

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064828.D
 Acq On : 24 Nov 2020 23:05
 Operator : JC/MD
 Sample : L4798-01DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 08BR-20201118DL

Quant Time: Nov 25 05:57:28 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	167864	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	294550	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	304532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139021	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	101470	52.00	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	104.00%
35) Dibromofluoromethane	7.55	113	94528	53.63	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	107.26%
50) Toluene-d8	10.06	98	370093	51.39	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.78%
62) 4-Bromofluorobenzene	12.38	95	144434	56.04	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	112.08%

Target Compounds

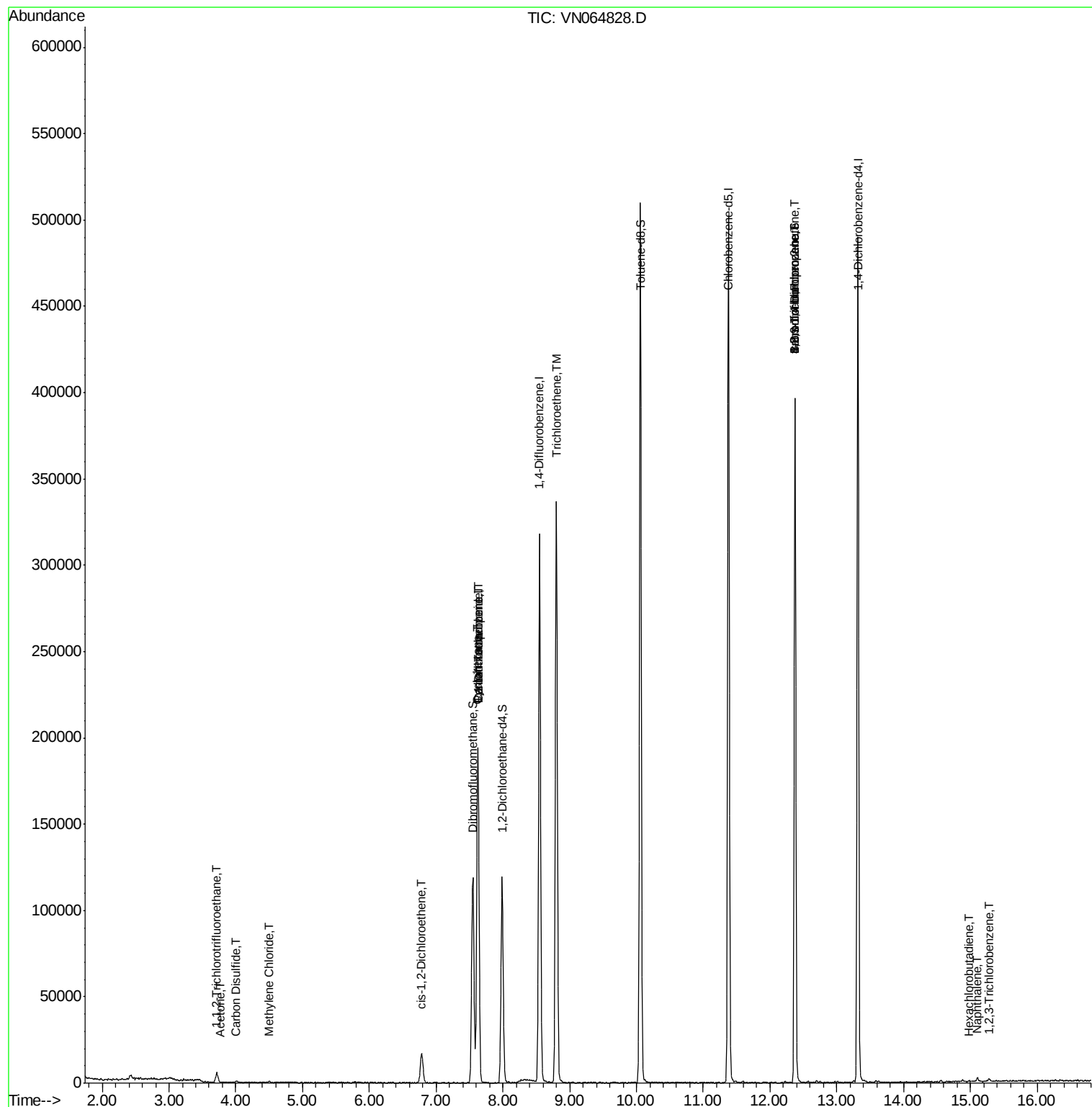
					Qvalue	
9) 1,1,2-Trichlorotrifluoroet	3.71	101	3337	2.042	ug/l	98
16) Acetone	3.78	43	186	0.290	ug/l #	43
17) Carbon Disulfide	4.01	76	1418	0.343	ug/l #	75
20) Methylene Chloride	4.50	84	410	0.204	ug/l #	77
27) cis-1,2-Dichloroethene	6.78	96	10221	5.025	ug/l	90
31) Cyclohexane	7.61	56	1357	0.499	ug/l #	38
36) 1,1-Dichloropropene	7.62	75	11132	4.077	ug/l #	44
38) Carbon Tetrachloride	7.62	117	15467	5.445	ug/l #	16
44) Trichloroethene	8.80	130	132426	53.647	ug/l	96
71) Bromoform	12.37	173	594	0.309	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	67916	22.685	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	67916	62.173	ug/l #	15
94) Hexachlorobutadiene	14.98	225	246	0.565	ug/l #	35
95) Naphthalene	15.11	128	2867	0.340	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.28	180	811	1.687	ug/l #	49

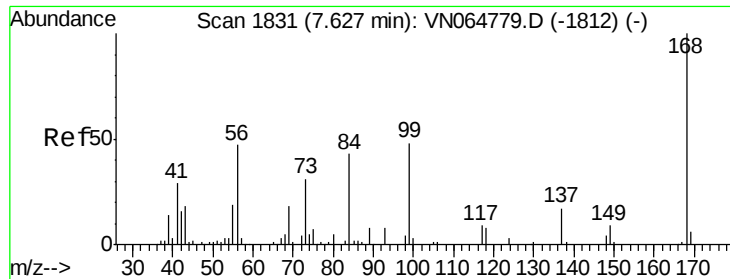
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

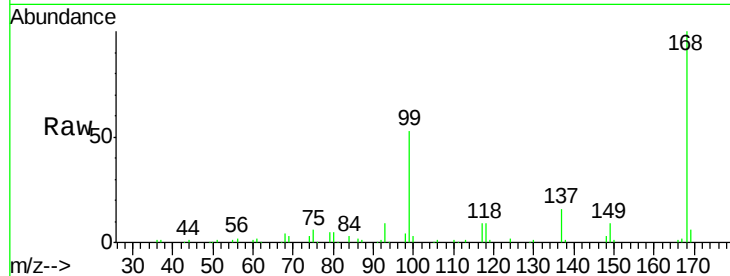
08BR-20201118DL

Tot Ion:168 Resp: 167864

Ion Ratio Lower Upper

168 100

99 52.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

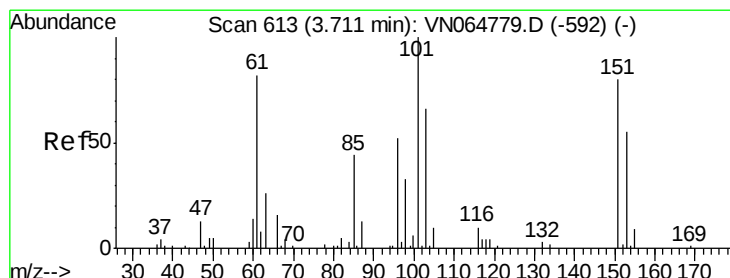
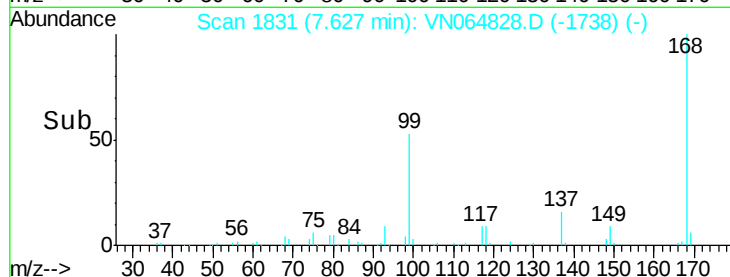
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.042 ug/l

RT: 3.71 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

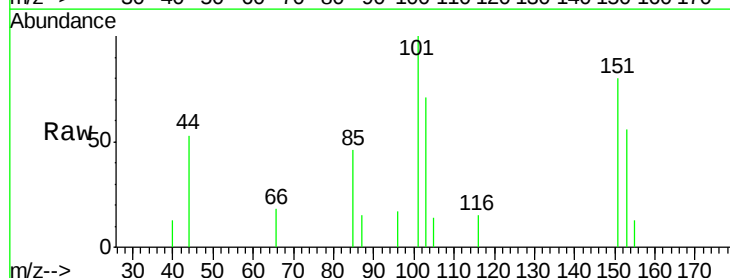
Tgt Ion:101 Resp: 3337

Ion Ratio Lower Upper

101 100

85 43.8 34.4 51.6

151 82.4 64.0 96.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

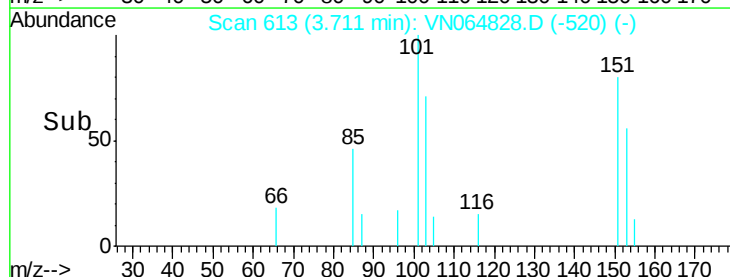
1500

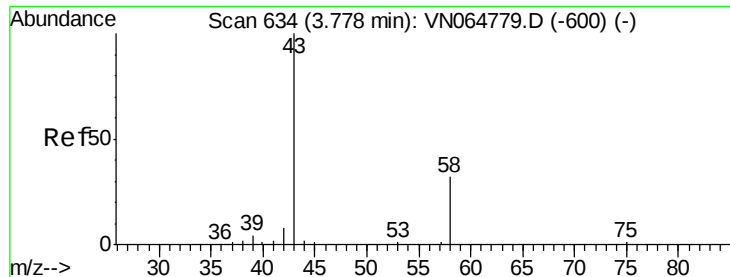
1000

500

0

Time--> 3.65 3.70 3.75





#16

Acetone

Concen: 0.290 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

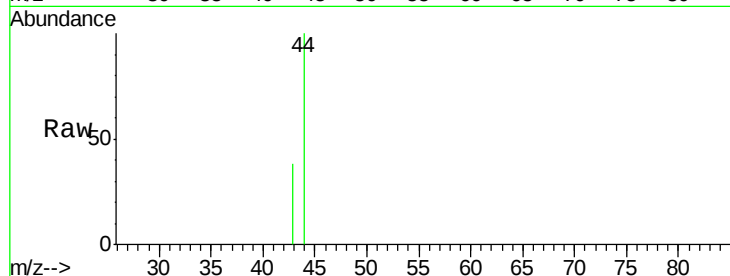
08BR-20201118DL

Tot Ion: 43 Resp: 186

Ion Ratio Lower Upper

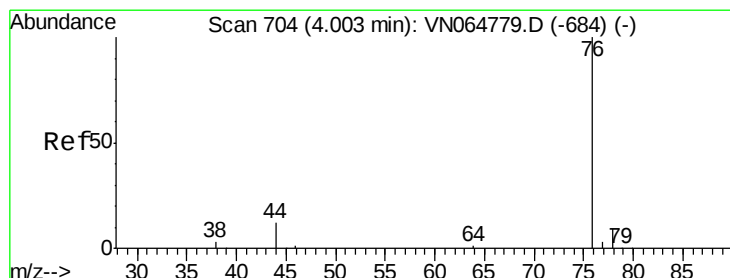
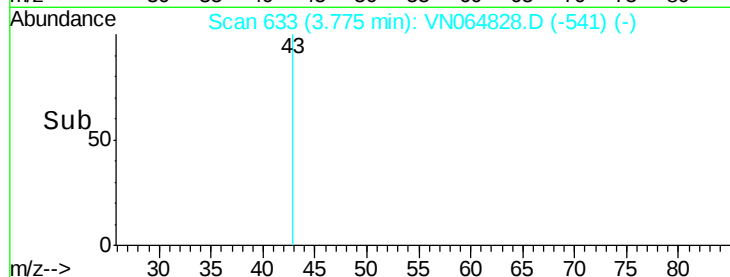
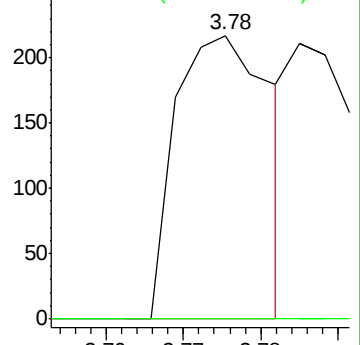
43 100

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



#17

Carbon Disulfide

Concen: 0.343 ug/l

RT: 4.01 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN064828.D

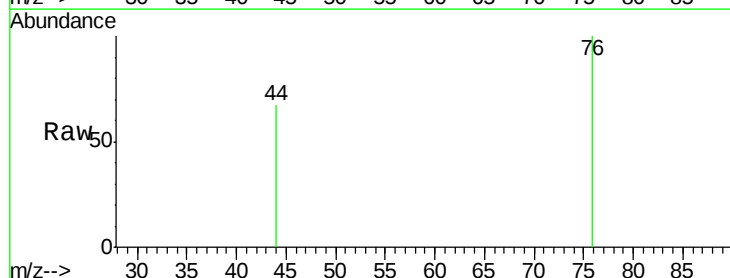
Acq: 24 Nov 2020 23:05

Tgt Ion: 76 Resp: 1418

Ion Ratio Lower Upper

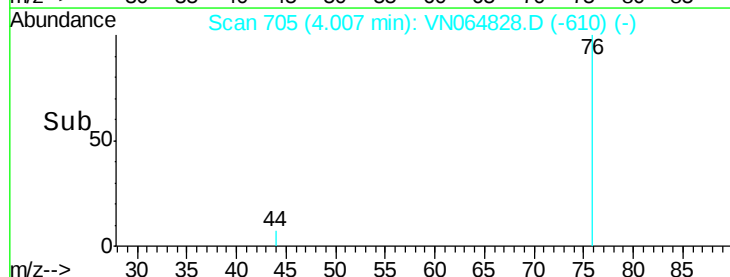
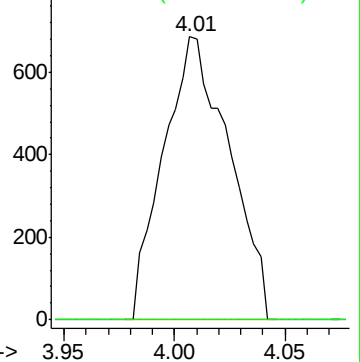
76 100

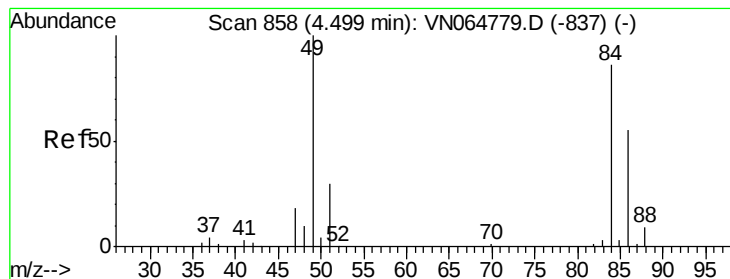
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#20

Methylene Chloride

Concen: 0.204 ug/l

RT: 4.50 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

08BR-20201118DL

Tot Ion: 84 Resp: 410

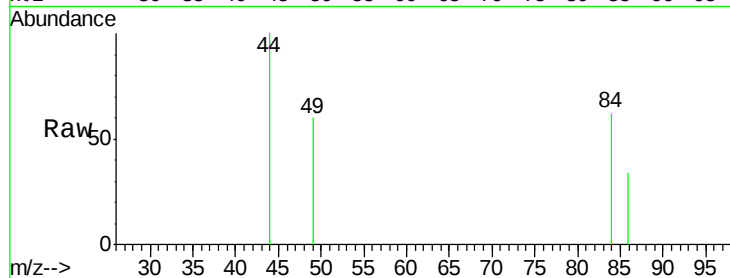
Ion Ratio Lower Upper

84 100

49 97.5 93.4 140.0

51 0.0 28.2 42.4#

86 54.3 51.7 77.5

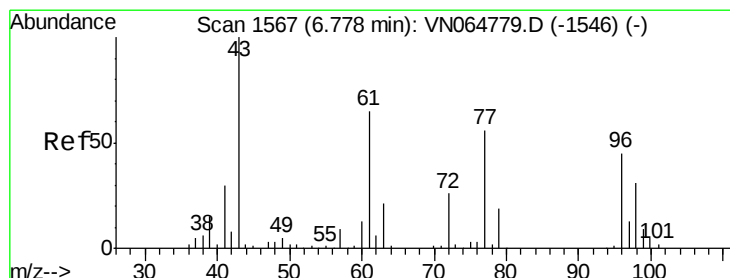
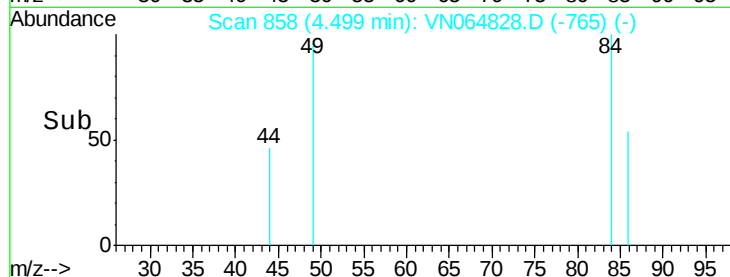
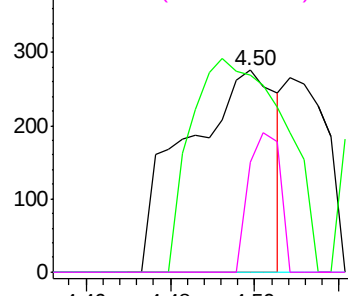


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#27

cis-1,2-Dichloroethene

Concen: 5.025 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

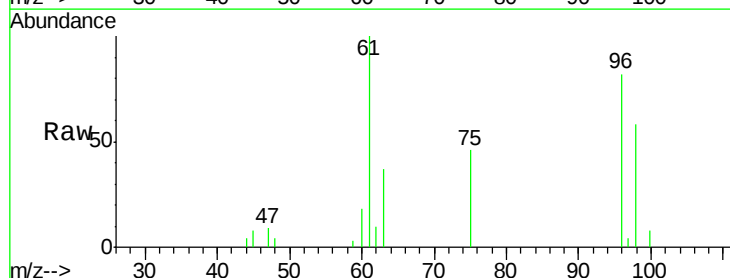
Tgt Ion: 96 Resp: 10221

Ion Ratio Lower Upper

96 100

61 127.0 0.0 285.8

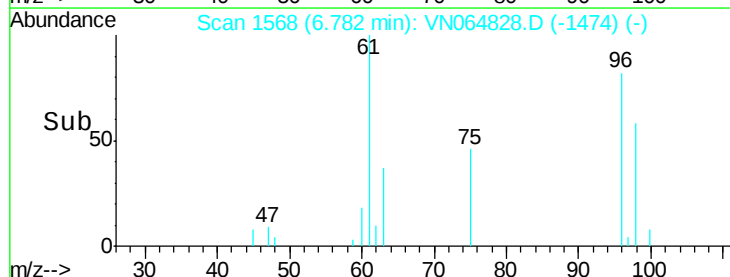
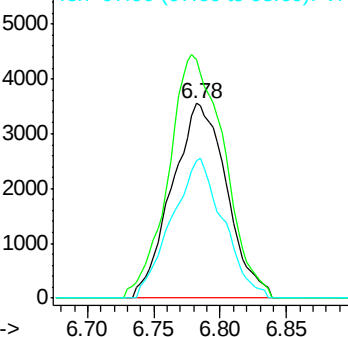
98 67.6 0.0 130.6

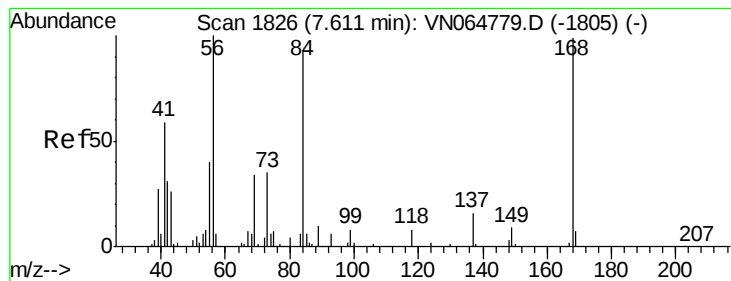


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: 0.499 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

08BR-20201118DL

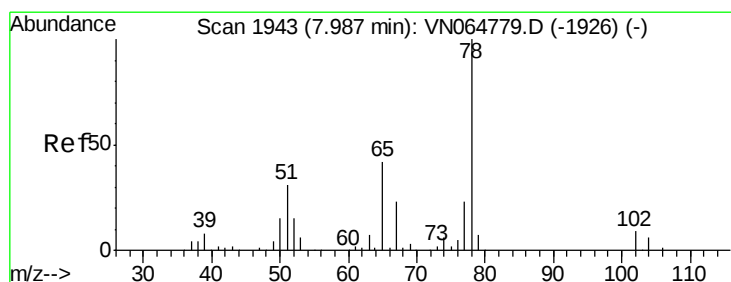
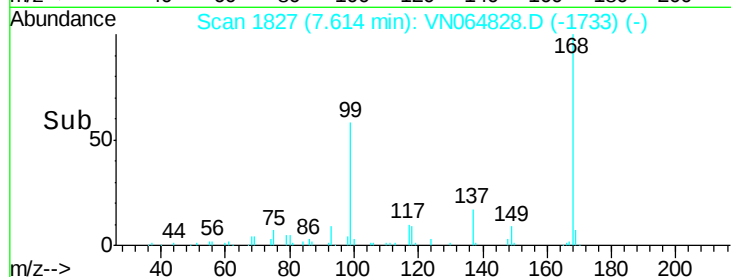
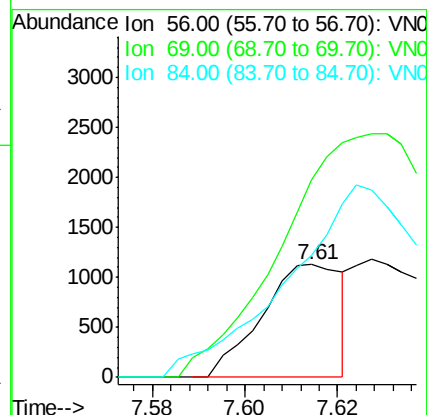
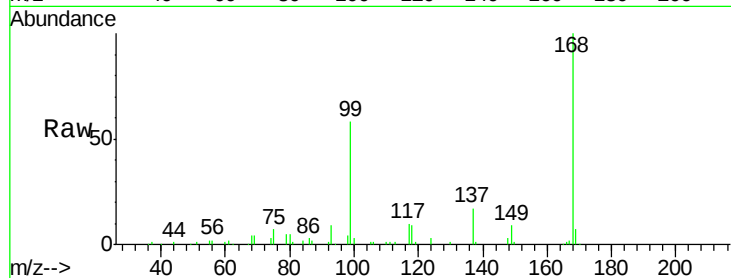
Tot Ion: 56 Resp: 1357

Ion Ratio Lower Upper

56 100

69 157.5 27.5 41.3#

84 87.6 73.9 110.9



#33

1,2-Dichloroethane-d4

Concen: 51.995 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064828.D

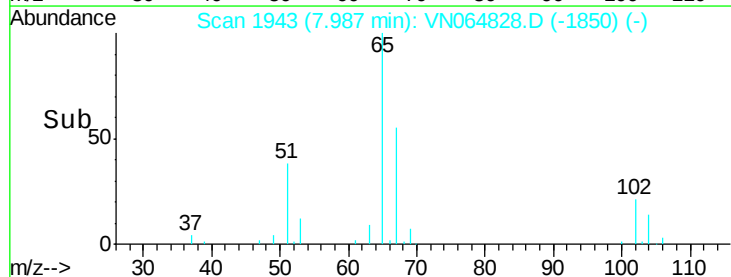
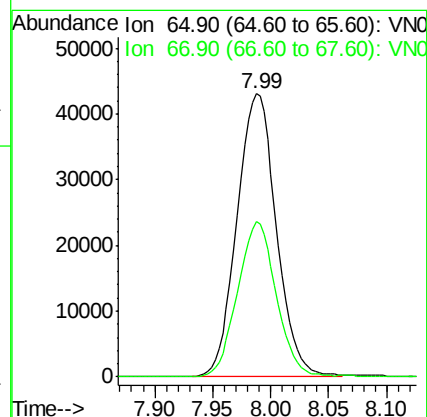
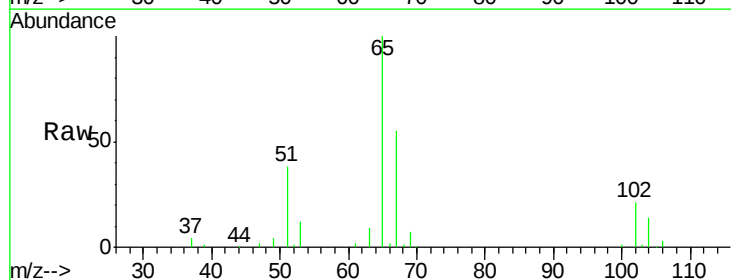
Acq: 24 Nov 2020 23:05

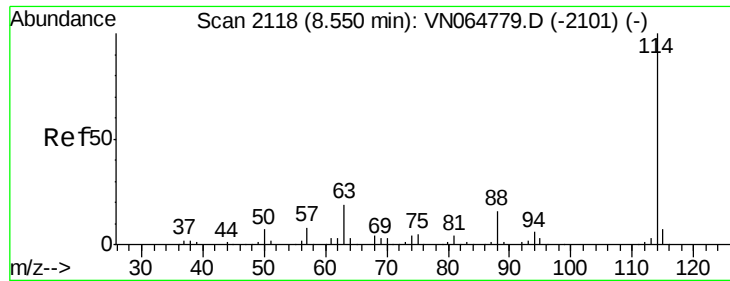
Tgt Ion: 65 Resp: 101470

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.2

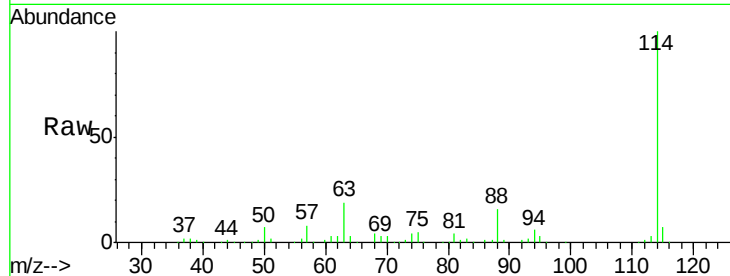




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064828.D
 Acq: 24 Nov 2020 23:05

Instrument :
 MSVOA_N
 ClientSampleId :
 08BR-20201118DL

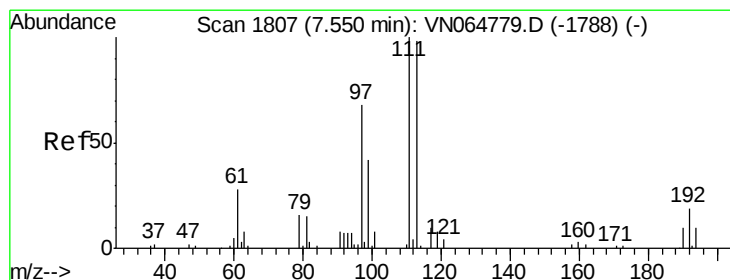
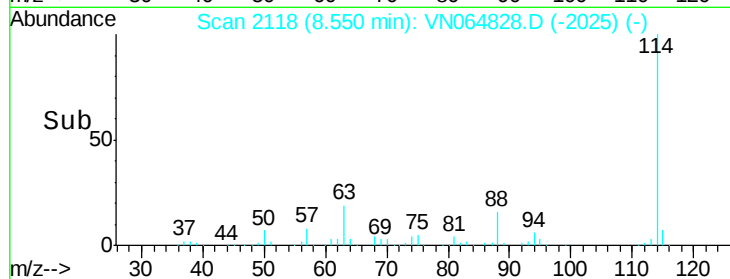
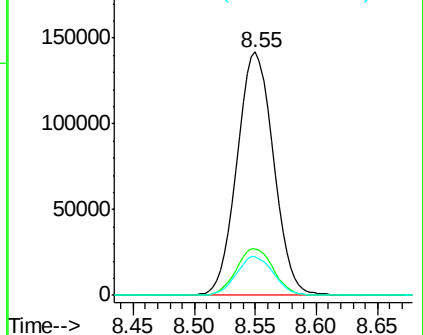
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.6
88	15.8	0.0	32.6



Abundance Ion 113.90 (113.60 to 114.60): V

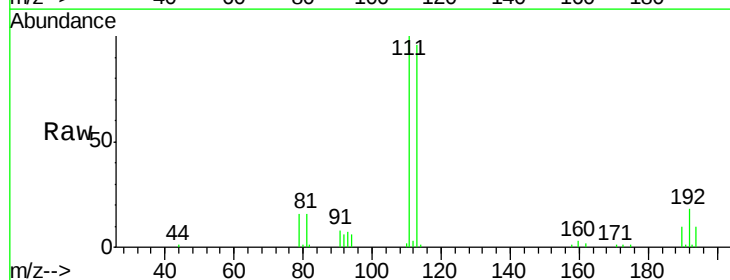
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 53.633 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064828.D
 Acq: 24 Nov 2020 23:05

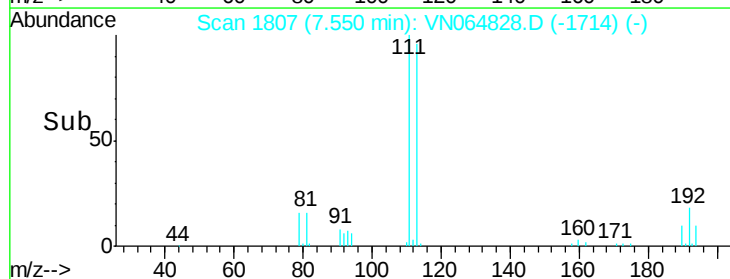
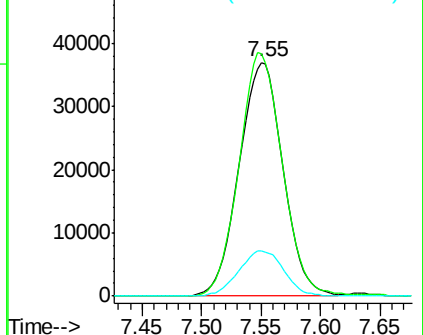
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.6	122.4
192	19.7	16.2	24.2

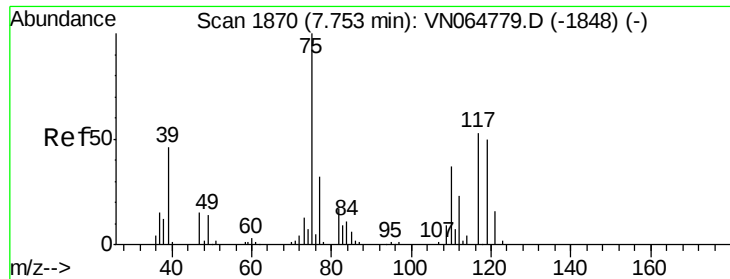


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.077 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

08BR-20201118DL

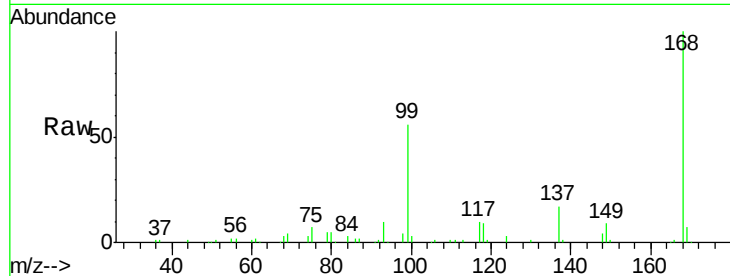
Tot Ion: 75 Resp: 11132

Ion Ratio Lower Upper

75 100

110 2.8 17.8 53.3#

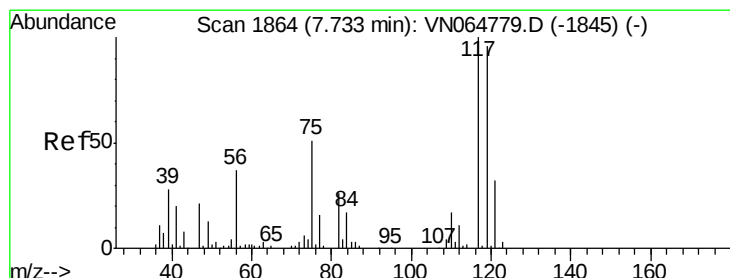
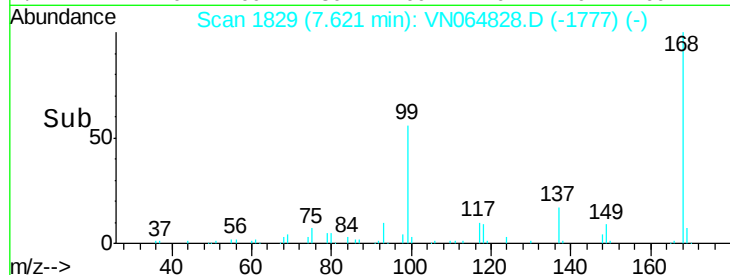
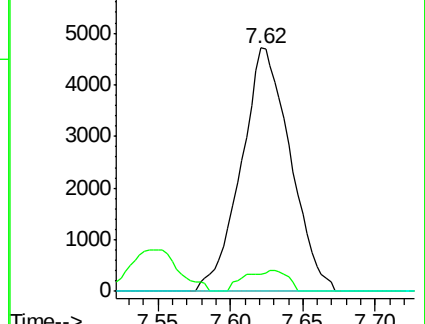
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064828.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064828.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064828.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.445 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

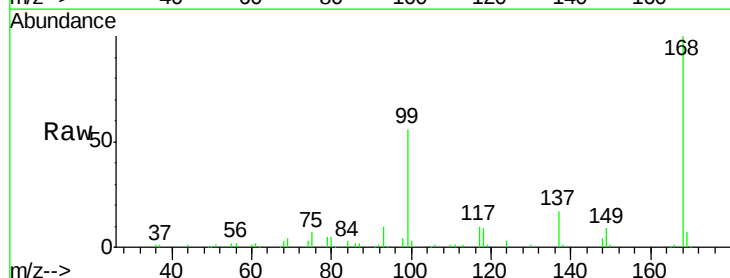
Tgt Ion: 117 Resp: 15467

Ion Ratio Lower Upper

117 100

119 5.8 76.7 115.1#

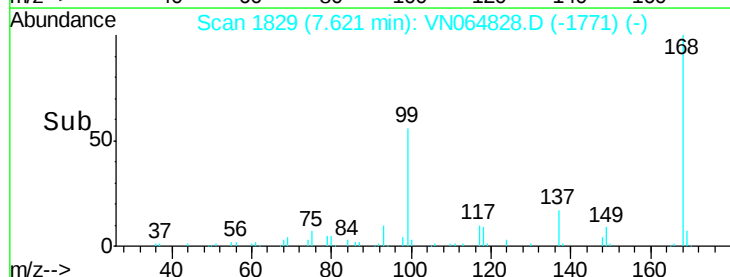
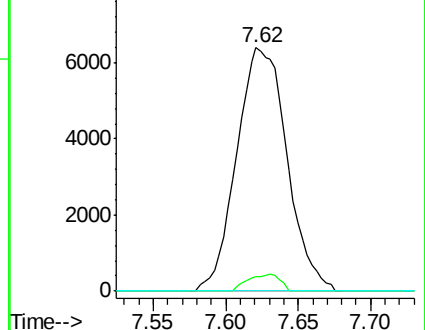
121 0.0 25.4 38.2#

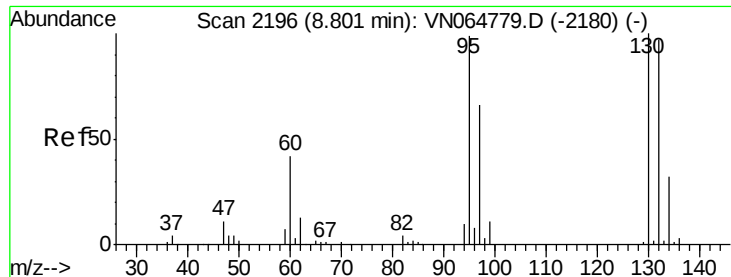


Abundance Ion 116.80 (116.50 to 117.50): VN064828.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN064828.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064828.D (-1771) (-)





#44

Trichloroethene

Concen: 53.647 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

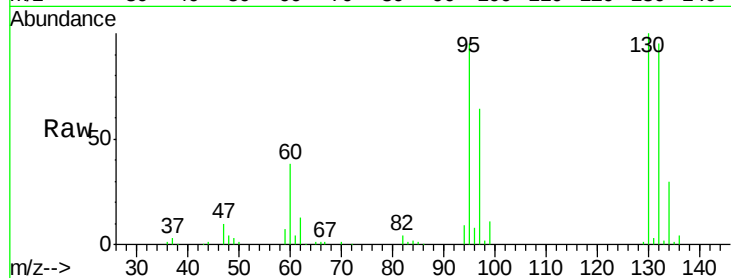
08BR-20201118DL

Tot Ion:130 Resp: 132426

Ion Ratio Lower Upper

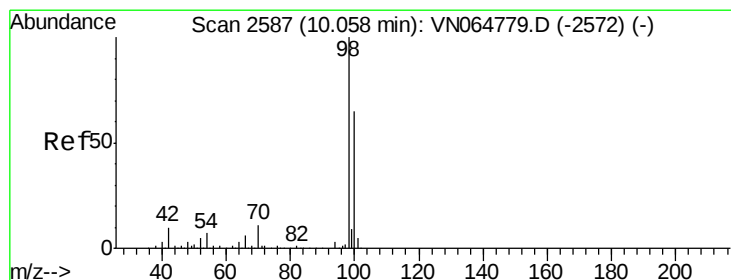
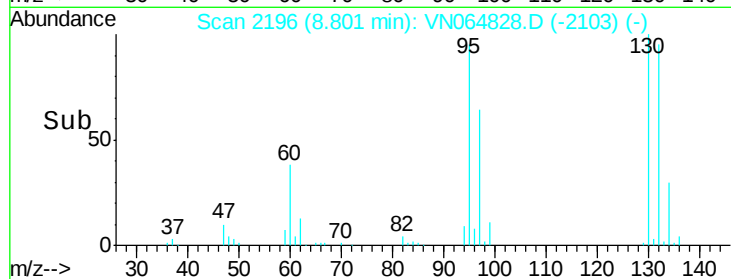
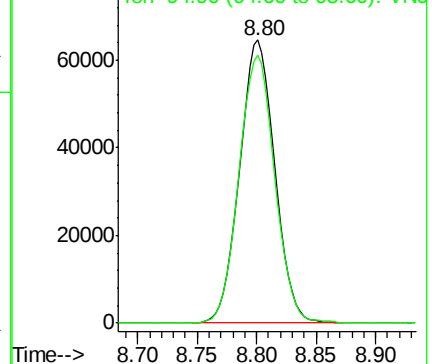
130 100

95 94.7 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 51.392 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064828.D

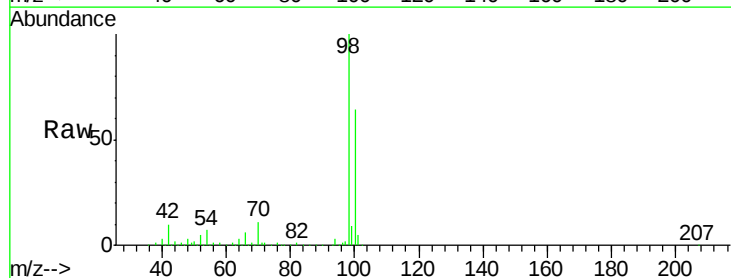
Acq: 24 Nov 2020 23:05

Tgt Ion: 98 Resp: 370093

Ion Ratio Lower Upper

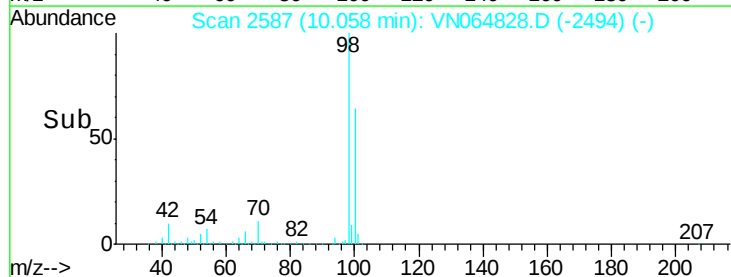
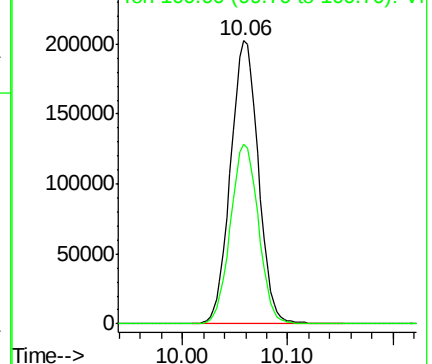
98 100

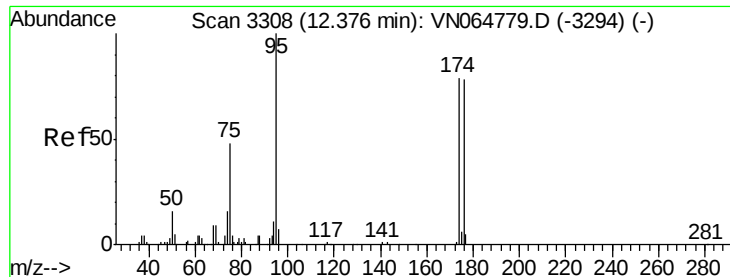
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 56.042 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

08BR-20201118DL

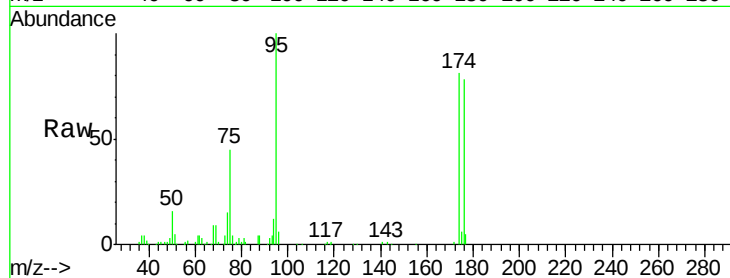
Tot Ion: 95 Resp: 144434

Ion Ratio Lower Upper

95 100

174 80.6 0.0 160.4

176 76.7 0.0 158.4

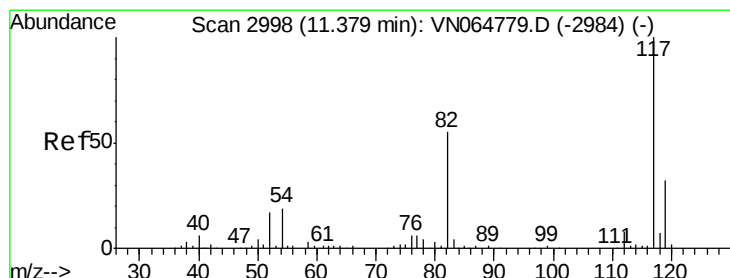
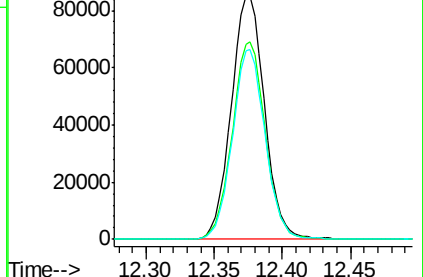
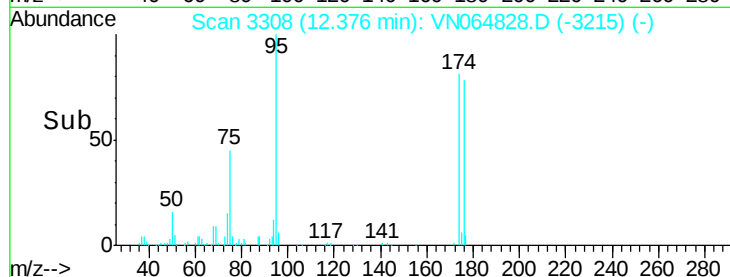


Abundance Ion 94.90 (94.60 to 95.60): VN064828.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN064828.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN064828.D (-3215) (-)

12.38



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

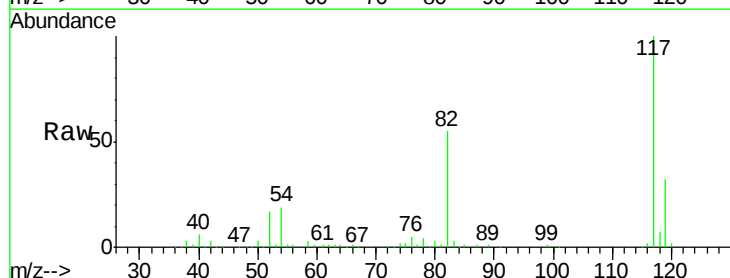
Tgt Ion: 117 Resp: 304532

Ion Ratio Lower Upper

117 100

82 54.7 44.2 66.2

119 31.9 25.8 38.6

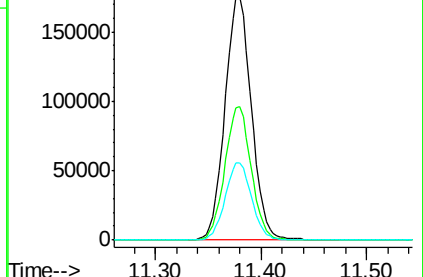
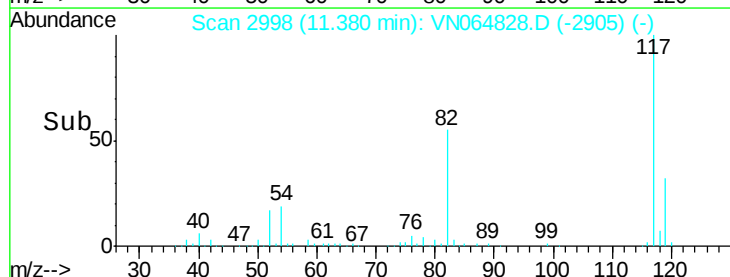


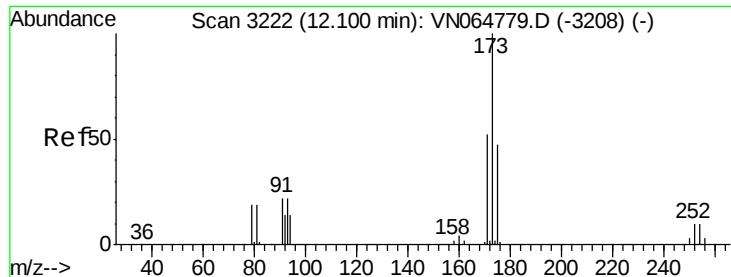
Abundance Ion 116.90 (116.60 to 117.60): VN064828.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN064828.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064828.D (-2905) (-)

11.38





#71

Bromoform

Concen: 0.309 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

08BR-20201118DL

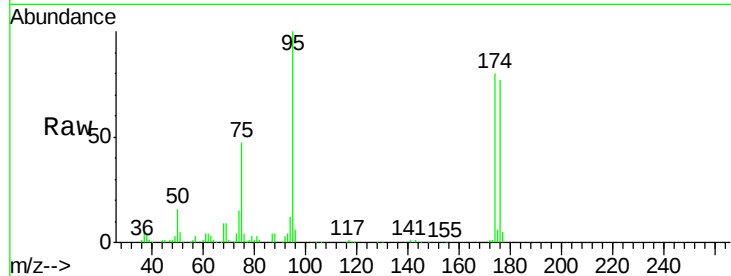
Tot Ion:173 Resp: 594

Ion Ratio Lower Upper

173 100

175 1206.4 24.3 72.8#

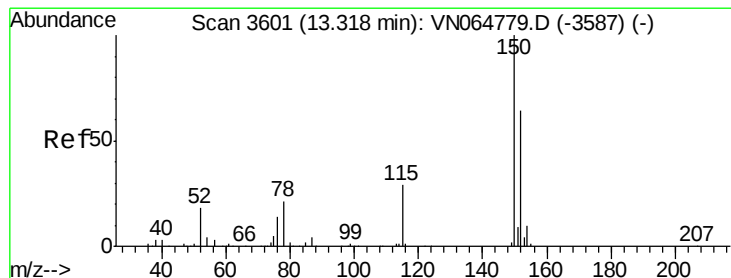
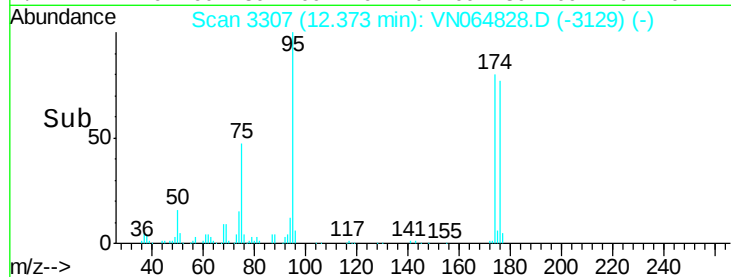
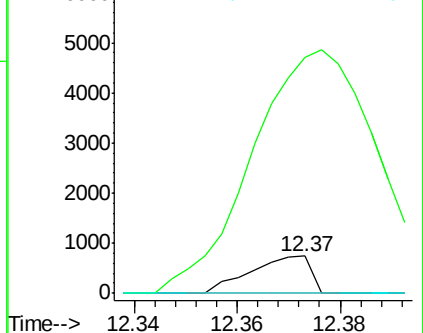
254 0.0 0.0 0.0



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: VN064828.D

Acq: 24 Nov 2020 23:05

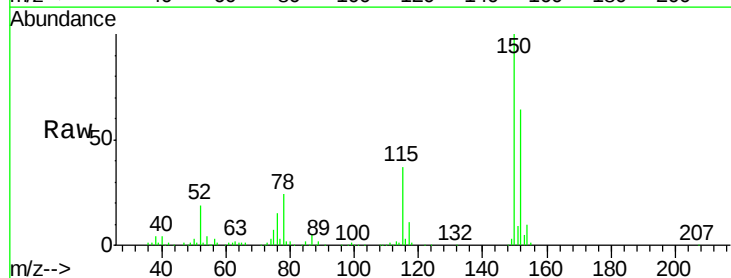
Tgt Ion:152 Resp: 139021

Ion Ratio Lower Upper

152 100

115 58.2 29.7 89.1

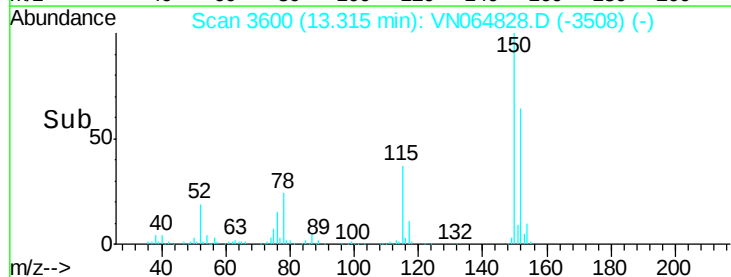
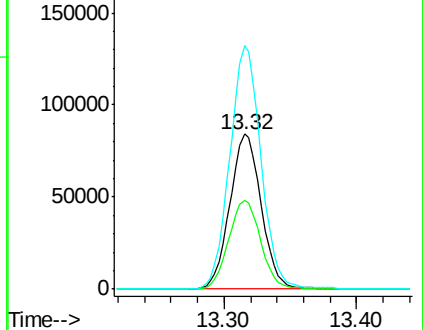
150 155.7 0.0 350.6

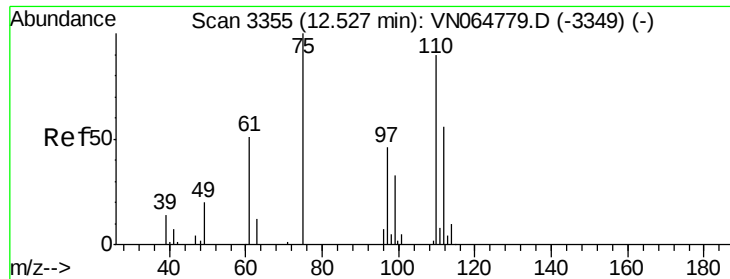


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.685 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

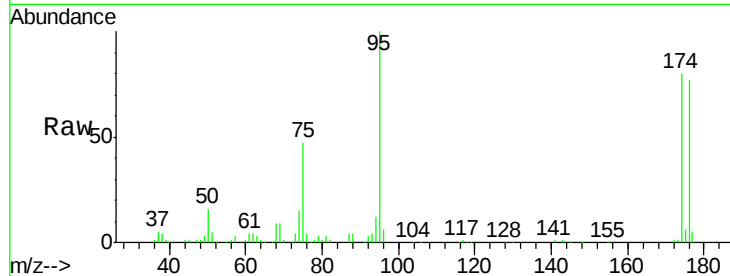
08BR-20201118DL

Tot Ion: 75 Resp: 67916

Ion Ratio Lower Upper

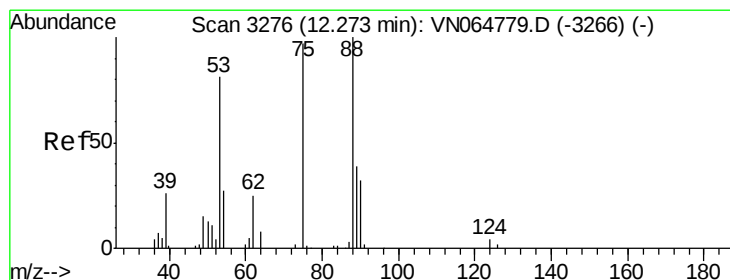
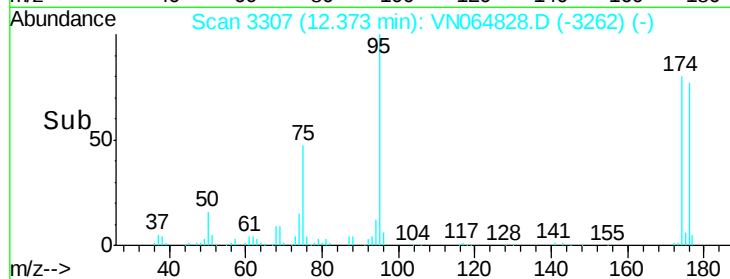
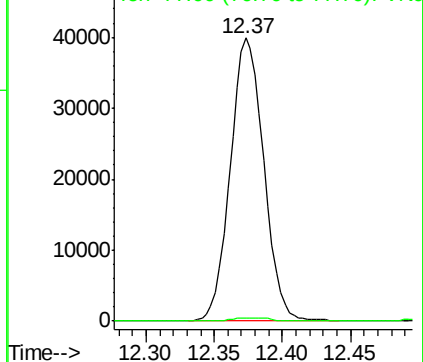
75 100

77 1.2 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: 62.173 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

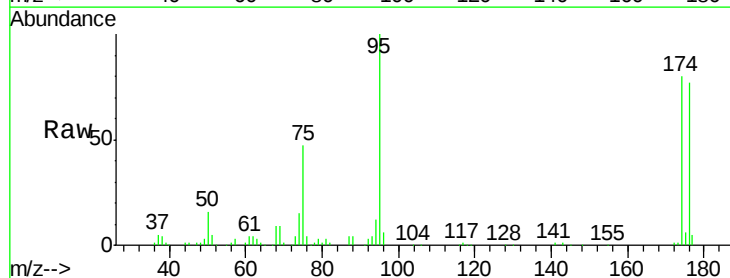
Tgt Ion: 75 Resp: 67916

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

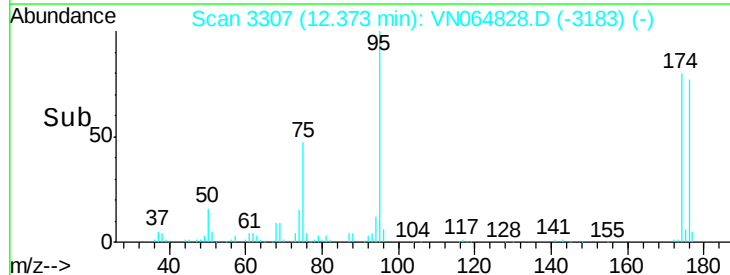
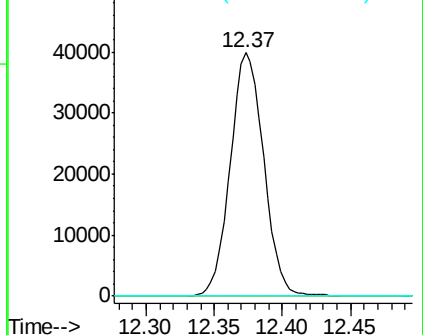
89 0.0 39.6 59.4#

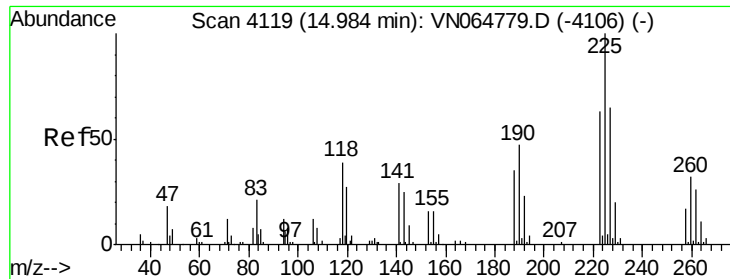


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#94

Hexachlorobutadiene

Concen: 0.565 ug/l

RT: 14.98 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

Instrument :

MSVOA_N

ClientSampleId :

08BR-20201118DL

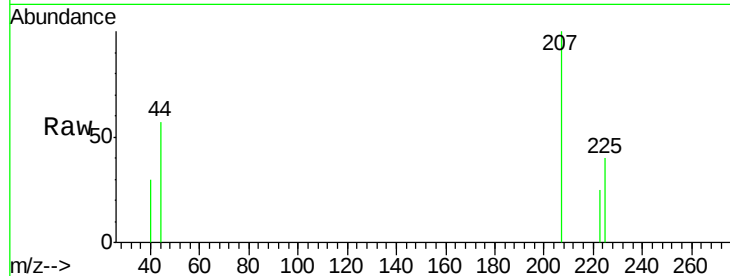
Tot Ion:225 Resp: 246

Ion Ratio Lower Upper

225 100

223 24.8 31.0 93.0#

227 0.0 32.0 96.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

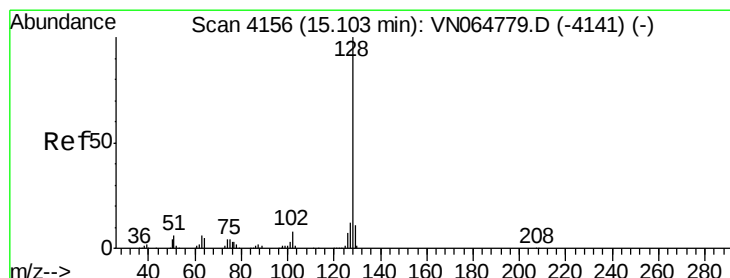
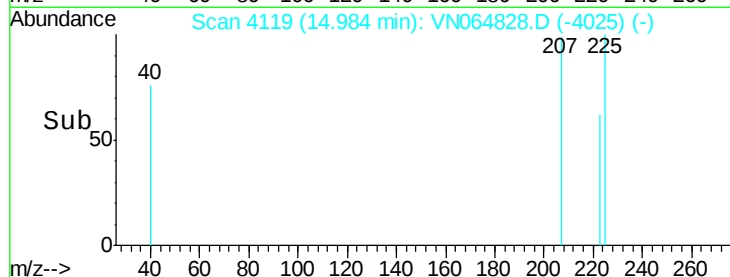
14.98

200

100

0

Time-->



#95

Naphthalene

Concen: 0.340 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064828.D

Acq: 24 Nov 2020 23:05

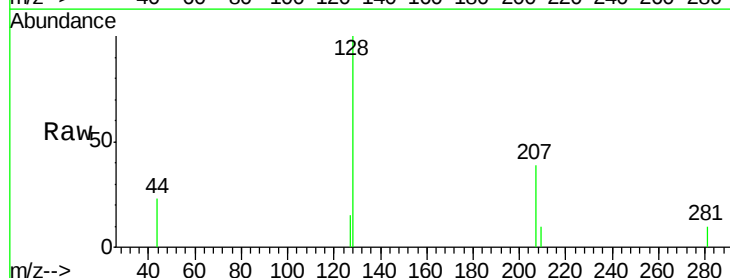
Tgt Ion:128 Resp: 2867

Ion Ratio Lower Upper

128 100

127 6.9 10.3 15.5#

129 5.3 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

15.11

2000

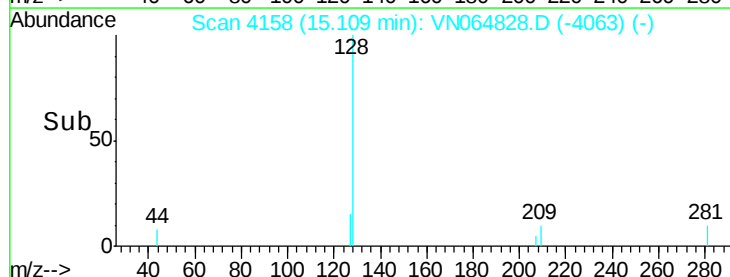
1500

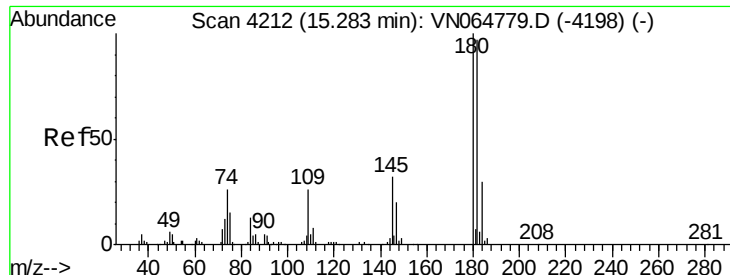
1000

500

0

Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 1.687 ug/l
 RT: 15.28 min Scan# 4210
 Delta R.T. -0.01 min
 Lab File: VN064828.D
 Acq: 24 Nov 2020 23:05

Instrument :
 MSVOA_N
 ClientSampleId :
 08BR-20201118DL

Tot Ion:180 Resp: 811
 Ion Ratio Lower Upper
 180 100
 182 41.8 48.1 144.4#
 145 11.3 16.4 49.1#

