

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055737.D
 Acq On : 22 May 2019 23:37
 Operator : JC/SP
 Sample : K2965-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: May 23 06:05:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55871	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	291247	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	232870	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	111140	30.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.43%
60) 4-Bromofluorobenzene	12.40	95	88981	24.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.87%
63) Toluene-d8	10.09	98	338618	31.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.07%

Target Compounds

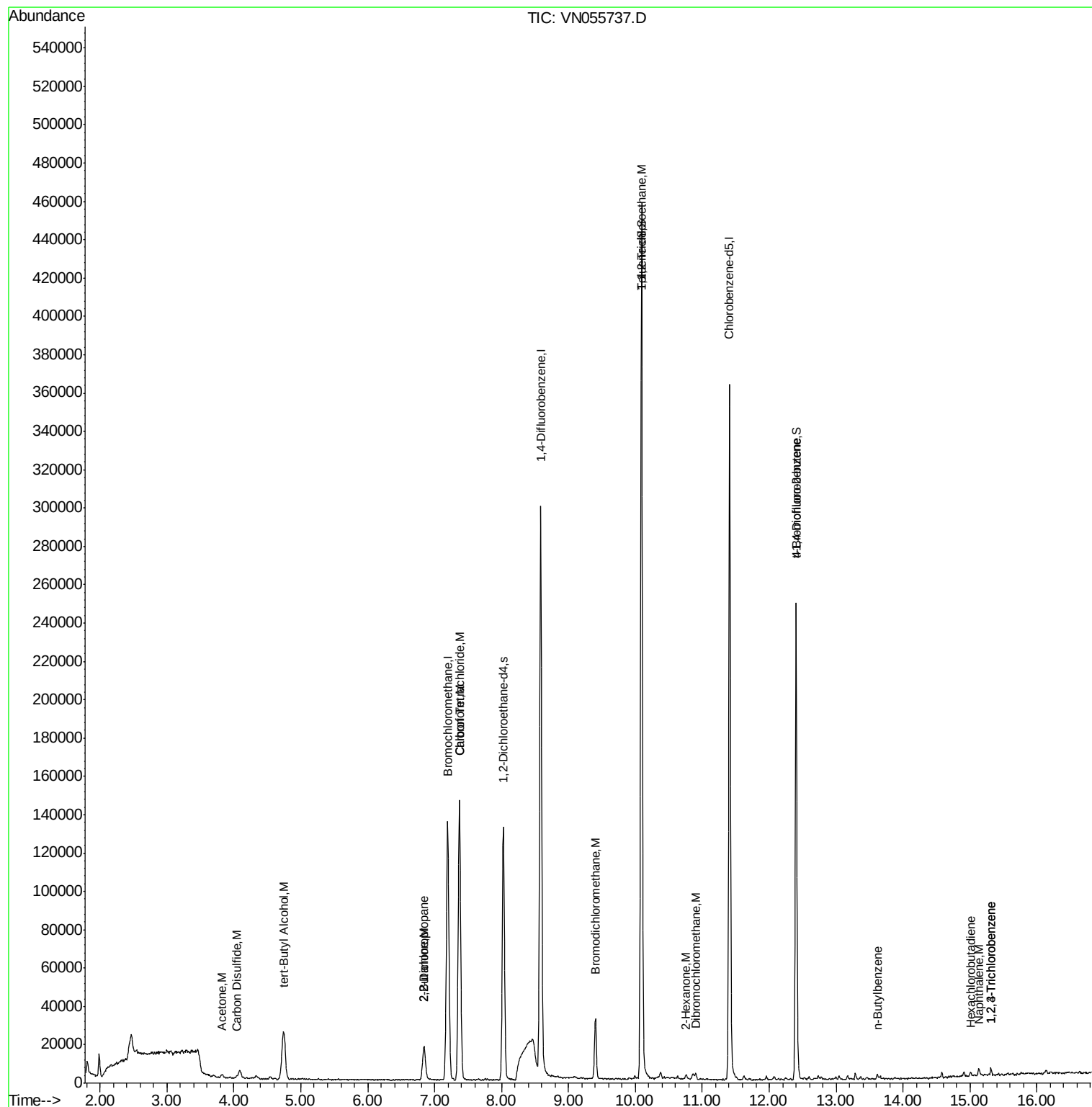
					Ovalue	
15) Acetone	3.82	58	365	0.715	ug/l #	39
16) Carbon Disulfide	4.04	76	1883	0.223	ug/l #	62
23) tert-Butyl Alcohol	4.74	59	24195	33.503	ug/l #	100
25) Chloroform	7.37	83	157426	27.372	ug/l	100
30) 2-Butanone	6.83	43	700	0.322	ug/l #	55
31) 2,2-Dichloropropane	6.84	77	956	0.201	ug/l #	51
33) Carbon Tetrachloride	7.37	117	1310	0.303	ug/l #	73
41) Bromodichloromethane	9.40	83	22870	5.107	ug/l	98
50) 1,1,2-Trichloroethane	10.10	97	10194	3.205	ug/l #	1
53) Dibromochloromethane	10.90	129	1876	0.499	ug/l #	53
59) 2-Hexanone	10.76	43	1795	0.651	ug/l #	84
77) t-1,4-Dichloro-2-butene	12.40	75	41865	29.568	ug/l #	17
85) n-Butylbenzene	13.62	91	1869	0.210	ug/l	87
89) 1,2,4-Trichlorobenzene	15.31	180	1560	0.514	ug/l	91
90) Hexachlorobutadiene	15.00	225	561	0.248	ug/l	86
91) Naphthalene	15.14	128	4858	0.586	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.31	180	1560	0.492	ug/l	92

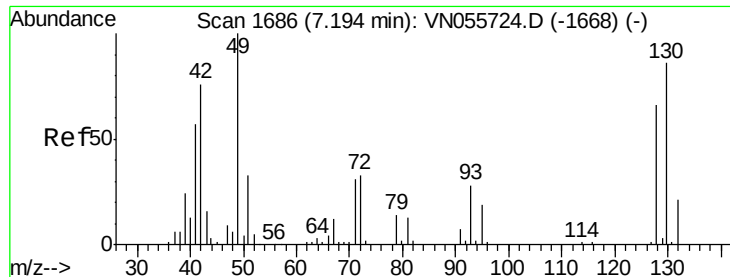
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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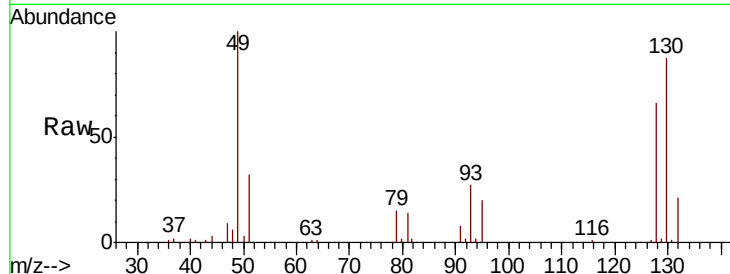




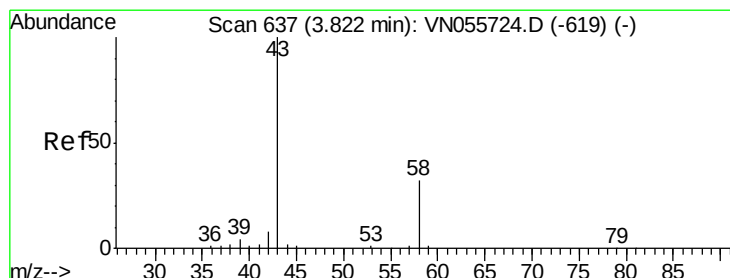
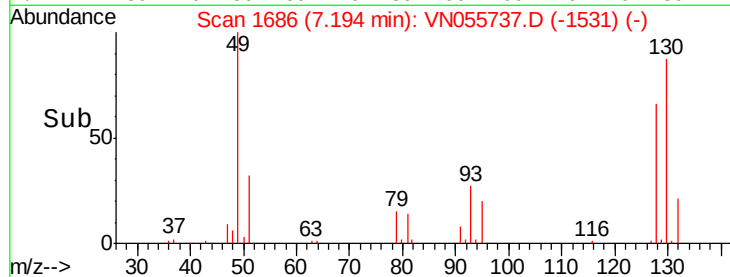
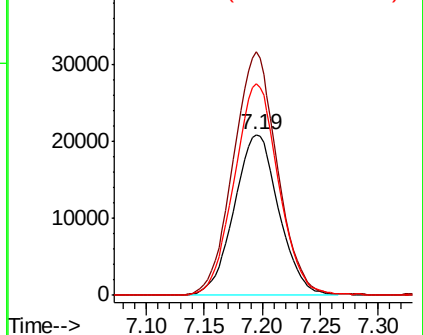
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Instrument :
MSVOA_N
ClientSampled :
14B-1

Tot Ion:128 Resp: 55871
Ion Ratio Lower Upper
128 100
49 149.1 0.0 383.2
130 131.5 0.0 326.3

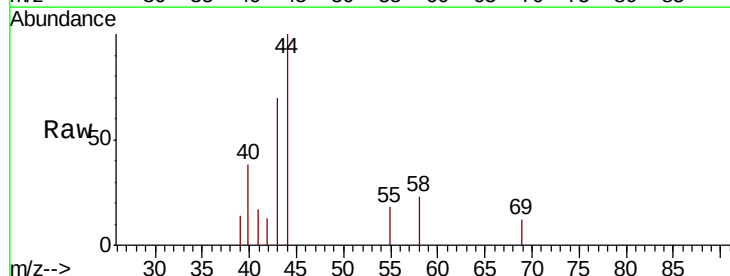


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

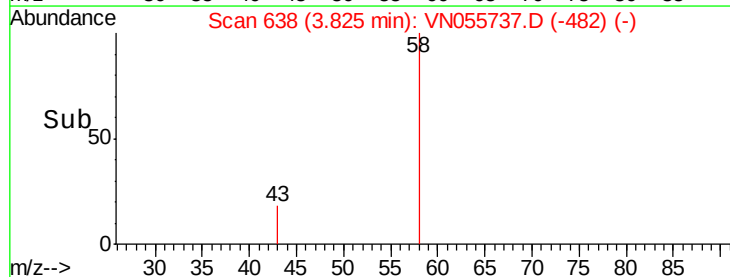
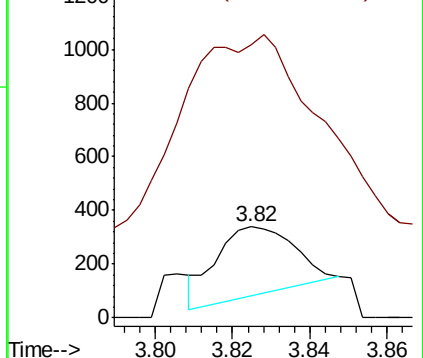


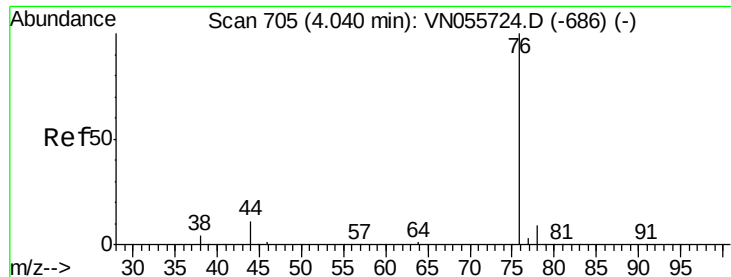
#15
Acetone
Concen: 0.715 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Tgt Ion: 58 Resp: 365
Ion Ratio Lower Upper
58 100
43 188.6 248.8 373.2#



Abundance Ion 58.00 (57.70 to 58.70): VN
Ion 43.00 (42.70 to 43.70): VN

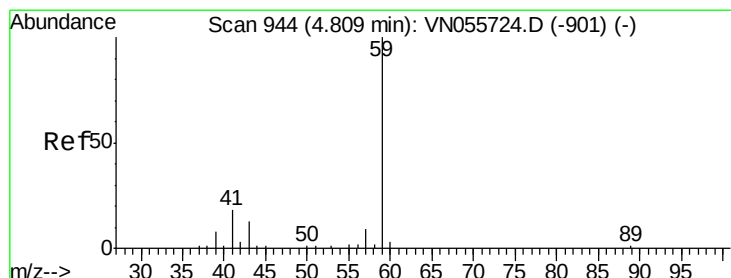
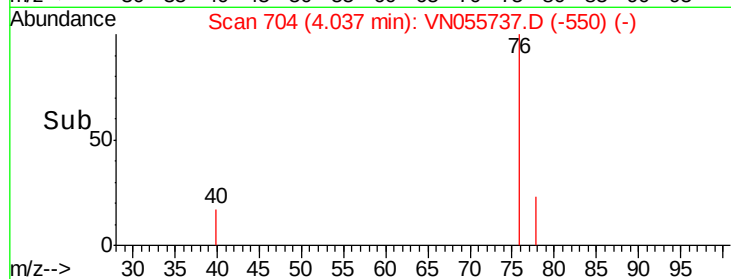
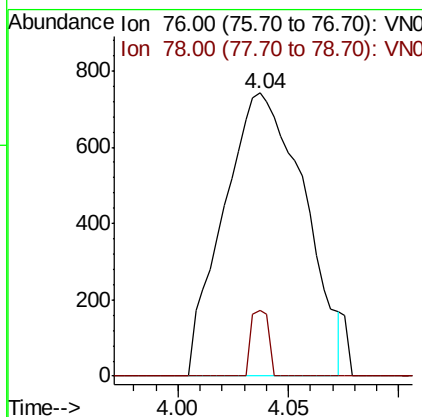
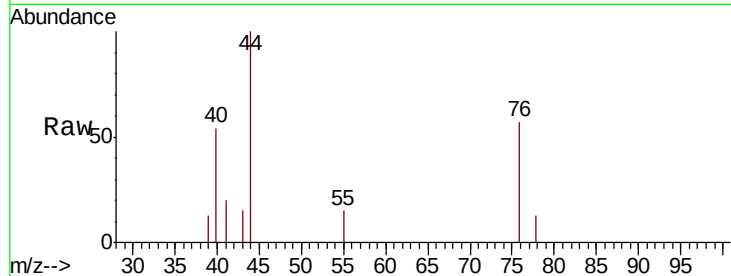




#16
Carbon Disulfide
Concen: 0.223 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

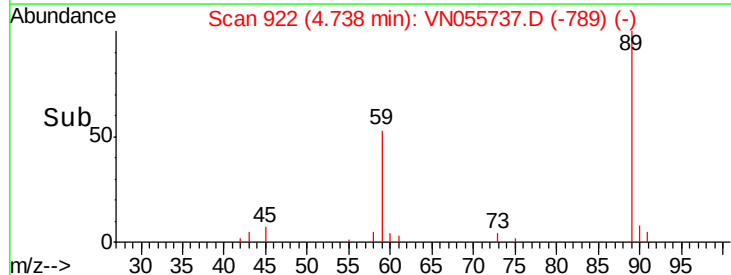
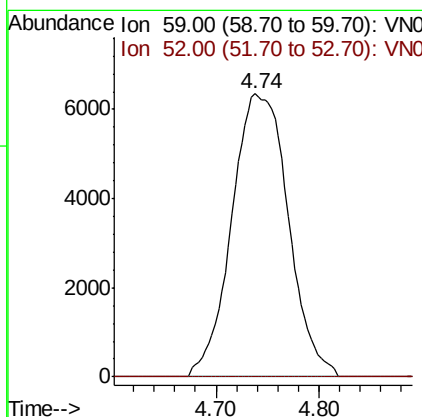
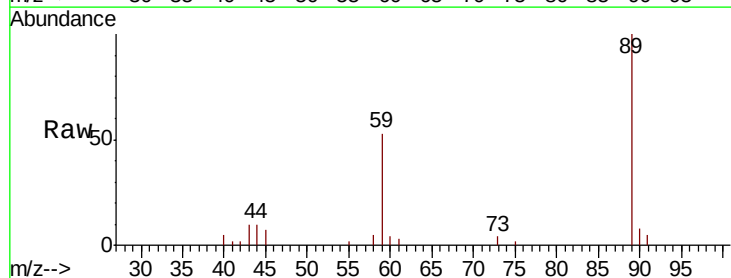
Instrument :
MSVOA_N
ClientSampled :
14B-1

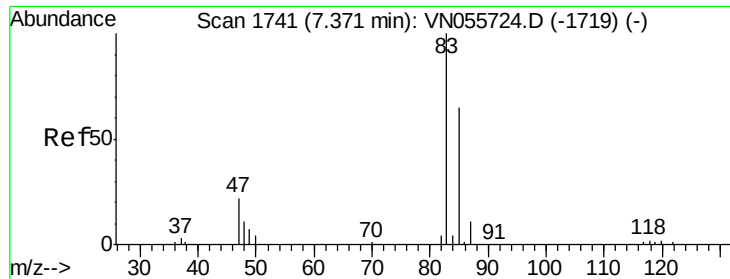
Tot Ion: 76 Resp: 1883
Ion Ratio Lower Upper
76 100
78 23.2 7.4 11.0#



#23
tert-Butyl Alcohol
Concen: 33.503 ug/l
RT: 4.74 min Scan# 922
Delta R.T. -0.07 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Tgt Ion: 59 Resp: 24195
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

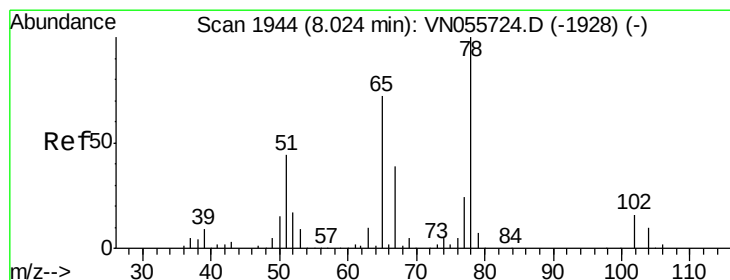
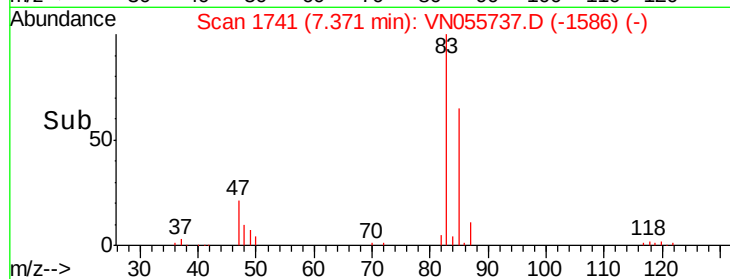
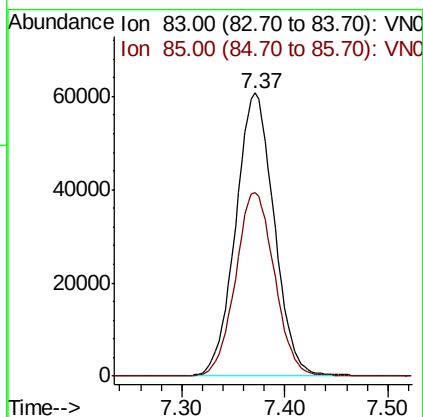
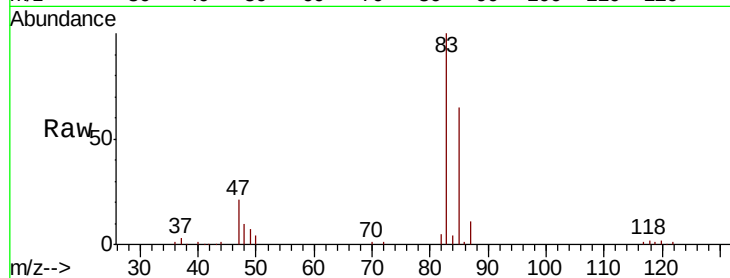




#25
Chloroform
Concen: 27.372 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

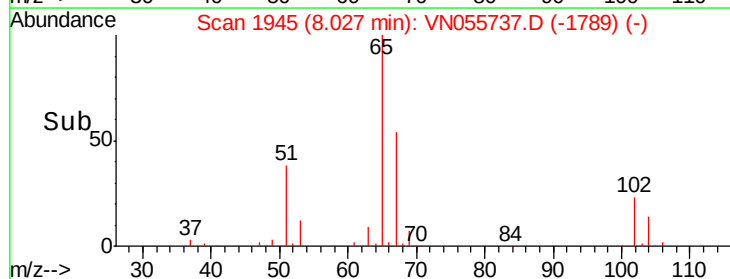
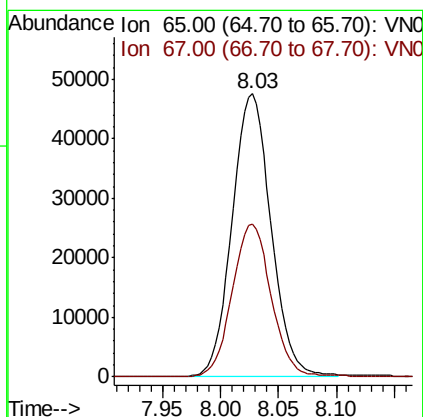
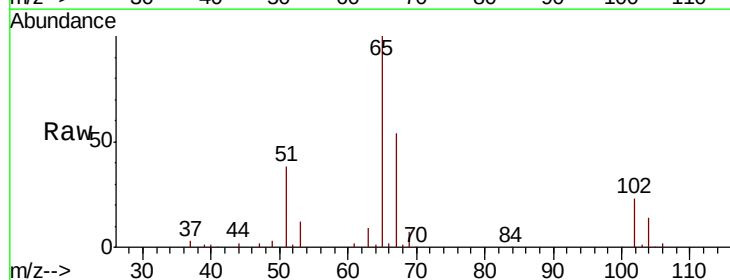
Instrument :
MSVOA_N
ClientSampled :
14B-1

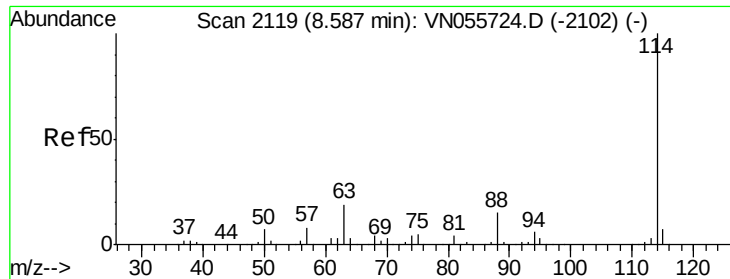
Tot Ion: 83 Resp: 157426
Ion Ratio Lower Upper
83 100
85 64.8 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: 30.433 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Tgt Ion: 65 Resp: 111140
Ion Ratio Lower Upper
65 100
67 53.9 43.5 65.3

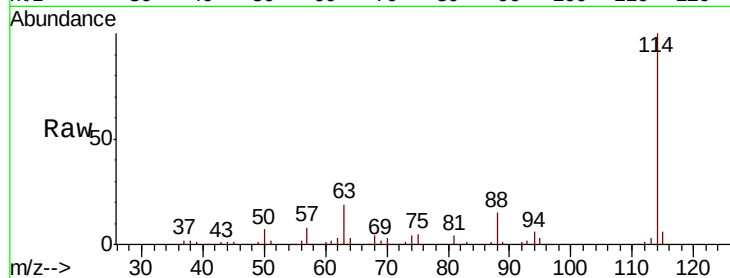




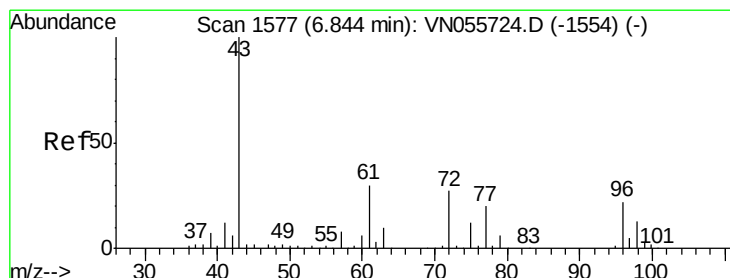
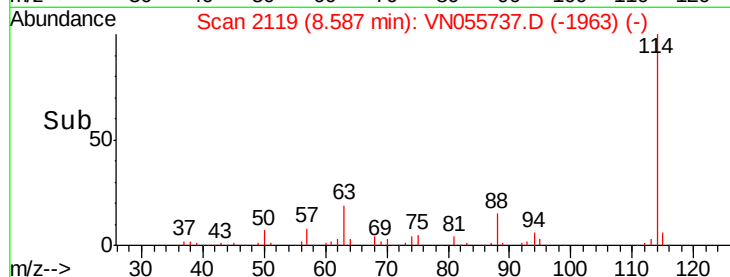
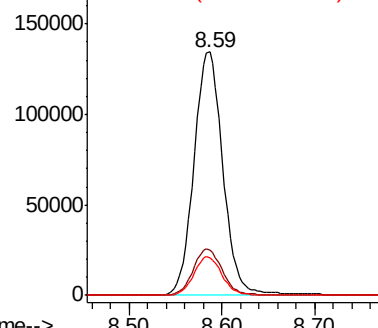
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Instrument :
MSVOA_N
ClientSampleId :
14B-1

Tot Ion:114 Resp: 291247
Ion Ratio Lower Upper
114 100
63 19.2 15.6 23.4
88 15.4 12.3 18.5

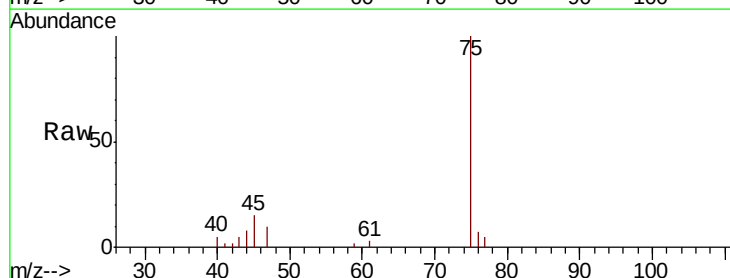


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VNO
Ion 88.00 (87.70 to 88.70): VNO

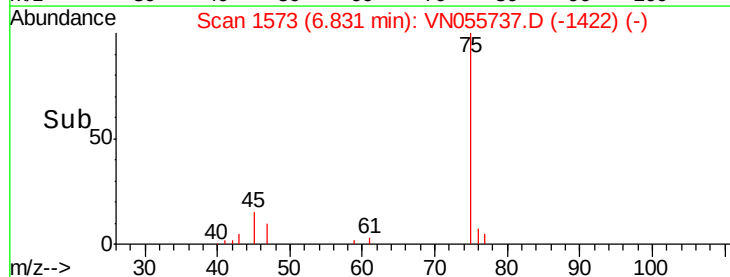
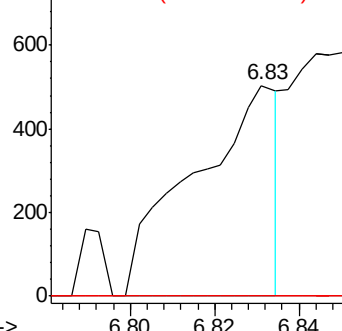


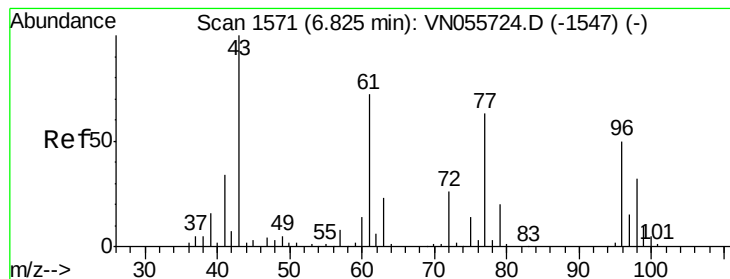
#30
2-Butanone
Concen: 0.322 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Tgt Ion: 43 Resp: 700
Ion Ratio Lower Upper
43 100
57 0.0 6.6 10.0#
72 0.0 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 57.00 (56.70 to 57.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#31

2,2-Dichloropropane

Concen: 0.201 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

Instrument :

MSVOA_N

ClientSampled :

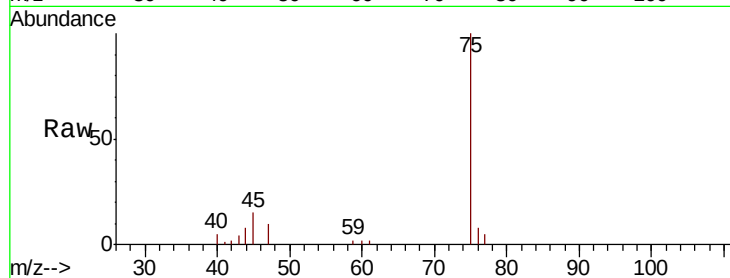
14B-1

Tot Ion: 77 Resp: 956

Ion Ratio Lower Upper

77 100

97 0.0 19.2 28.8#



Abundance Ion 77.00 (76.70 to 77.70): VN055724.D (-1547) (-)

Ion 97.00 (96.70 to 97.70): VN055724.D (-1547) (-)

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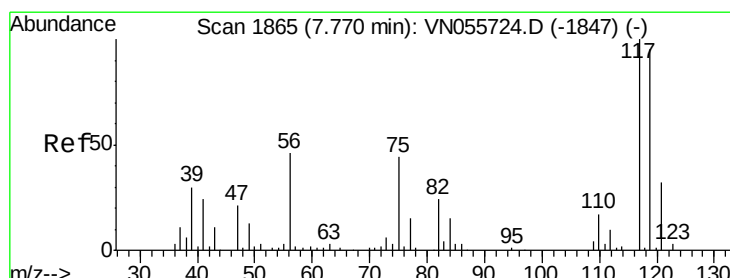
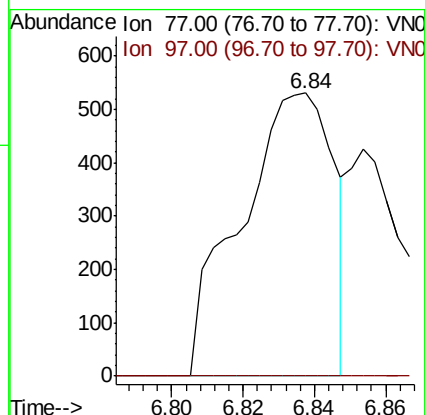
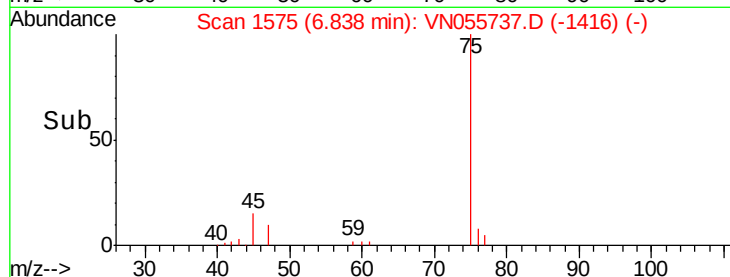
6.84

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#33

Carbon Tetrachloride

Concen: 0.303 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. -0.40 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

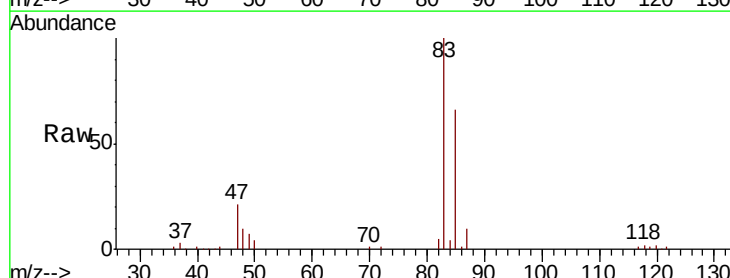
Tgt Ion: 117 Resp: 1310

Ion Ratio Lower Upper

117 100

119 83.3 75.8 113.8

121 73.0 25.4 38.0#



Abundance Ion 117.00 (116.70 to 117.70): VN055724.D (-1847) (-)

Ion 119.00 (118.70 to 119.70): VN055724.D (-1847) (-)

Ion 121.00 (120.70 to 121.70): VN055724.D (-1847) (-)

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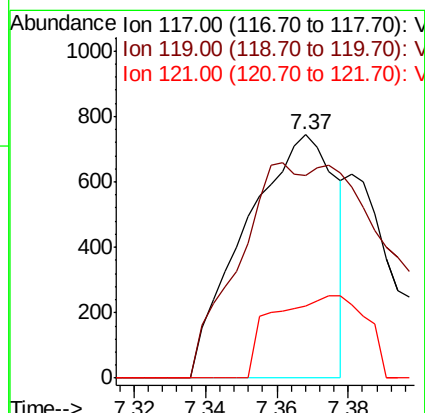
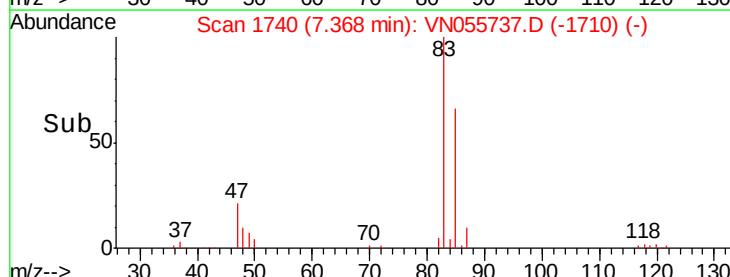
7.37

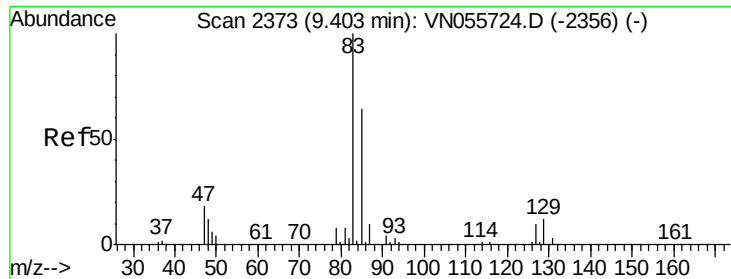
7.37

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#41

Bromodichloromethane

Concen: 5.107 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055737.D

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14B-1

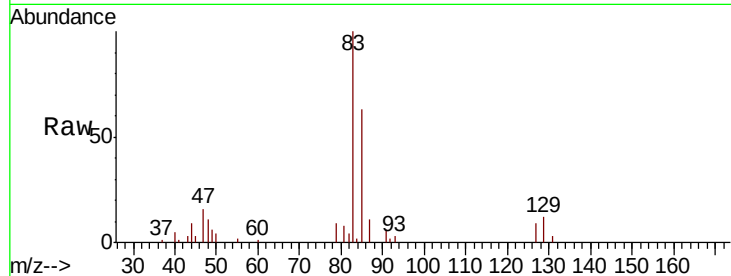
Tot Ion: 83 Resp: 22870

Ion Ratio Lower Upper

83 100

85 63.0 51.4 77.0

127 8.6 7.7 11.5

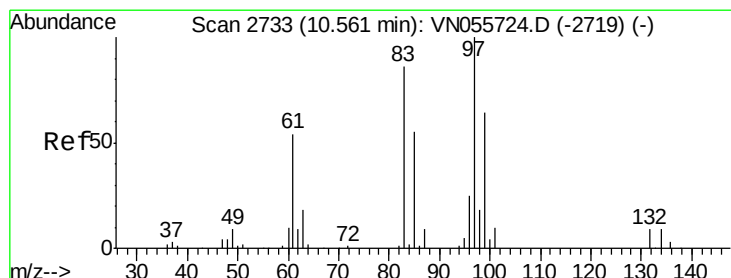
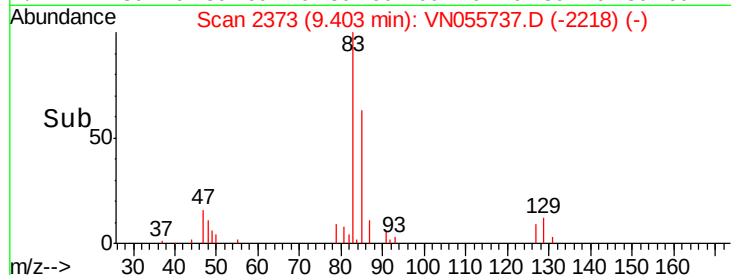
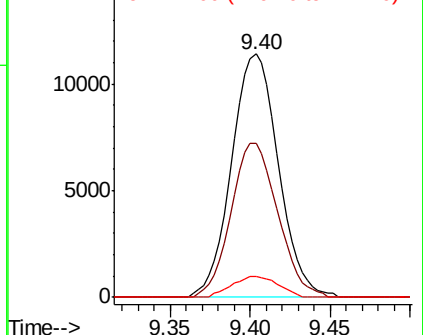


Abundance

Ion 83.00 (82.70 to 83.70): VNO

Ion 85.00 (84.70 to 85.70): VNO

Ion 127.00 (126.70 to 127.70): VNO



#50

1,1,2-Trichloroethane

Concen: 3.205 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

Tgt Ion: 97 Resp: 10194

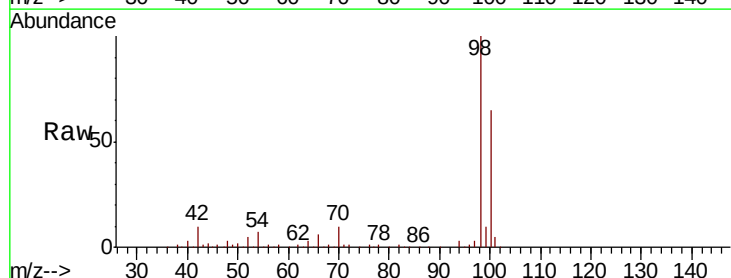
Ion Ratio Lower Upper

97 100

83 3.2 68.9 103.3#

85 0.0 44.3 66.5#

99 282.4 51.4 77.0#



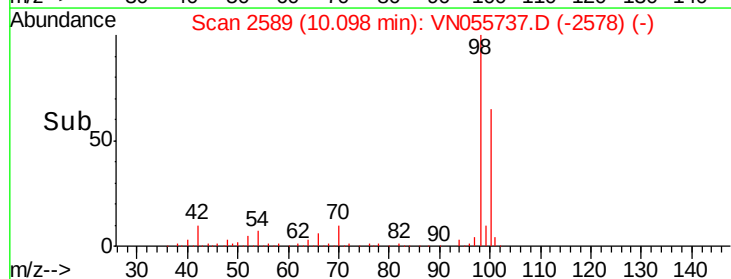
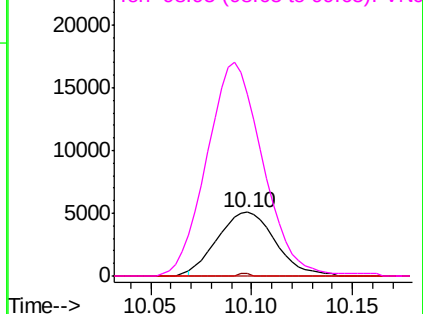
Abundance

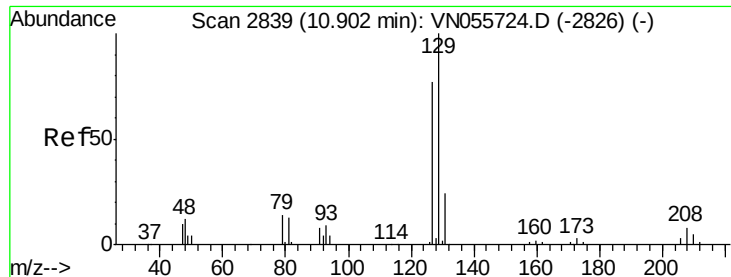
Ion 97.00 (96.70 to 97.70): VNO

Ion 82.95 (82.65 to 83.65): VNO

Ion 84.95 (84.65 to 85.65): VNO

Ion 98.95 (98.65 to 99.65): VNO





#53

Dibromochloromethane

Concen: 0.499 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

Instrument :

MSVOA_N

ClientSampled :

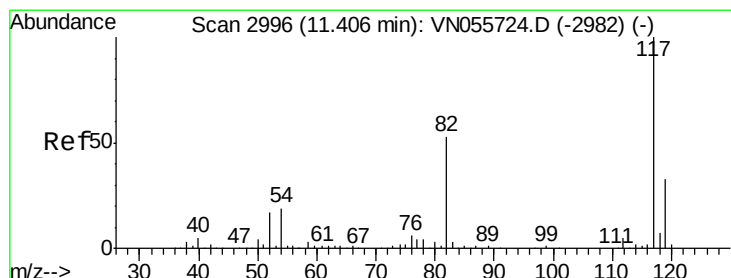
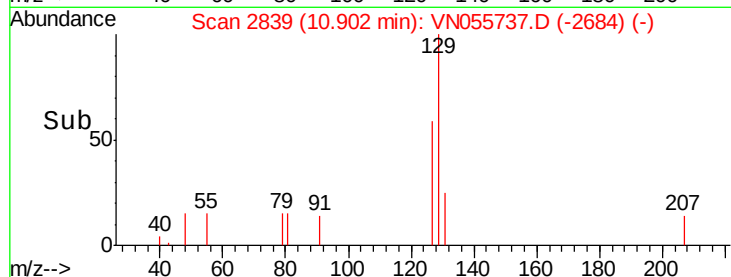
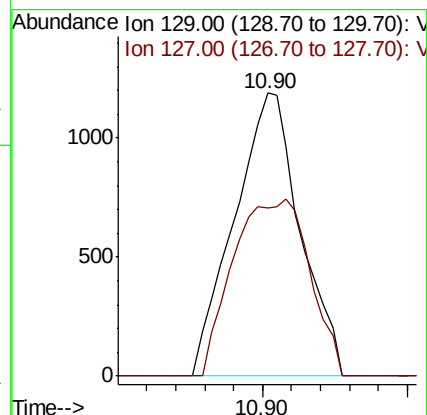
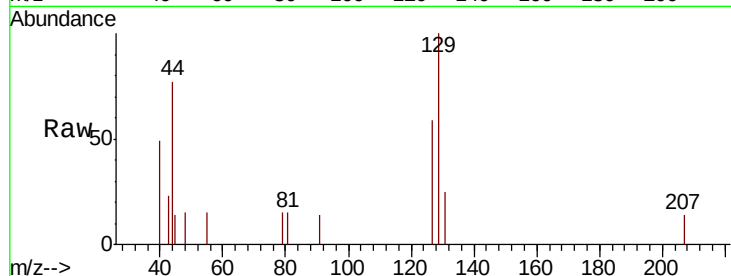
14B-1

Tot Ion:129 Resp: 1876

Ion Ratio Lower Upper

129 100

127 37.0 39.2 117.6#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

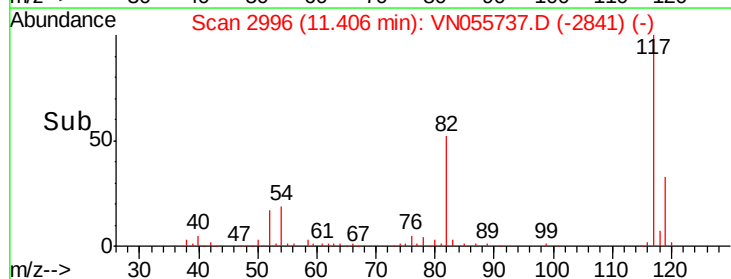
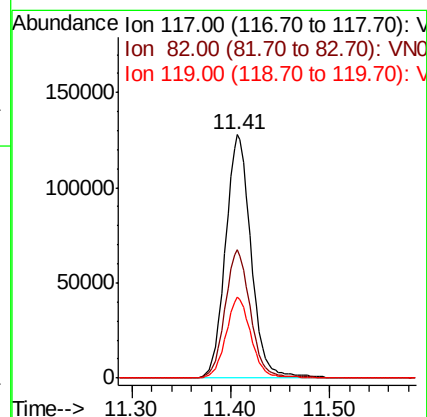
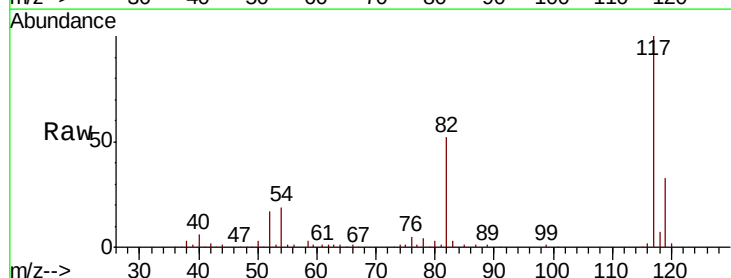
Tgt Ion:117 Resp: 232870

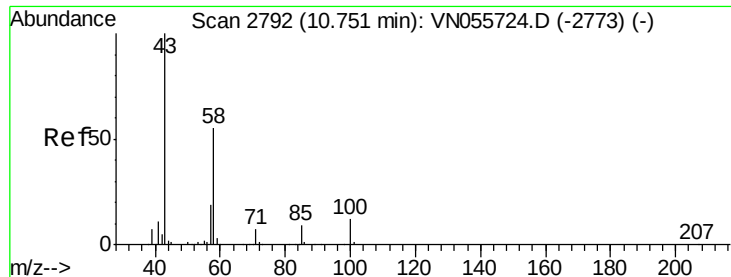
Ion Ratio Lower Upper

117 100

82 52.5 42.6 64.0

119 32.7 25.9 38.9

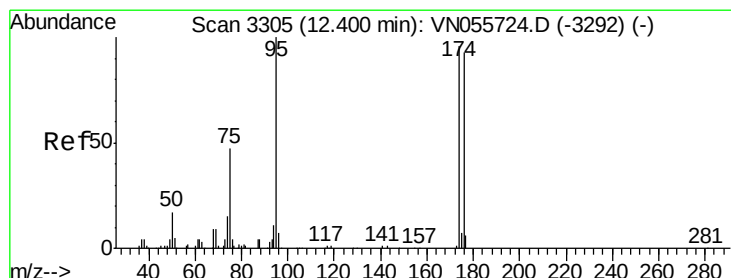
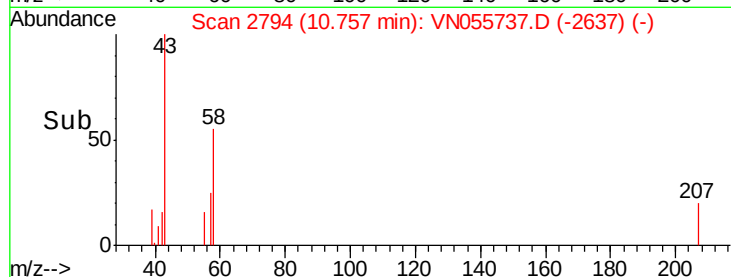
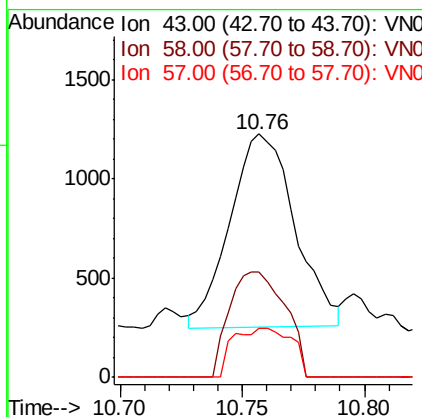
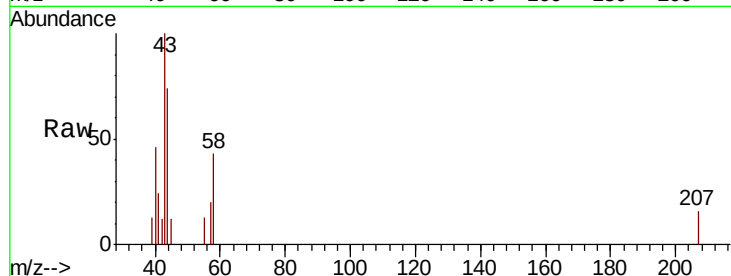




#59
2-Hexanone
Concen: 0.651 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

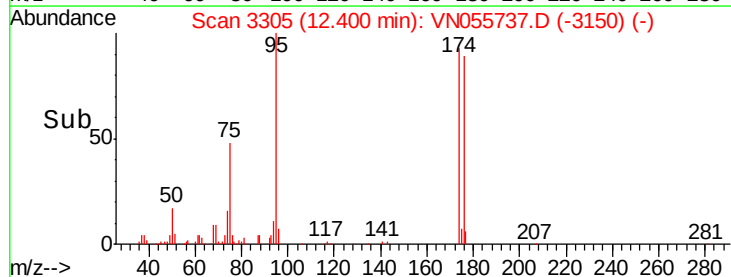
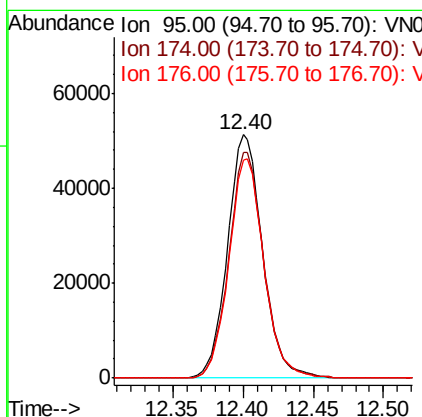
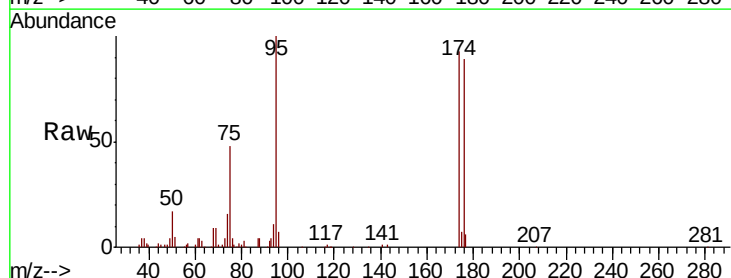
Instrument :
MSVOA_N
ClientSampleId :
14B-1

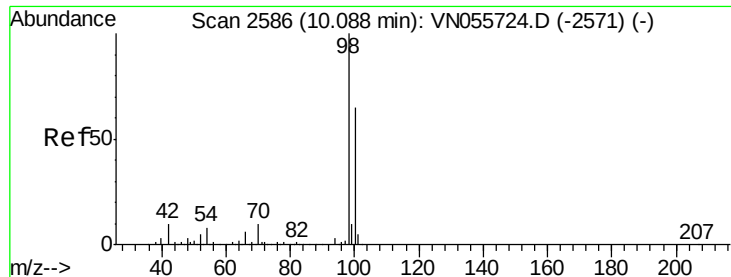
Tot Ion: 43 Resp: 1795
Ion Ratio Lower Upper
43 100
58 47.2 44.8 67.2
57 6.6 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 24.563 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055737.D
Acq: 22 May 2019 23:37

Tgt Ion: 95 Resp: 88981
Ion Ratio Lower Upper
95 100
174 92.5 75.7 113.5
176 89.9 74.1 111.1





#63

Toluene-d8

Concen: 31.819 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

Instrument :

MSVOA_N

ClientSampleId :

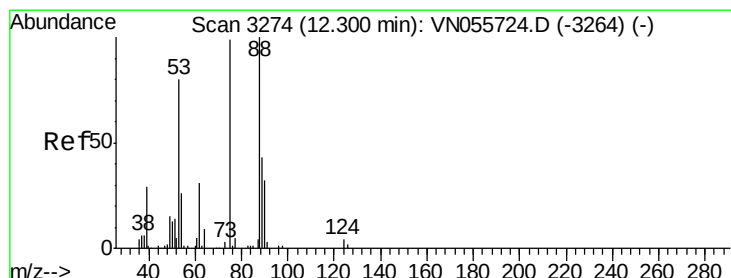
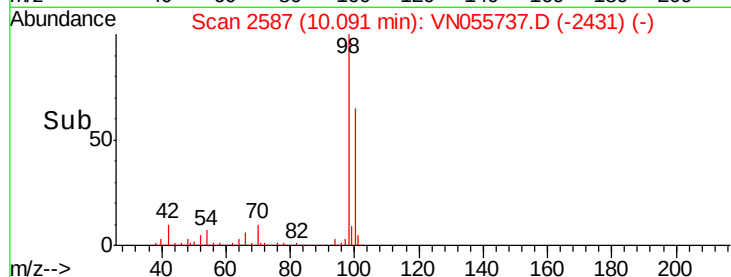
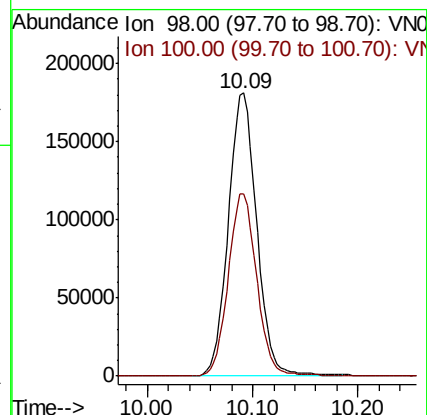
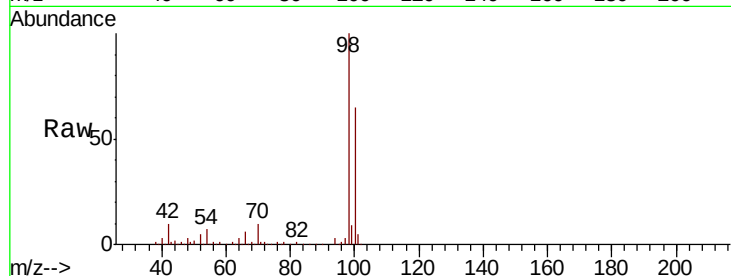
14B-1

Tot Ion: 98 Resp: 338618

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



#77

t-1,4-Dichloro-2-butene

Concen: 29.568 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

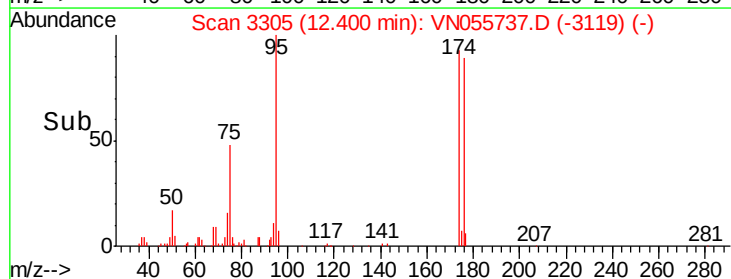
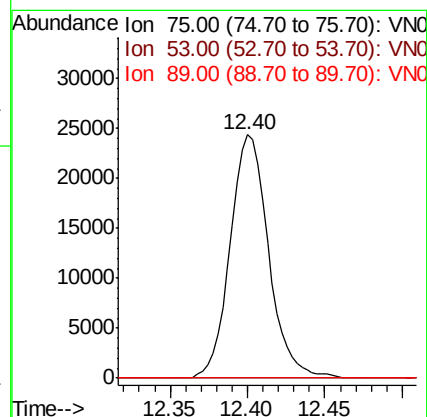
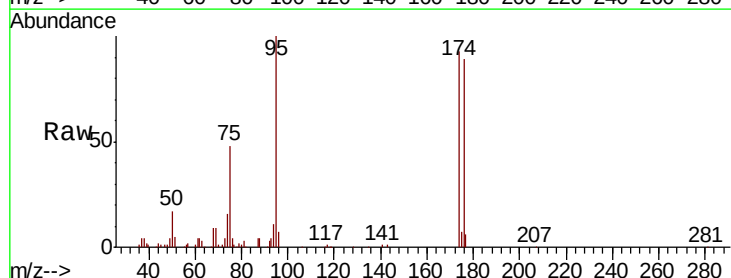
Tgt Ion: 75 Resp: 41865

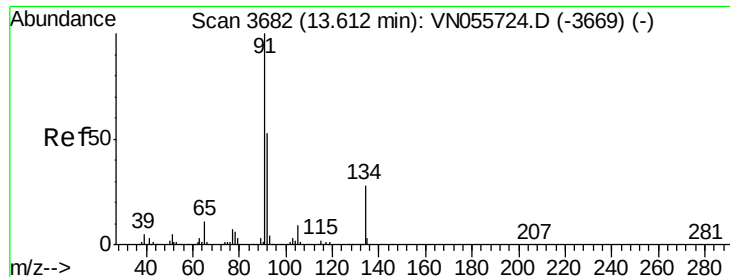
Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#





#85

n-Butylbenzene

Concen: 0.210 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

Instrument :

MSVOA_N

ClientSampled :

14B-1

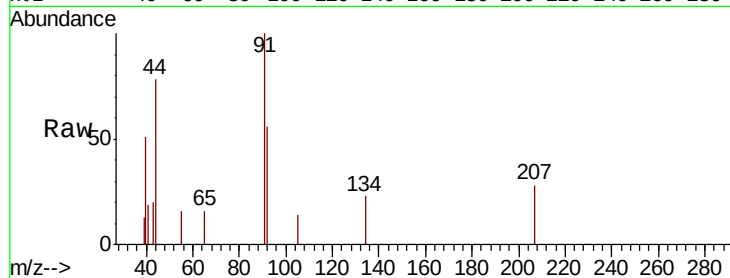
Tot Ion: 91 Resp: 1869

Ion Ratio Lower Upper

91 100

92 49.7 0.0 106.8

134 12.4 0.0 55.2

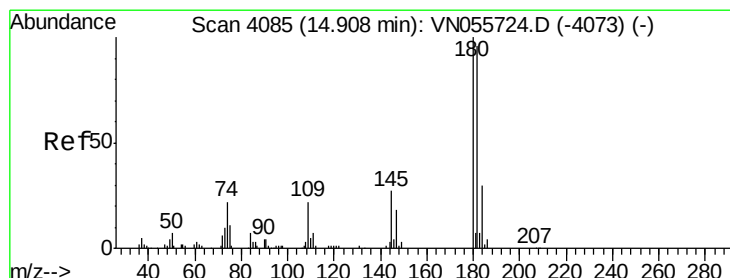
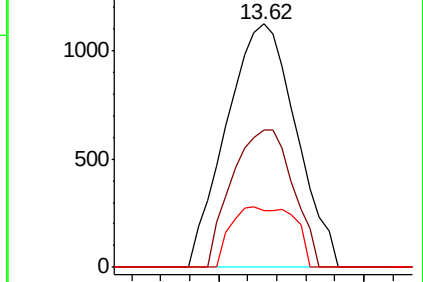
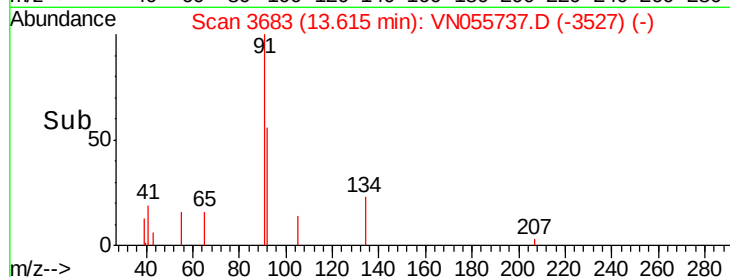


Abundance Ion 91.00 (90.70 to 91.70): VN055724.D (-3669) (-)

Ion 92.00 (91.70 to 92.70): VN055724.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN055724.D (-3669) (-)

Time-->



#89

1,2,4-Trichlorobenzene

Concen: 0.514 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.41 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

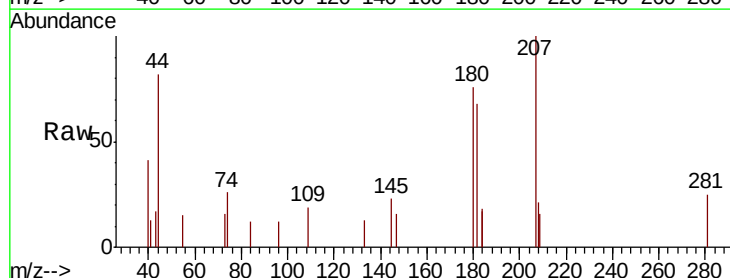
Tgt Ion: 180 Resp: 1560

Ion Ratio Lower Upper

180 100

182 85.3 76.1 114.1

145 25.4 21.8 32.8

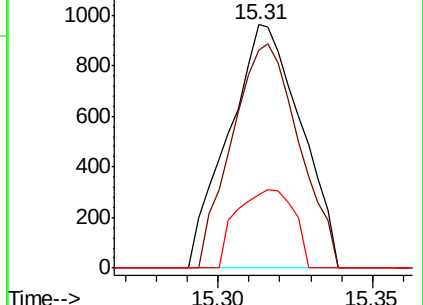
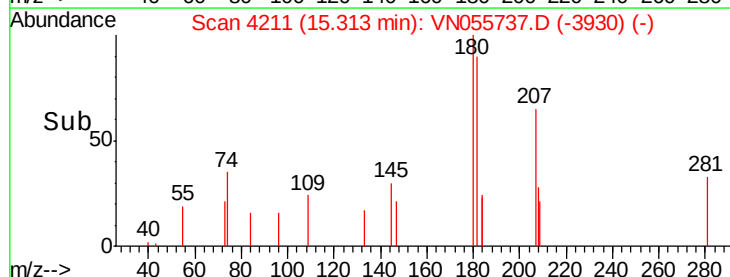


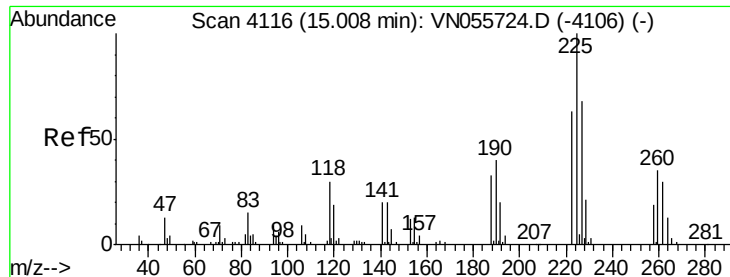
Abundance Ion 180.00 (179.70 to 180.70): VN055724.D (-4073) (-)

Ion 182.00 (181.70 to 182.70): VN055724.D (-4073) (-)

Ion 145.00 (144.70 to 145.70): VN055724.D (-4073) (-)

Time-->





#90

Hexachlorobutadiene

Concen: 0.248 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

Instrument :

MSVOA_N

ClientSampled :

14B-1

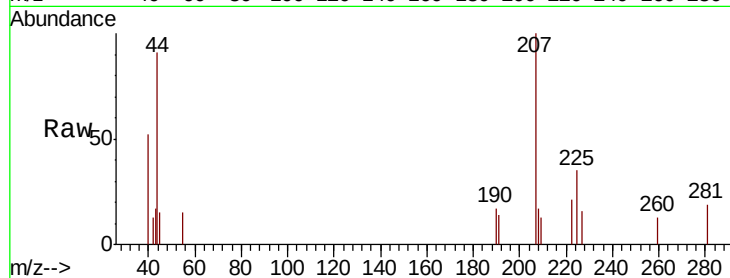
Tot Ion:225 Resp: 561

Ion Ratio Lower Upper

225 100

223 69.3 0.0 126.0

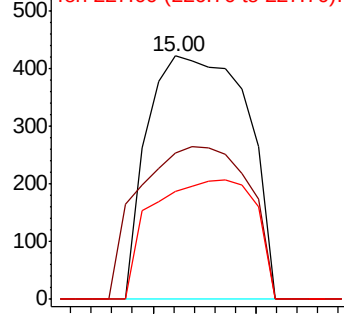
227 50.8 0.0 133.0



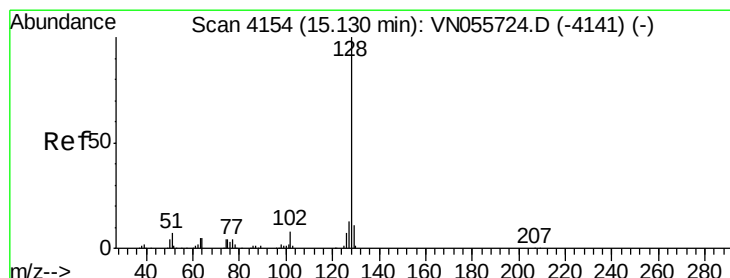
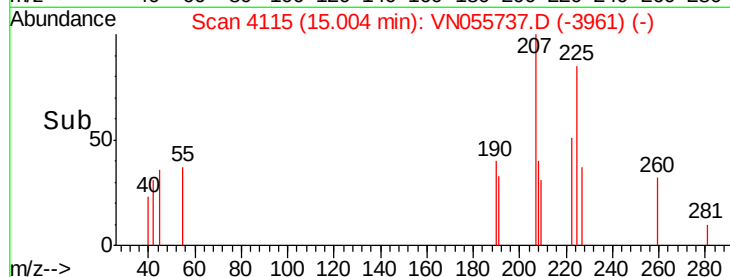
Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



Time-->



#91

Naphthalene

Concen: 0.586 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055737.D

Acq: 22 May 2019 23:37

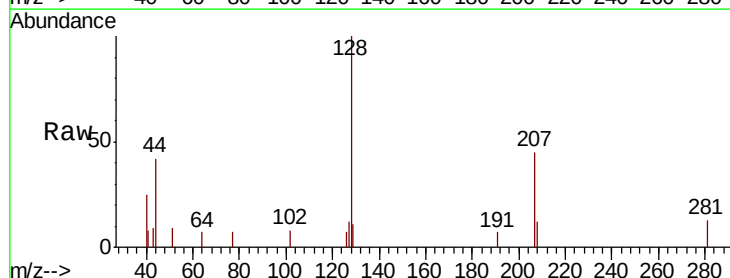
Tgt Ion:128 Resp: 4858

Ion Ratio Lower Upper

128 100

127 9.3 10.0 15.0#

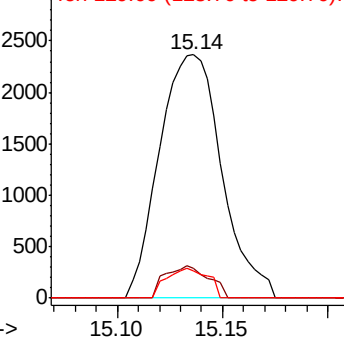
129 7.4 8.7 13.1#



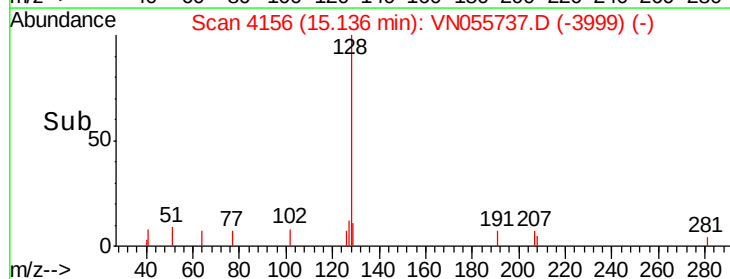
Abundance Ion 128.00 (127.70 to 128.70): V

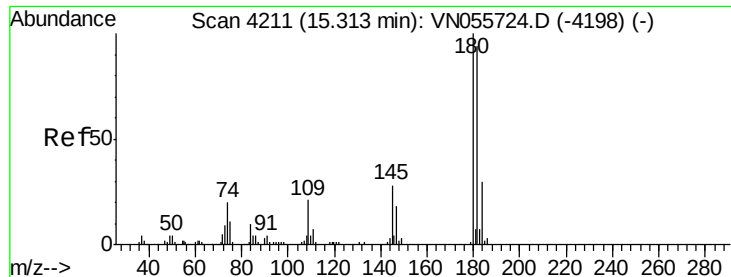
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

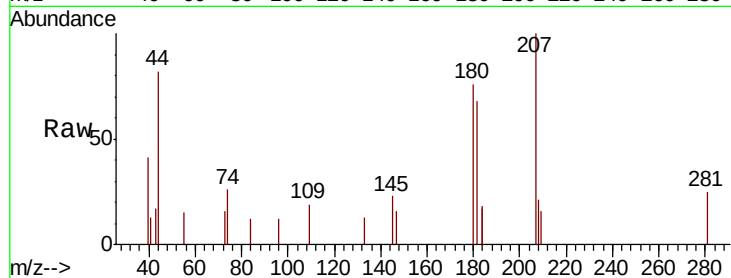




#92
 1,2,3-Trichlorobenzene
 Concen: 0.492 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN055737.D
 Acq: 22 May 2019 23:37

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Tot Ion:180 Resp: 1560
 Ion Ratio Lower Upper
 180 100
 182 85.3 0.0 188.6
 145 25.4 0.0 56.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

