

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
 Data File : VN059986.D
 Acq On : 4 Feb 2020 11:34
 Operator : JC/MD
 Sample : VN0204MBL01
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 05 01:19:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	303012	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	268946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	104950	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	111319	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
35) Dibromofluoromethane	7.56	113	91140	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
50) Toluene-d8	10.08	98	358481	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.40	95	118760	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	

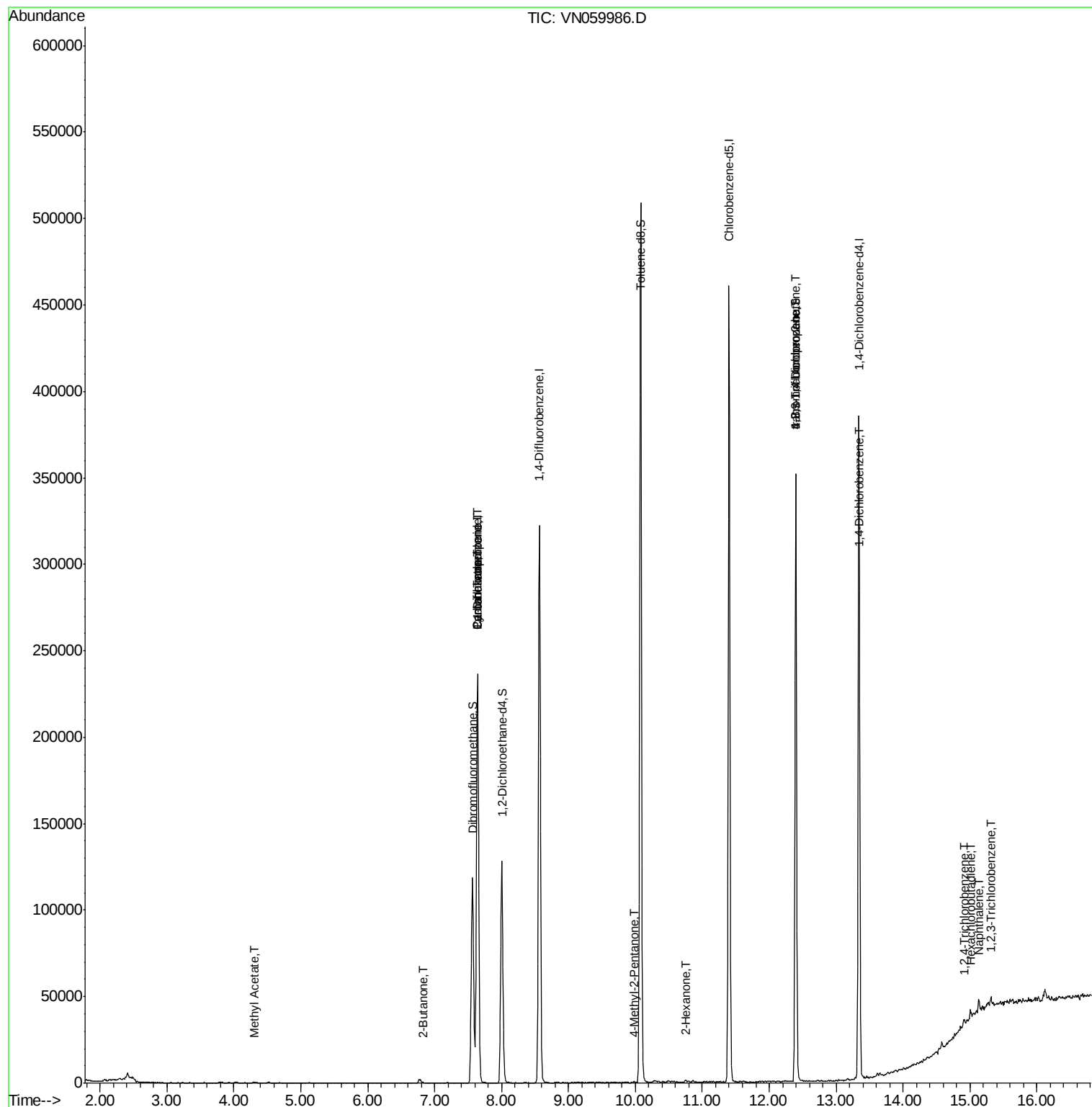
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	557	Below Cal	#	87
18) Methyl Acetate	4.31	43	972	0.374	ug/l #	54
20) Methylene Chloride	4.51	84	189	Below Cal	#	4
25) 2-Butanone	6.83	43	372	0.295	ug/l #	50
31) Cyclohexane	7.64	56	3866	1.175	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14236	5.395	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18367	6.399	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	655	0.266	ug/l #	63
59) 2-Hexanone	10.75	43	825	0.455	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	60727	34.383	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	60727	73.837	ug/l #	11
88) 1,4-Dichlorobenzene	13.36	146	753	0.223	ug/l #	36
92) 1,2-Dibromo-3-Chloropropan	14.27	75	258	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	1299	0.646	ug/l	95
94) Hexachlorobutadiene	15.00	225	602	0.543	ug/l #	70
95) Naphthalene	15.13	128	5805	1.015	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	2133	1.090	ug/l	95

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN020420\
Data File : VN059986.D
Acq On : 4 Feb 2020 11:34
Operator : JC/MD
Sample : VN0204MBL01
Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 05 01:19:10 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

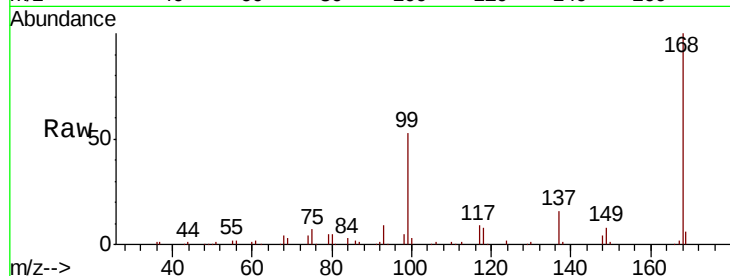
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 200329

Ion Ratio Lower Upper

168 100

99 53.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

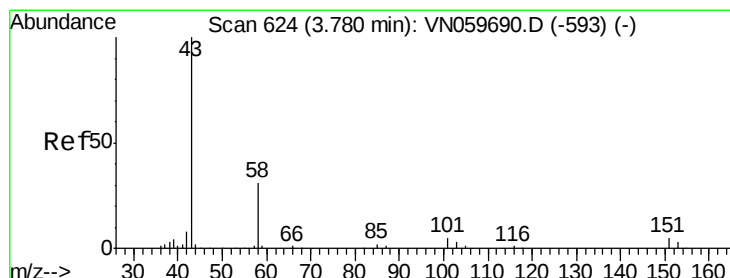
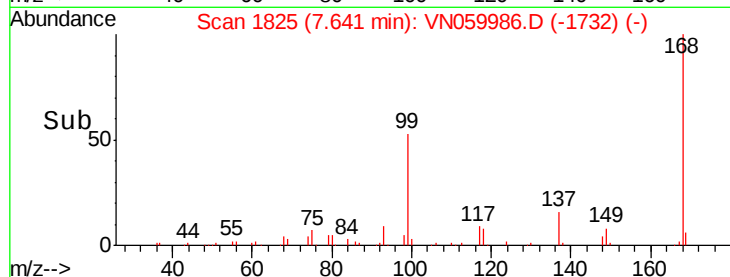
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN059986.D

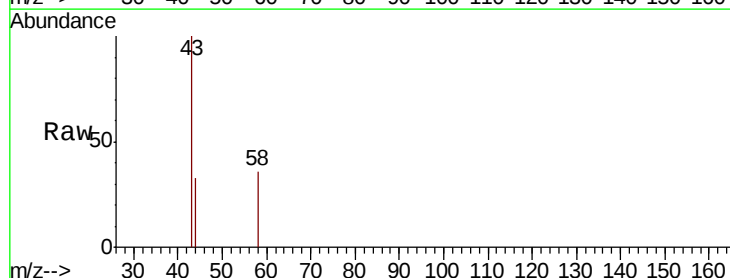
Acq: 4 Feb 2020 11:34

Tgt Ion: 43 Resp: 557

Ion Ratio Lower Upper

43 100

58 36.3 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

500

400

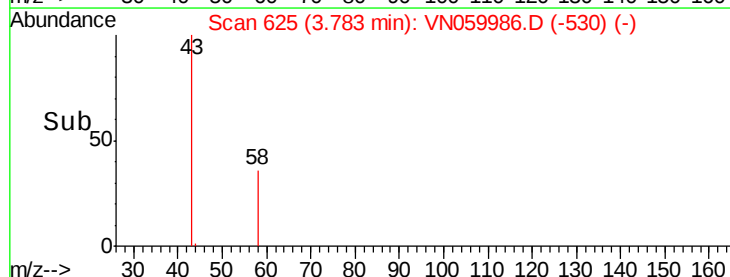
300

200

100

0

Time--> 3.76 3.78

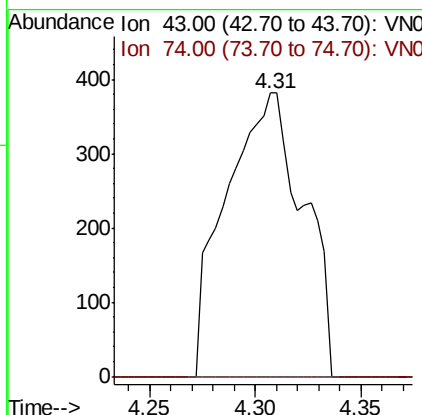
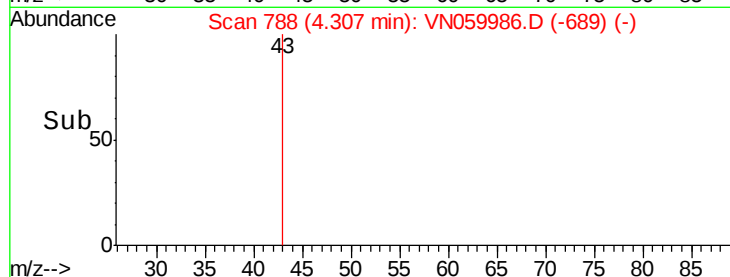
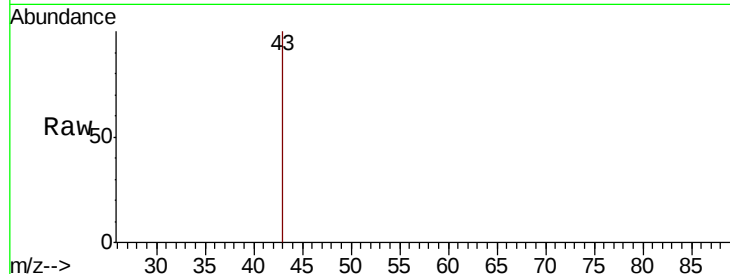




#18
Methyl Acetate
Concen: 0.374 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN059986.D
Acq: 4 Feb 2020 11:34

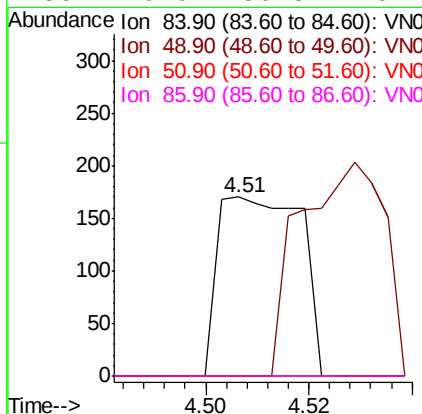
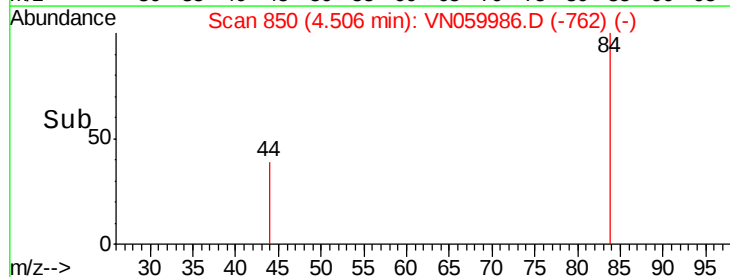
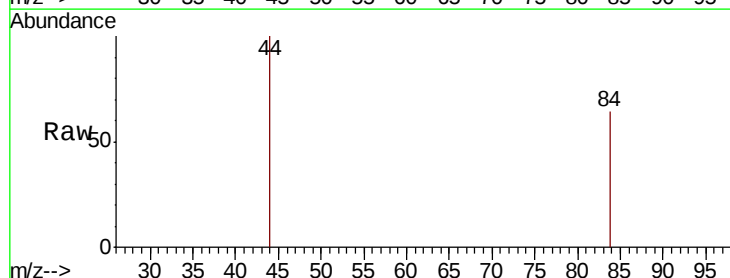
Instrument :
MSVOA_N
ClientSampled :

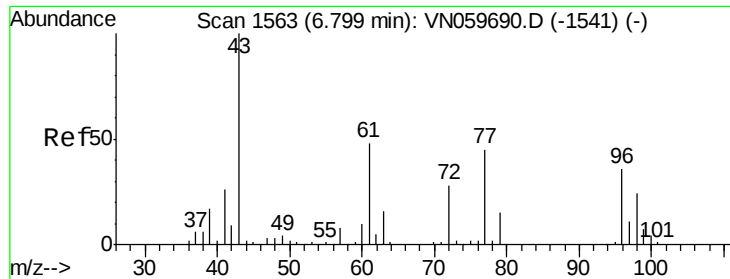
Tot Ion: 43 Resp: 972
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 850
Delta R.T. -0.02 min
Lab File: VN059986.D
Acq: 4 Feb 2020 11:34

Tgt Ion: 84 Resp: 189
Ion Ratio Lower Upper
84 100
49 0.0 106.6 160.0#
51 0.0 31.9 47.9#
86 0.0 50.8 76.2#





#25

2-Butanone

Concen: 0.295 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.03 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :

MSVOA_N

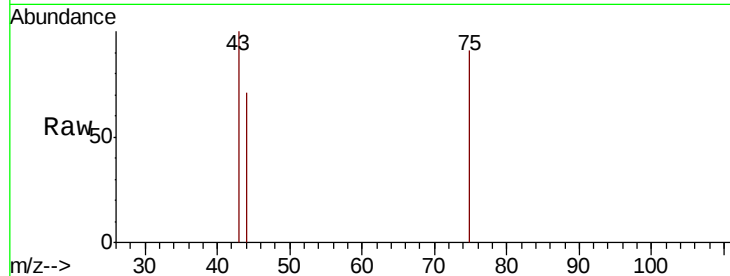
ClientSampled :

Tot Ion: 43 Resp: 372

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.83

250

200

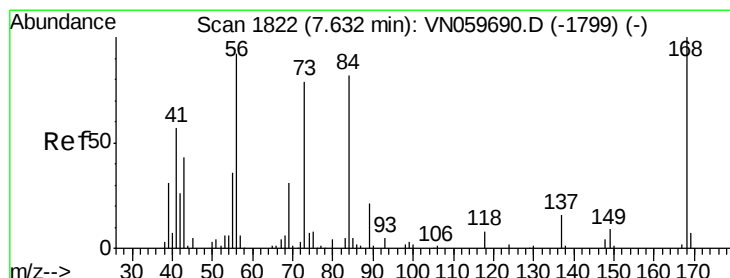
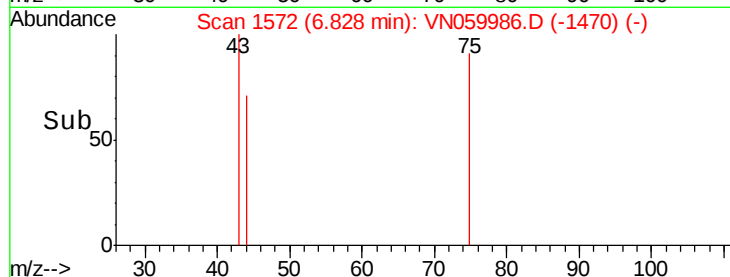
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

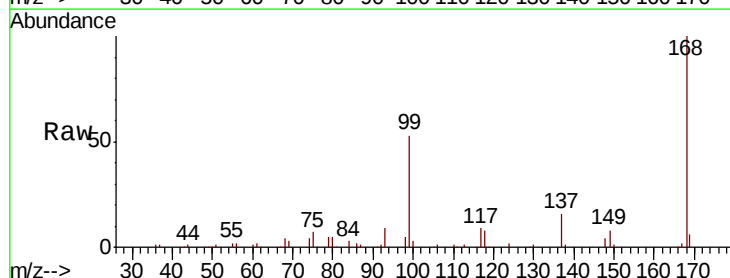
Tgt Ion: 56 Resp: 3866

Ion Ratio Lower Upper

56 100

69 157.7 26.5 39.7#

84 126.2 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

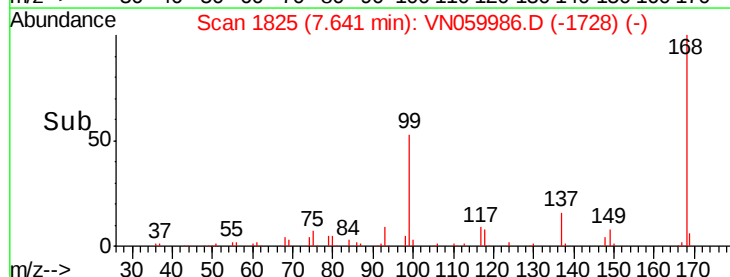
3000

2000

1000

0

Time-->

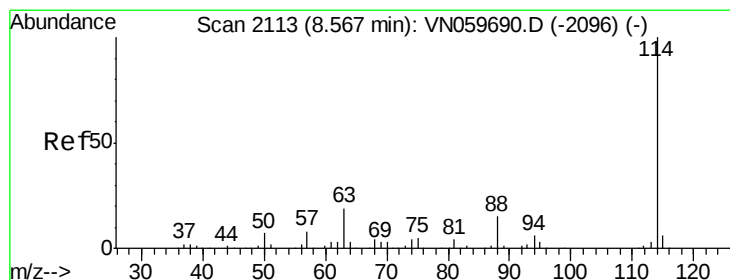
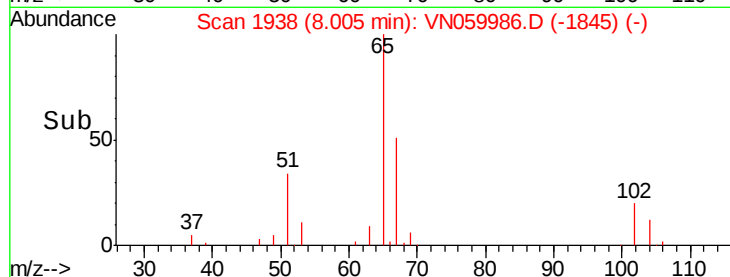
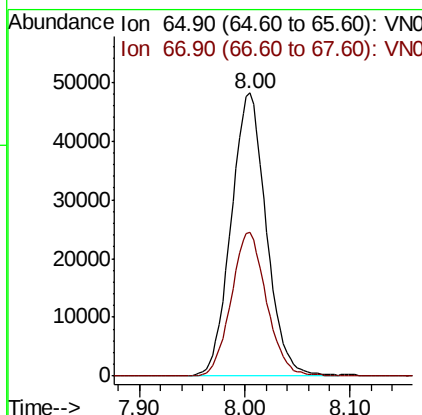
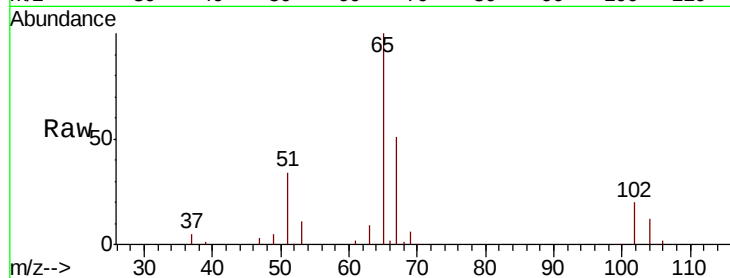




#33
 1,2-Dichloroethane-d4
 Concen: 50.038 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059986.D
 Acq: 4 Feb 2020 11:34

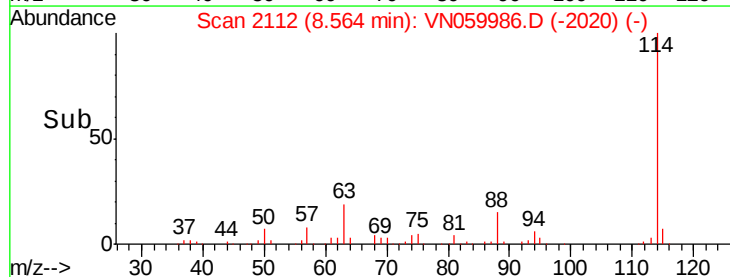
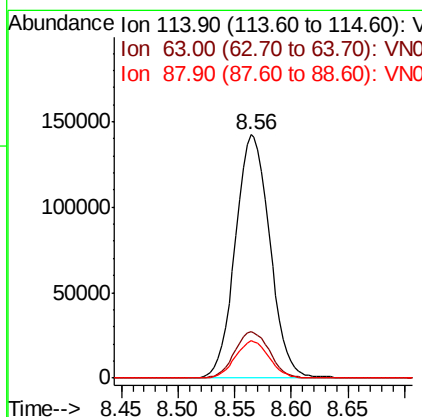
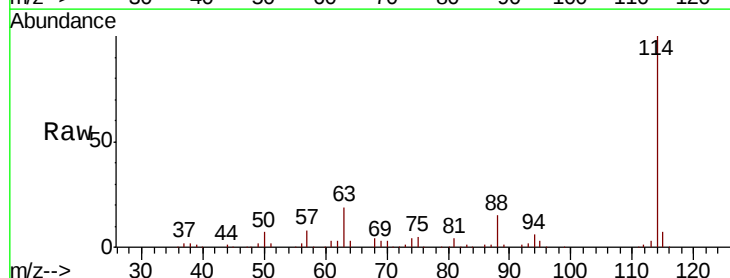
Instrument :
 MSVOA_N
 ClientSampleId :

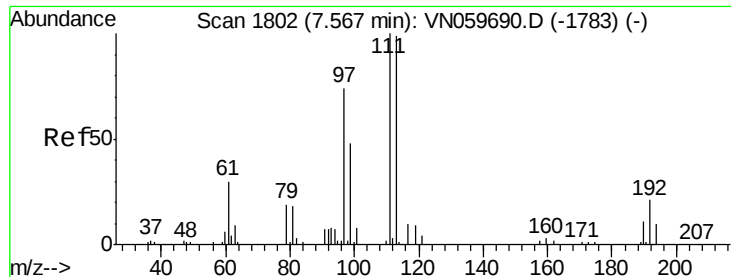
Tot Ion: 65 Resp: 111319
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN059986.D
 Acq: 4 Feb 2020 11:34

Tgt Ion: 114 Resp: 303012
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 43.6
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.437 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :
MSVOA_N
ClientSampled :

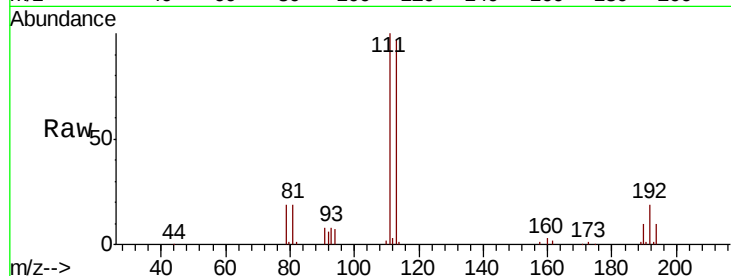
Tot Ion:113 Resp: 91140

Ion Ratio Lower Upper

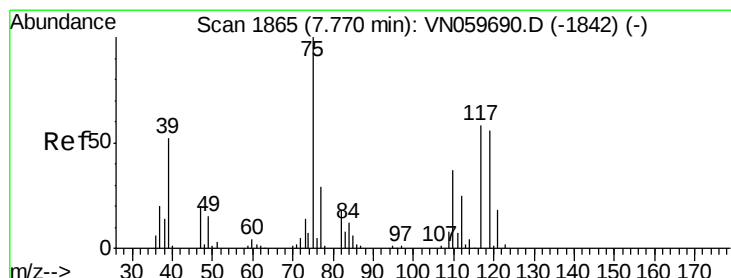
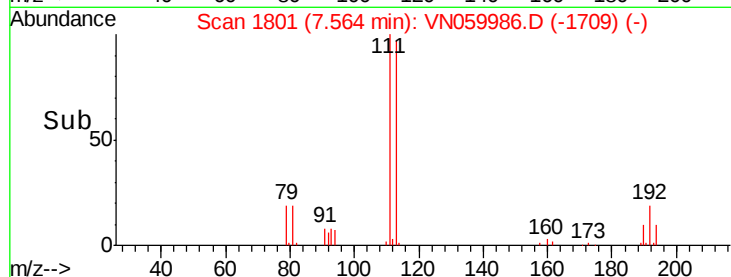
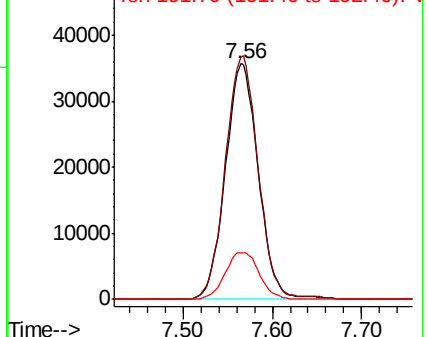
113 100

111 102.7 83.5 125.3

192 20.5 15.4 23.2



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: 5.395 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

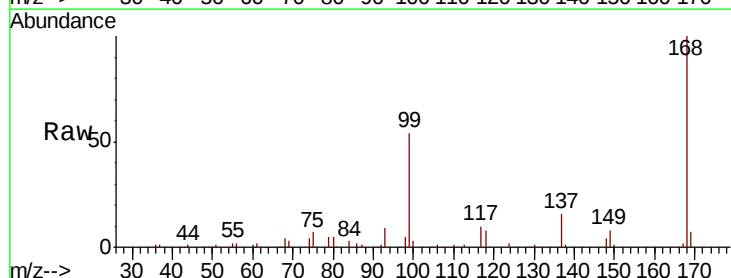
Tgt Ion: 75 Resp: 14236

Ion Ratio Lower Upper

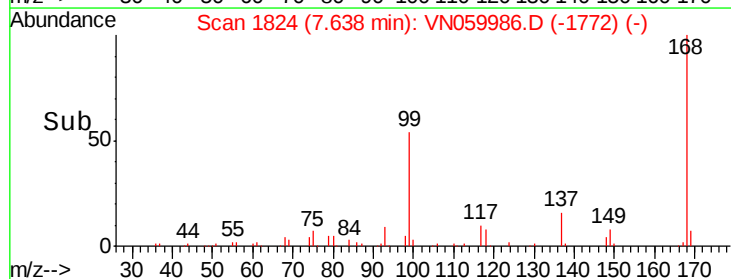
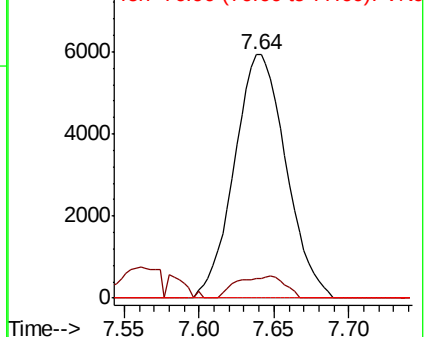
75 100

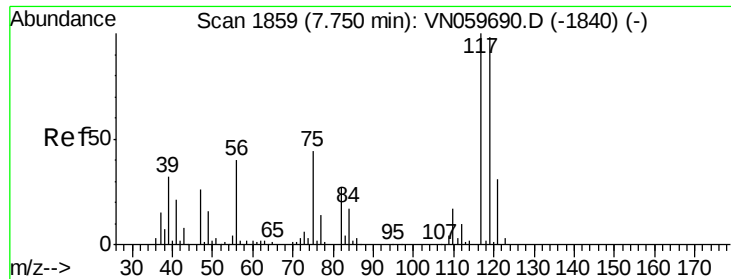
110 8.4 16.6 49.7#

77 0.0 25.1 37.7#



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

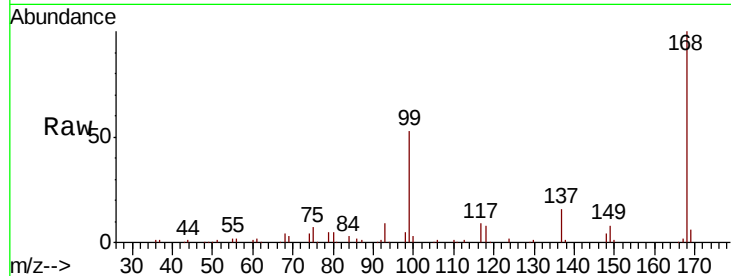




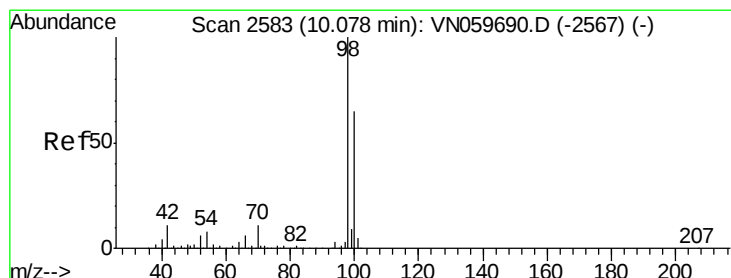
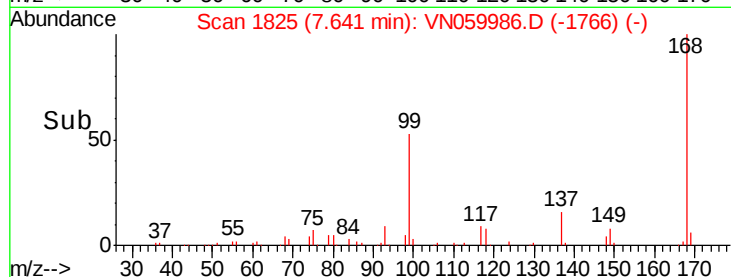
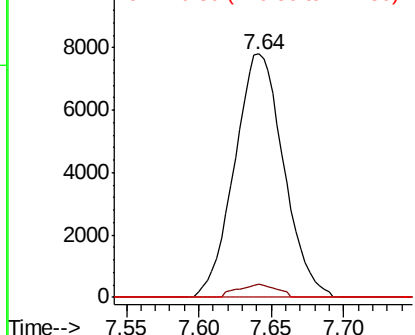
#38
Carbon Tetrachloride
Concen: 6.399 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059986.D
Acq: 4 Feb 2020 11:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 18367
Ion Ratio Lower Upper
117 100
119 5.2 76.5 114.7#
121 0.0 25.1 37.7#

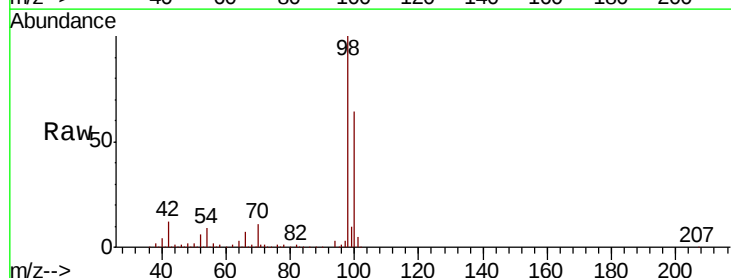


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

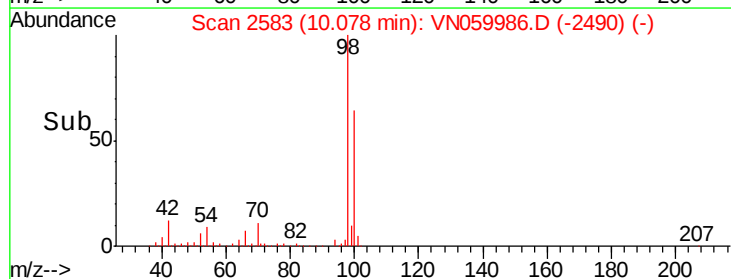
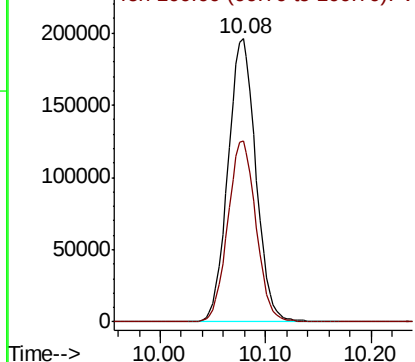


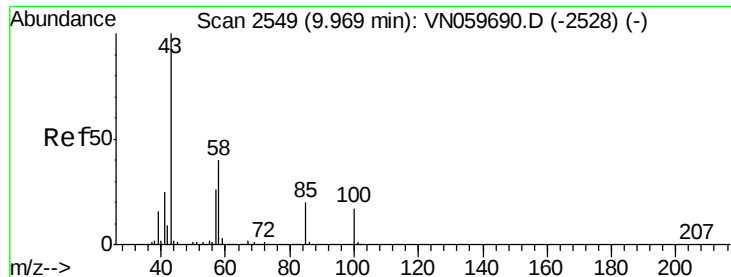
#50
Toluene-d8
Concen: 51.203 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059986.D
Acq: 4 Feb 2020 11:34

Tgt Ion: 98 Resp: 358481
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

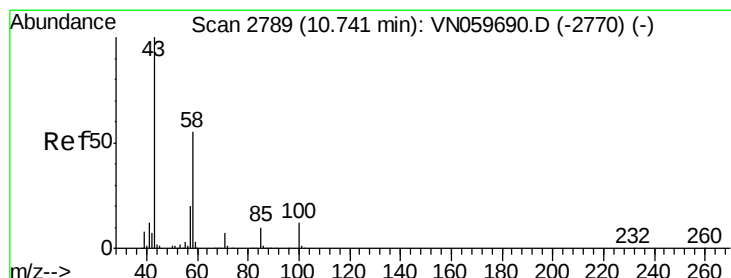
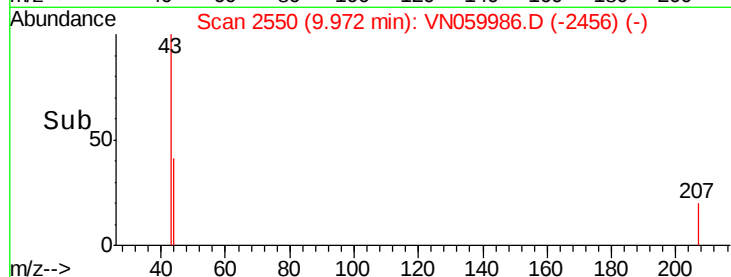
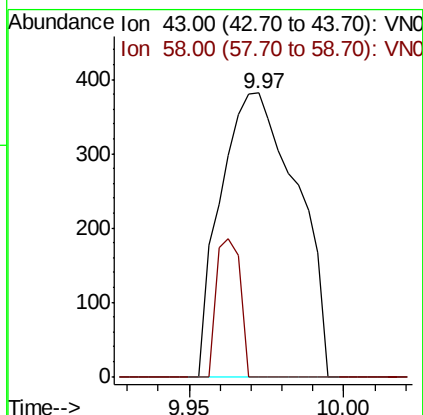
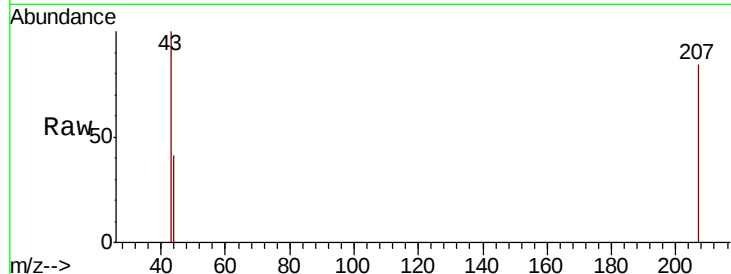




#51
4-Methyl-2-Pentanone
Concen: 0.266 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN059986.D
Acq: 4 Feb 2020 11:34

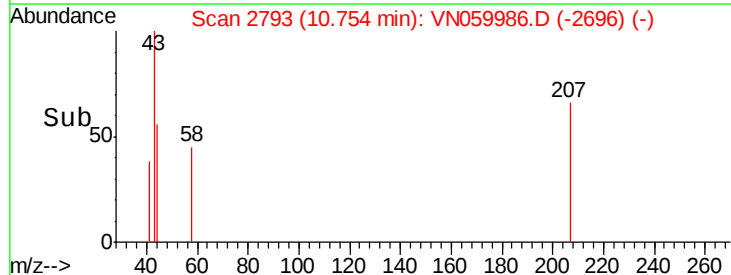
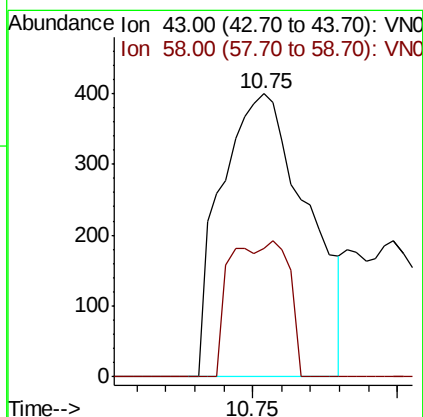
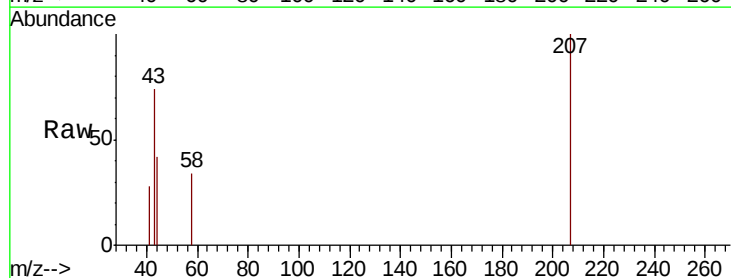
Instrument :
MSVOA_N
ClientSampled :

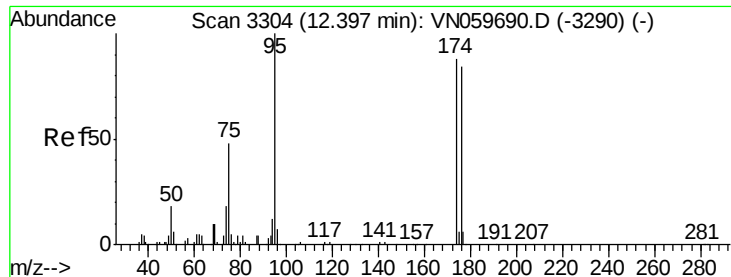
Tot Ion: 43 Resp: 655
Ion Ratio Lower Upper
43 100
58 15.4 29.8 44.8#



#59
2-Hexanone
Concen: 0.455 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059986.D
Acq: 4 Feb 2020 11:34

Tgt Ion: 43 Resp: 825
Ion Ratio Lower Upper
43 100
58 16.2 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 47.054 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :

MSVOA_N

ClientSampled :

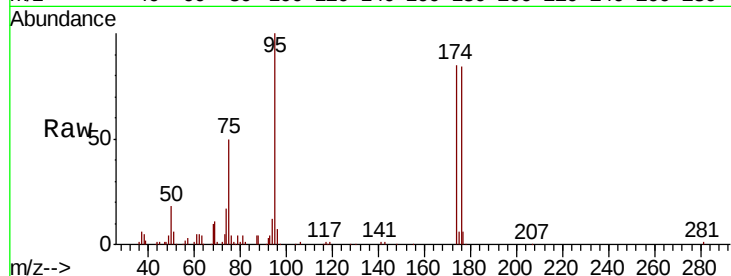
Tot Ion: 95 Resp: 118760

Ion Ratio Lower Upper

95 100

174 86.0 0.0 151.4

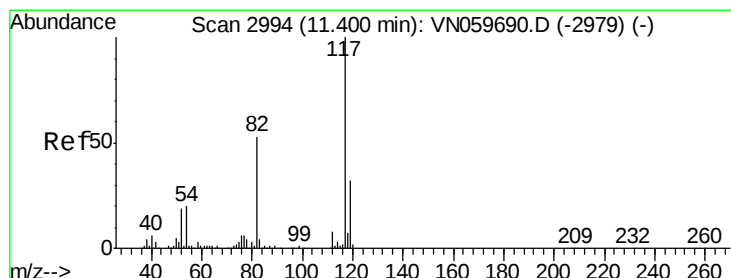
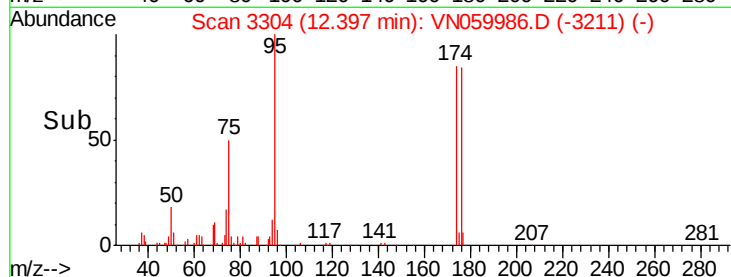
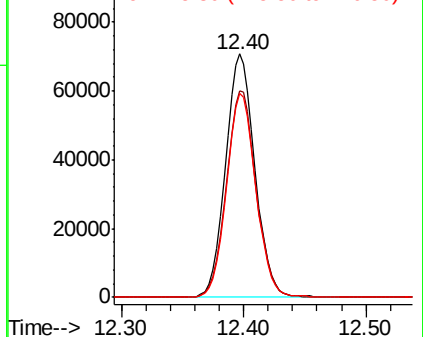
176 83.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059986.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059986.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059986.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

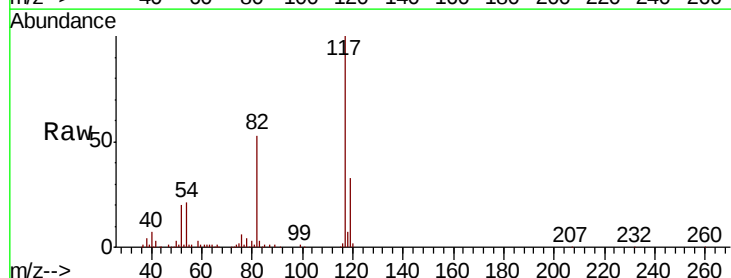
Tgt Ion: 117 Resp: 268946

Ion Ratio Lower Upper

117 100

82 53.0 45.9 68.9

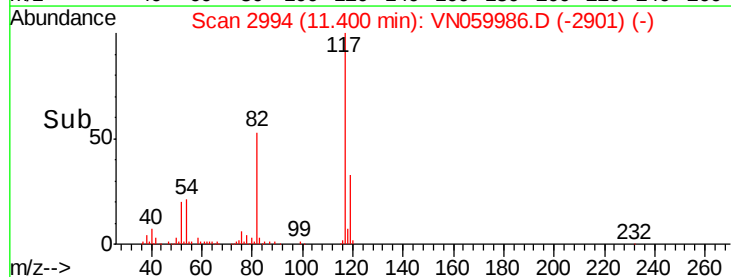
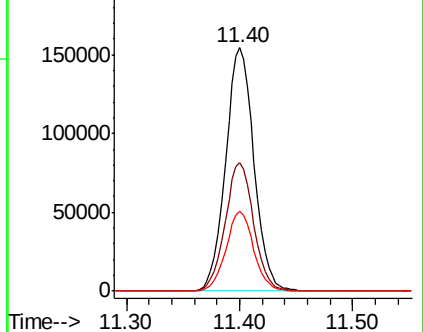
119 32.6 25.5 38.3

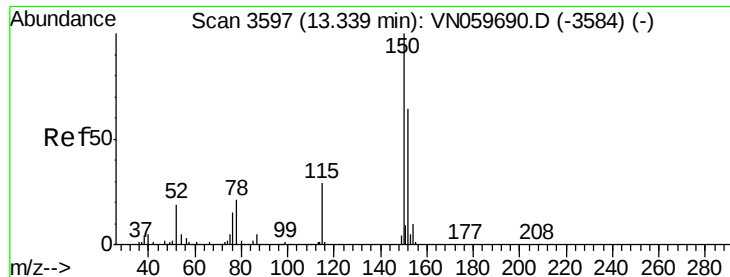


Abundance Ion 116.90 (116.60 to 117.60): VN059986.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059986.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059986.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :

MSVOA_N

ClientSampled :

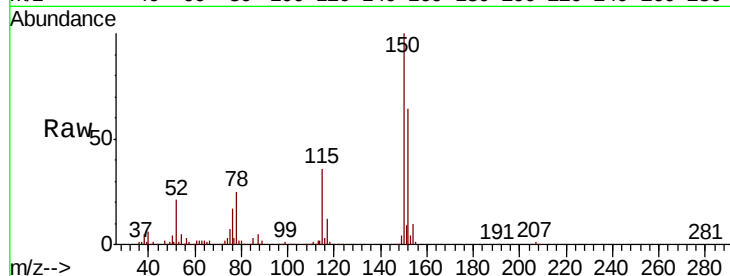
Tot Ion:152 Resp: 104950

Ion Ratio Lower Upper

152 100

115 56.9 30.3 90.9

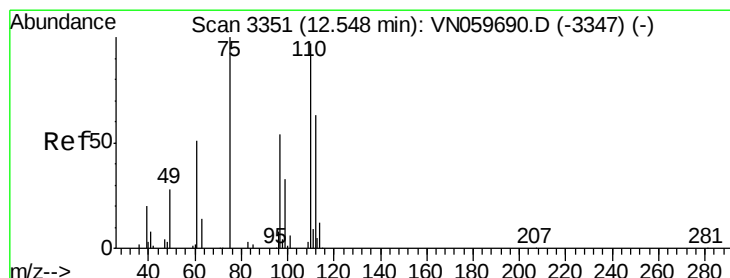
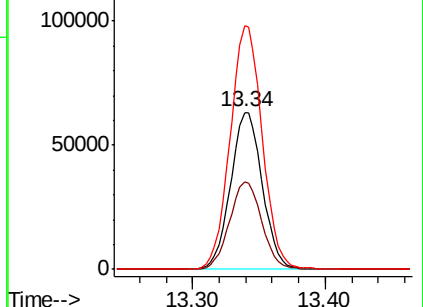
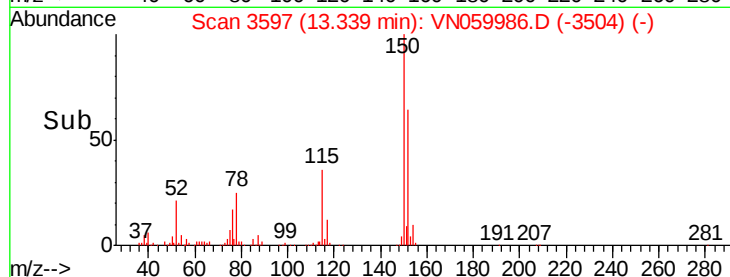
150 157.0 0.0 345.2



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: 34.383 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059986.D

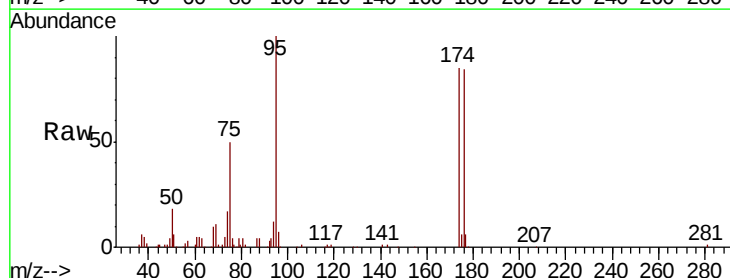
Acq: 4 Feb 2020 11:34

Tgt Ion: 75 Resp: 60727

Ion Ratio Lower Upper

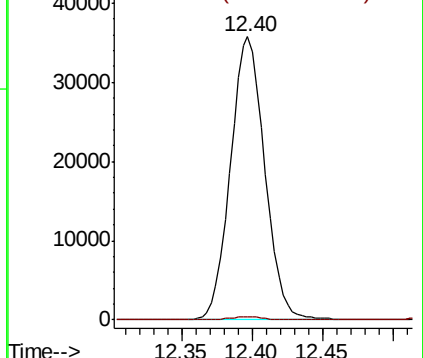
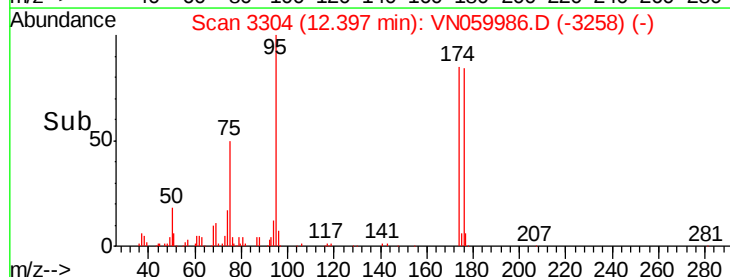
75 100

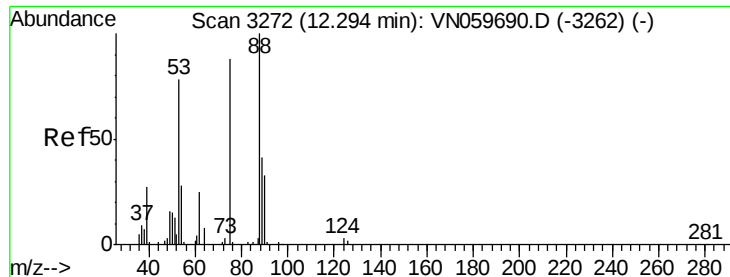
77 1.0 0.0 0.0#



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: 73.837 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :

MSVOA_N

ClientSampleId :

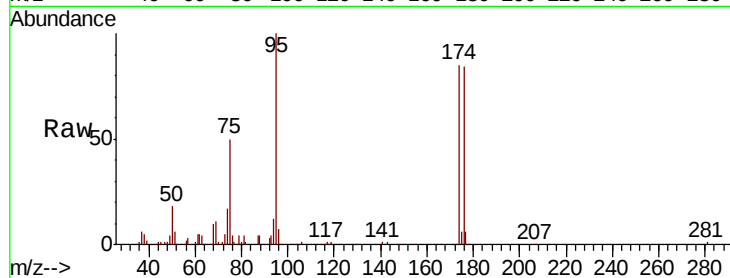
Tot Ion: 75 Resp: 60727

Ion Ratio Lower Upper

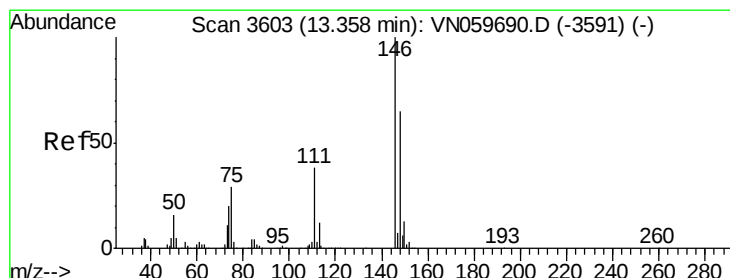
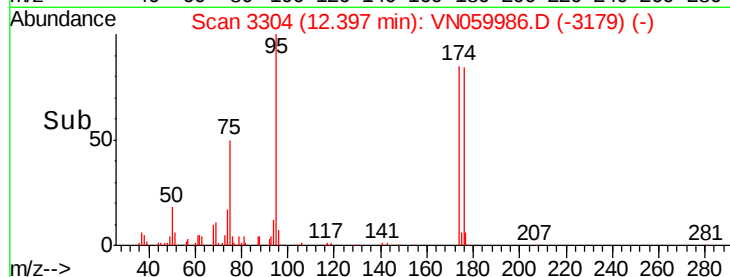
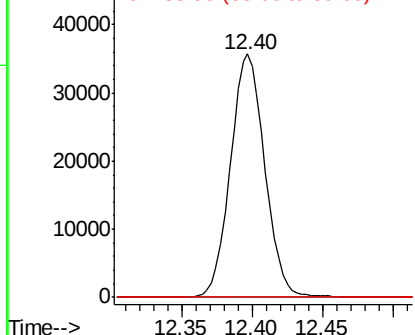
75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



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



#88

1,4-Dichlorobenzene

Concen: 0.223 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

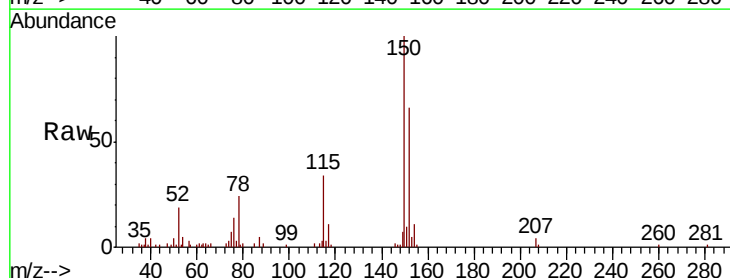
Tgt Ion: 146 Resp: 753

Ion Ratio Lower Upper

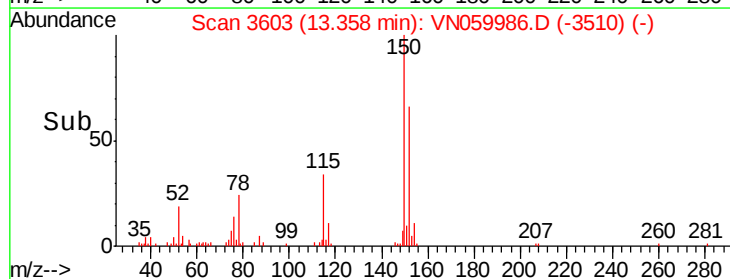
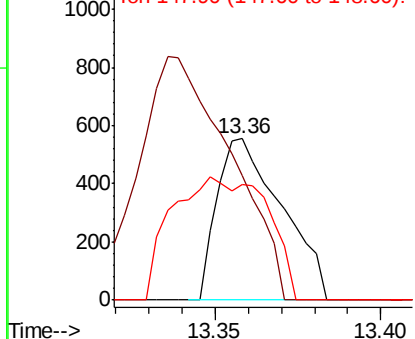
146 100

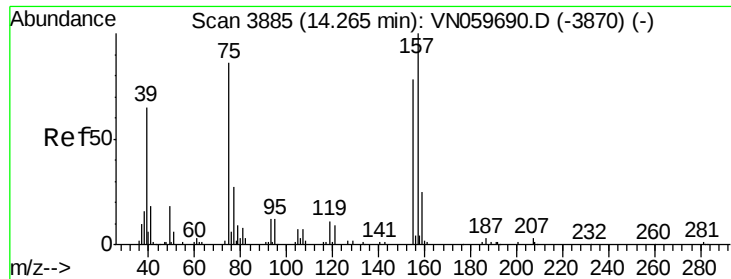
111 0.0 20.8 62.2#

148 112.6 31.8 95.4#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3888

Delta R.T. 0.01 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :

MSVOA_N

ClientSampleId :

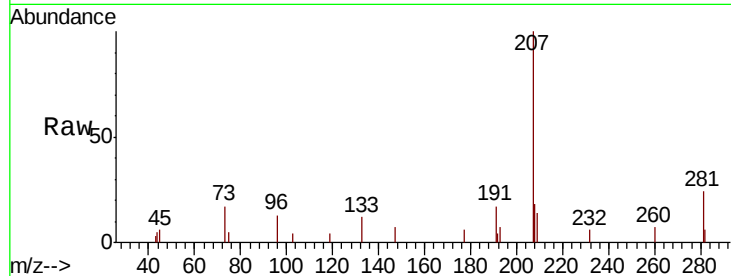
Tot Ion: 75 Resp: 258

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

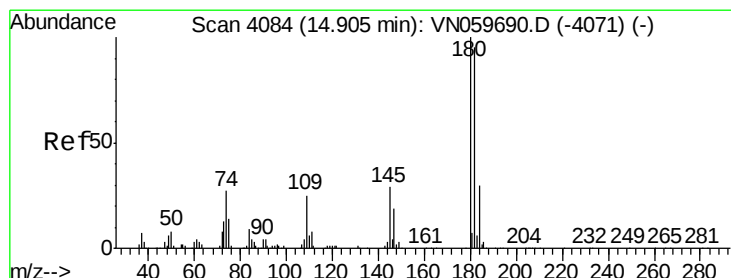
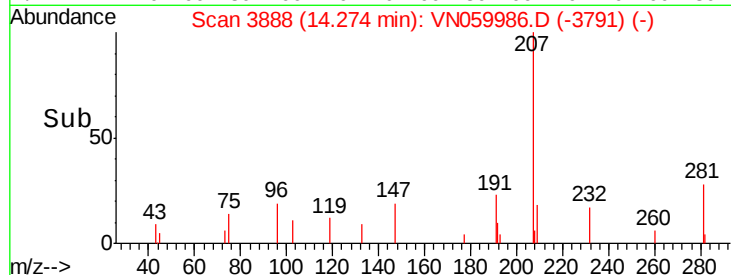
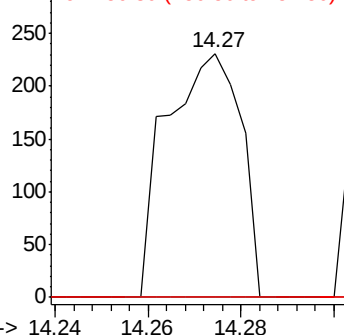
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.646 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

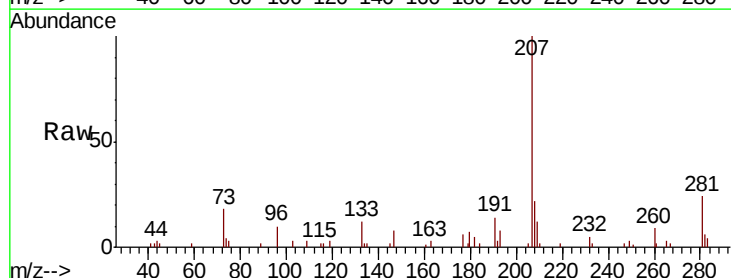
Tgt Ion: 180 Resp: 1299

Ion Ratio Lower Upper

180 100

182 88.1 46.9 140.7

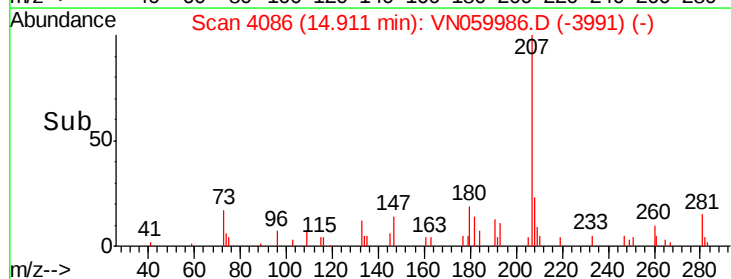
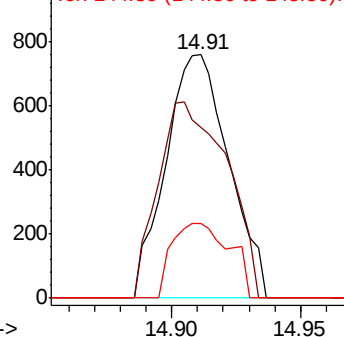
145 28.3 15.0 45.1

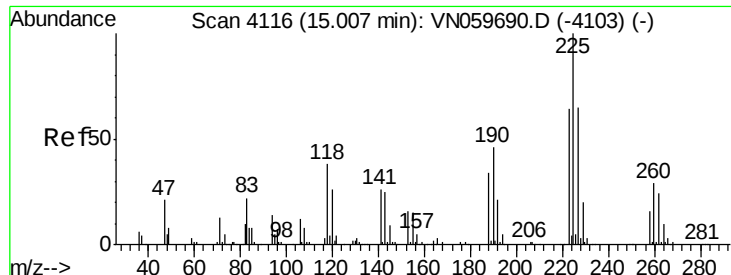


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.543 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

Instrument :

MSVOA_N

ClientSampled :

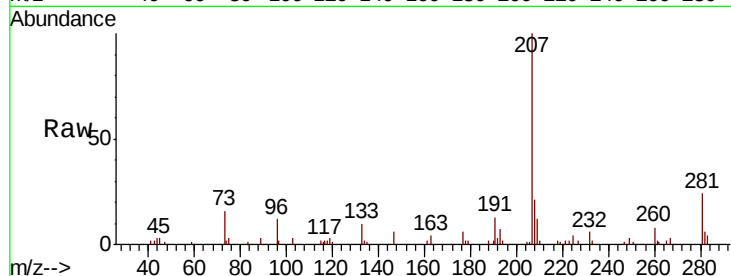
Tot Ion:225 Resp: 602

Ion Ratio Lower Upper

225 100

223 27.4 31.8 95.3#

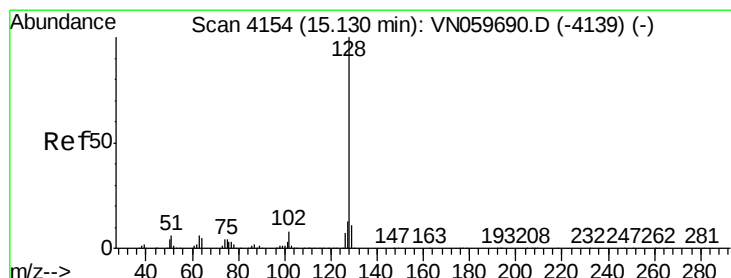
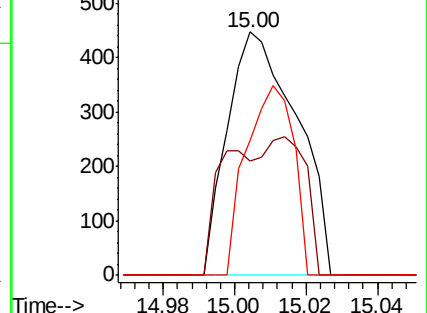
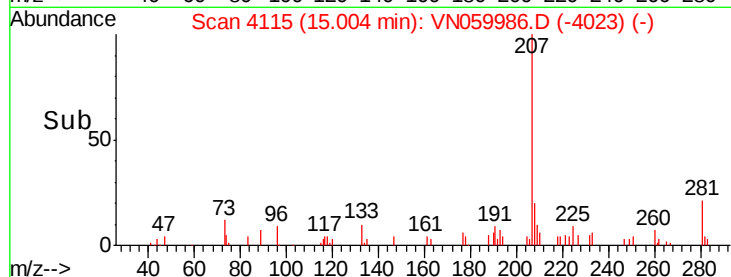
227 53.0 32.1 96.5



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: 1.015 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059986.D

Acq: 4 Feb 2020 11:34

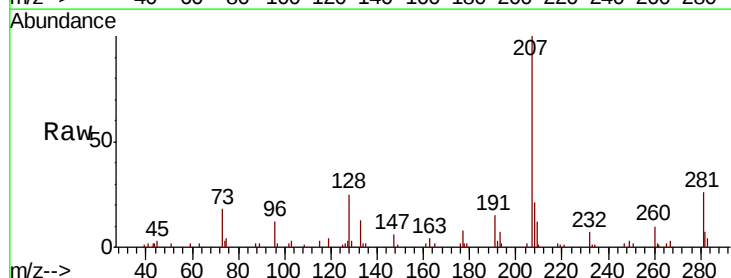
Tgt Ion:128 Resp: 5805

Ion Ratio Lower Upper

128 100

127 9.8 10.4 15.6#

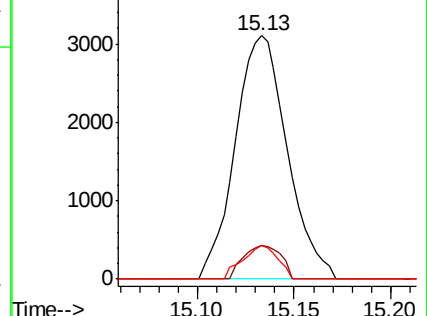
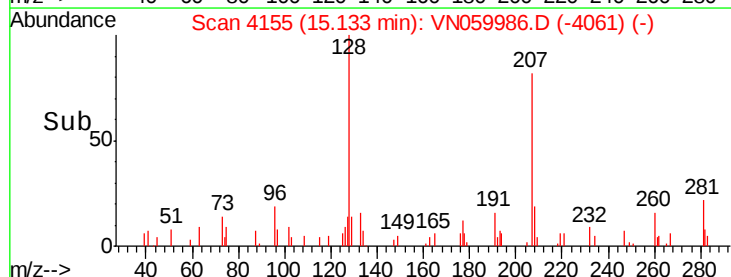
129 9.4 8.6 12.8

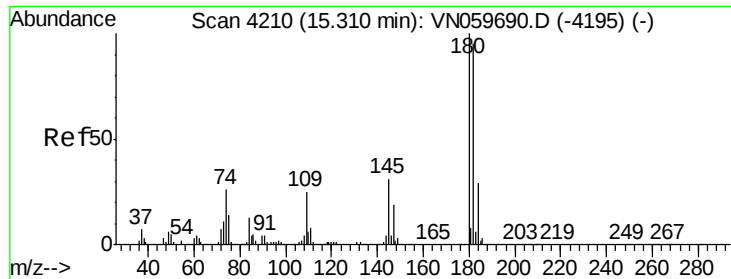


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.090 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.01 min
 Lab File: VN059986.D
 Acq: 4 Feb 2020 11:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.8	47.4	142.3
145	33.9	16.3	48.9

