

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063309.D
 Acq On : 11 Sep 2020 13:06
 Operator : JC/MD
 Sample : L3987-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:39:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	375259	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	695793	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	672597	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	271563	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	281399	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
35) Dibromofluoromethane	7.55	113	222021	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	10.06	98	894226	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	12.38	95	330210	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	

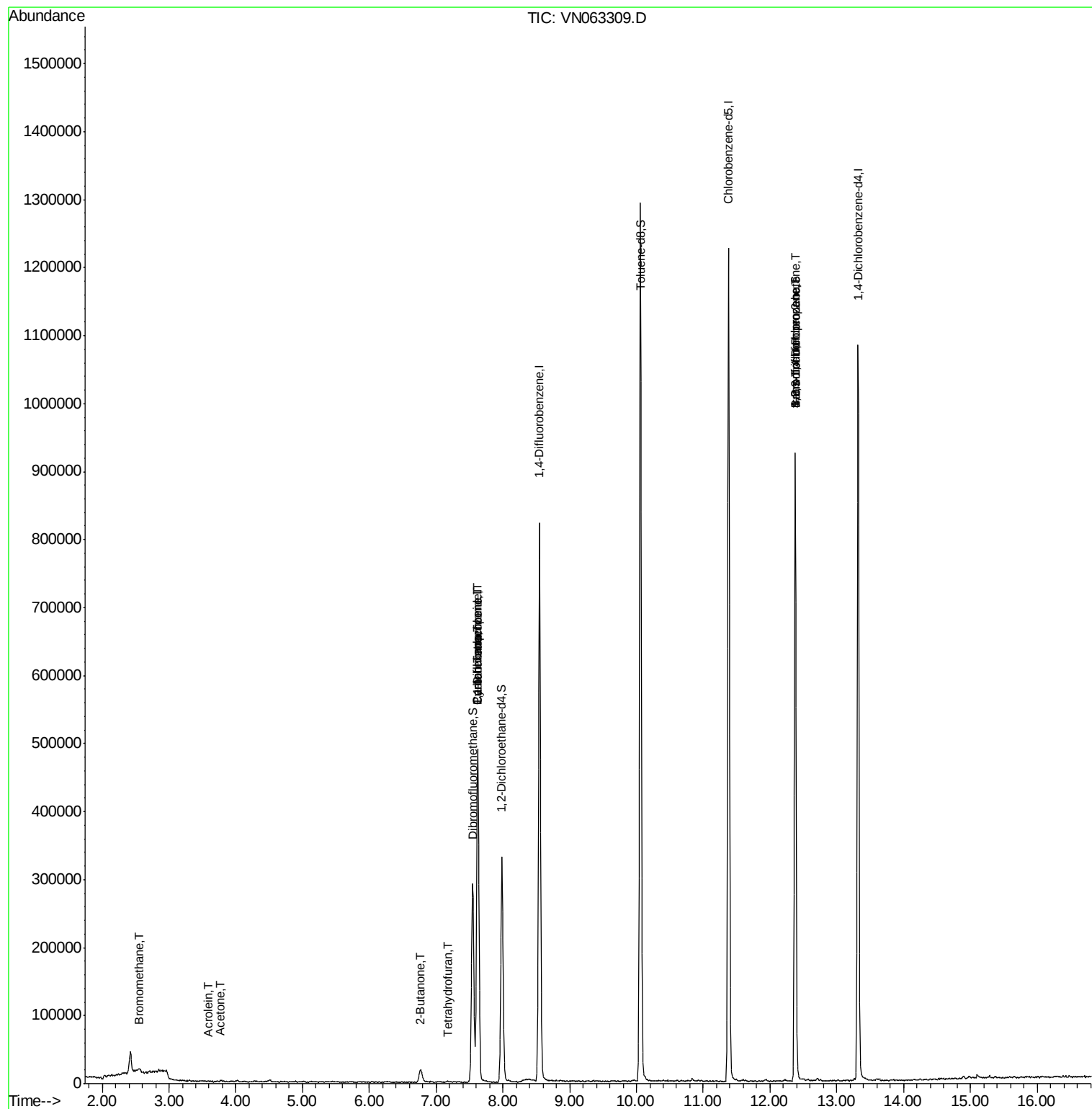
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2132	Below Cal	#	72
5) Bromomethane	2.54	94	1282	0.360	ug/l	95
13) Acrolein	3.58	56	226	32.920	ug/l #	26
16) Acetone	3.77	43	787	0.387	ug/l #	88
17) Carbon Disulfide	4.00	76	1136	Below Cal	#	75
20) Methylene Chloride	4.50	84	1750	Below Cal	#	64
25) 2-Butanone	6.77	43	995	0.331	ug/l #	83
29) Tetrahydrofuran	7.18	42	992	0.507	ug/l #	39
31) Cyclohexane	7.62	56	10183	1.231	ug/l #	8
36) 1,1-Dichloropropene	7.62	75	32954	4.608	ug/l #	51
38) Carbon Tetrachloride	7.62	117	39322	5.586	ug/l #	17
71) Bromoform	12.38	173	1299	0.356	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	179736	30.001	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	179736	80.606	ug/l #	9
88) 1,4-Dichlorobenzene	13.34	146	1441	Below Cal	#	25
94) Hexachlorobutadiene	14.98	225	236	Below Cal	#	47
95) Naphthalene	15.11	128	4474	Below Cal	#	92
96) 1,2,3-Trichlorobenzene	15.29	180	780	Below Cal		82

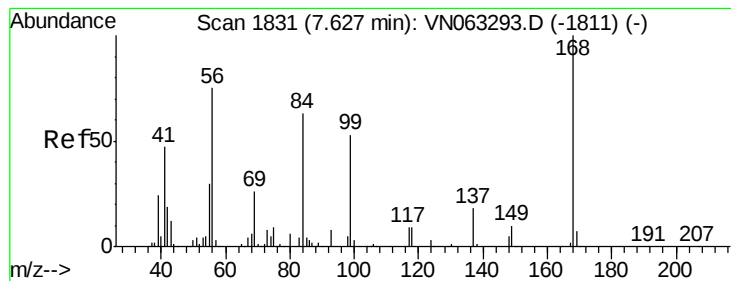
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 11 06:02:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

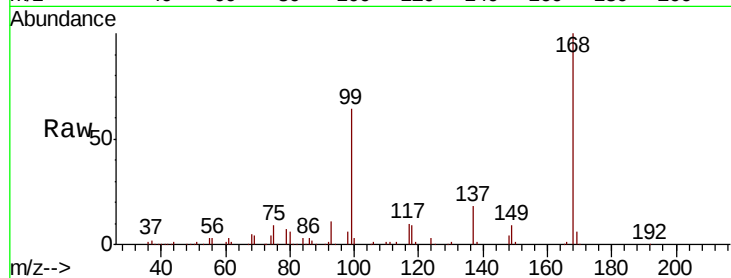
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 375259

Ion Ratio Lower Upper

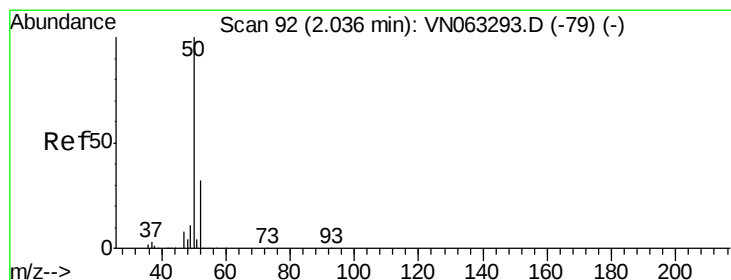
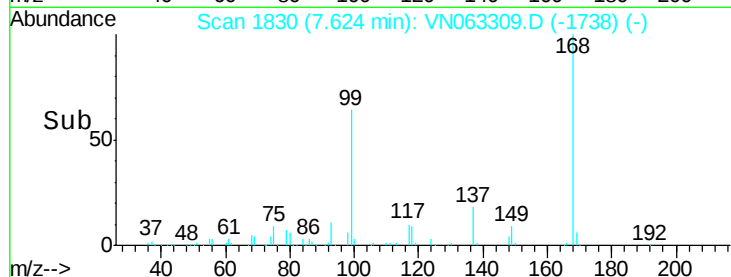
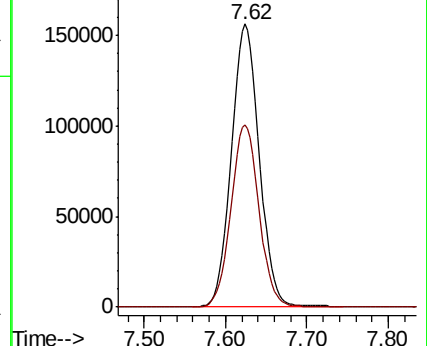
168 100

99 64.3 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063309.D

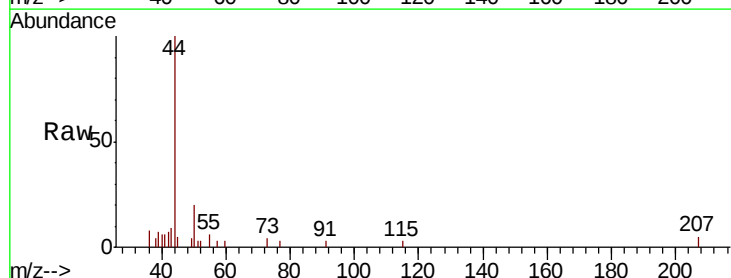
Acq: 11 Sep 2020 13:06

Tgt Ion: 50 Resp: 2132

Ion Ratio Lower Upper

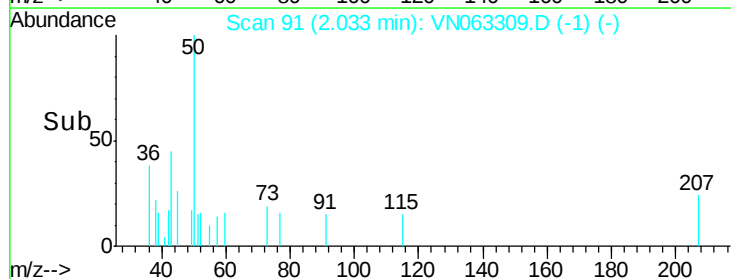
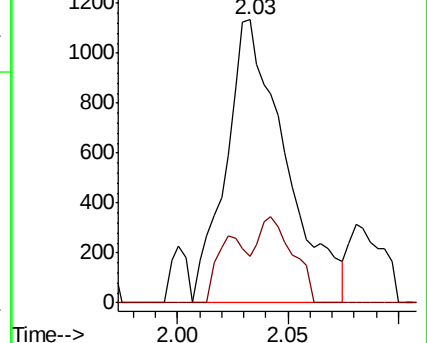
50 100

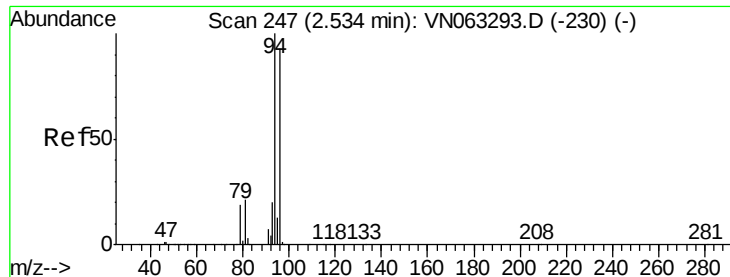
52 16.3 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.360 ug/l

RT: 2.54 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

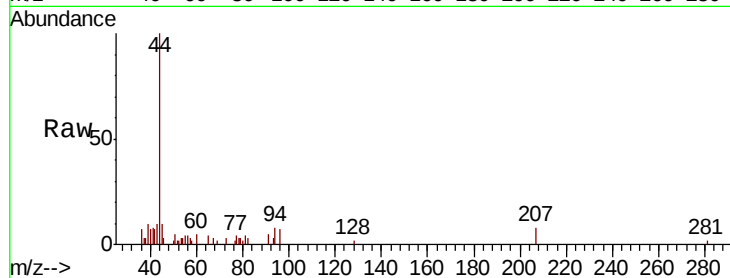
ClientSampled :

Tot Ion: 94 Resp: 1282

Ion Ratio Lower Upper

94 100

96 88.4 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

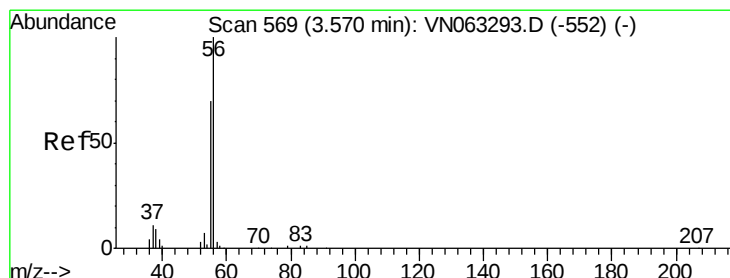
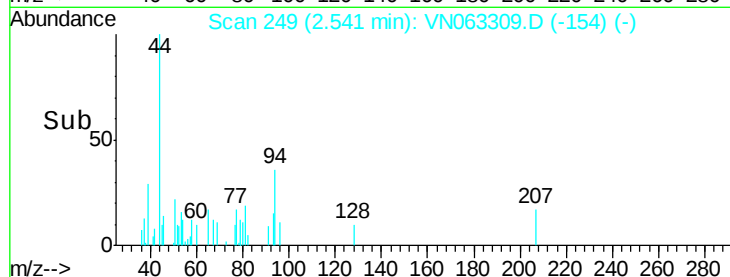
600

400

200

0

Time-->



#13

Acrolein

Concen: 32.920 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN063309.D

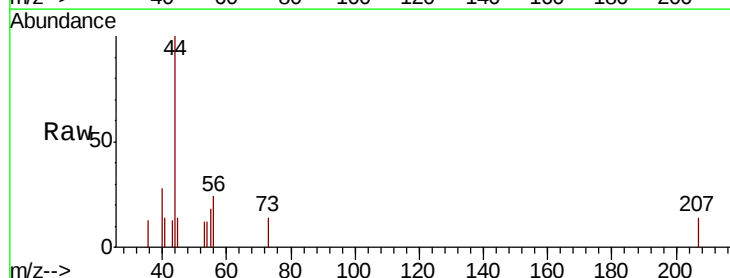
Acq: 11 Sep 2020 13:06

Tgt Ion: 56 Resp: 226

Ion Ratio Lower Upper

56 100

55 133.2 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.58

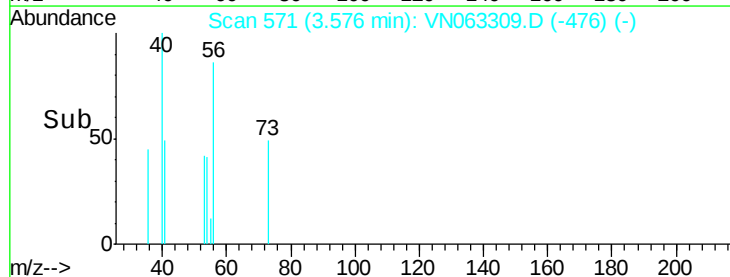
300

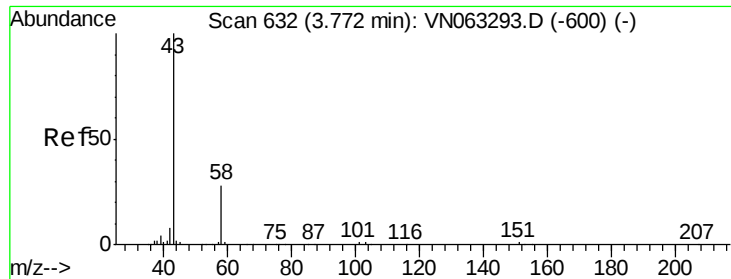
200

100

0

Time-->





#16

Acetone

Concen: 0.387 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

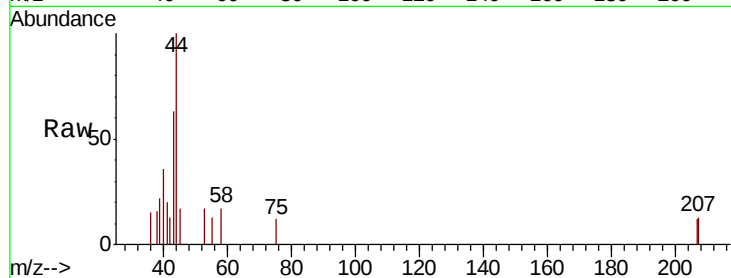
ClientSampled :

Tot Ion: 43 Resp: 787

Ion Ratio Lower Upper

43 100

58 34.9 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.77

800

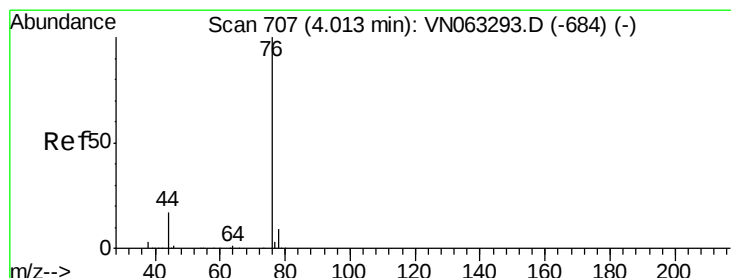
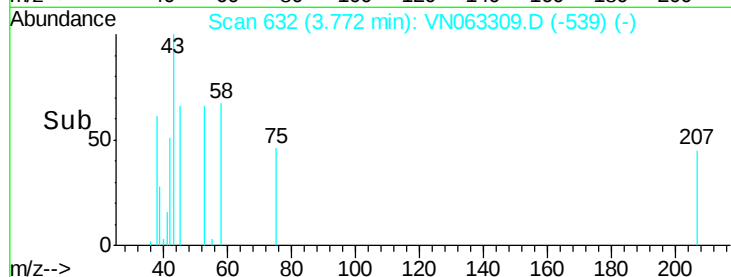
600

400

200

0

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN063309.D

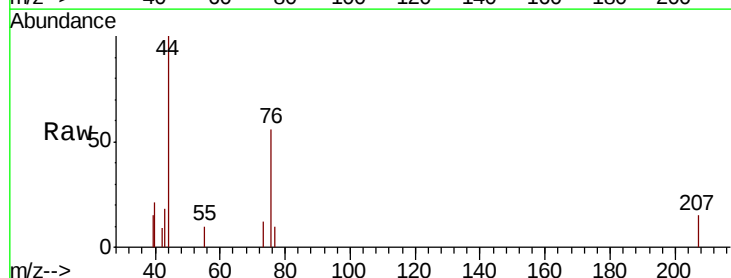
Acq: 11 Sep 2020 13:06

Tgt Ion: 76 Resp: 1136

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

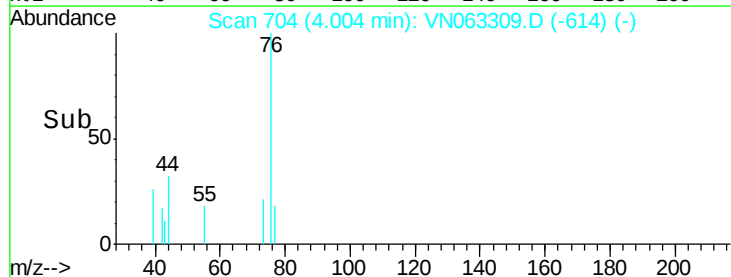
4.00

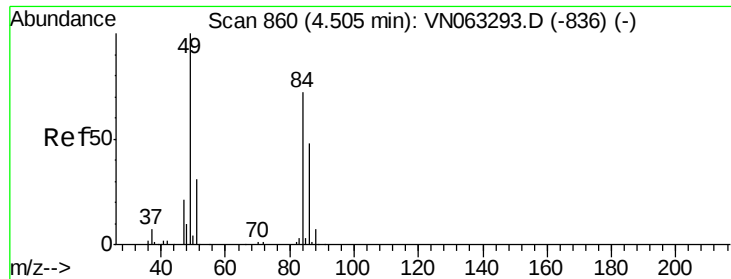
1000

500

0

Time-->





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1750

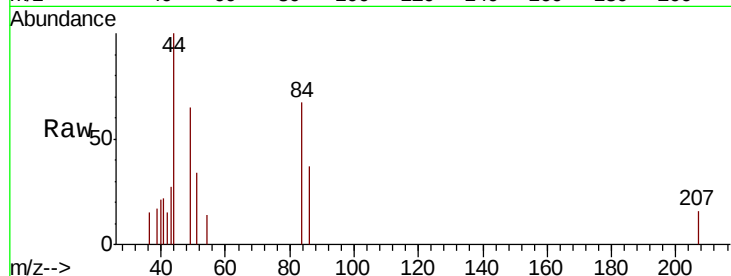
Ion Ratio Lower Upper

84 100

49 76.2 111.1 166.7#

51 30.7 34.3 51.5#

86 54.4 52.9 79.3

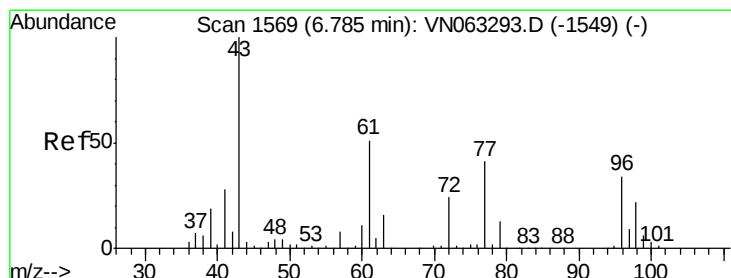
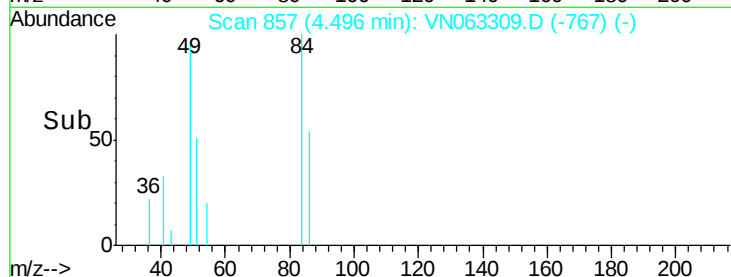
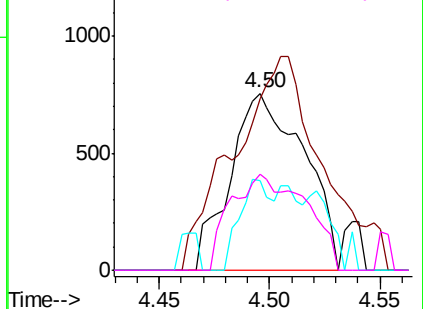


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.331 ug/l

RT: 6.77 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VN063309.D

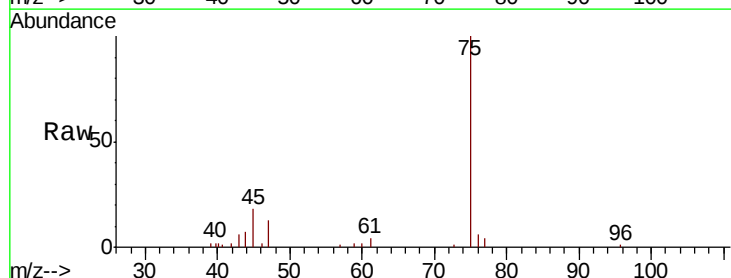
Acq: 11 Sep 2020 13:06

Tgt Ion: 43 Resp: 995

Ion Ratio Lower Upper

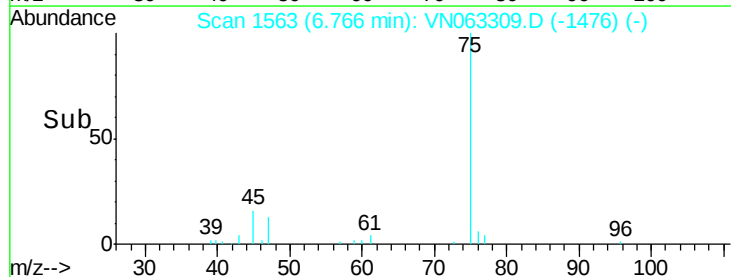
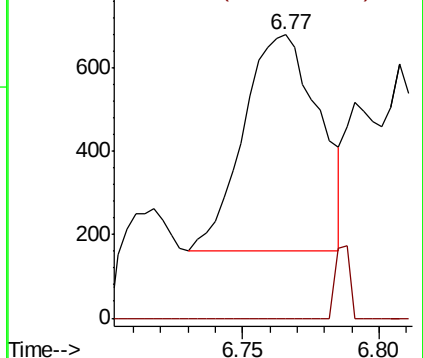
43 100

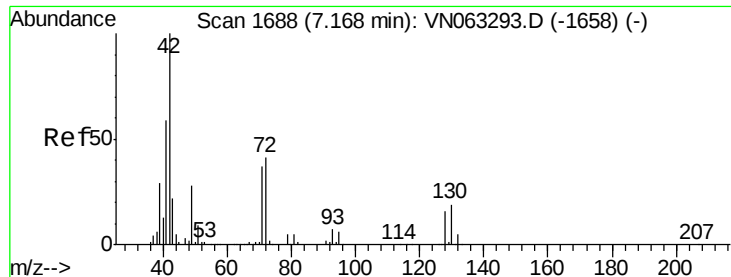
72 32.9 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.507 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

ClientSampleId :

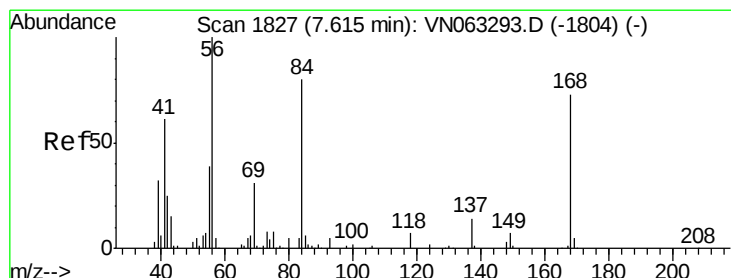
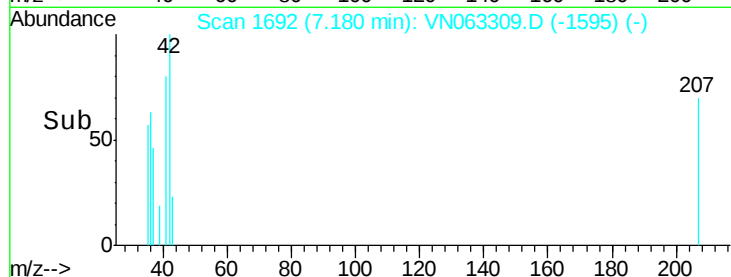
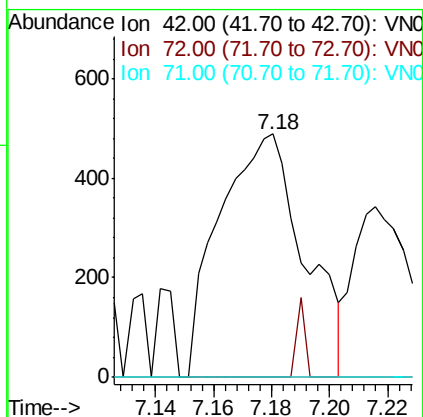
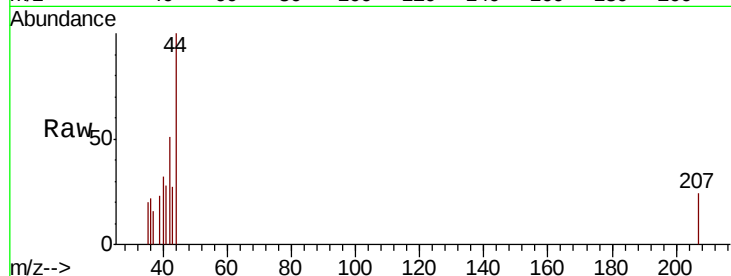
Tot Ion: 42 Resp: 992

Ion Ratio Lower Upper

42 100

72 3.1 31.4 47.2#

71 0.0 30.0 45.0#



#31

Cyclohexane

Concen: 1.231 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

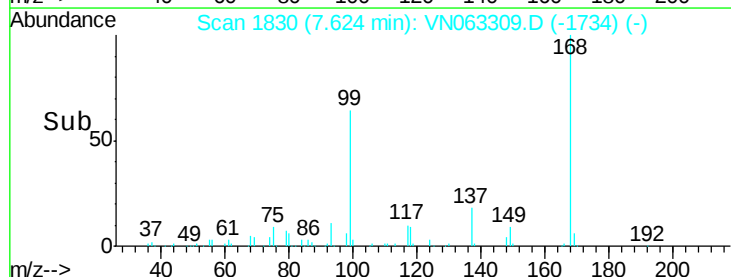
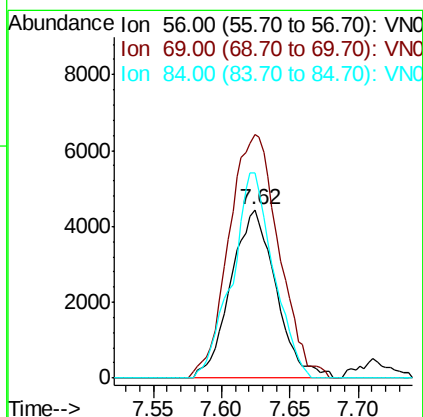
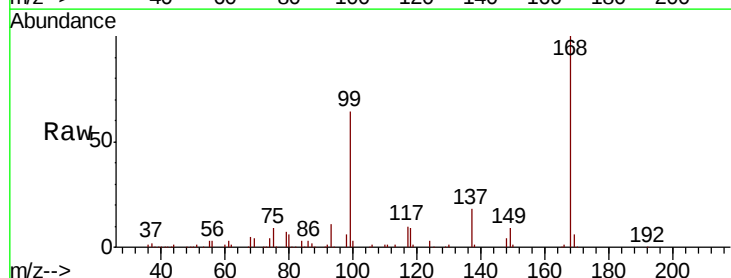
Tgt Ion: 56 Resp: 10183

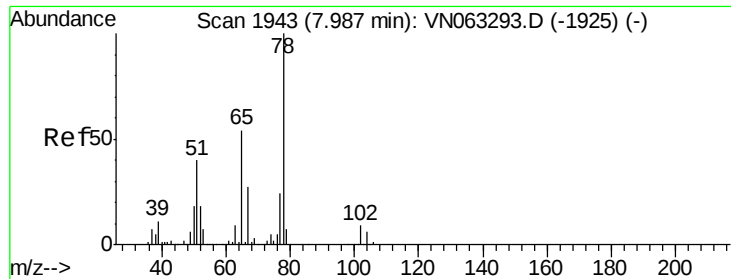
Ion Ratio Lower Upper

56 100

69 144.8 25.1 37.7#

84 122.1 64.2 96.2#





#33

1,2-Dichloroethane-d4

Concen: 47.729 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

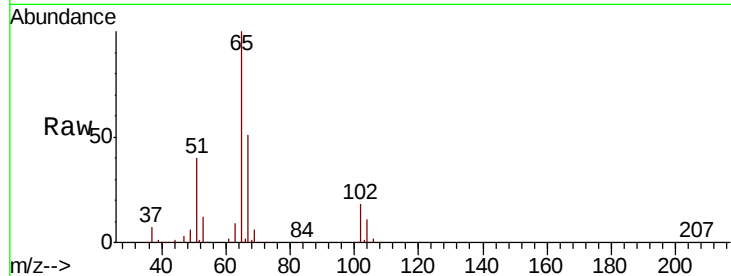
ClientSampled :

Tot Ion: 65 Resp: 281399

Ion Ratio Lower Upper

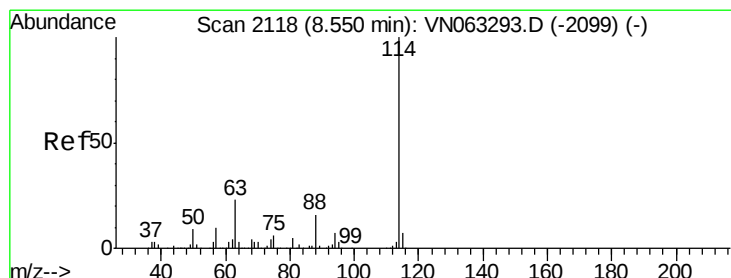
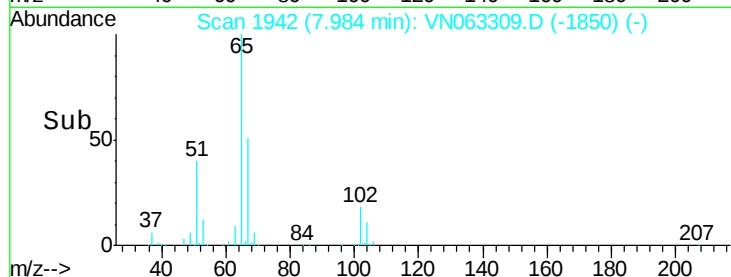
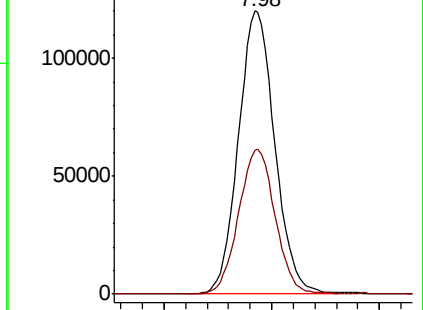
65 100

67 51.5 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN063309.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063309.D (-1850) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

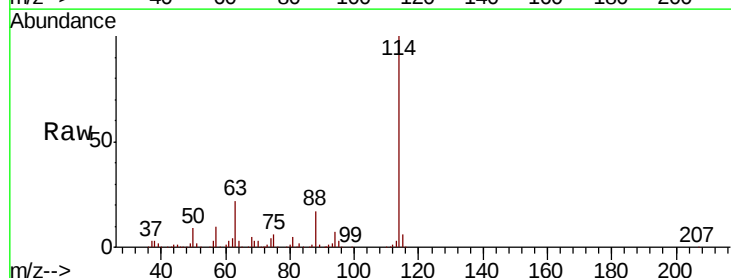
Tgt Ion: 114 Resp: 695793

Ion Ratio Lower Upper

114 100

63 22.1 0.0 46.0

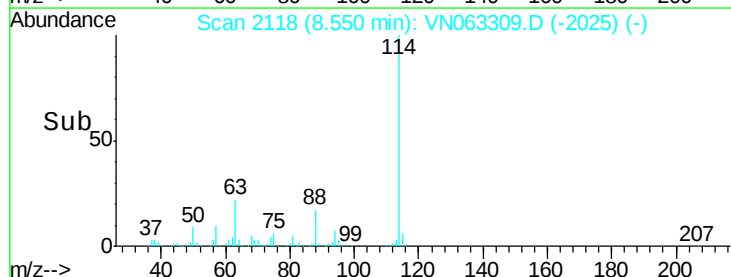
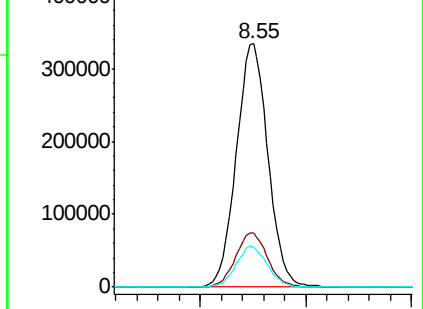
88 16.7 0.0 32.8

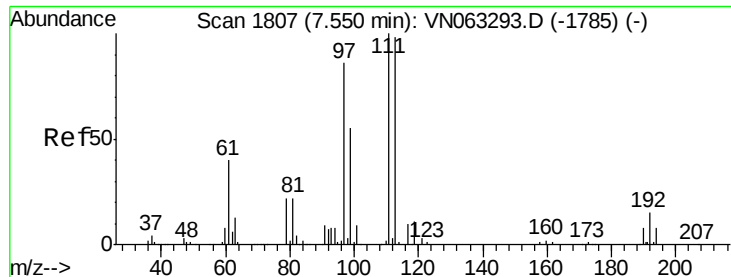


Abundance Ion 113.90 (113.60 to 114.60): VN063309.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN063309.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN063309.D (-2025) (-)

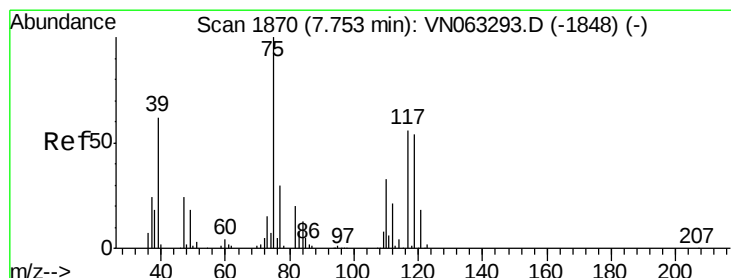
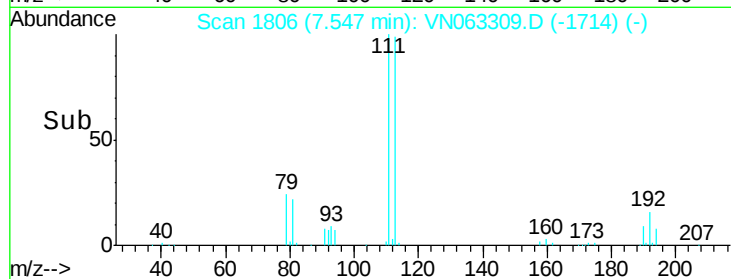
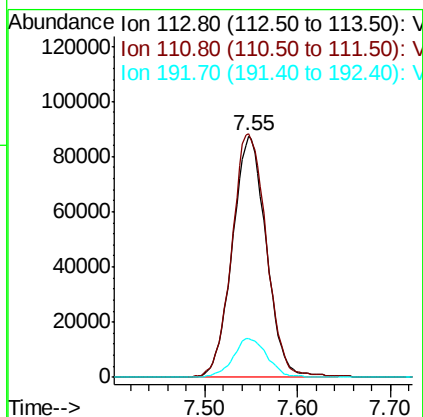
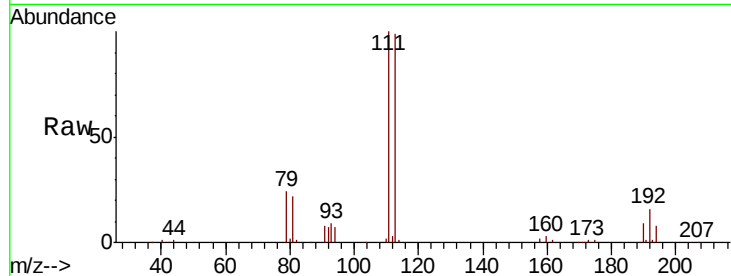




#35
 Dibromofluoromethane
 Concen: 49.462 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063309.D
 Acq: 11 Sep 2020 13:06

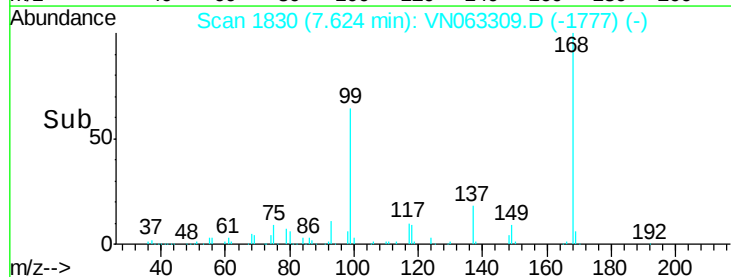
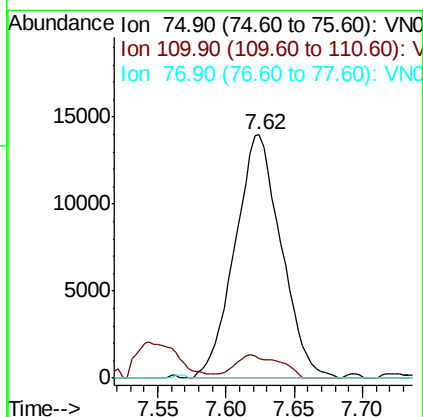
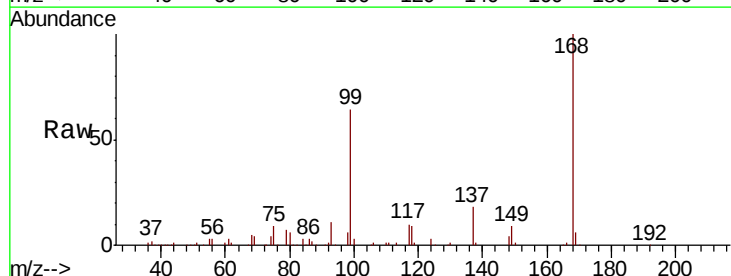
Instrument :
 MSVOA_N
 ClientSampled :

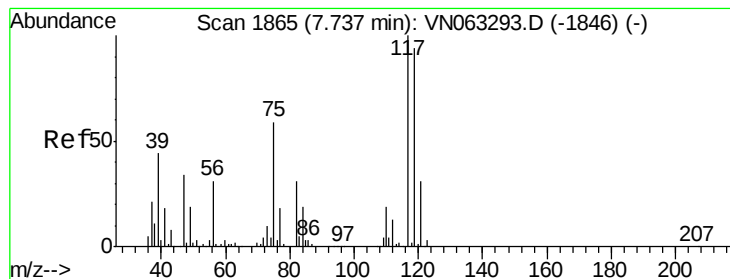
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.2
192	16.3	12.9	19.3



#36
 1,1-Dichloropropene
 Concen: 4.608 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063309.D
 Acq: 11 Sep 2020 13:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.4	49.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 5.586 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

ClientSampleId :

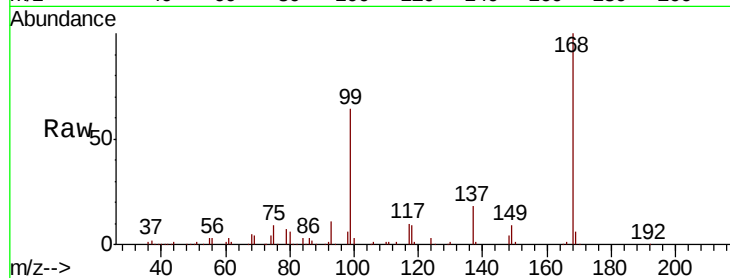
Tot Ion:117 Resp: 39322

Ion Ratio Lower Upper

117 100

119 5.6 75.3 112.9#

121 0.0 24.6 37.0#



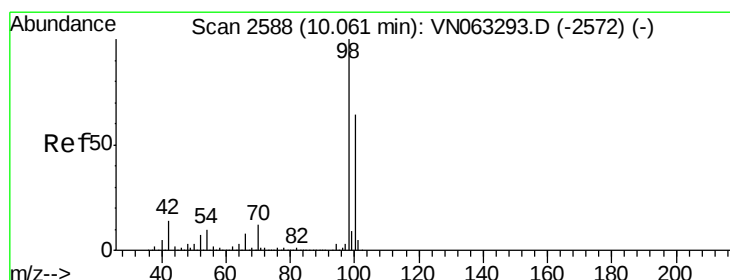
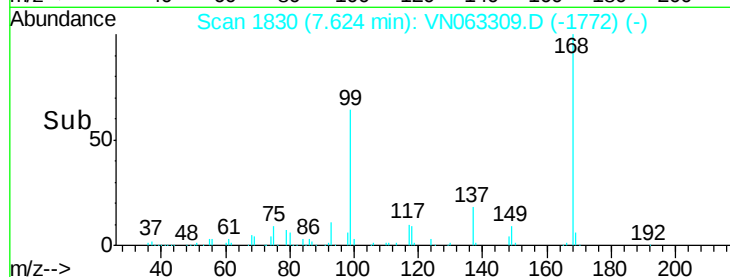
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

7.62

Time-->



#50

Toluene-d8

Concen: 51.984 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063309.D

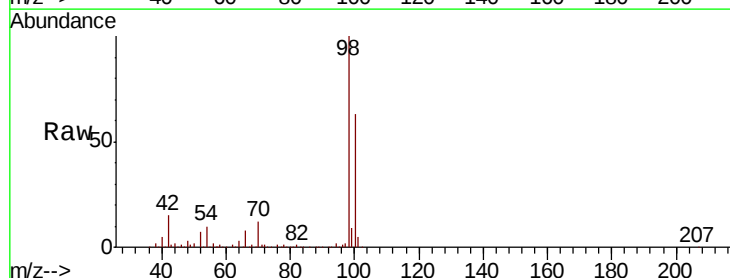
Acq: 11 Sep 2020 13:06

Tgt Ion: 98 Resp: 894226

Ion Ratio Lower Upper

98 100

100 62.6 50.7 76.1

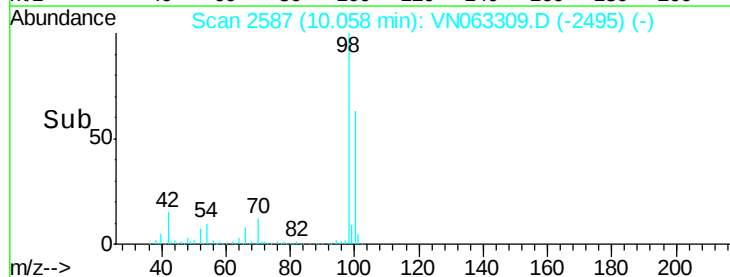


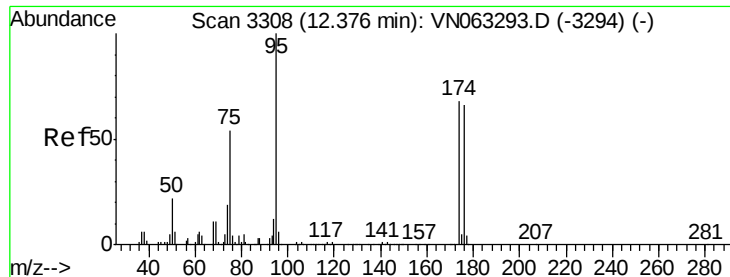
Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.06

Time-->





#62

4-Bromofluorobenzene

Concen: 51.972 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

ClientSampled :

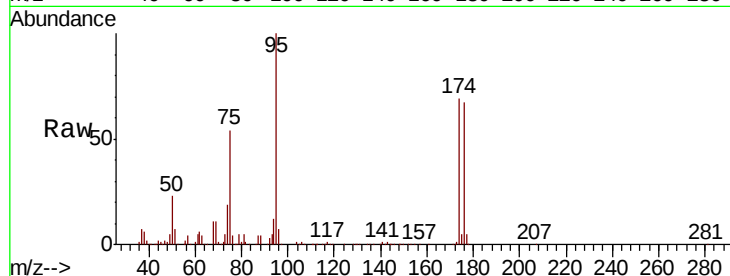
Tot Ion: 95 Resp: 330210

Ion Ratio Lower Upper

95 100

174 69.0 0.0 136.6

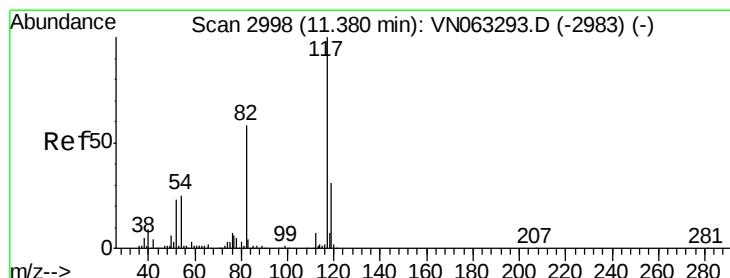
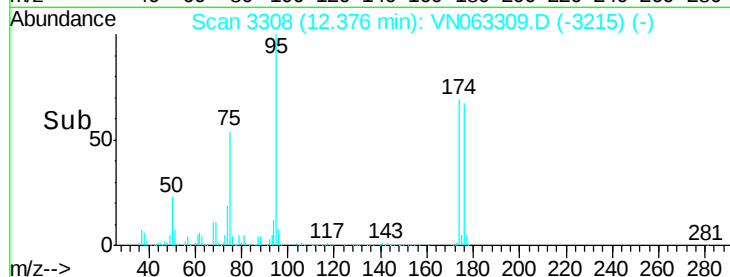
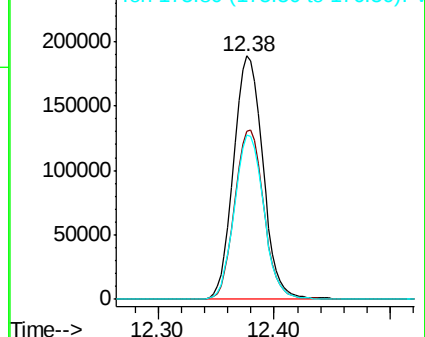
176 67.5 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063309.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063309.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063309.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

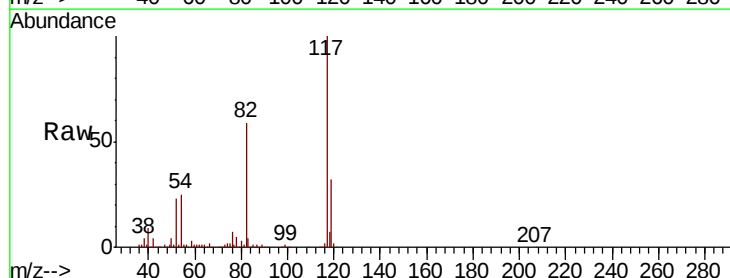
Tgt Ion: 117 Resp: 672597

Ion Ratio Lower Upper

117 100

82 59.4 46.4 69.6

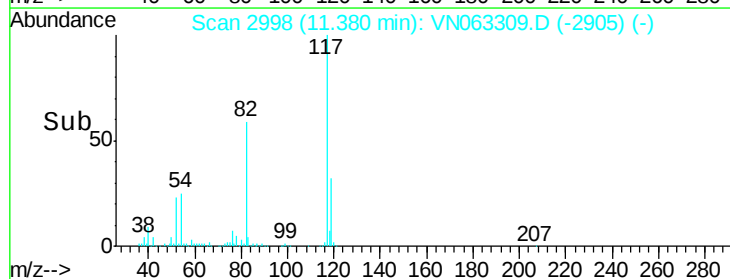
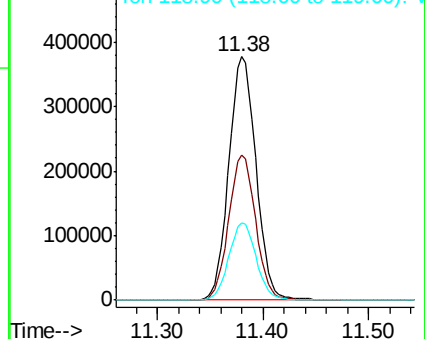
119 31.9 24.8 37.2

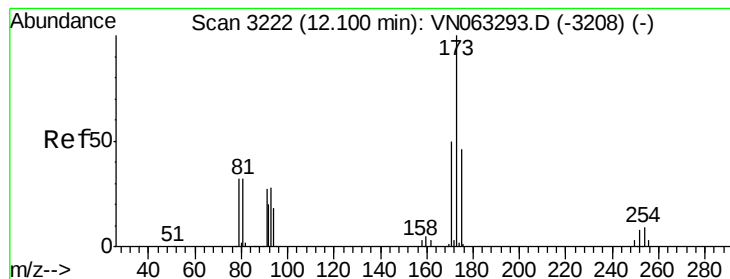


Abundance Ion 116.90 (116.60 to 117.60): VN063309.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063309.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063309.D (-2905) (-)





#71

Bromoform

Concen: 0.356 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

ClientSampleId :

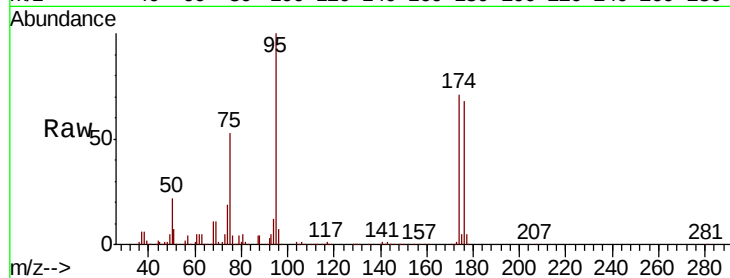
Tot Ion:173 Resp: 1299

Ion Ratio Lower Upper

173 100

175 1050.7 23.8 71.5#

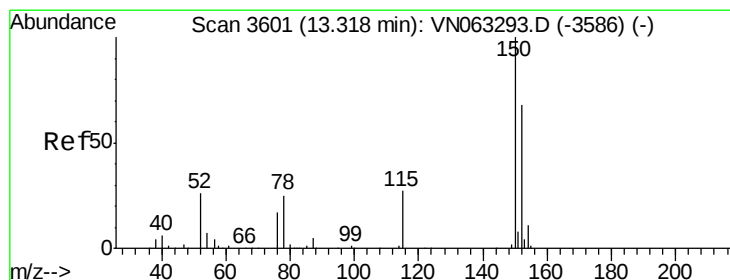
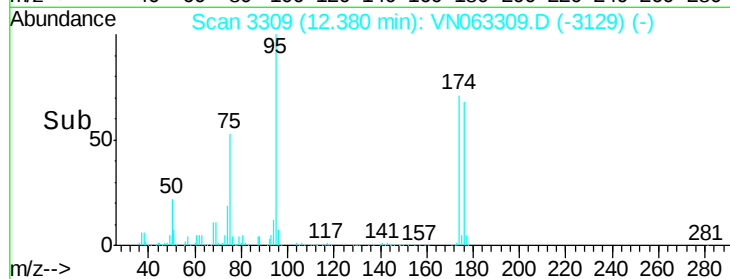
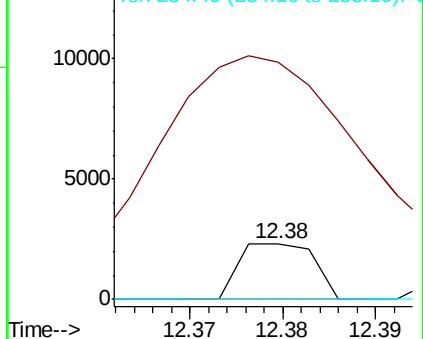
254 0.0 0.0 0.0



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# 3602

Delta R.T. 0.00 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

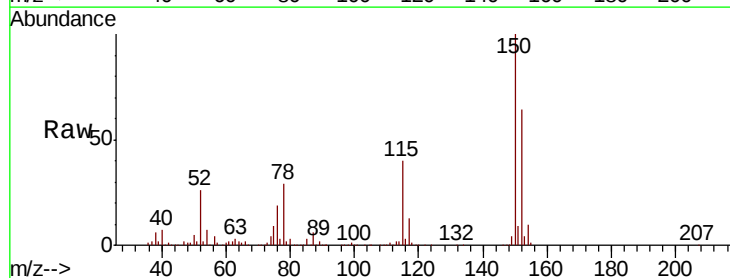
Tgt Ion:152 Resp: 271563

Ion Ratio Lower Upper

152 100

115 62.4 31.5 94.5

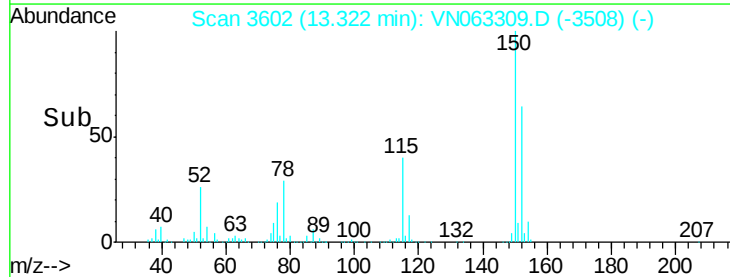
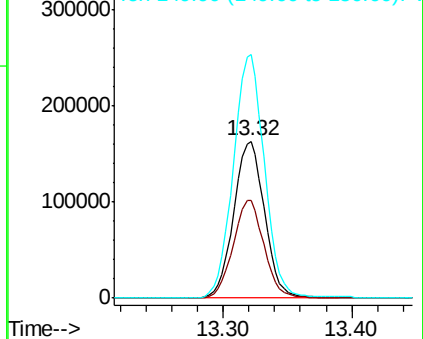
150 156.8 0.0 344.0

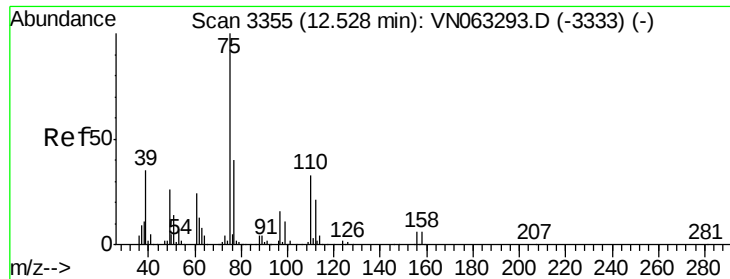


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

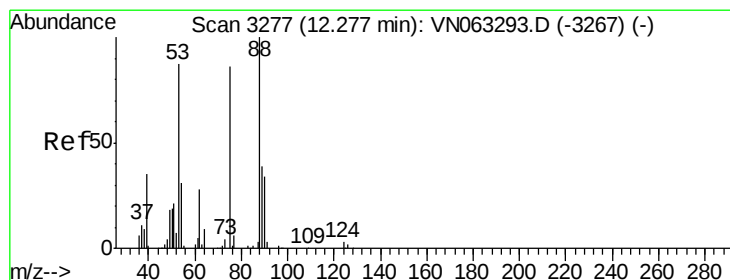
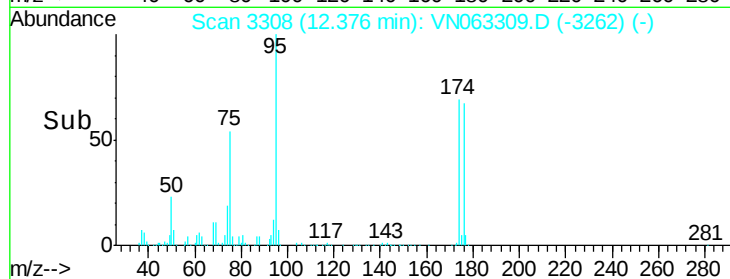
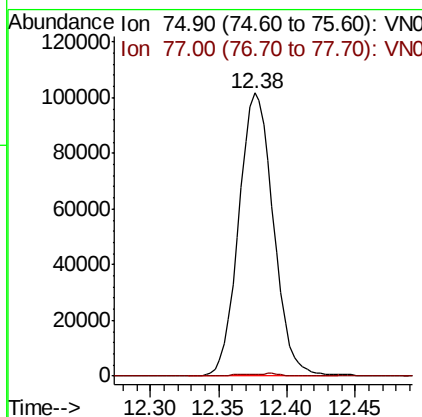
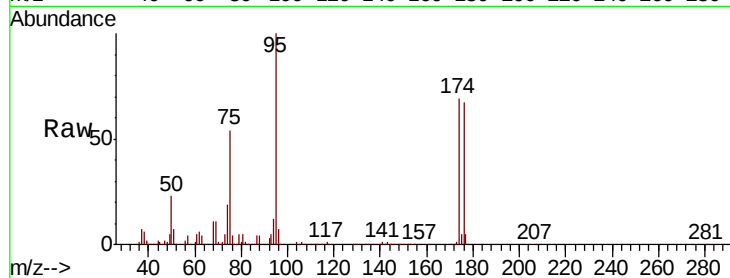




#76
 1,2,3-Trichloropropane
 Concen: 30.001 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063309.D
 Acq: 11 Sep 2020 13:06

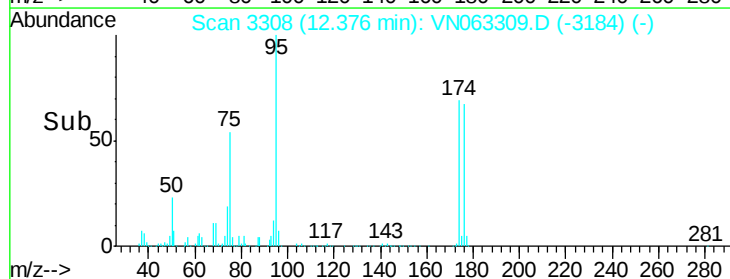
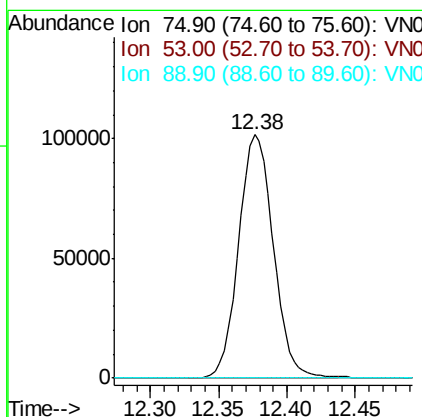
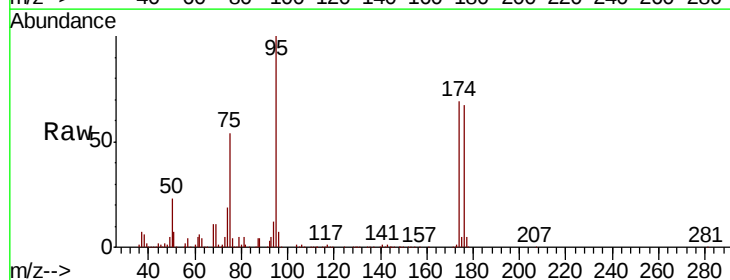
Instrument :
 MSVOA_N
 ClientSampled :

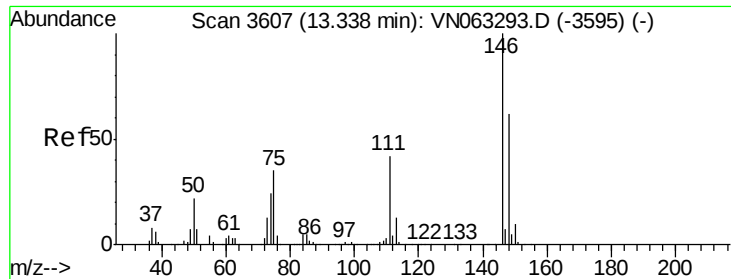
Tot Ion: 75 Resp: 179736
 Ion Ratio Lower Upper
 75 100
 77 0.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.606 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063309.D
 Acq: 11 Sep 2020 13:06

Tgt Ion: 75 Resp: 179736
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.8 122.8#
 89 0.0 36.7 55.1#

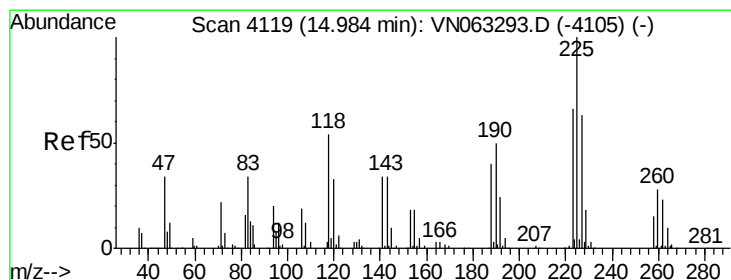
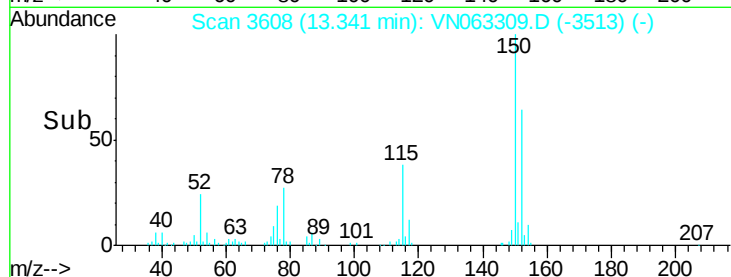
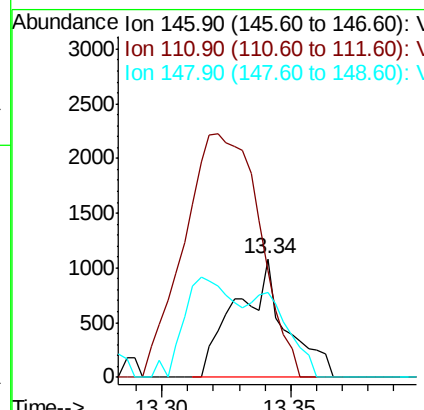
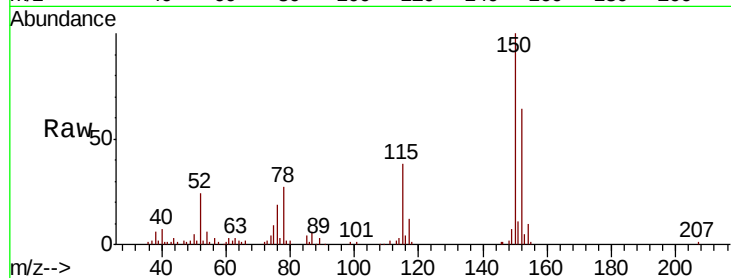




#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.34 min Scan# 3608
Delta R.T. 0.00 min
Lab File: VN063309.D
Acq: 11 Sep 2020 13:06

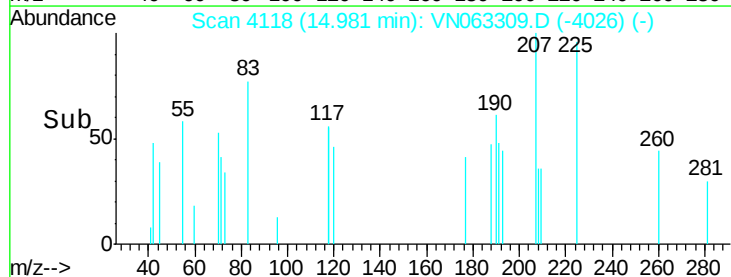
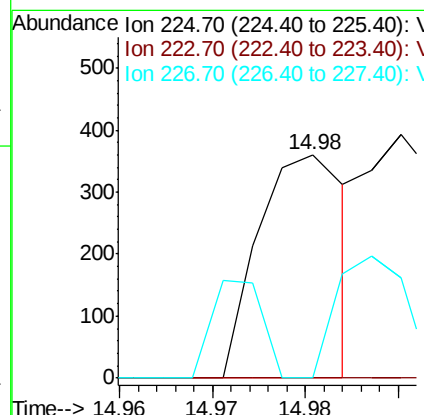
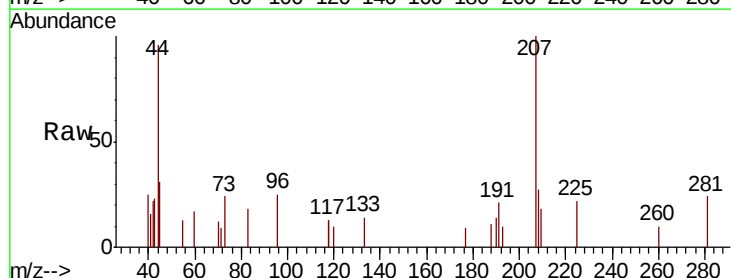
Instrument :
MSVOA_N
ClientSampled :

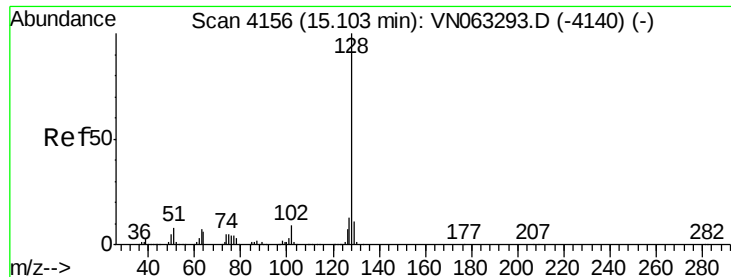
Tot Ion:146 Resp: 1441
Ion Ratio Lower Upper
146 100
111 0.0 21.3 64.0#
148 0.0 31.5 94.5#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 14.98 min Scan# 4118
Delta R.T. -0.00 min
Lab File: VN063309.D
Acq: 11 Sep 2020 13:06

Tgt Ion:225 Resp: 236
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.9#
227 42.8 31.2 93.6





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

Instrument :

MSVOA_N

ClientSampled :

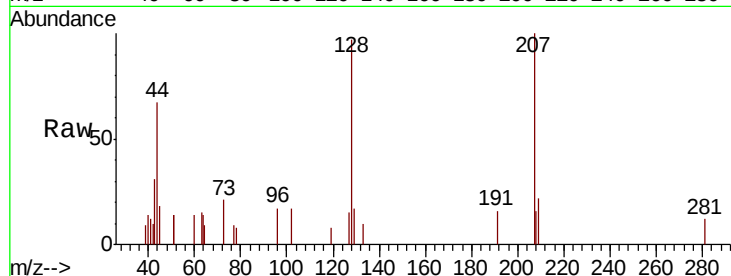
Tot Ion:128 Resp: 4474

Ion Ratio Lower Upper

128 100

127 10.6 10.3 15.5

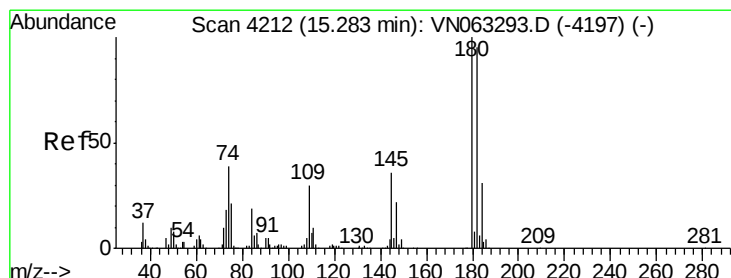
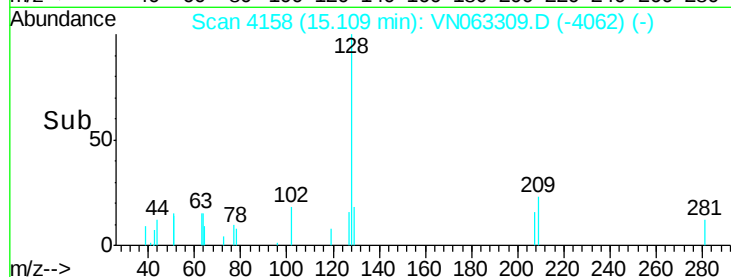
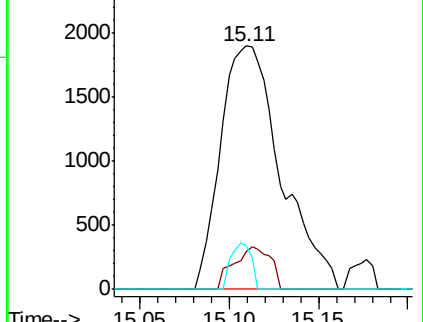
129 6.4 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 15.29 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN063309.D

Acq: 11 Sep 2020 13:06

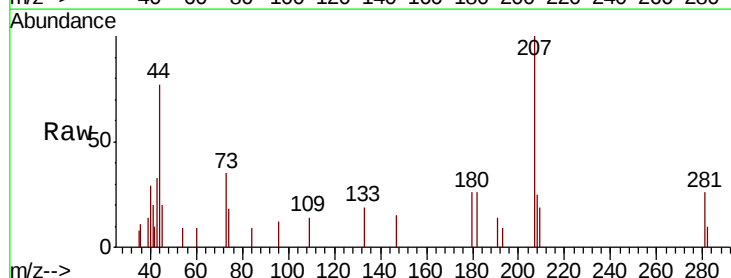
Tgt Ion:180 Resp: 780

Ion Ratio Lower Upper

180 100

182 109.9 47.4 142.3

145 20.4 17.2 51.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

