

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062212.D
 Acq On : 30 Jun 2020 2:10
 Operator : JC/MD
 Sample : L2819-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-03-062620

Quant Time: Jun 30 04:33:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	219240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	418738	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	399338	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139898	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	164590	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
35) Dibromofluoromethane	7.55	113	136850	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	10.06	98	535354	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	12.38	95	165550	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	

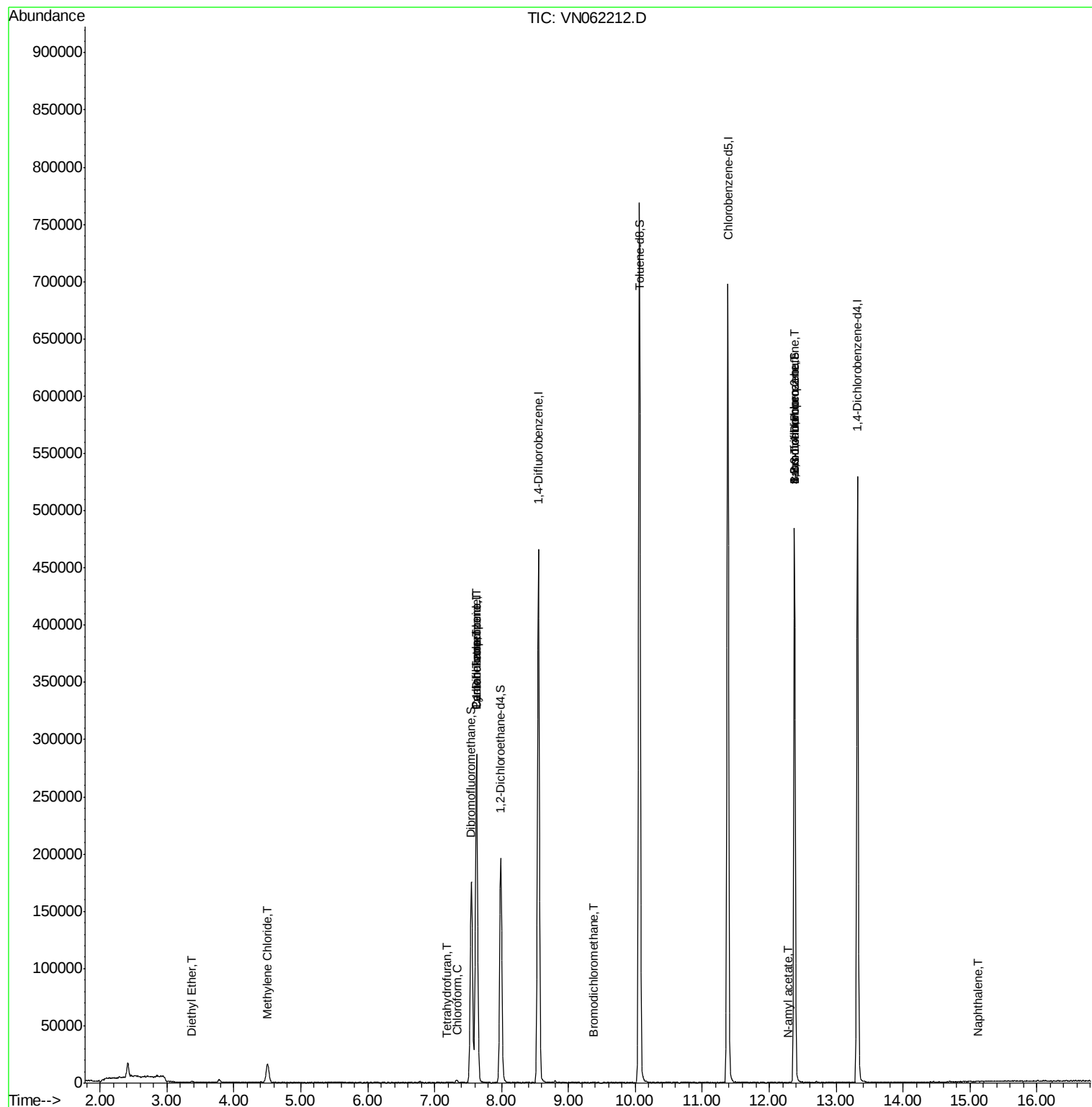
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	292	Below Cal	#	41
8) Diethyl Ether	3.37	74	336	0.200	ug/l	82
20) Methylene Chloride	4.50	84	12851	4.352	ug/l	95
29) Tetrahydrofuran	7.19	42	453	0.460	ug/l #	33
30) Chloroform	7.33	83	2647	0.518	ug/l #	73
31) Cyclohexane	7.63	56	4938	1.162	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	19001	4.514	ug/l #	48
38) Carbon Tetrachloride	7.63	117	22327	5.627	ug/l #	16
47) Bromodichloromethane	9.37	83	873	0.201	ug/l #	82
71) Bromoform	12.38	173	1119	0.519	ug/l #	1
74) N-amyl acetate	12.29	43	30	3.350	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	83721	25.422	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	83721	74.240	ug/l #	13
95) Naphthalene	15.11	128	498	4.064	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampleId :

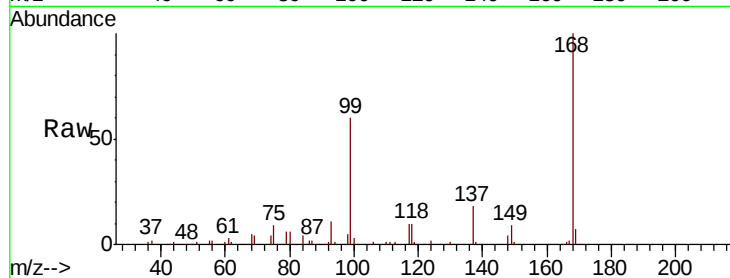
BU-03-062620

Tot Ion:168 Resp: 219240

Ion Ratio Lower Upper

168 100

99 60.1 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

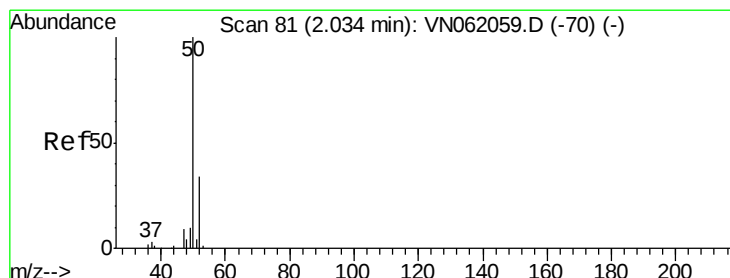
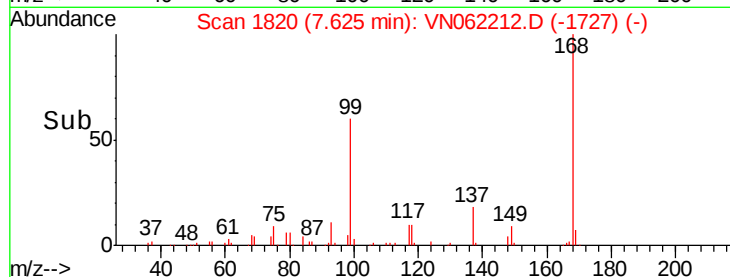
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN062212.D

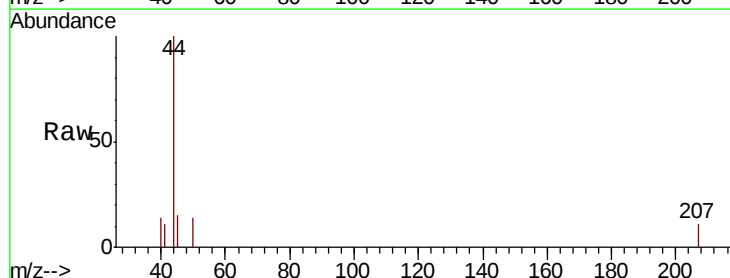
Acq: 30 Jun 2020 2:10

Tgt Ion: 50 Resp: 292

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

250

200

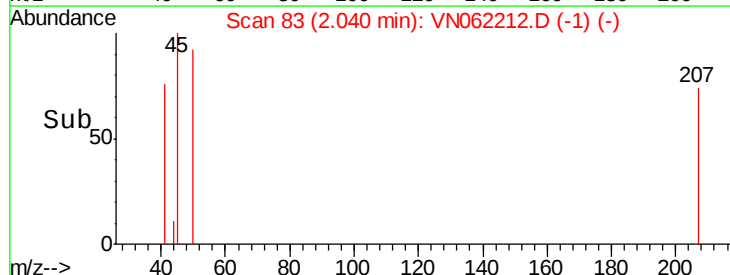
150

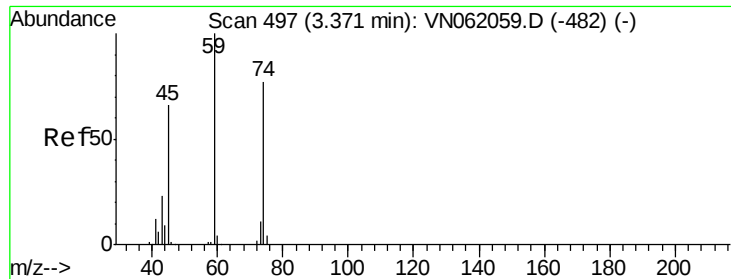
100

50

0

Time--> 2.02 2.04 2.06





#8

Diethyl Ether

Concen: 0.200 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampled :

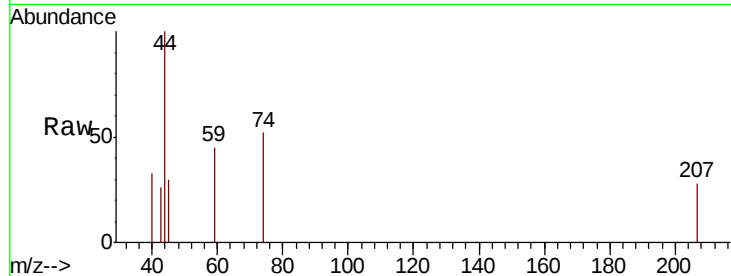
BU-03-062620

Tot Ion: 74 Resp: 336

Ion Ratio Lower Upper

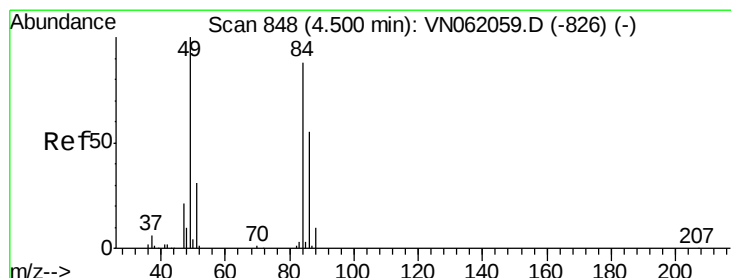
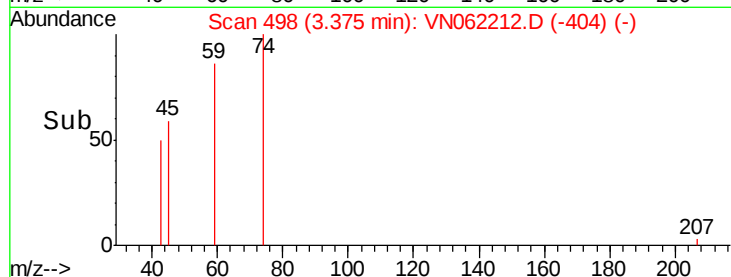
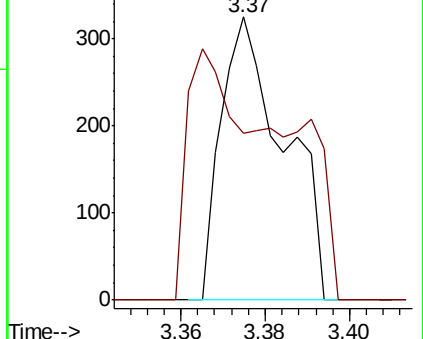
74 100

45 101.8 42.5 127.5



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#20

Methylene Chloride

Concen: 4.352 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.00 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Tgt Ion: 84 Resp: 12851

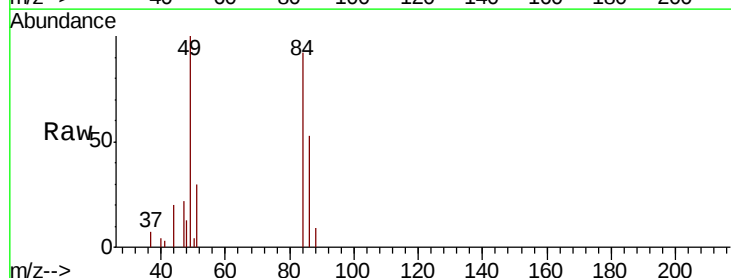
Ion Ratio Lower Upper

84 100

49 109.0 90.6 136.0

51 33.2 27.8 41.8

86 57.6 50.1 75.1

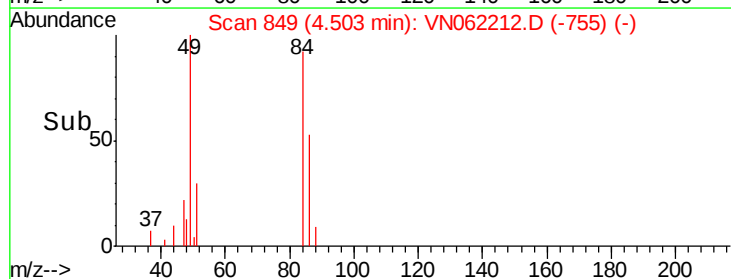
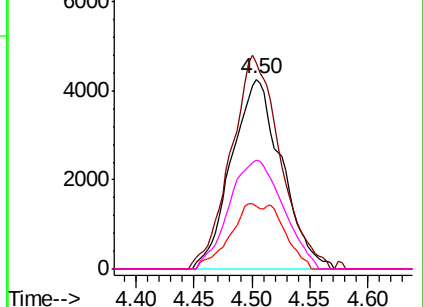


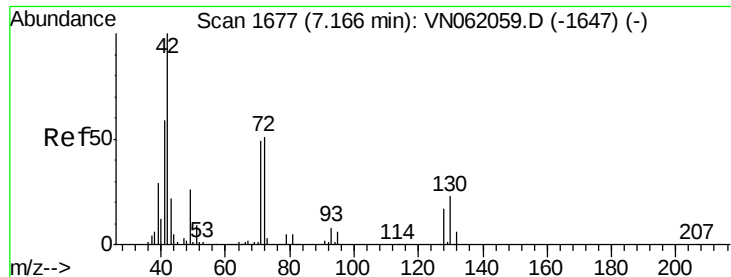
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

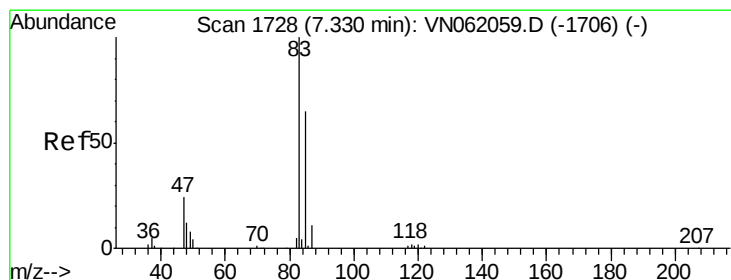
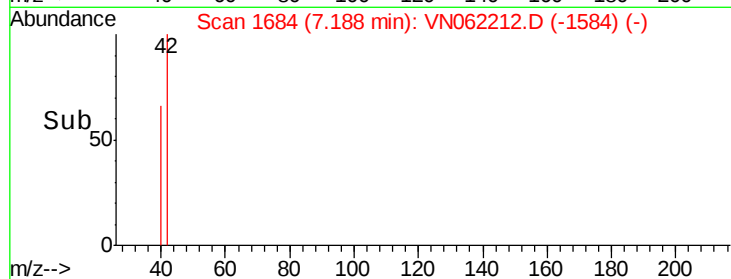
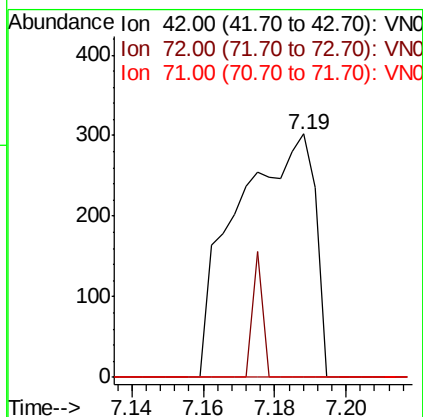
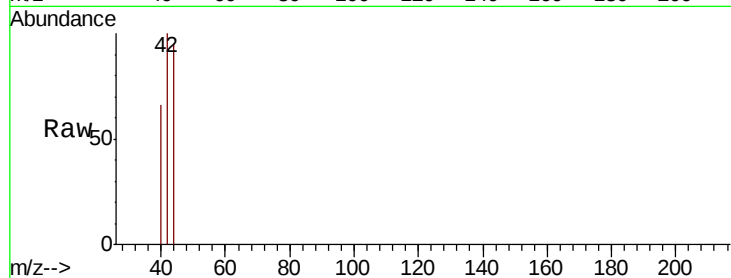




#29
Tetrahydrofuran
Concen: 0.460 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.02 min
Lab File: VN062212.D
Acq: 30 Jun 2020 2:10

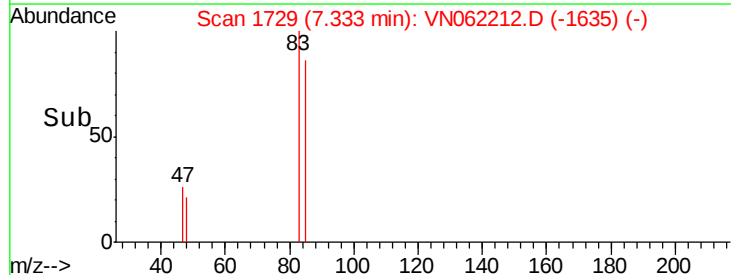
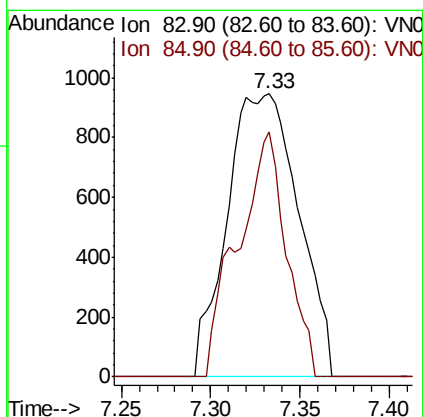
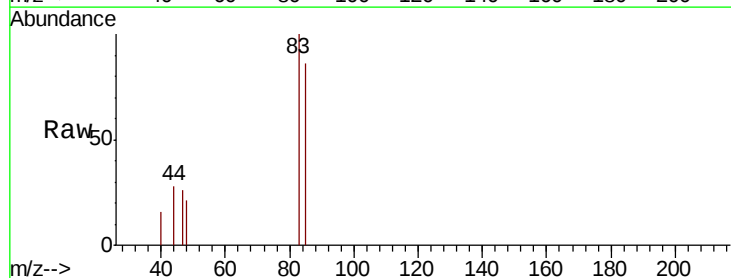
Instrument :
MSVOA_N
ClientSampleId :
BU-03-062620

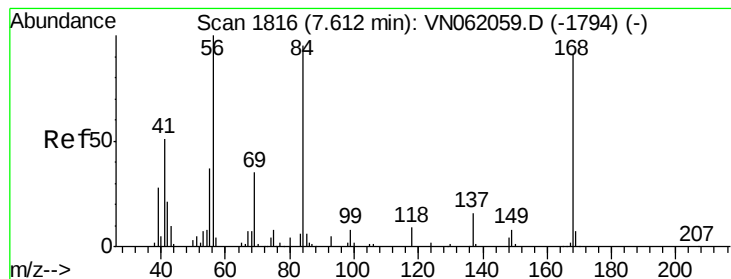
Tot Ion: 42 Resp: 453
Ion Ratio Lower Upper
42 100
72 6.6 41.1 61.7#
71 0.0 38.2 57.4#



#30
Chloroform
Concen: 0.518 ug/l
RT: 7.33 min Scan# 1729
Delta R.T. 0.00 min
Lab File: VN062212.D
Acq: 30 Jun 2020 2:10

Tgt Ion: 83 Resp: 2647
Ion Ratio Lower Upper
83 100
85 86.5 52.3 78.5#





#31

Cyclohexane

Concen: 1.162 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

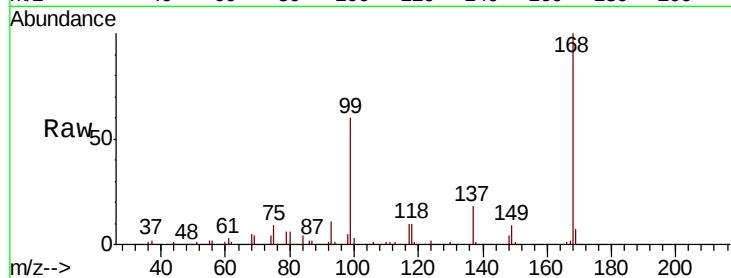
Tot Ion: 56 Resp: 4938

Ion Ratio Lower Upper

56 100

69 177.4 28.0 42.0#

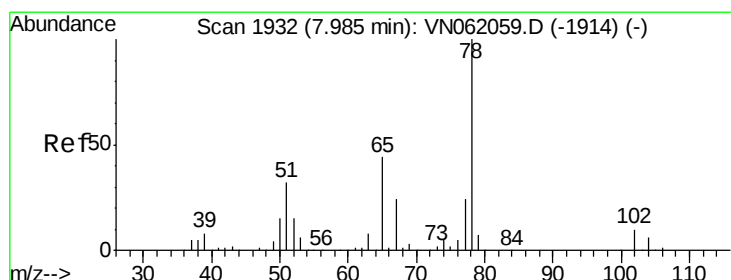
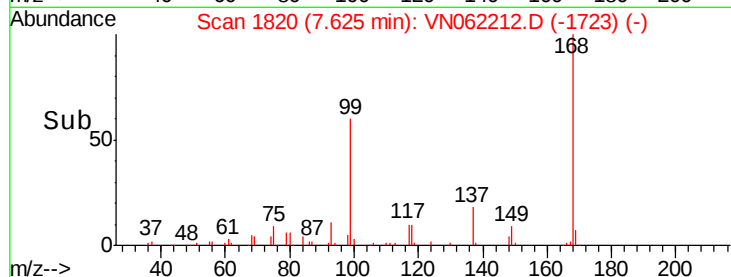
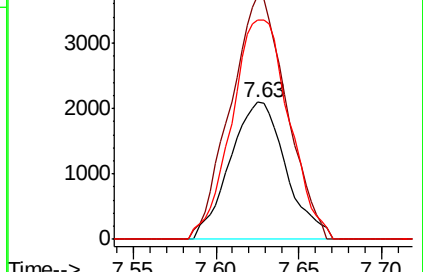
84 160.2 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN062212.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN062212.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN062212.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.496 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062212.D

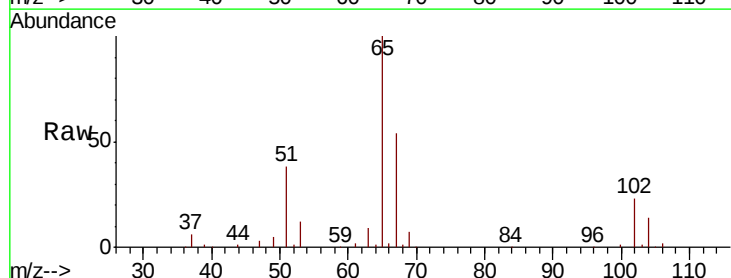
Acq: 30 Jun 2020 2:10

Tgt Ion: 65 Resp: 164590

Ion Ratio Lower Upper

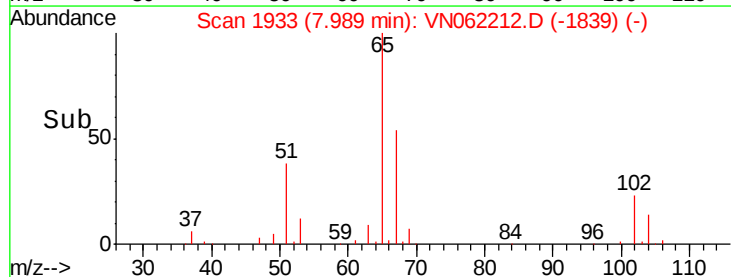
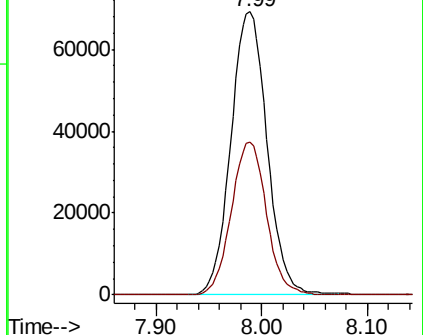
65 100

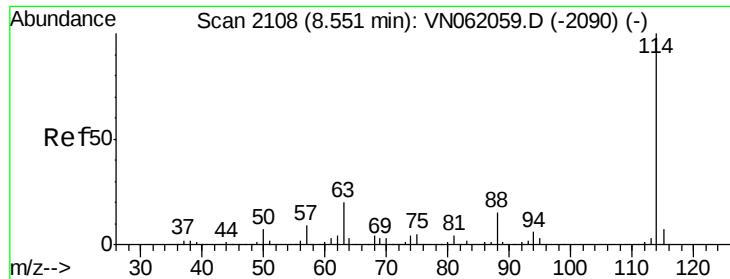
67 52.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062212.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062212.D (-1839) (-)

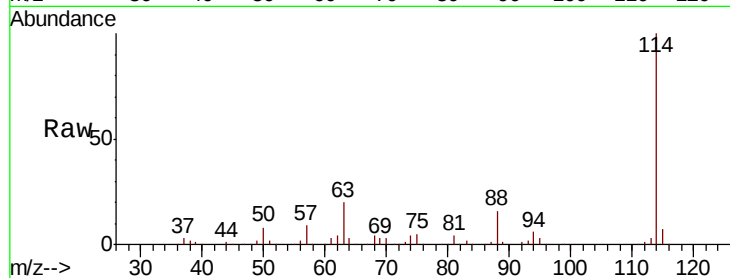




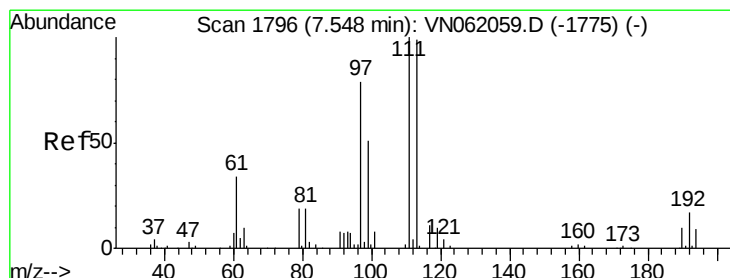
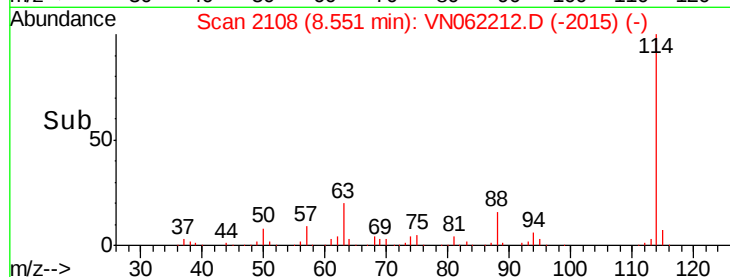
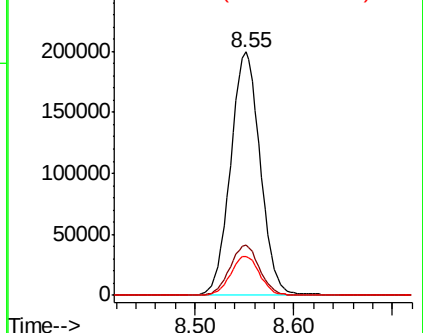
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062212.D
 Acq: 30 Jun 2020 2:10

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-03-062620

Tot Ion:114 Resp: 418738
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.2
 88 16.1 0.0 30.8

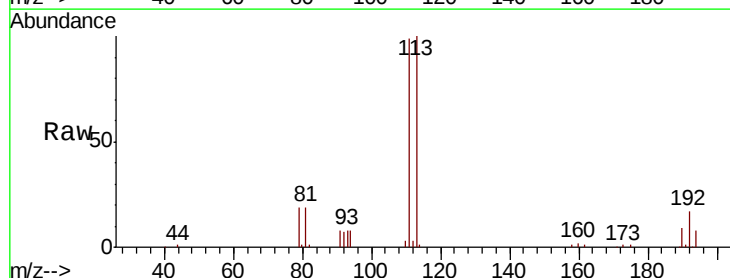


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

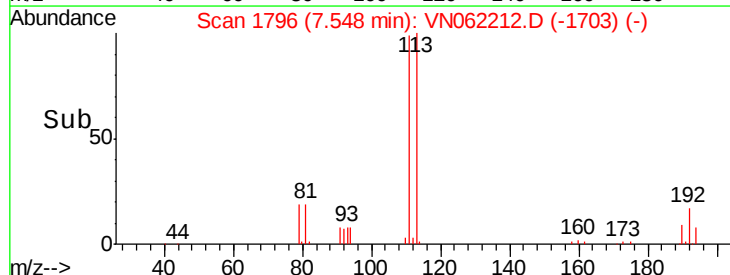
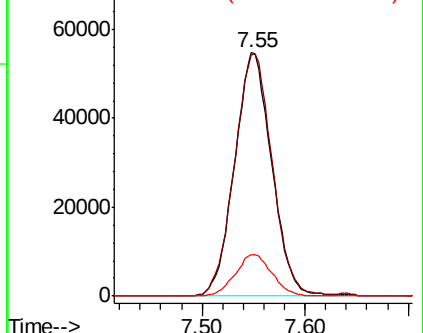


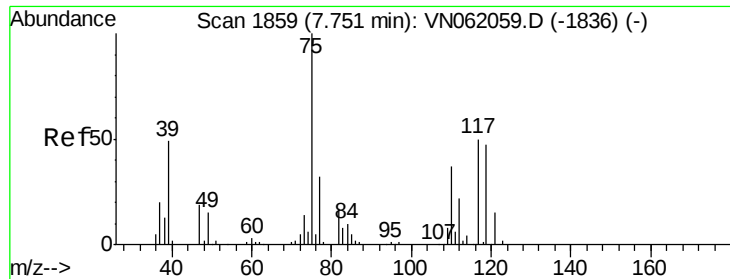
#35
 Dibromofluoromethane
 Concen: 50.942 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062212.D
 Acq: 30 Jun 2020 2:10

Tgt Ion:113 Resp: 136850
 Ion Ratio Lower Upper
 113 100
 111 101.2 82.2 123.4
 192 16.9 14.0 21.0



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: 4.514 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampled :

BU-03-062620

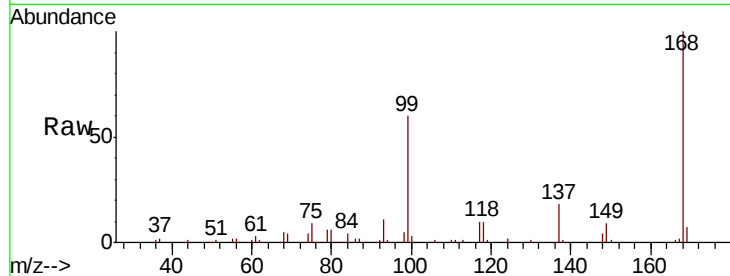
Tot Ion: 75 Resp: 19001

Ion Ratio Lower Upper

75 100

110 7.1 17.9 53.8#

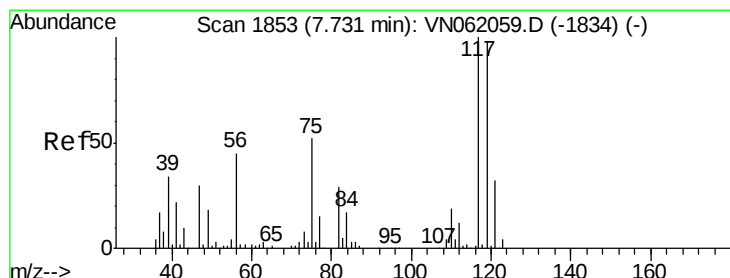
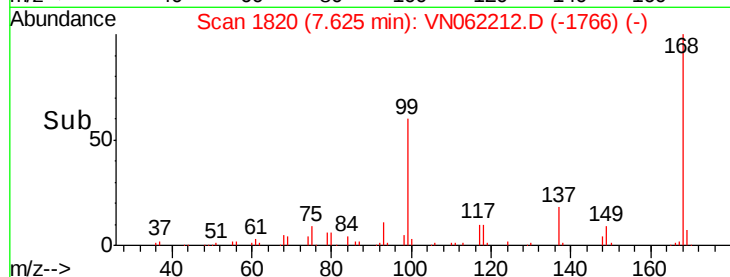
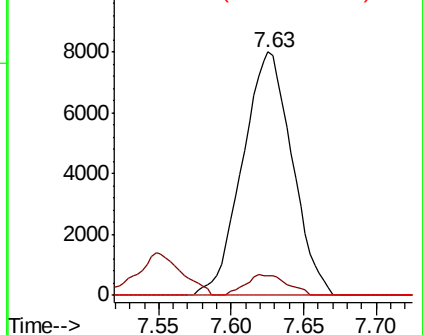
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062212.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062212.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062212.D (-1766) (-)



#38

Carbon Tetrachloride

Concen: 5.627 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.10 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

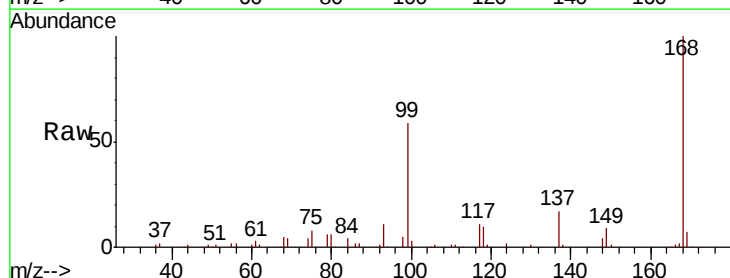
Tgt Ion: 117 Resp: 22327

Ion Ratio Lower Upper

117 100

119 5.6 78.2 117.2#

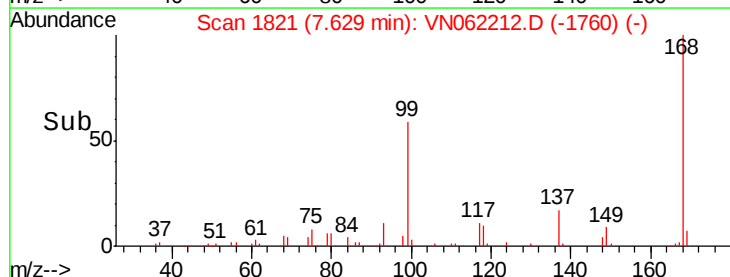
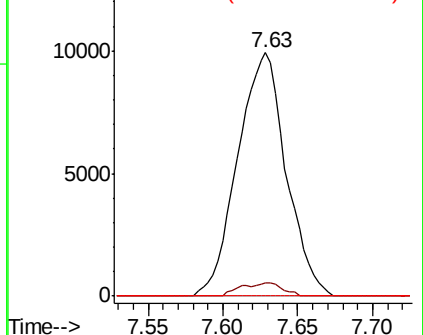
121 0.0 25.8 38.6#

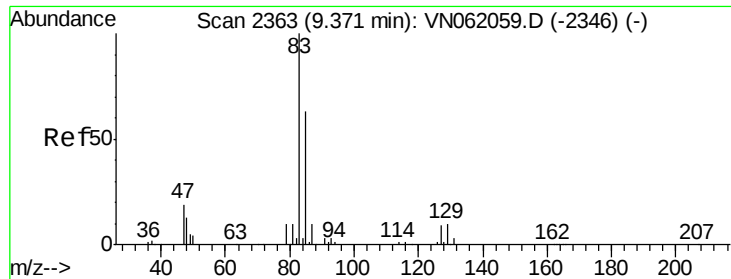


Abundance Ion 116.80 (116.50 to 117.50): VN062212.D (-1760) (-)

Ion 118.80 (118.50 to 119.50): VN062212.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062212.D (-1760) (-)





#47

Bromodichloromethane

Concen: 0.201 ug/l

RT: 9.37 min Scan# 2363

Delta R.T. 0.00 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

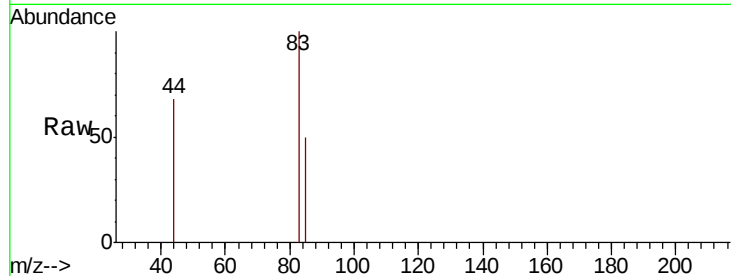
Tot Ion: 83 Resp: 873

Ion Ratio Lower Upper

83 100

85 49.8 50.3 75.5#

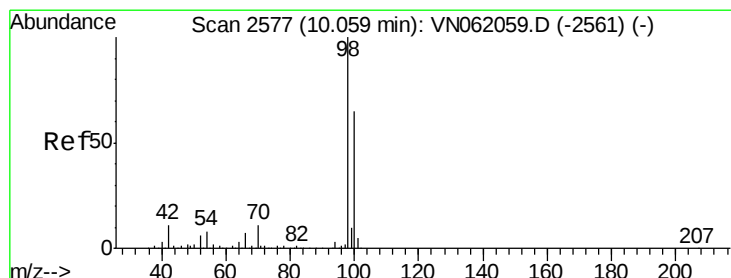
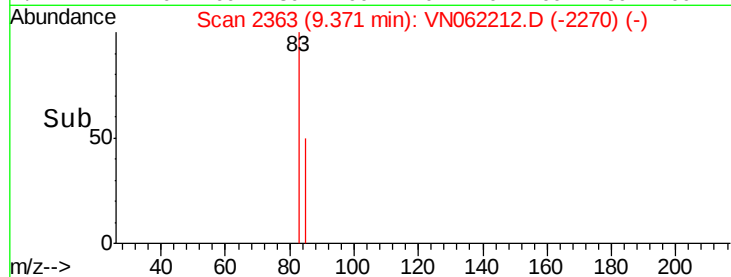
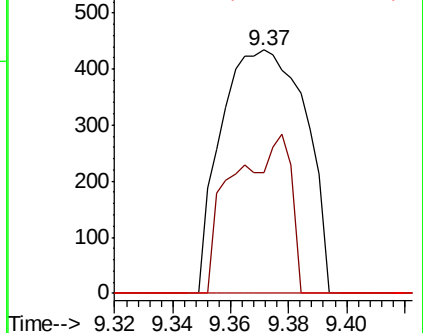
127 0.0 6.9 10.3#



Abundance Ion 82.90 (82.60 to 83.60): VN062212.D (-2270) (-)

Ion 84.90 (84.60 to 85.60): VN062212.D (-2270) (-)

Ion 126.80 (126.50 to 127.50): VN062212.D (-2270) (-)



#50

Toluene-d8

Concen: 49.854 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062212.D

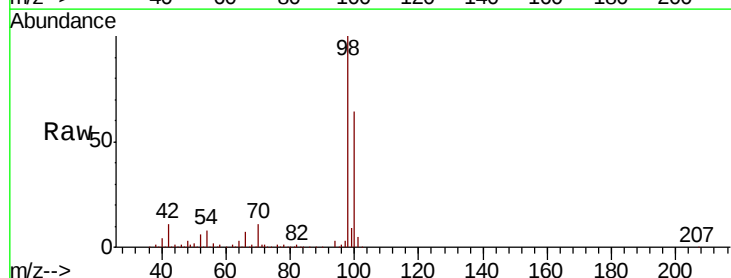
Acq: 30 Jun 2020 2:10

Tgt Ion: 98 Resp: 535354

Ion Ratio Lower Upper

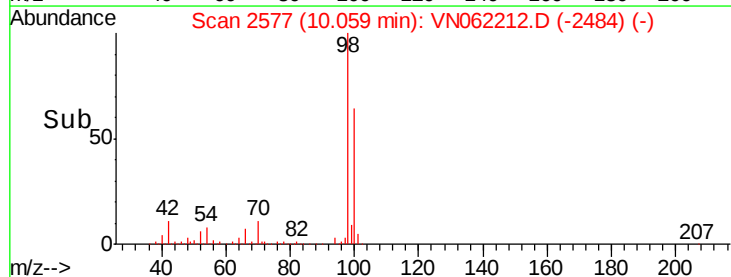
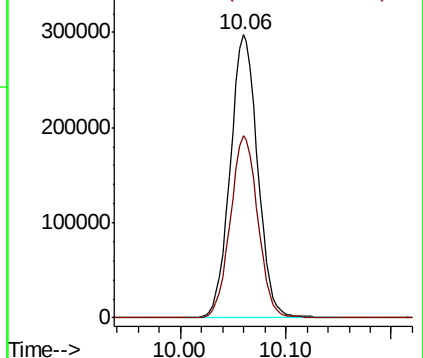
98 100

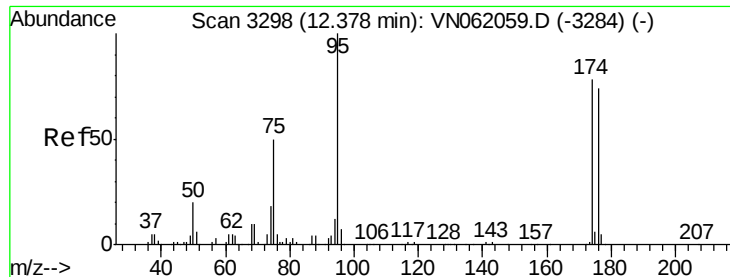
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062212.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062212.D (-2484) (-)

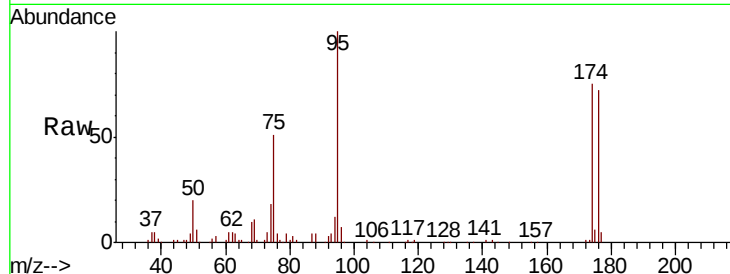




#62
4-Bromofluorobenzene
Concen: 45.630 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062212.D
Acq: 30 Jun 2020 2:10

Instrument :
MSVOA_N
ClientSampled :
BU-03-062620

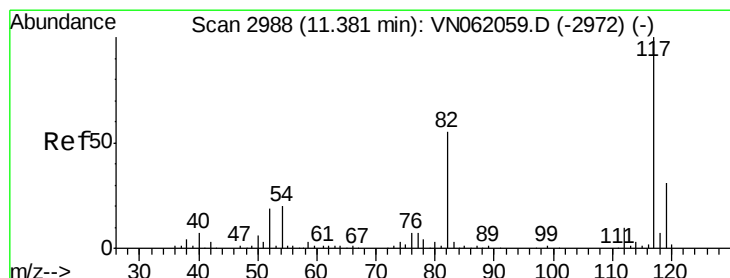
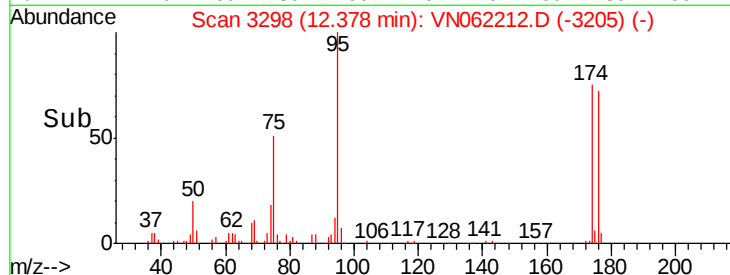
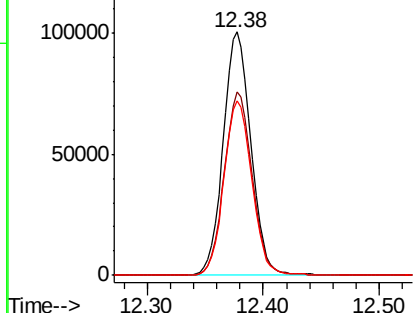
Tot Ion	95	Resp	165550
Ion Ratio	Lower	Upper	
95	100		
174	76.0	0.0	154.8
176	72.4	0.0	147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062212.D (-3205) (-)

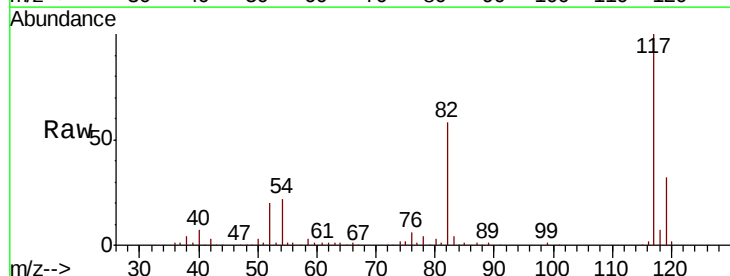
Ion 173.80 (173.50 to 174.50): VN062212.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062212.D (-3205) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062212.D
Acq: 30 Jun 2020 2:10

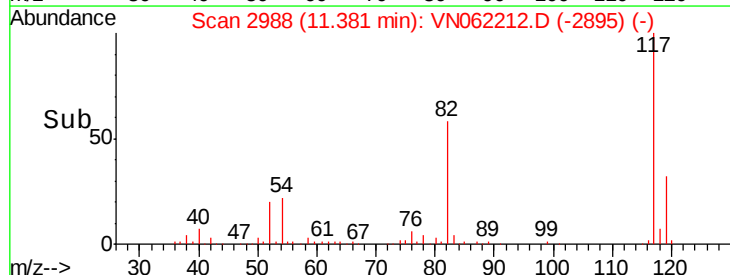
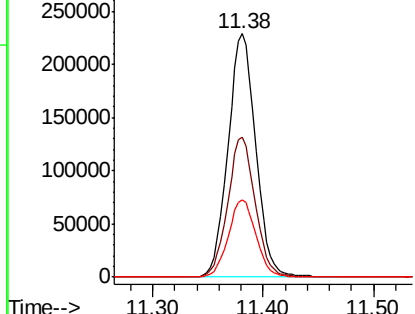
Tgt Ion	117	Resp	399338
Ion Ratio	Lower	Upper	
117	100		
82	57.5	43.8	65.8
119	31.7	25.2	37.8

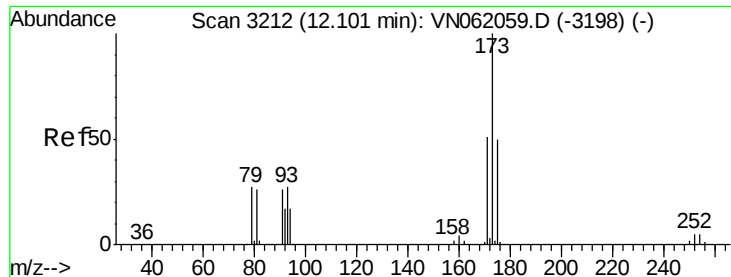


Abundance Ion 116.90 (116.60 to 117.60): VN062212.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062212.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062212.D (-2895) (-)





#71

Bromoform

Concen: 0.519 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

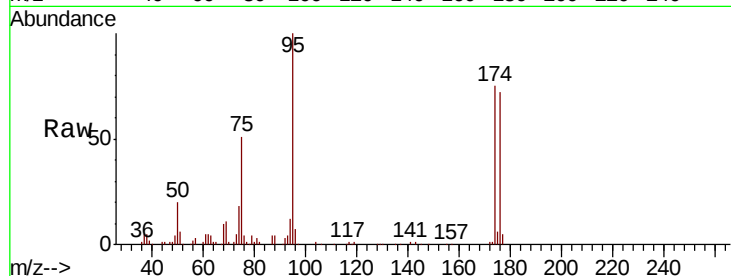
Tot Ion:173 Resp: 1119

Ion Ratio Lower Upper

173 100

175 710.5 24.7 74.1#

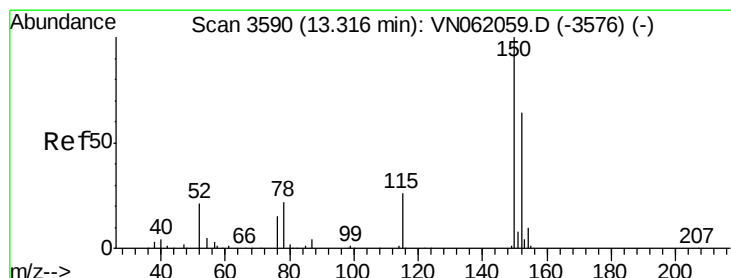
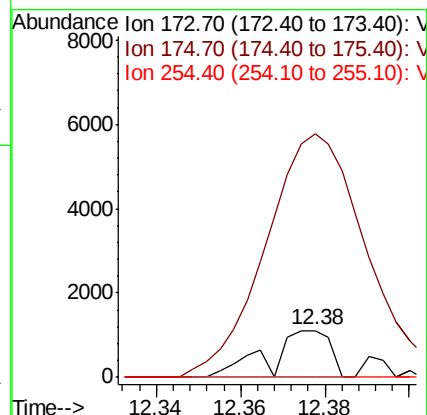
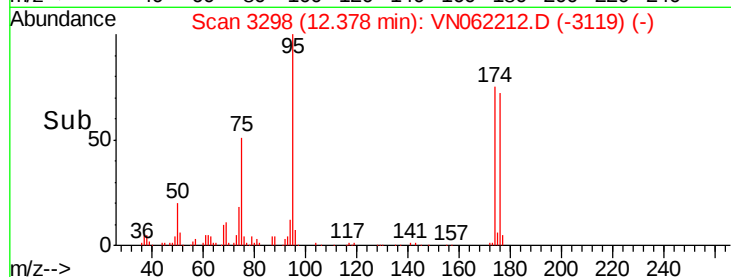
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

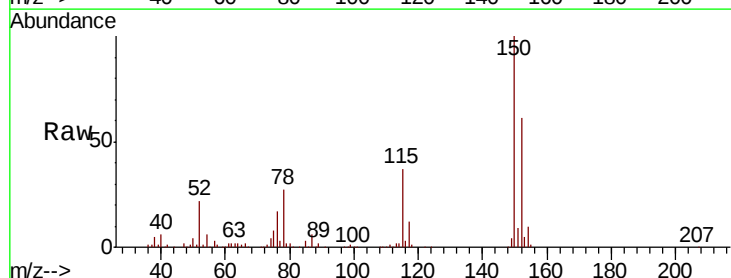
Tgt Ion:152 Resp: 139898

Ion Ratio Lower Upper

152 100

115 60.5 29.5 88.5

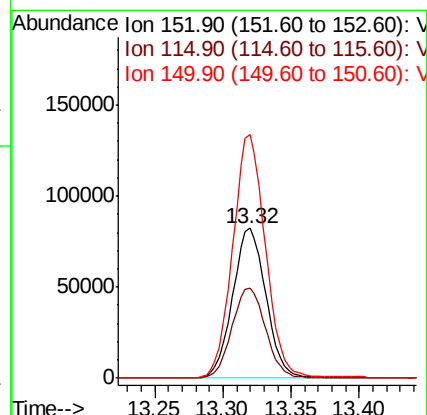
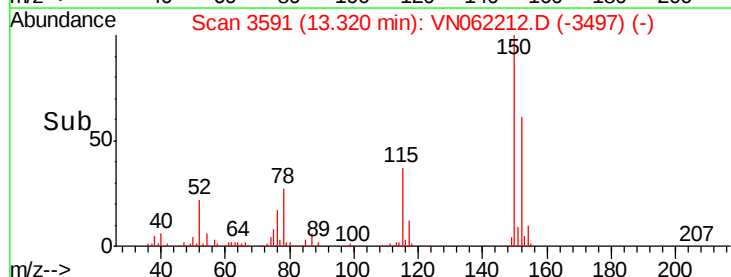
150 160.1 0.0 351.4

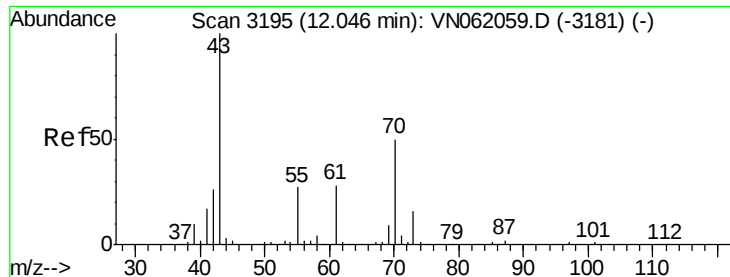


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.350 ug/l

RT: 12.29 min Scan# 3270

Delta R.T. 0.24 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

Tot Ion: 43 Resp: 30

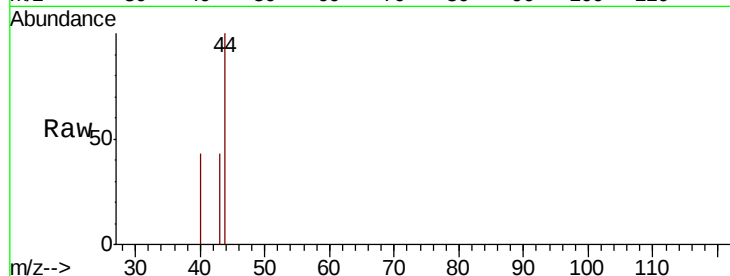
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

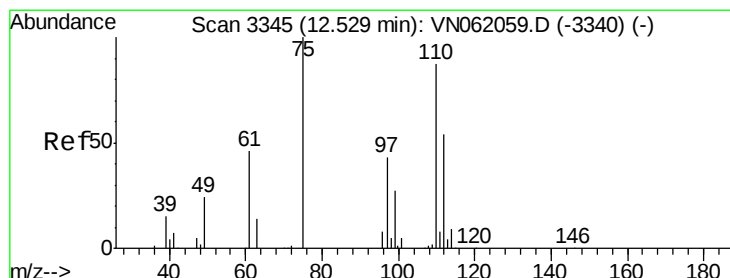
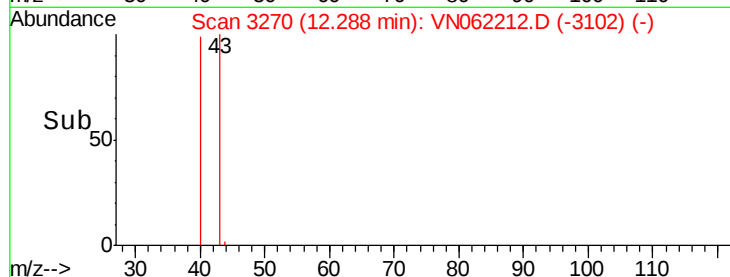
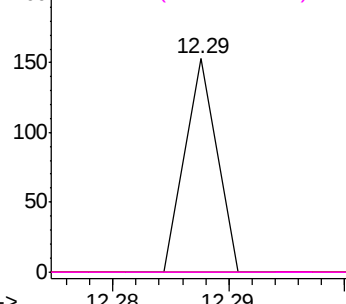


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.422 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062212.D

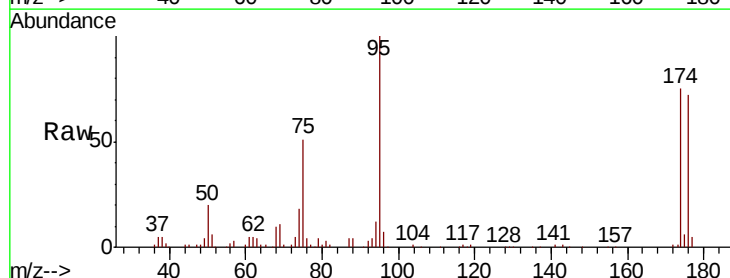
Acq: 30 Jun 2020 2:10

Tgt Ion: 75 Resp: 83721

Ion Ratio Lower Upper

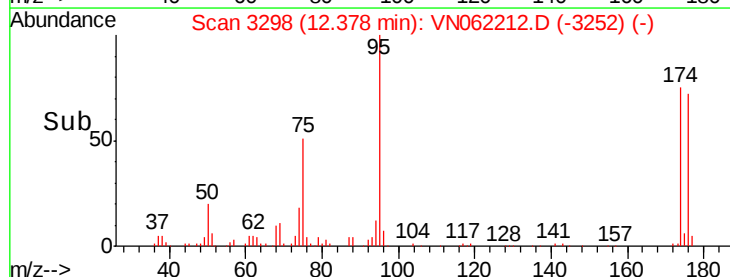
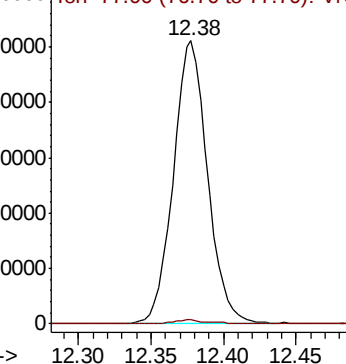
75 100

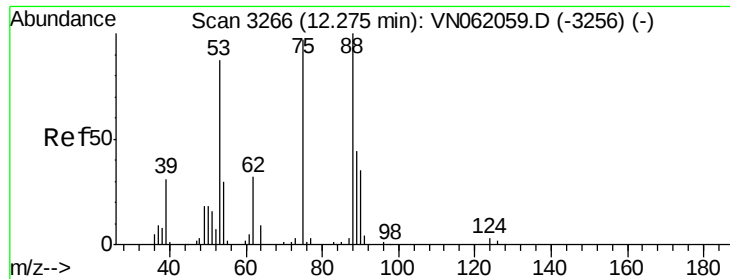
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.240 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

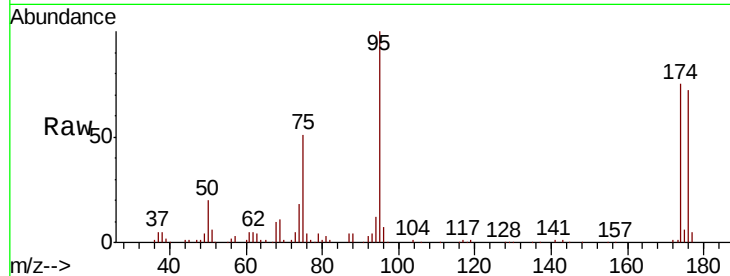
Tot Ion: 75 Resp: 83721

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

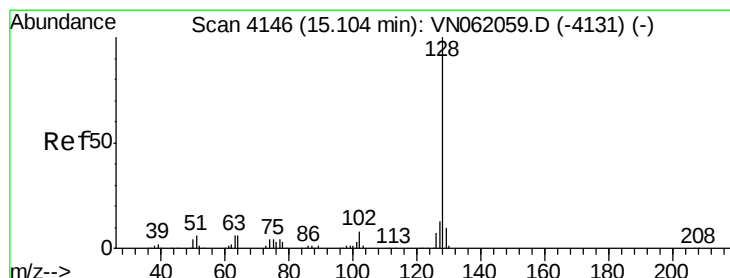
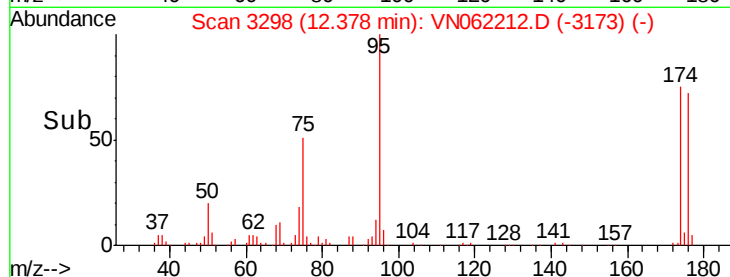
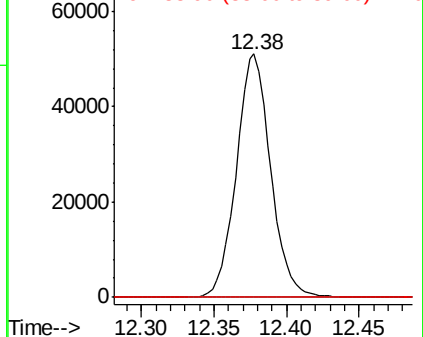
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062212.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062212.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062212.D (-3173) (-)



#95

Naphthalene

Concen: 4.064 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062212.D

Acq: 30 Jun 2020 2:10

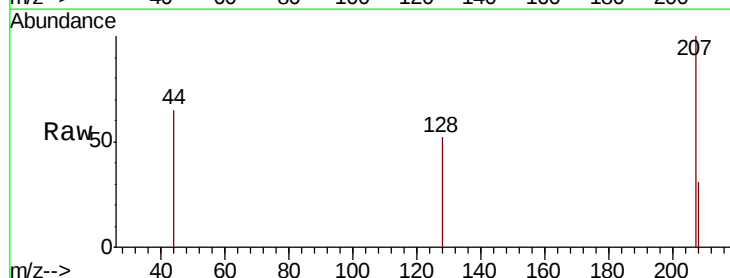
Tgt Ion: 128 Resp: 498

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN062212.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062212.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062212.D (-4053) (-)

