

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063306.D
 Acq On : 11 Sep 2020 11:09
 Operator : JC/MD
 Sample : VN0911MBL01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:38:41 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	430009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	799286	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	756835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	306660	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	327025	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
35) Dibromofluoromethane	7.55	113	253046	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
50) Toluene-d8	10.06	98	1015831	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.38	95	370868	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	

Target Compounds

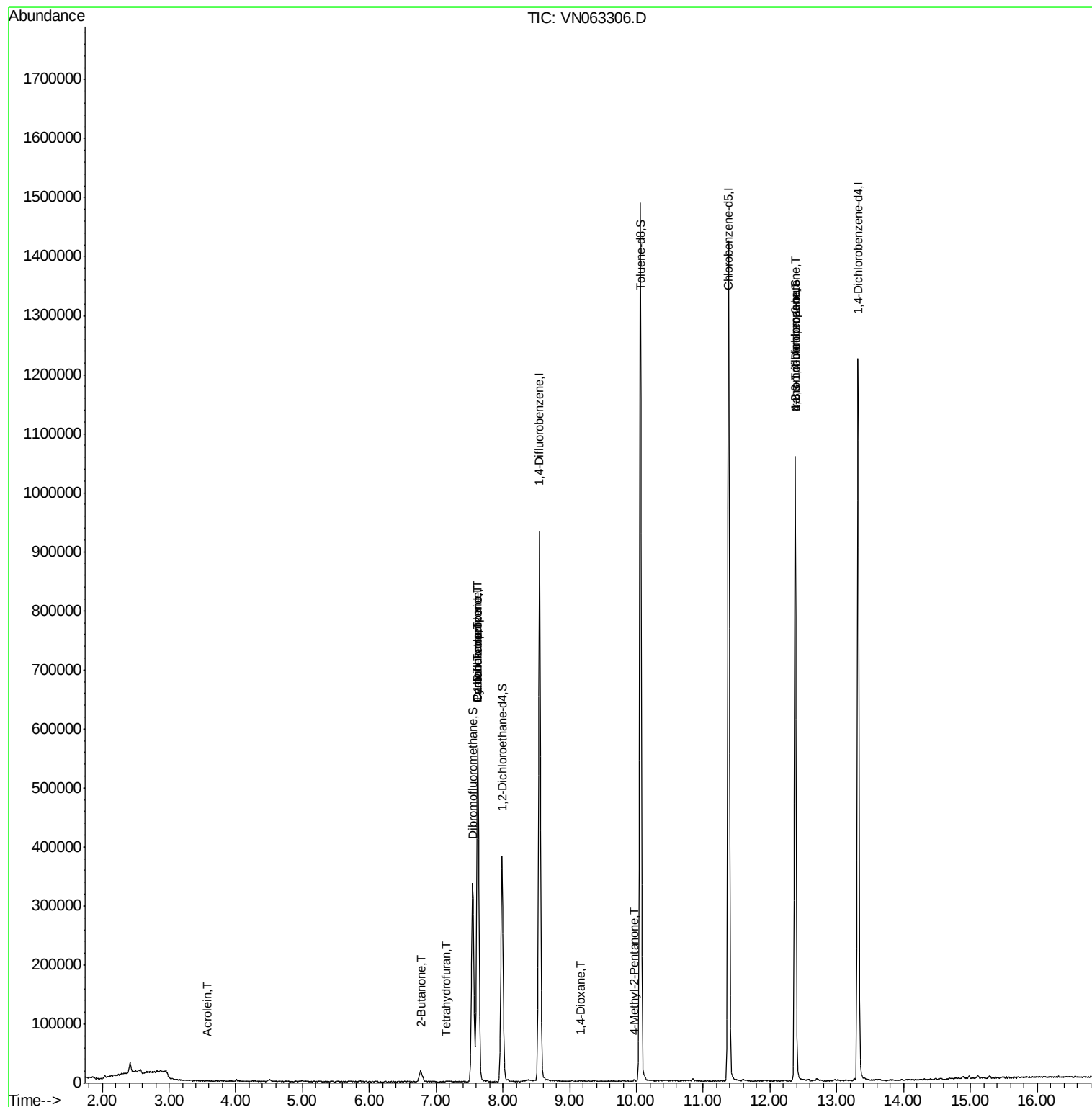
					Qvalue	
3) Chloromethane	2.03	50	2004	Below Cal		94
13) Acrolein	3.56	56	224	32.858 ug/l #		32
17) Carbon Disulfide	4.02	76	2893	Below Cal #		75
20) Methylene Chloride	4.50	84	1379	Below Cal #		62
25) 2-Butanone	6.78	43	949	0.275 ug/l #		51
29) Tetrahydrofuran	7.16	42	525	0.234 ug/l #		37
31) Cyclohexane	7.63	56	12434	1.312 ug/l #		26
36) 1,1-Dichloropropene	7.62	75	39385	4.794 ug/l #		46
38) Carbon Tetrachloride	7.62	117	45170	5.586 ug/l #		16
49) 1,4-Dioxane	9.16	88	61	0.603 ug/l #		1
51) 4-Methyl-2-Pentanone	9.96	43	1585	0.210 ug/l		92
76) 1,2,3-Trichloropropane	12.38	75	203387	30.063 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.38	75	203387	80.773 ug/l #		9
88) 1,4-Dichlorobenzene	13.26	146	915	Below Cal		95
94) Hexachlorobutadiene	14.98	225	714	Below Cal		82
95) Naphthalene	15.11	128	5534	Below Cal #		93
96) 1,2,3-Trichlorobenzene	15.29	180	1236	Below Cal #		81

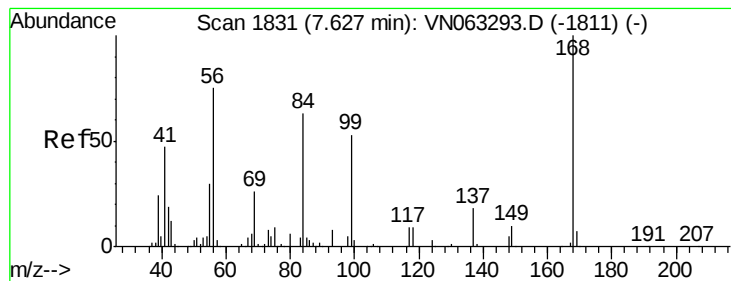
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

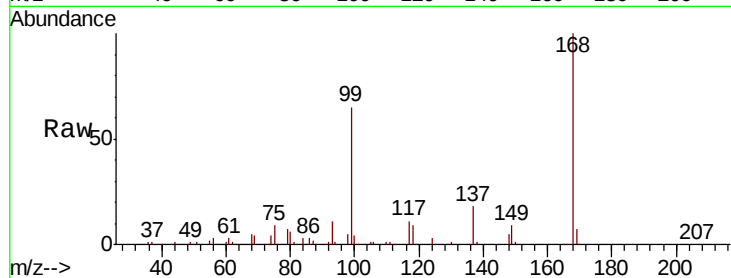
ClientSampled :

Tot Ion:168 Resp: 430009

Ion Ratio Lower Upper

168 100

99 65.1 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): VN063306.D

Ion 98.90 (98.60 to 99.60): VN063306.D

7.62

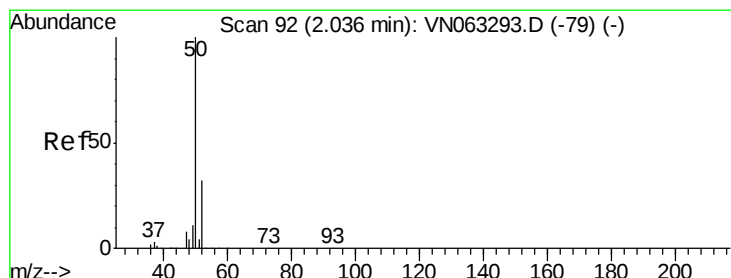
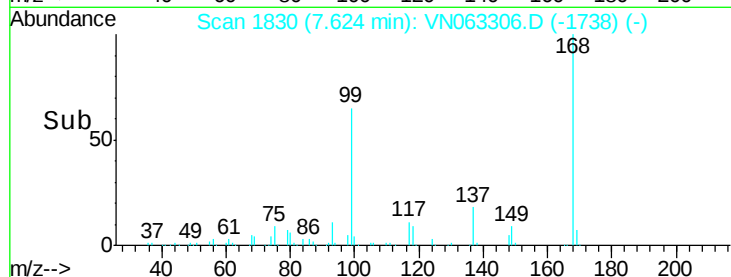
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 90

Delta R.T. -0.01 min

Lab File: VN063306.D

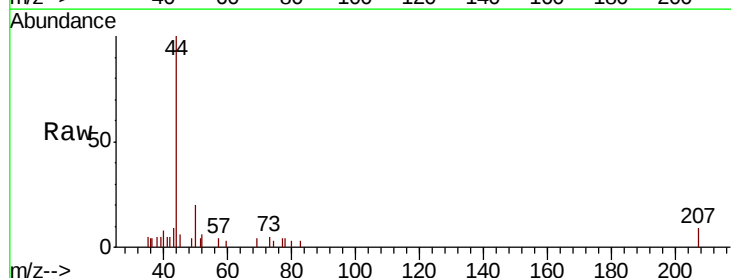
Acq: 11 Sep 2020 11:09

Tgt Ion: 50 Resp: 2004

Ion Ratio Lower Upper

50 100

52 28.4 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VN063306.D

Ion 51.90 (51.60 to 52.60): VN063306.D

2.03

1200

1000

800

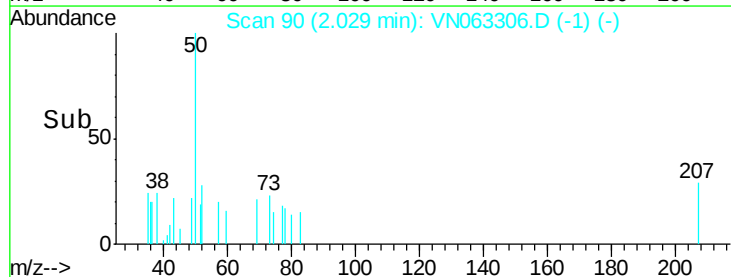
600

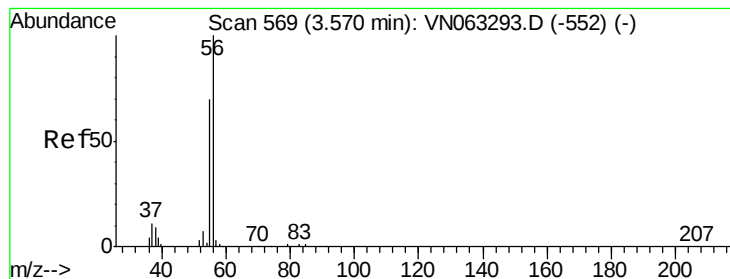
400

200

0

Time--> 2.00 2.05





#13

Acrolein

Concen: 32.858 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

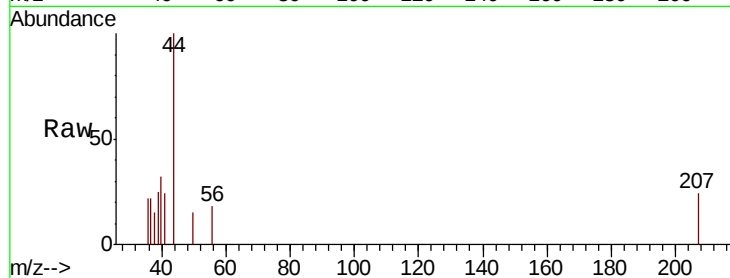
ClientSampled :

Tot Ion: 56 Resp: 224

Ion Ratio Lower Upper

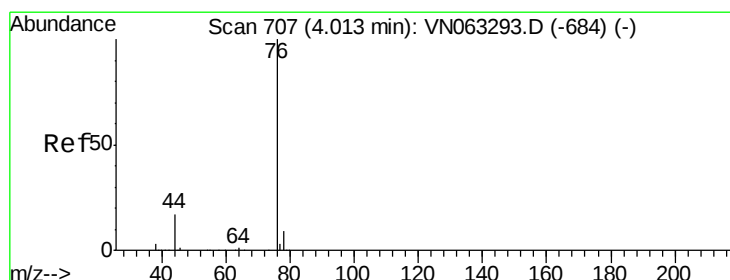
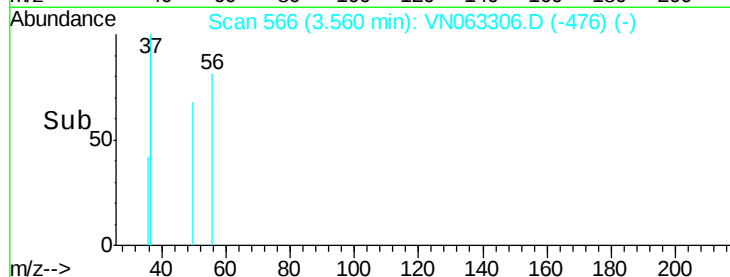
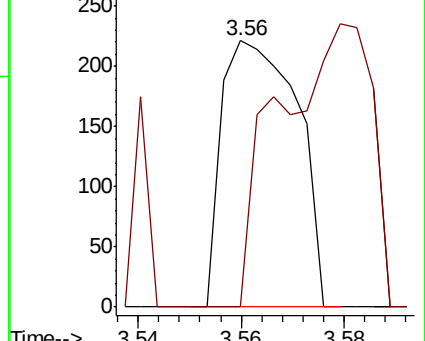
56 100

55 15.2 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063306.D

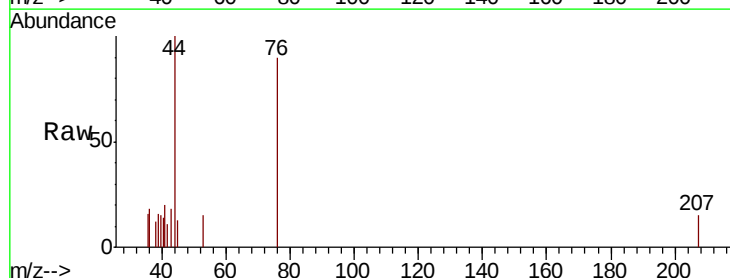
Acq: 11 Sep 2020 11:09

Tgt Ion: 76 Resp: 2893

Ion Ratio Lower Upper

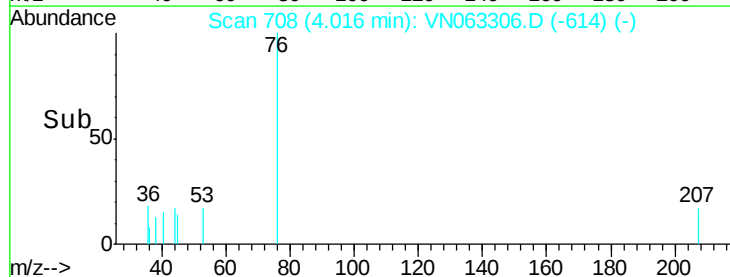
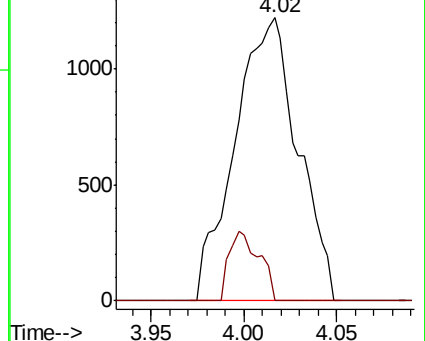
76 100

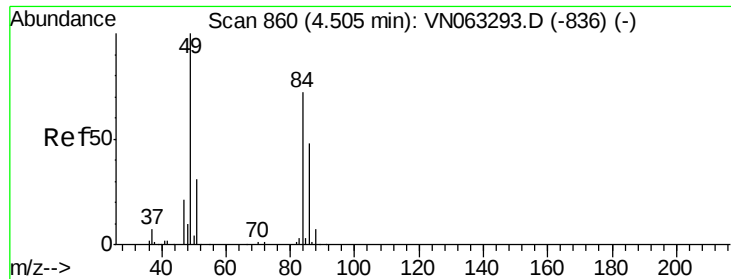
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 858

Delta R.T. -0.01 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1379

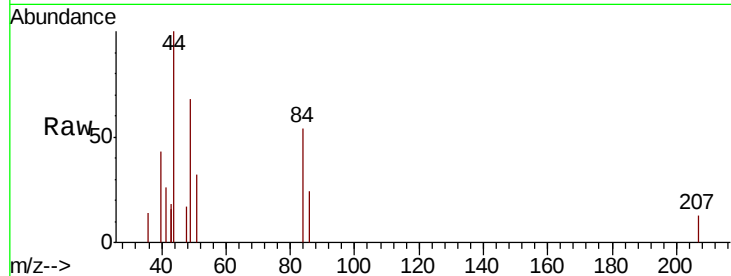
Ion Ratio Lower Upper

84 100

49 82.9 111.1 166.7#

51 57.9 34.3 51.5#

86 43.4 52.9 79.3#

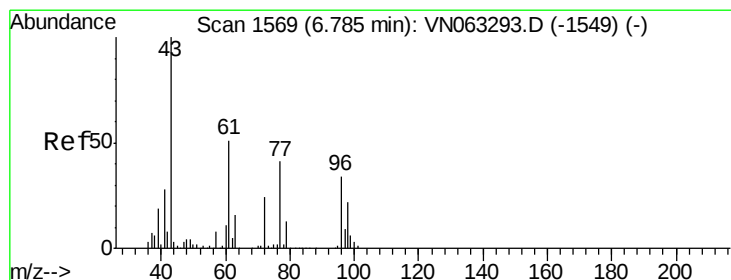
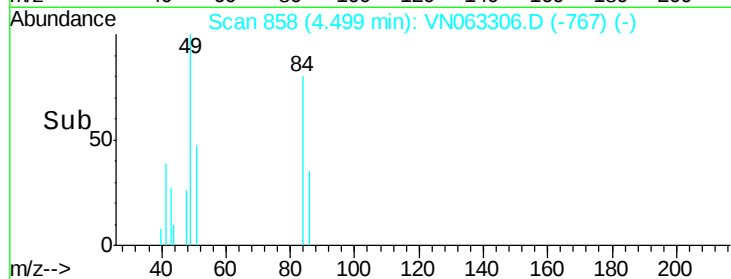
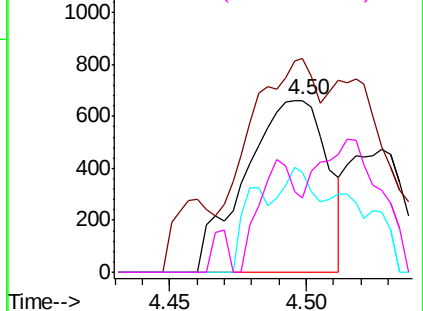


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 0.275 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN063306.D

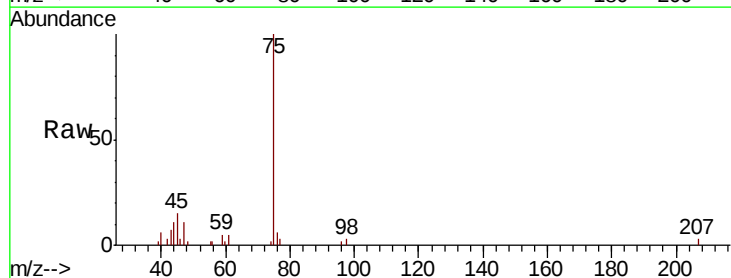
Acq: 11 Sep 2020 11:09

Tgt Ion: 43 Resp: 949

Ion Ratio Lower Upper

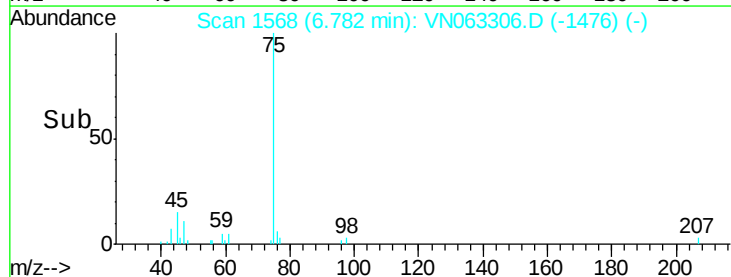
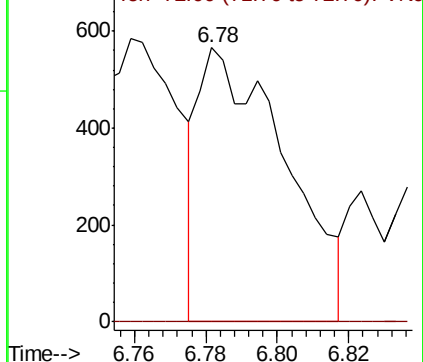
43 100

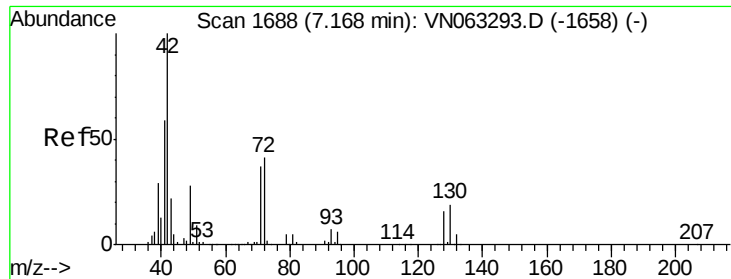
72 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.234 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

ClientSampled :

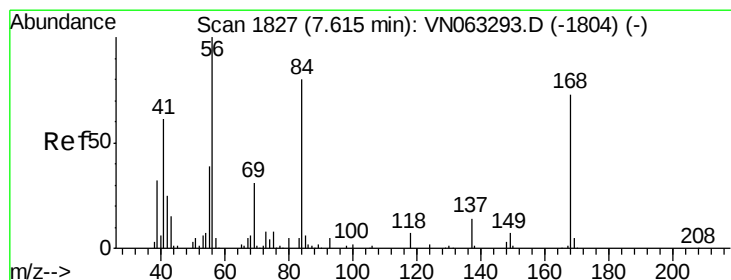
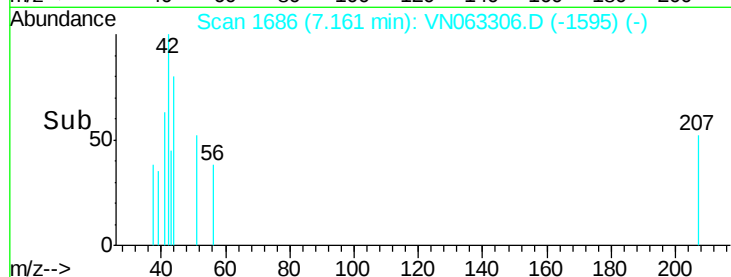
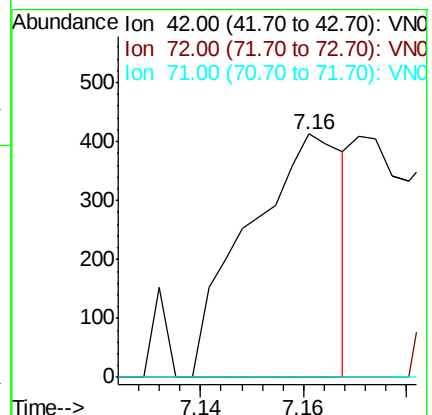
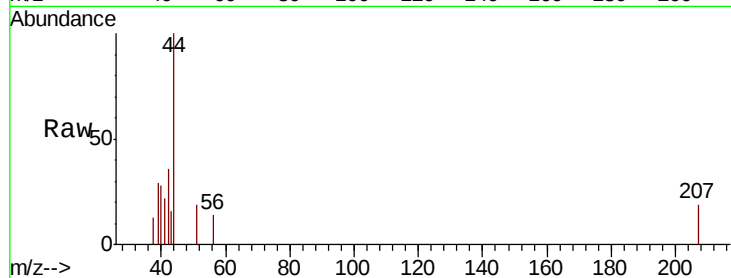
Tot Ion: 42 Resp: 525

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 30.0 45.0#



#31

Cyclohexane

Concen: 1.312 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

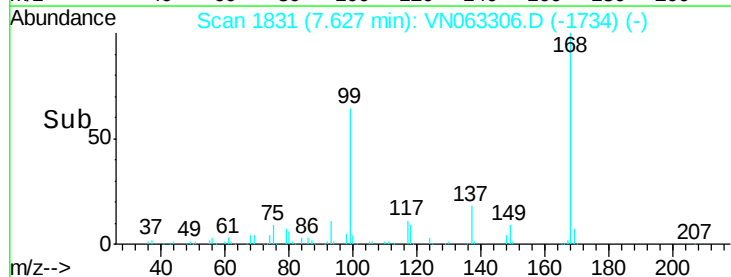
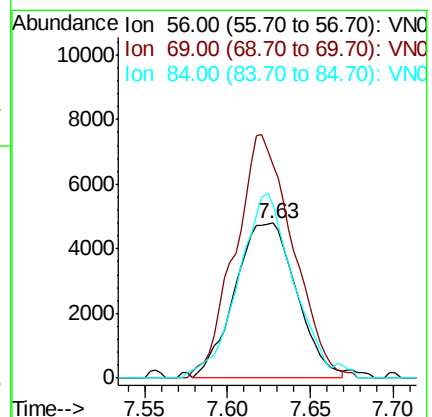
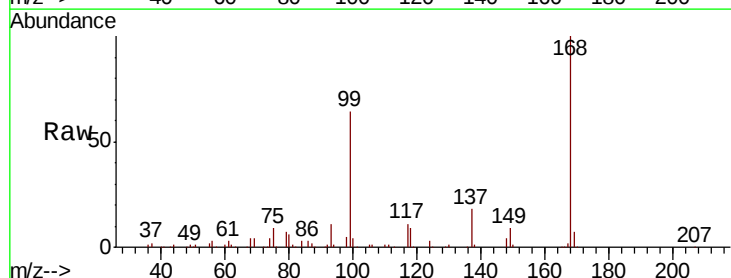
Tgt Ion: 56 Resp: 12434

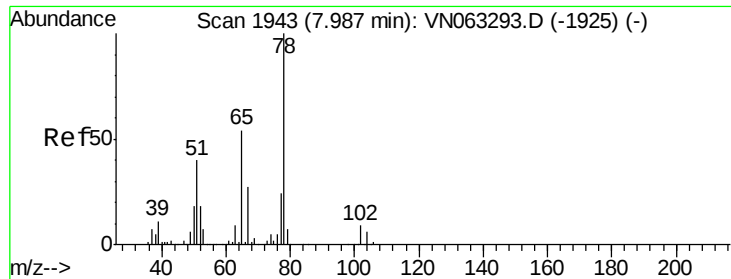
Ion Ratio Lower Upper

56 100

69 133.1 25.1 37.7#

84 107.0 64.2 96.2#





#33

1,2-Dichloroethane-d4

Concen: 48.405 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

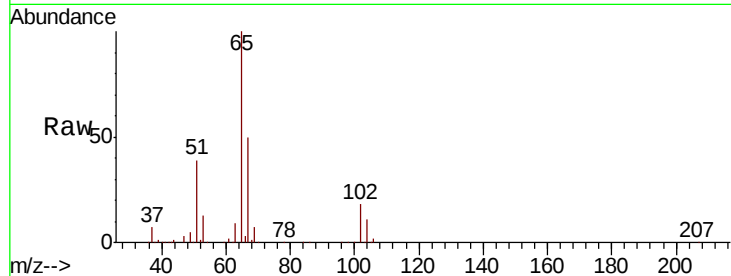
ClientSampleId :

Tot Ion: 65 Resp: 327025

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN063306.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063306.D (-1850) (-)

7.99

150000

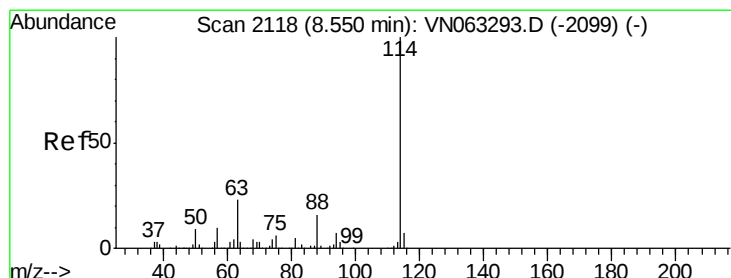
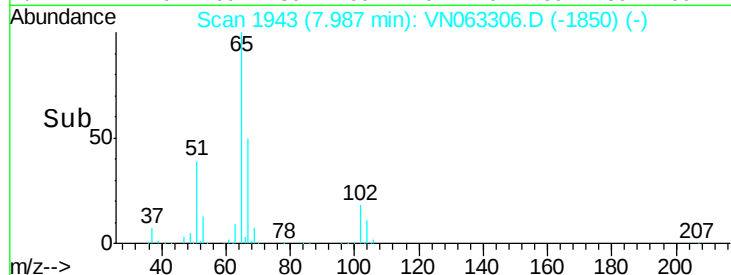
100000

50000

0

7.90 7.95 8.00 8.05

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

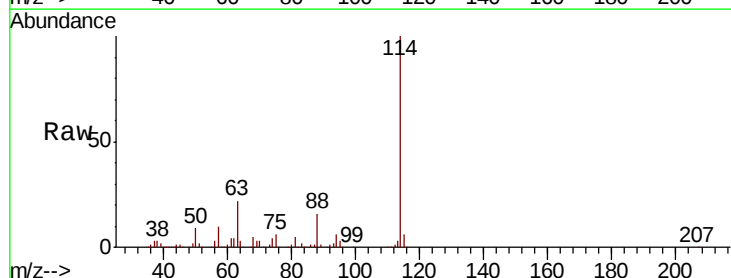
Tgt Ion: 114 Resp: 799286

Ion Ratio Lower Upper

114 100

63 21.8 0.0 46.0

88 16.3 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): VN063306.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN063306.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN063306.D (-2025) (-)

8.55

500000

400000

300000

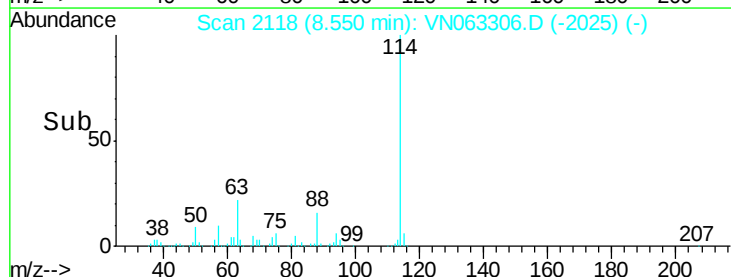
200000

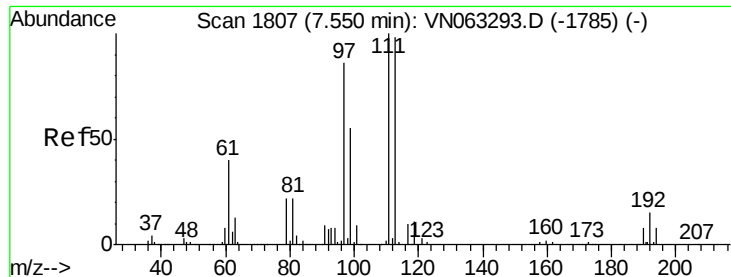
100000

0

8.50 8.55 8.60

Time-->

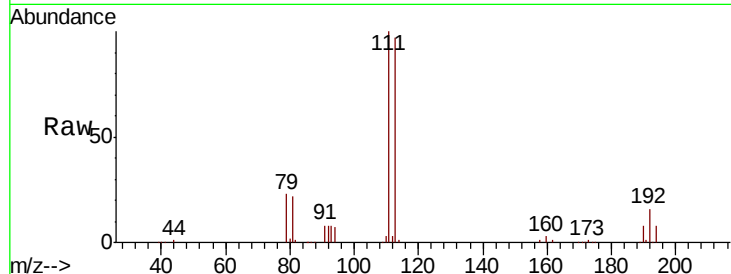




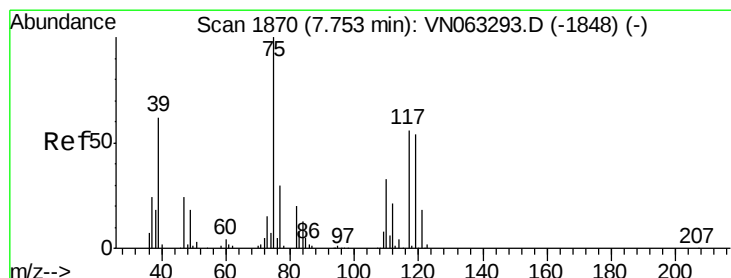
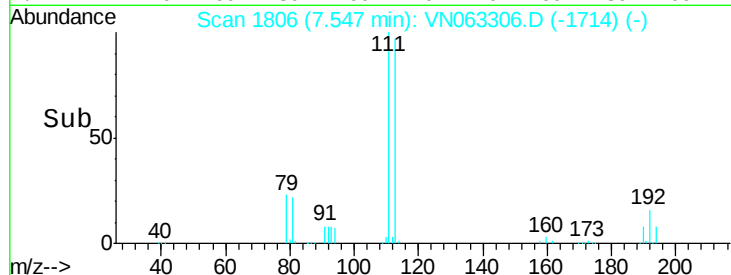
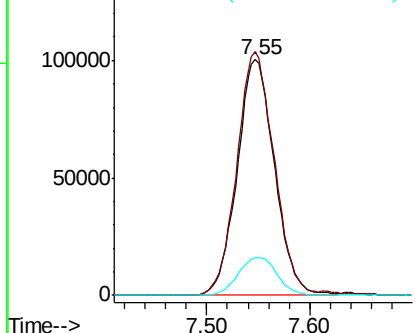
#35
 Dibromofluoromethane
 Concen: 49.074 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063306.D
 Acq: 11 Sep 2020 11:09

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.2
192	16.7	12.9	19.3

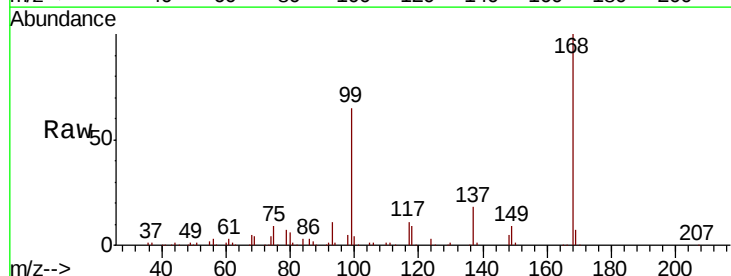


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

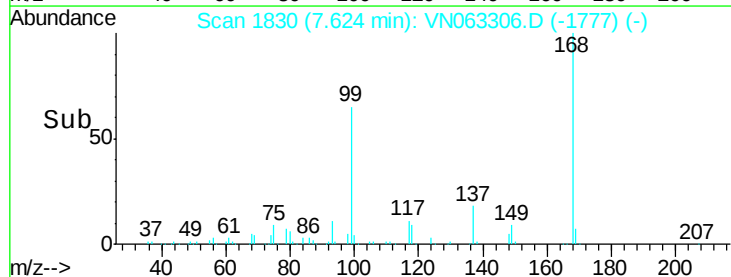
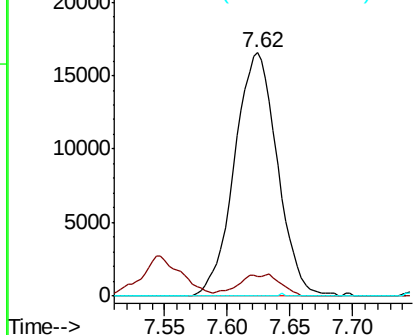


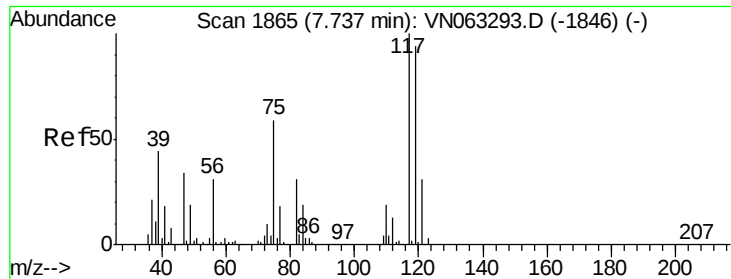
#36
 1,1-Dichloropropene
 Concen: 4.794 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063306.D
 Acq: 11 Sep 2020 11:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.2	16.4	49.4#
77	0.0	24.8	37.2#



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





#38

Carbon Tetrachloride

Concen: 5.586 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

ClientSampled :

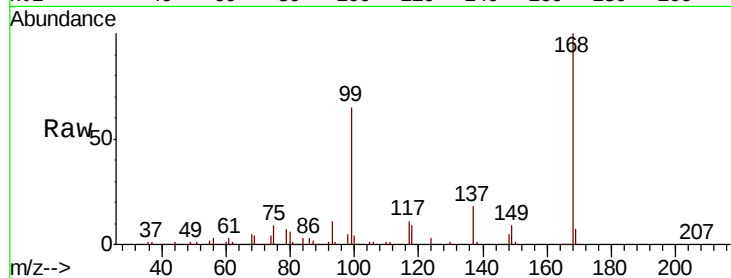
Tot Ion:117 Resp: 45170

Ion Ratio Lower Upper

117 100

119 3.8 75.3 112.9#

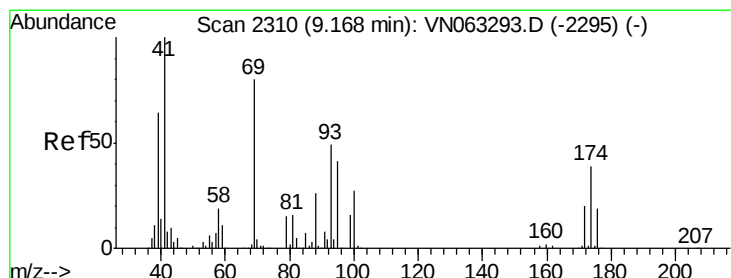
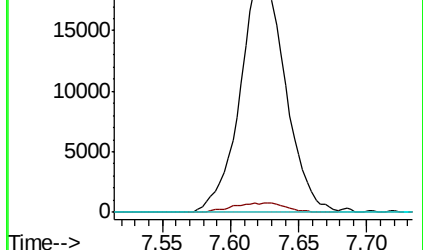
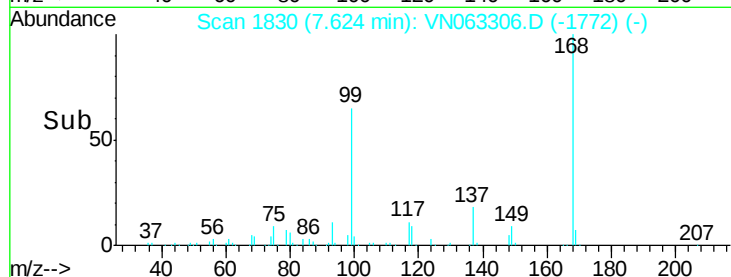
121 0.0 24.6 37.0#



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



#49

1,4-Dioxane

Concen: 0.603 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

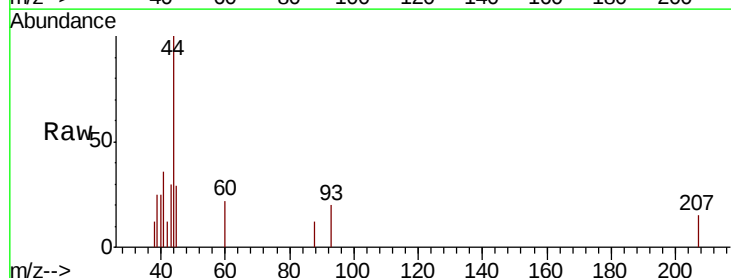
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 239.3 30.5 45.7#

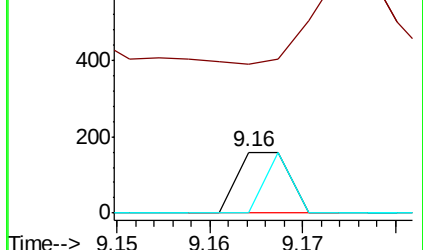
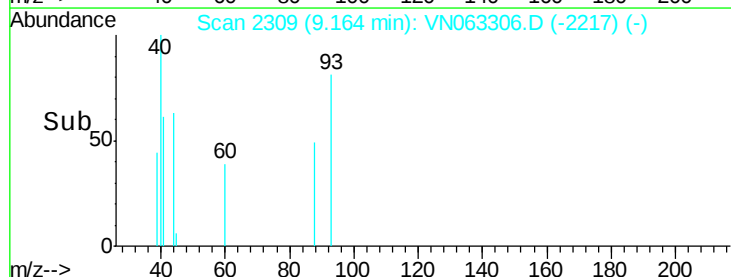
58 49.2 58.9 88.3#

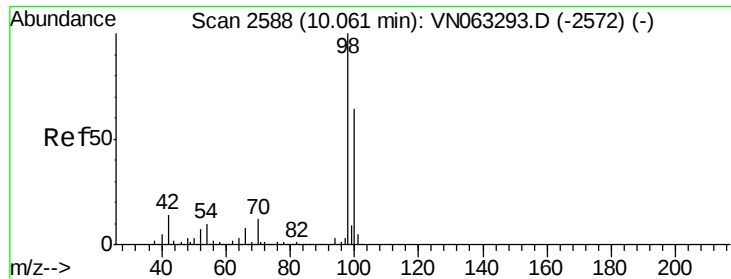


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 51.407 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

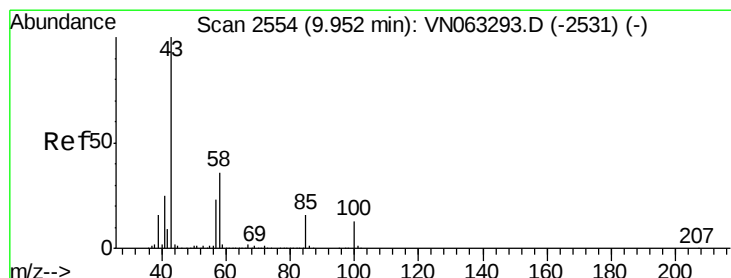
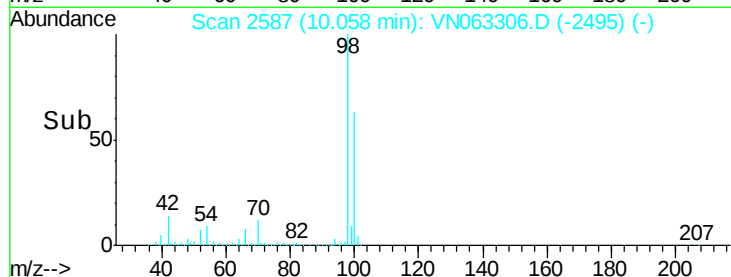
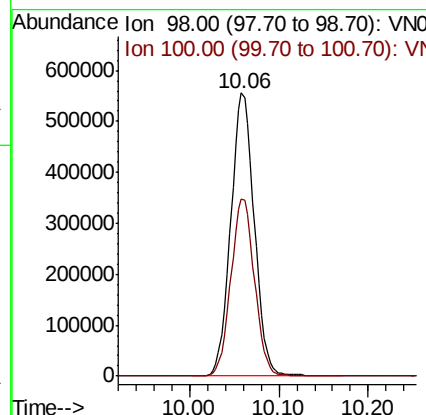
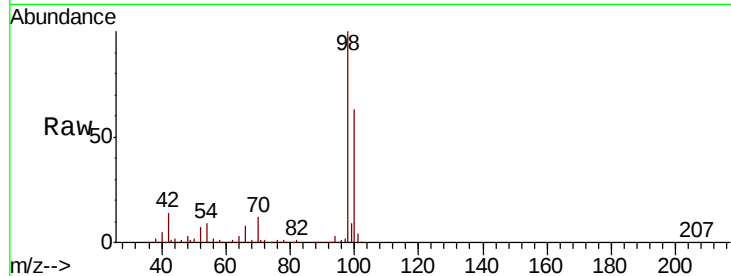
ClientSampled :

Tot Ion: 98 Resp: 1015831

Ion Ratio Lower Upper

98 100

100 62.8 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.210 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN063306.D

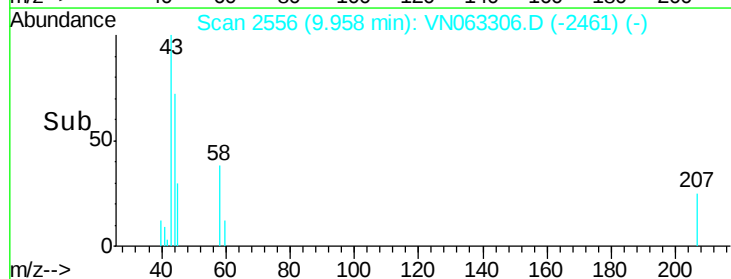
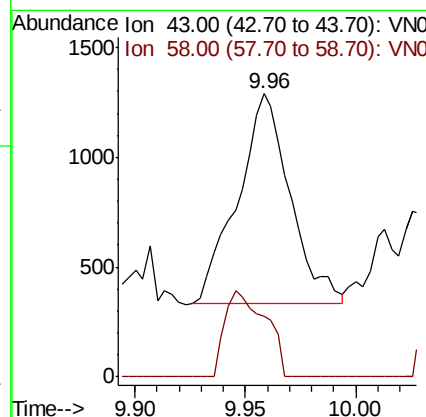
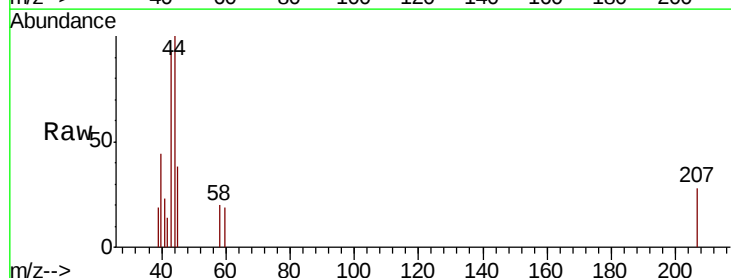
Acq: 11 Sep 2020 11:09

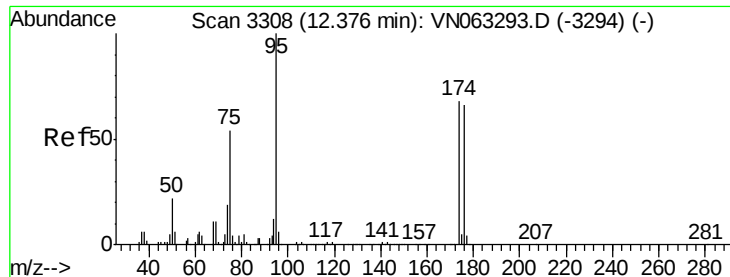
Tgt Ion: 43 Resp: 1585

Ion Ratio Lower Upper

43 100

58 31.3 29.0 43.4





#62

4-Bromofluorobenzene

Concen: 50.814 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

ClientSampleId :

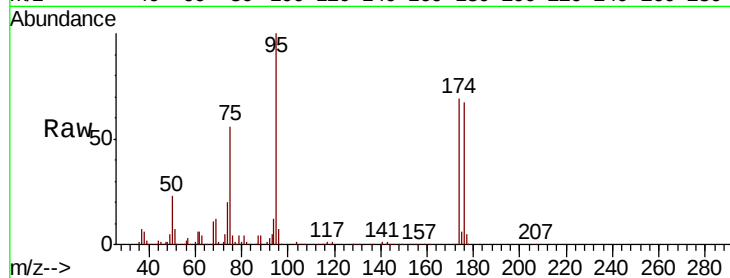
Tot Ion: 95 Resp: 370868

Ion Ratio Lower Upper

95 100

174 69.6 0.0 136.6

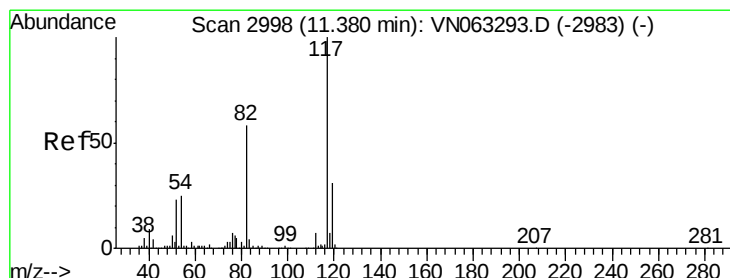
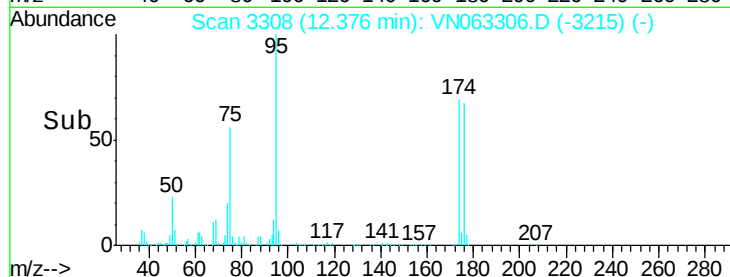
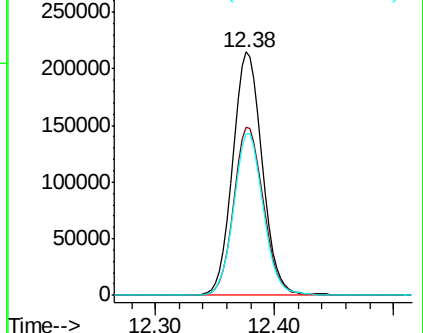
176 66.6 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063306.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063306.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063306.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

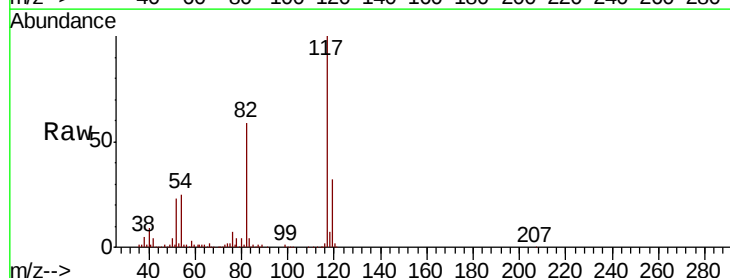
Tgt Ion: 117 Resp: 756835

Ion Ratio Lower Upper

117 100

82 59.1 46.4 69.6

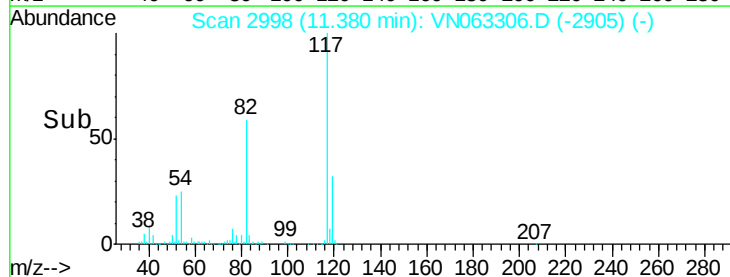
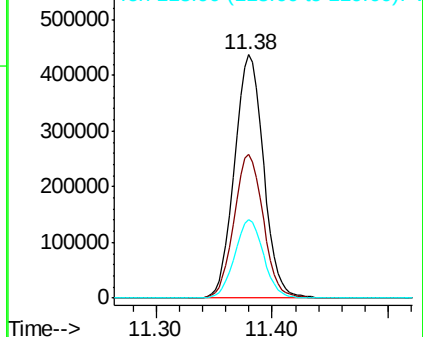
119 32.2 24.8 37.2

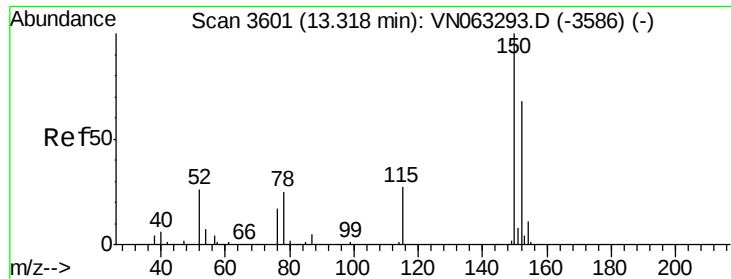


Abundance Ion 116.90 (116.60 to 117.60): VN063306.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063306.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063306.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

ClientSampleId :

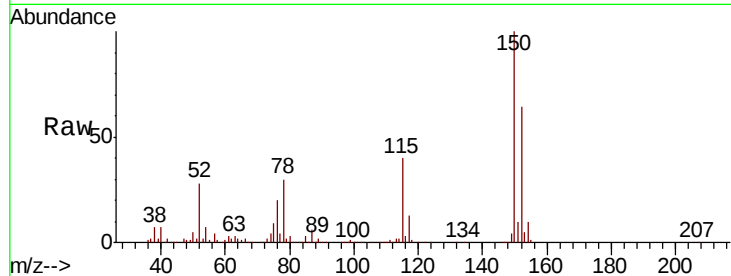
Tot Ion:152 Resp: 306660

Ion Ratio Lower Upper

152 100

115 62.5 31.5 94.5

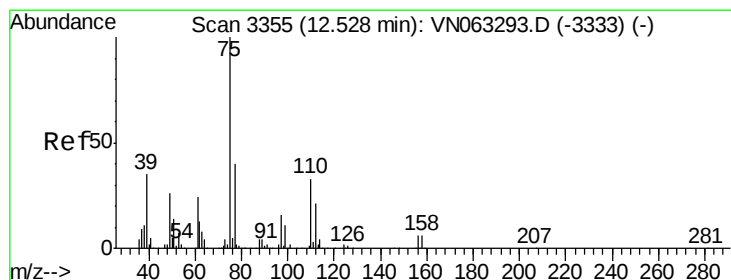
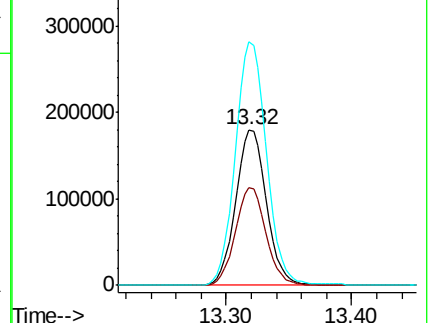
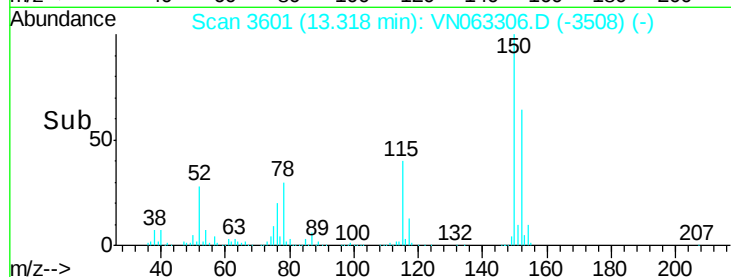
150 158.7 0.0 344.0



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: 30.063 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063306.D

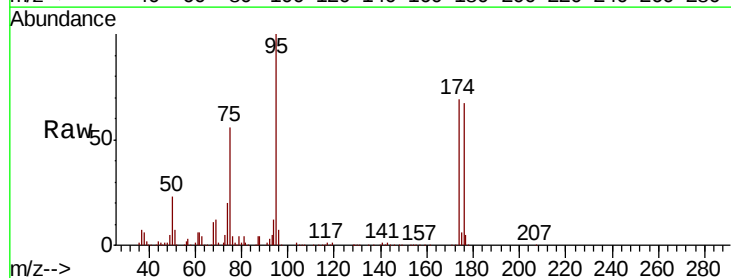
Acq: 11 Sep 2020 11:09

Tgt Ion: 75 Resp: 203387

Ion Ratio Lower Upper

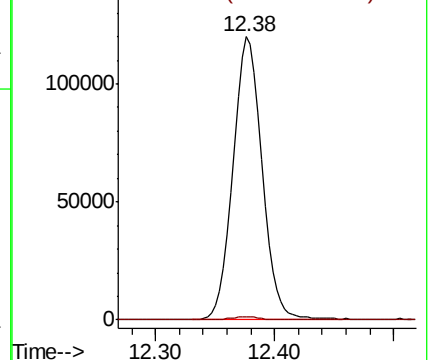
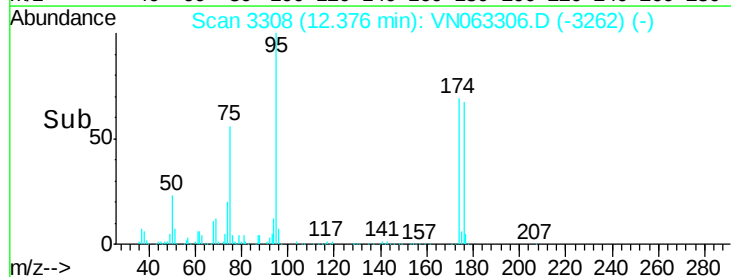
75 100

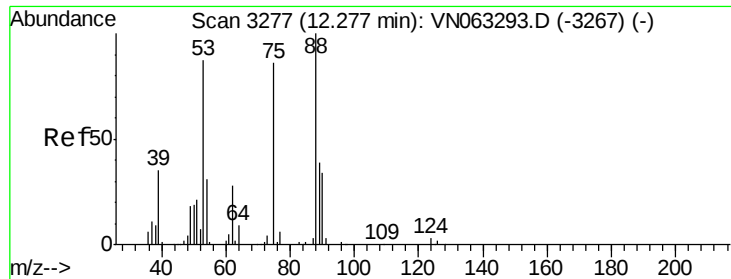
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

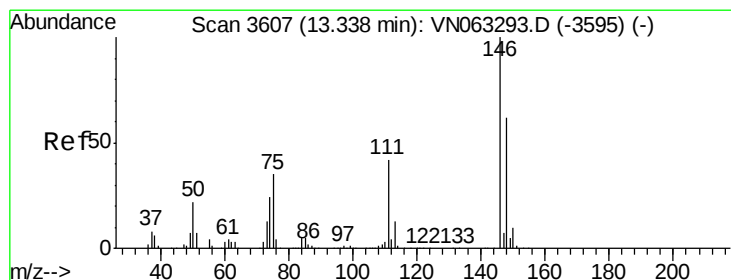
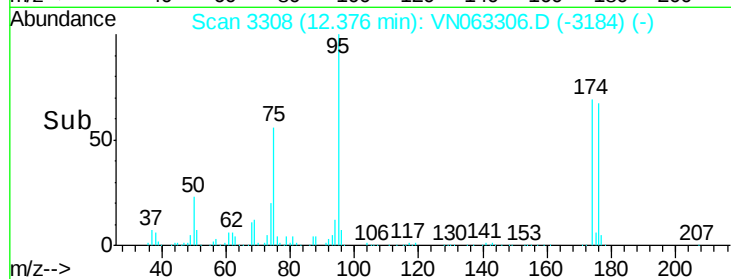
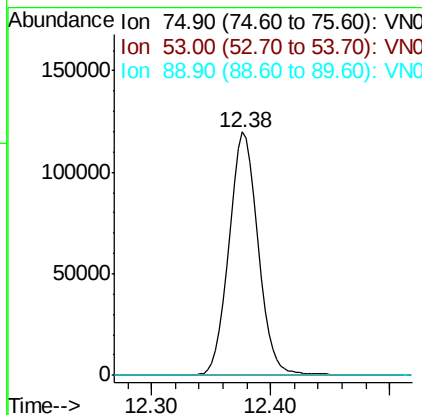
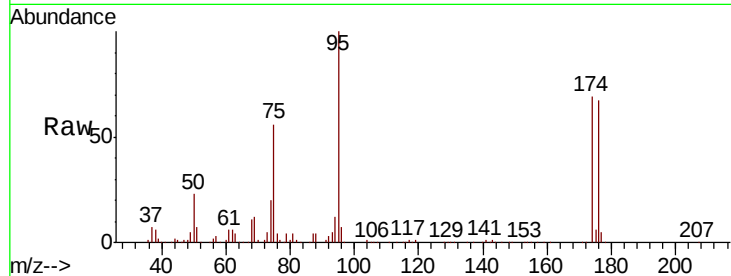




#81
trans-1,4-Dichloro-2-butene
Concen: 80.773 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063306.D
Acq: 11 Sep 2020 11:09

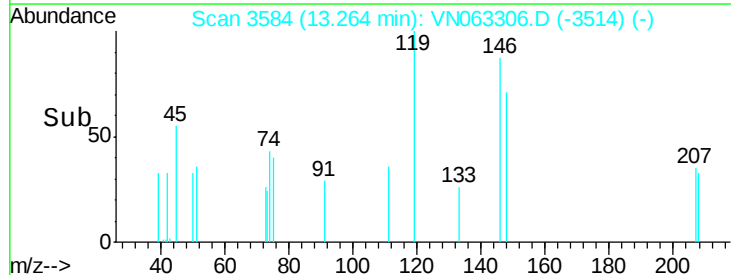
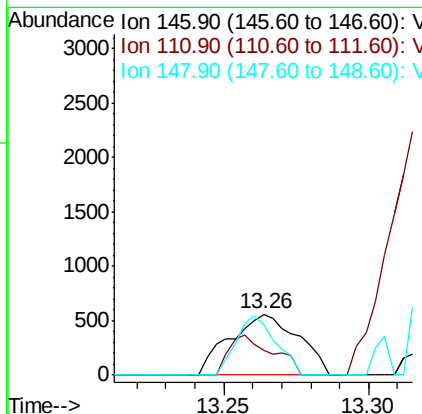
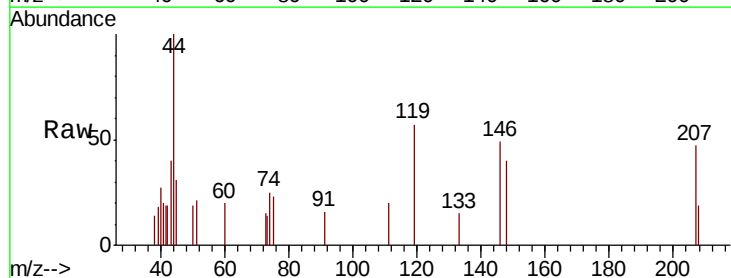
Instrument :
MSVOA_N
ClientSampled :

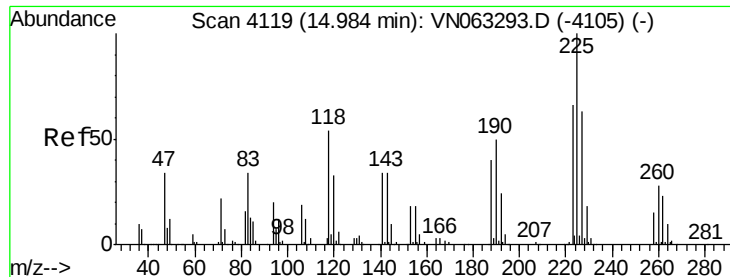
Tot Ion: 75 Resp: 203387
Ion Ratio Lower Upper
75 100
53 0.0 81.8 122.8#
89 0.0 36.7 55.1#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.26 min Scan# 3584
Delta R.T. -0.07 min
Lab File: VN063306.D
Acq: 11 Sep 2020 11:09

Tgt Ion: 146 Resp: 915
Ion Ratio Lower Upper
146 100
111 42.3 21.3 64.0
148 56.2 31.5 94.5





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.98 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

Instrument :

MSVOA_N

ClientSampled :

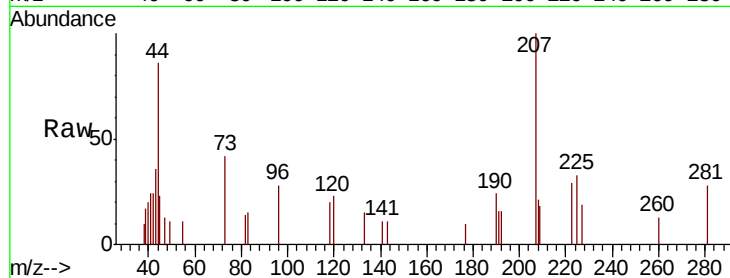
Tot Ion:225 Resp: 714

Ion Ratio Lower Upper

225 100

223 75.1 31.3 93.9

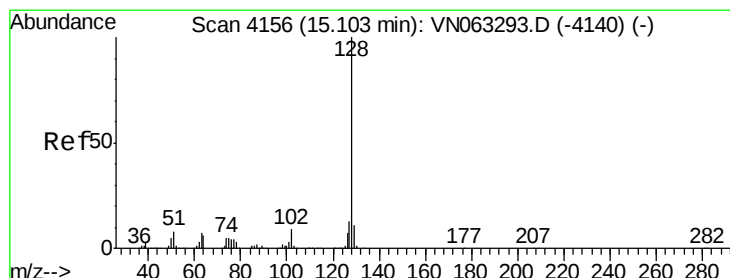
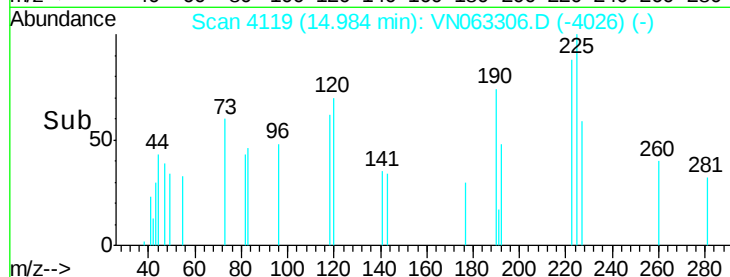
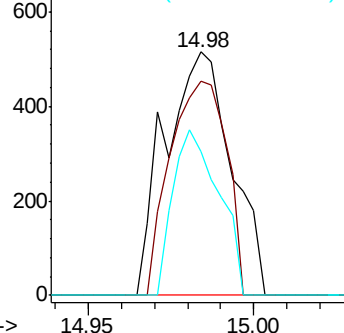
227 47.2 31.2 93.6



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



#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063306.D

Acq: 11 Sep 2020 11:09

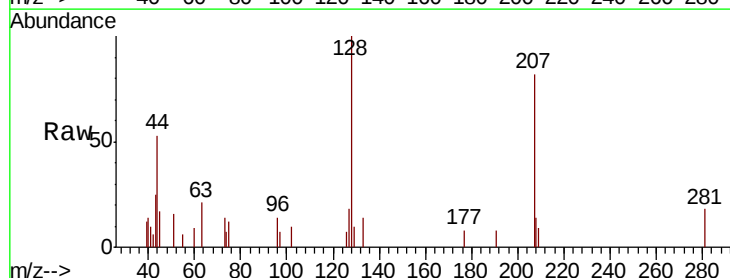
Tgt Ion:128 Resp: 5534

Ion Ratio Lower Upper

128 100

127 11.9 10.3 15.5

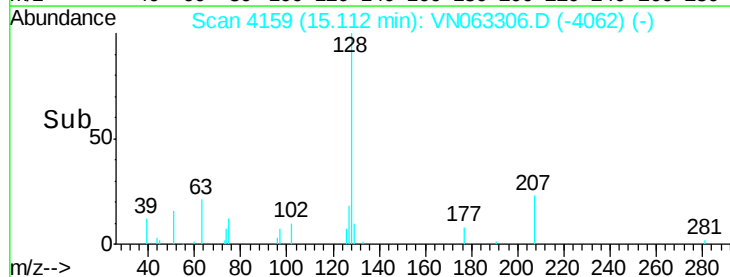
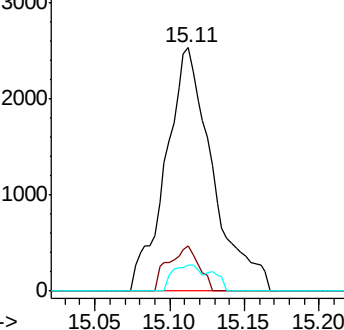
129 6.3 8.6 12.8#

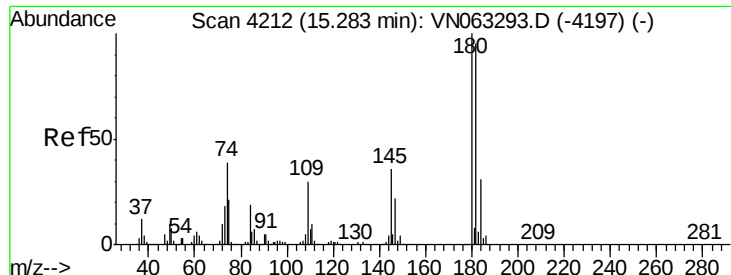


Abundance Ion 128.00 (127.70 to 128.70): V

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# 4213
 Delta R.T. 0.00 min
 Lab File: VN063306.D
 Acq: 11 Sep 2020 11:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.9	47.4	142.3
145	12.7	17.2	51.6

