2 51.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.109 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN064808.D
 Acq: 24 Nov 2020 14:15

Tgt Ion: 75 Resp: 72482
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#





#82

4-Chlorotoluene

Concen: 0.309 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. -0.18 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

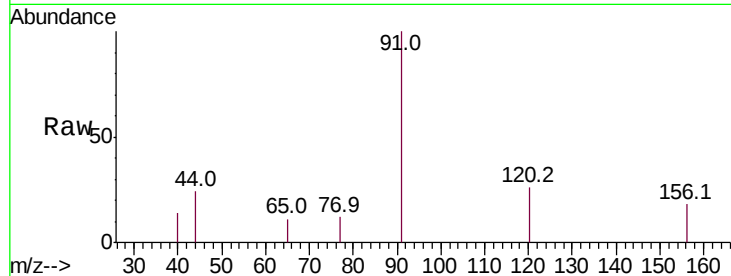
MW-7

Tot Ion: 91 Resp: 2316

Ion Ratio Lower Upper

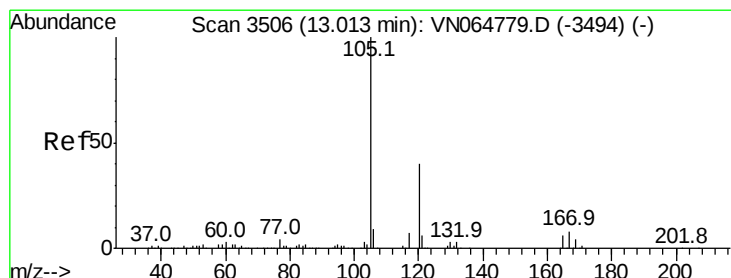
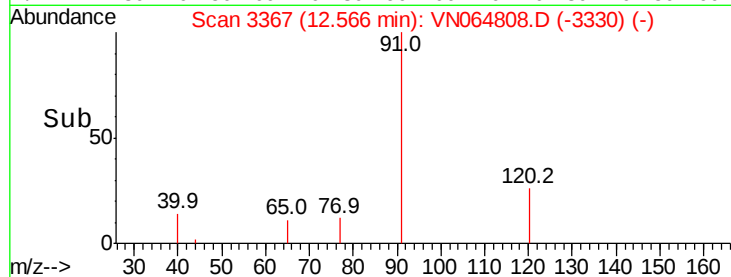
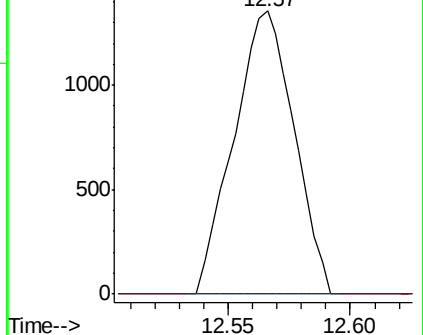
91 100

126 0.0 16.9 50.7#



Abundance Ion 91.00 (90.70 to 91.70): VN064779.D (-3414) (-)

Ion 125.90 (125.60 to 126.60): VN064779.D (-3414) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.430 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN064808.D

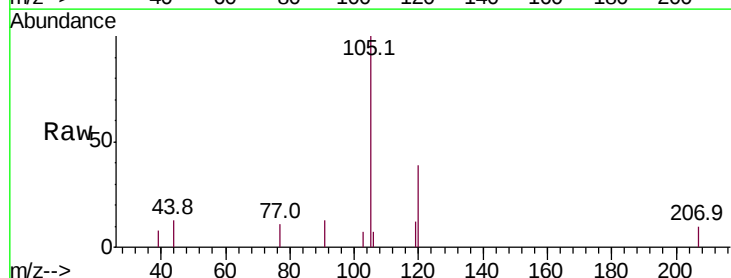
Acq: 24 Nov 2020 14:15

Tgt Ion:105 Resp: 3675

Ion Ratio Lower Upper

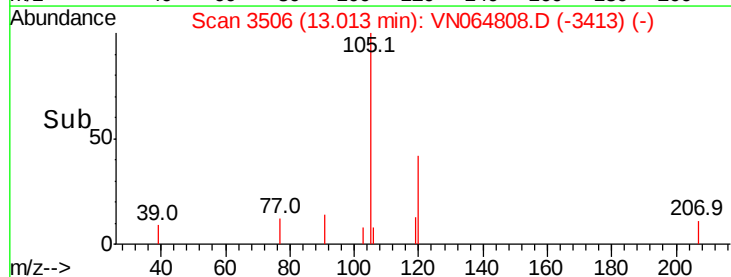
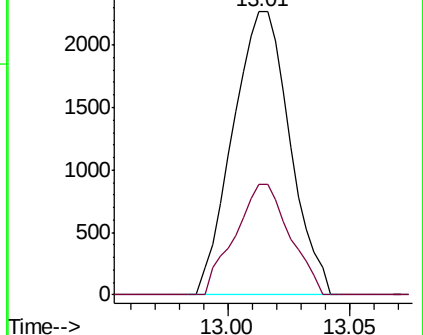
105 100

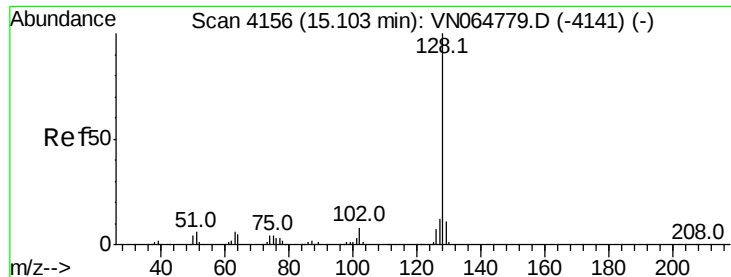
120 37.4 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): VN064779.D (-3494) (-)

Ion 120.00 (119.70 to 120.70): VN064779.D (-3494) (-)





#95

Naphthalene

Concen: 1.626 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064808.D

Acq: 24 Nov 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

MW-7

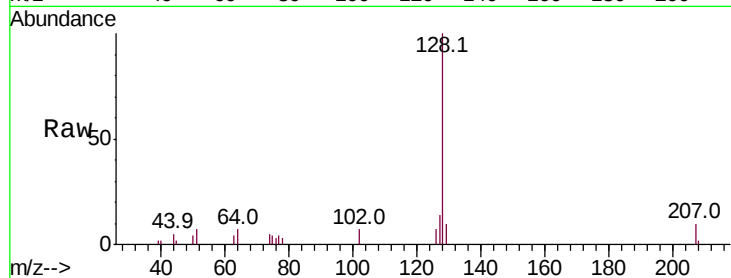
Tot Ion:128 Resp: 14410

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.5 8.7 13.1



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

