

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055732.D
 Acq On : 22 May 2019 21:32
 Operator : JC/SP
 Sample : K2980-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: May 23 06:04:18 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	56921	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	303020	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	243665	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114081	30.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.20%
60) 4-Bromofluorobenzene	12.40	95	94275	24.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	82.90%
63) Toluene-d8	10.09	98	358560	32.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.33%

Target Compounds

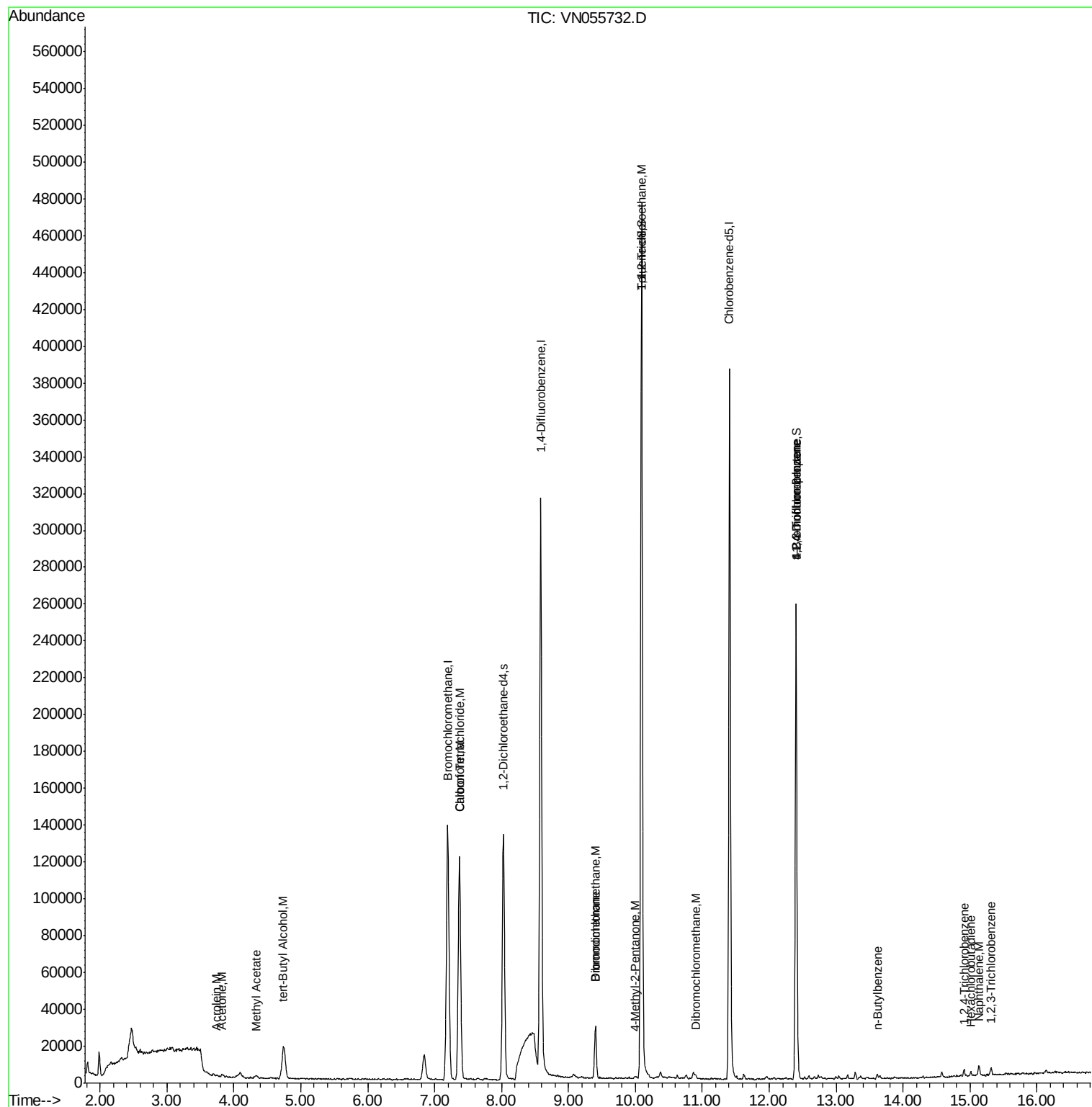
					Ovalue
12) Methyl Acetate	4.33	43	2003	0.545 ug/l #	73
13) Acrolein	3.74	56	172	0.337 ug/l	98
15) Acetone	3.83	58	400	0.769 ug/l #	1
23) tert-Butyl Alcohol	4.74	59	16621	22.591 ug/l #	100
25) Chloroform	7.37	83	132932	22.687 ug/l	100
33) Carbon Tetrachloride	7.37	117	1403	0.312 ug/l	89
40) Dibromomethane	9.40	93	549	0.241 ug/l #	7
41) Bromodichloromethane	9.40	83	19597	4.206 ug/l	99
50) 1,1,2-Trichloroethane	10.10	97	9667	2.921 ug/l #	1
53) Dibromochloromethane	10.90	129	1631	0.417 ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	847	0.210 ug/l #	51
72) 1,2,3-Trichloropropane	12.40	75	42766	11.466 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	42766	28.866 ug/l #	17
85) n-Butylbenzene	13.61	91	1887	0.203 ug/l	94
89) 1,2,4-Trichlorobenzene	14.90	180	1354	0.427 ug/l #	95
90) Hexachlorobutadiene	15.01	225	528	0.223 ug/l	98
91) Naphthalene	15.13	128	5154	0.594 ug/l #	97
92) 1,2,3-Trichlorobenzene	15.31	180	1769	0.533 ug/l	96

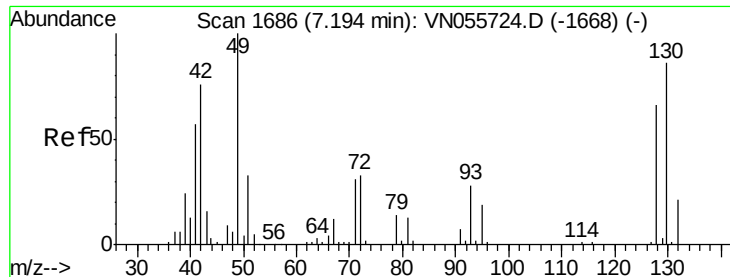
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 23 06:04:18 2019
Quant Method : Z:\V0ASRV\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

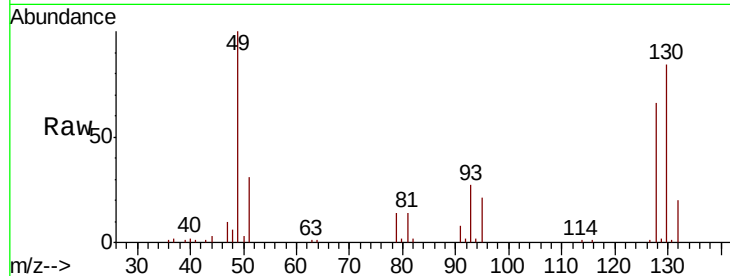




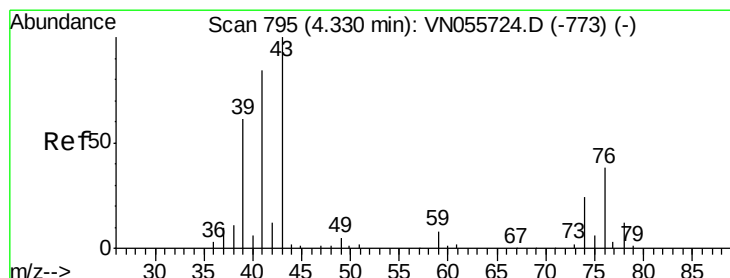
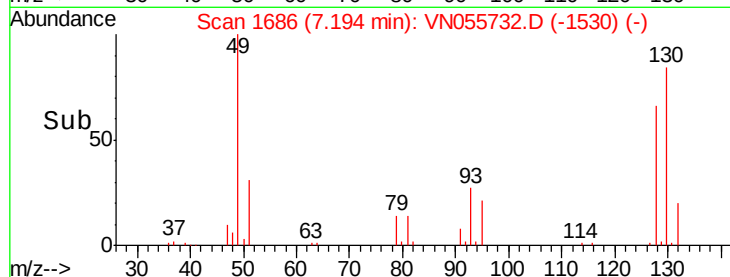
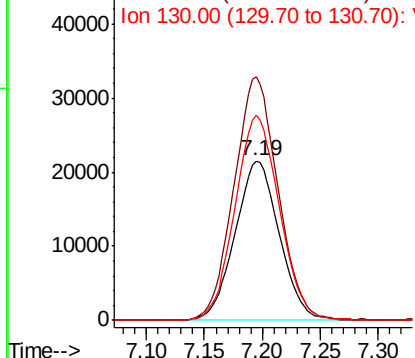
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN055732.D
Acq: 22 May 2019 21:32

Instrument :
MSVOA_N
ClientSampled :
14B-1

Tot Ion:128 Resp: 56921
Ion Ratio Lower Upper
128 100
49 152.3 0.0 383.2
130 129.4 0.0 326.3

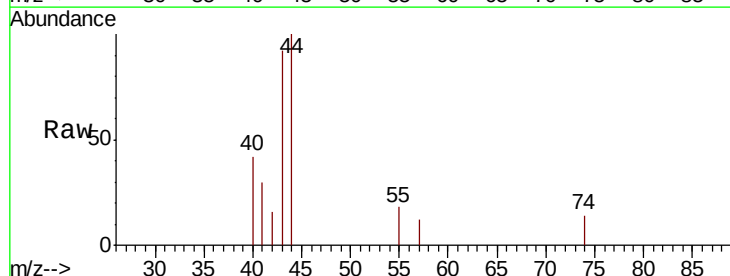


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

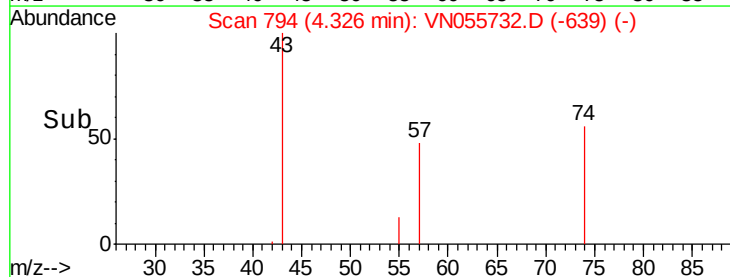
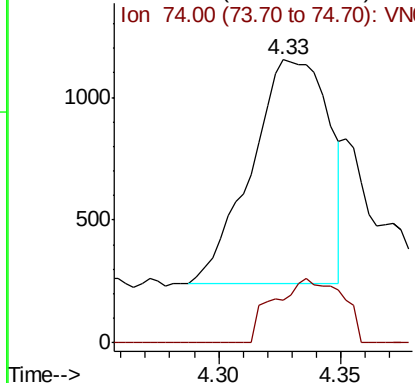


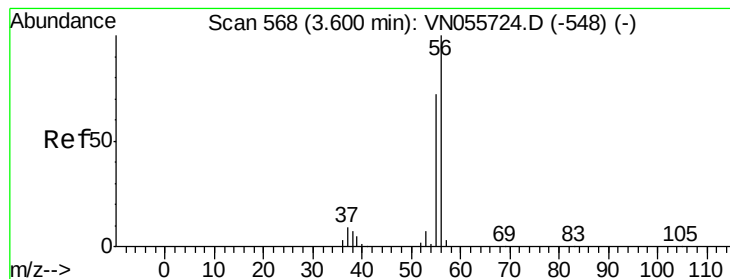
#12
Methyl Acetate
Concen: 0.545 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055732.D
Acq: 22 May 2019 21:32

Tgt Ion: 43 Resp: 2003
Ion Ratio Lower Upper
43 100
74 10.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 0.337 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.14 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampled :

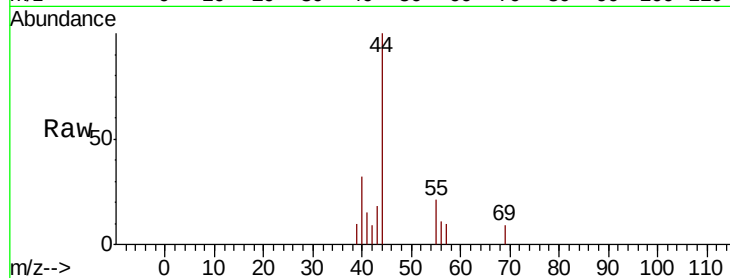
14B-1

Tot Ion: 56 Resp: 172

Ion Ratio Lower Upper

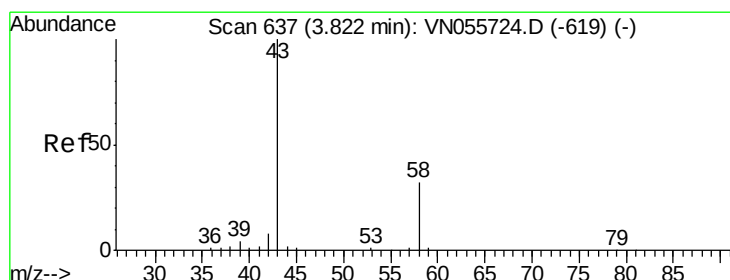
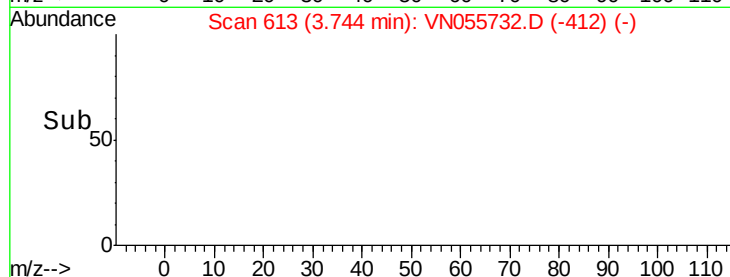
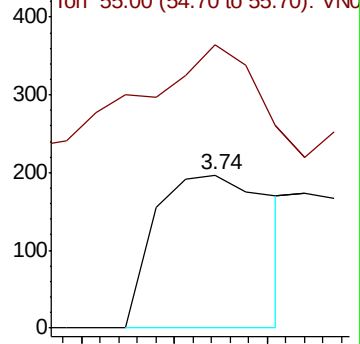
56 100

55 72.7 57.0 85.6



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 0.769 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055732.D

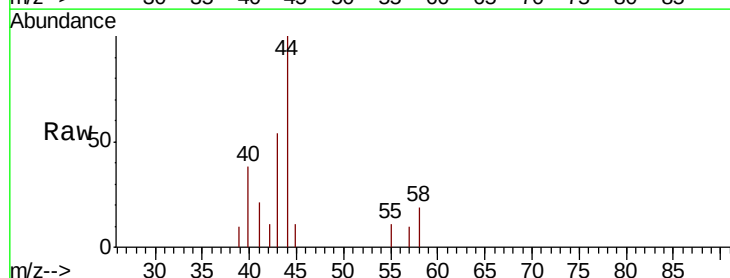
Acq: 22 May 2019 21:32

Tgt Ion: 58 Resp: 400

Ion Ratio Lower Upper

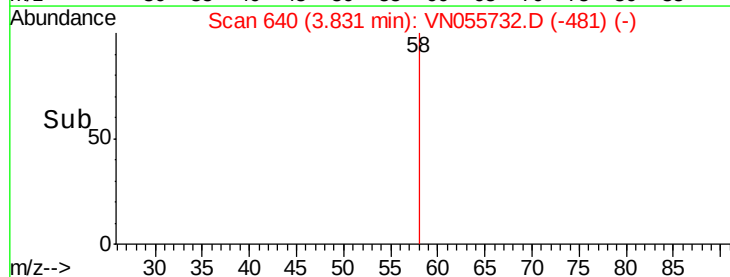
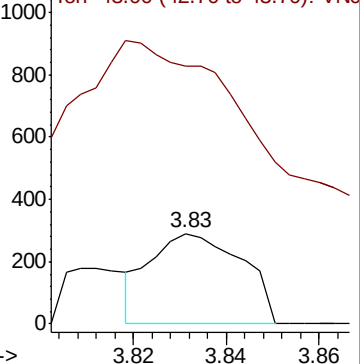
58 100

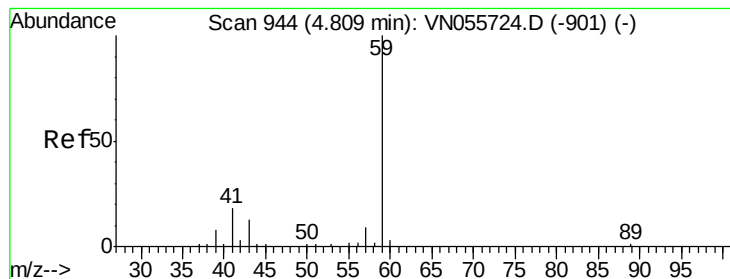
43 105.5 248.8 373.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

tert-Butyl Alcohol

Concen: 22.591 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampled :

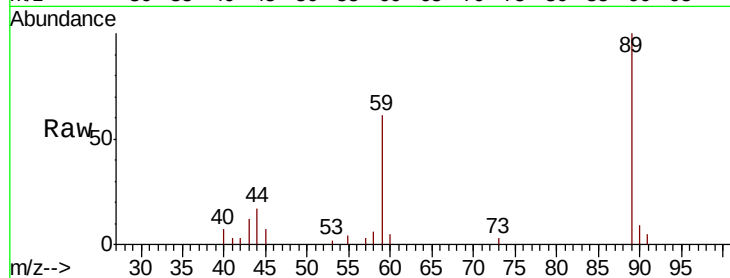
14B-1

Tot Ion: 59 Resp: 16621

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN055732.D (-901) (-)

Ion 52.00 (51.70 to 52.70): VN055732.D (-901) (-)

4.74

5000

4000

3000

2000

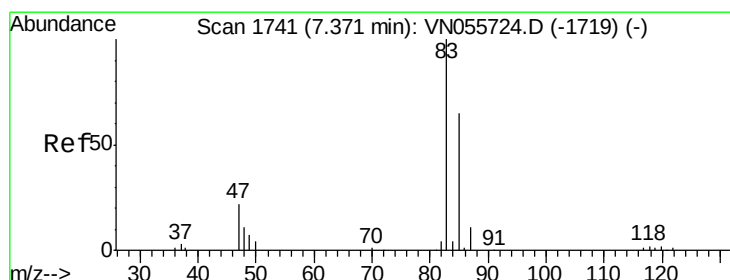
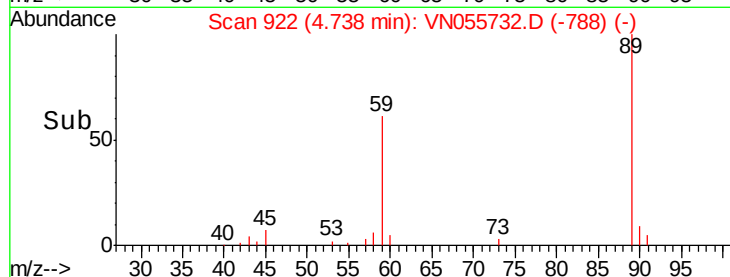
1000

0

4.70

4.80

Time-->



#25

Chloroform

Concen: 22.687 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055732.D

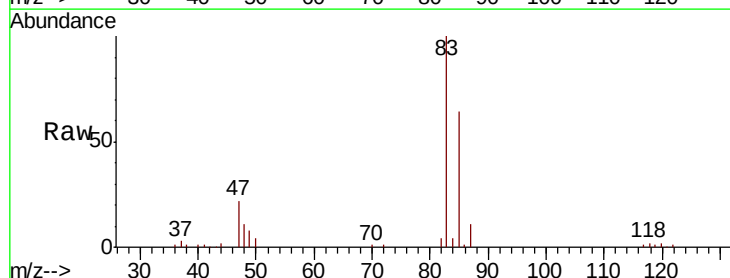
Acq: 22 May 2019 21:32

Tgt Ion: 83 Resp: 132932

Ion Ratio Lower Upper

83 100

85 64.5 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN055732.D (-1719) (-)

Ion 85.00 (84.70 to 85.70): VN055732.D (-1719) (-)

7.37

60000

50000

40000

30000

20000

10000

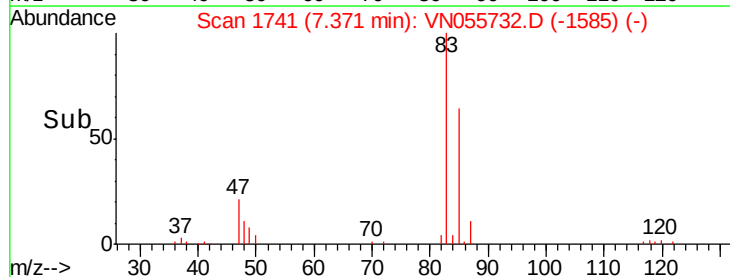
0

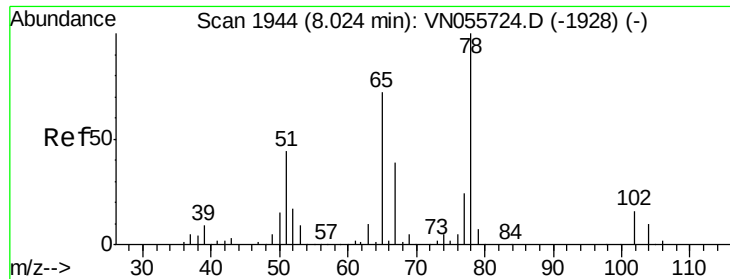
7.30

7.40

7.50

Time-->

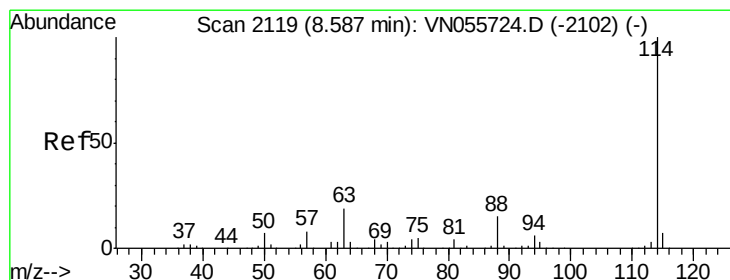
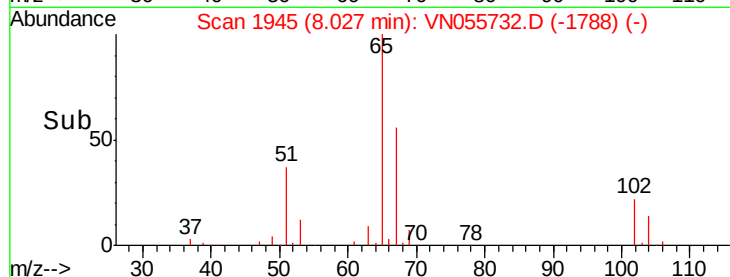
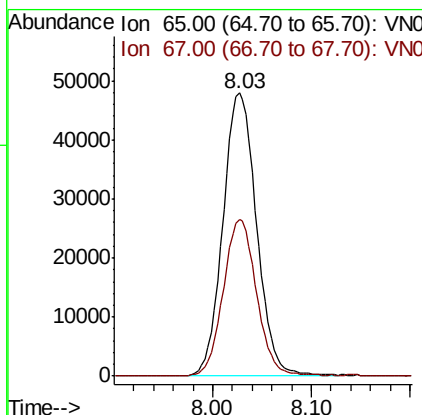
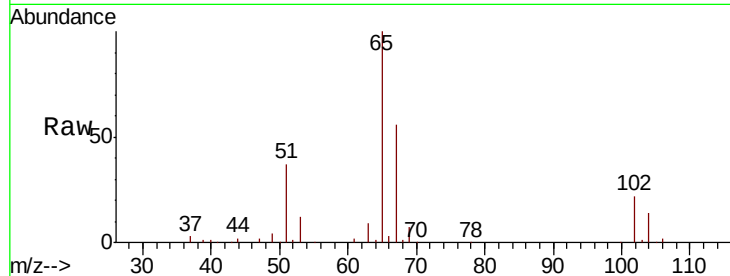




#27
 1,2-Dichloroethane-d4
 Concen: 30.662 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055732.D
 Acq: 22 May 2019 21:32

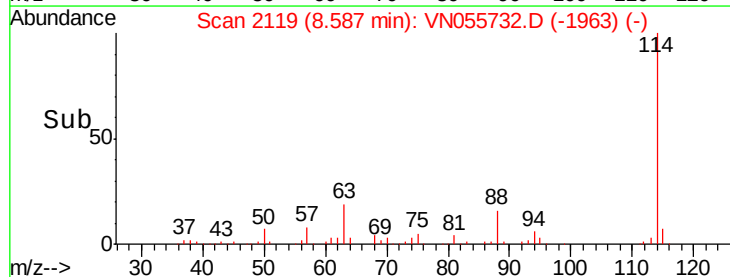
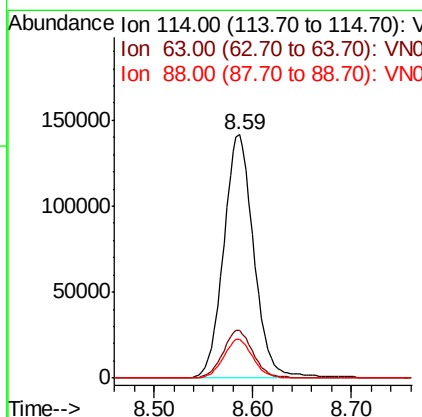
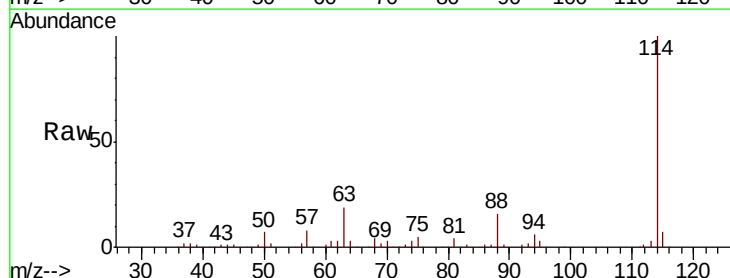
Instrument :
 MSVOA_N
 ClientSampled :
 14B-1

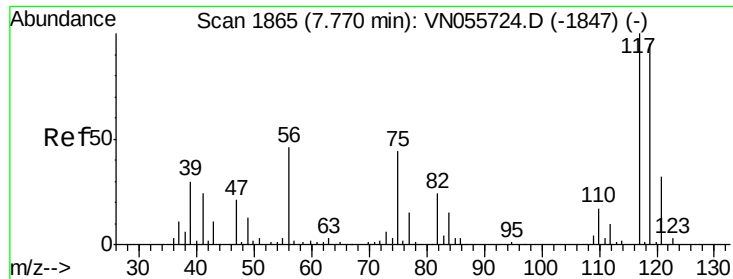
Tot Ion: 65 Resp: 114081
 Ion Ratio Lower Upper
 65 100
 67 54.7 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055732.D
 Acq: 22 May 2019 21:32

Tgt Ion: 114 Resp: 303020
 Ion Ratio Lower Upper
 114 100
 63 19.6 15.6 23.4
 88 15.5 12.3 18.5

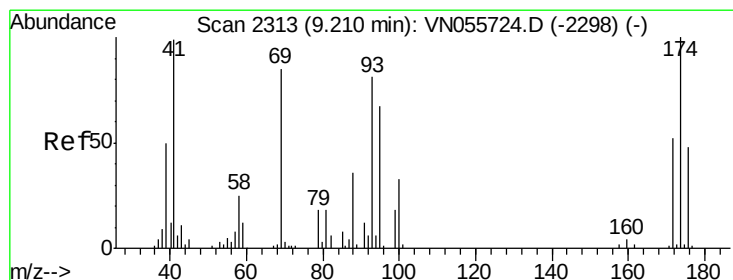
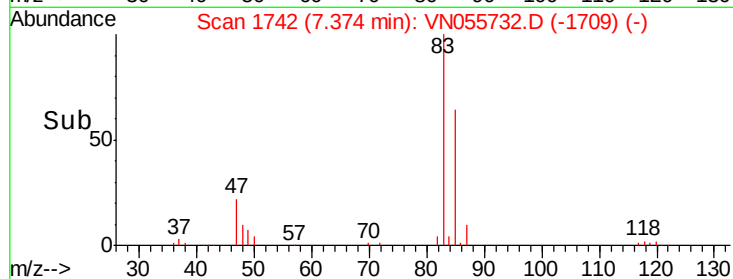
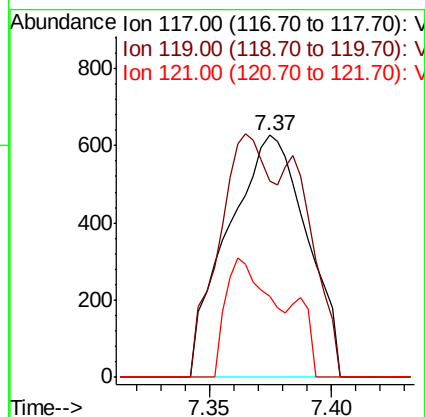
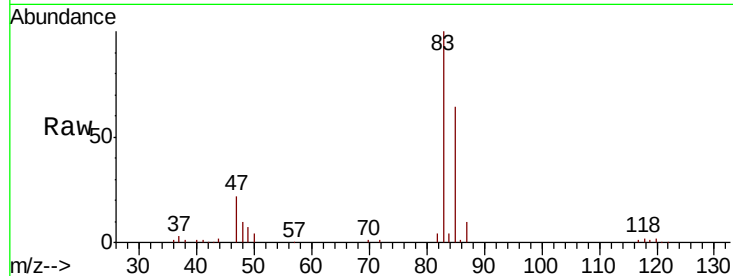




#33
Carbon Tetrachloride
Concen: 0.312 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.40 min
Lab File: VN055732.D
Acq: 22 May 2019 21:32

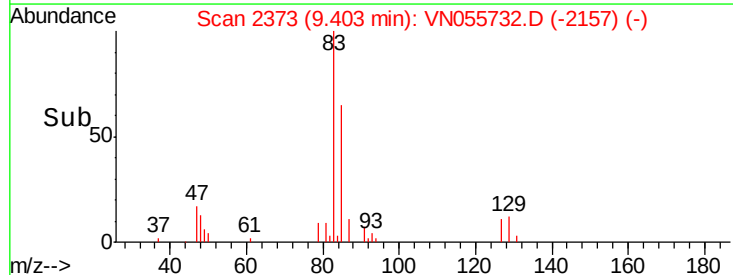
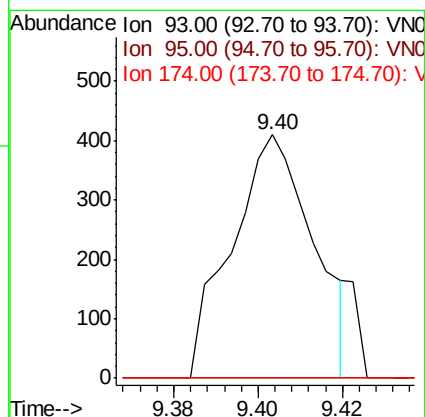
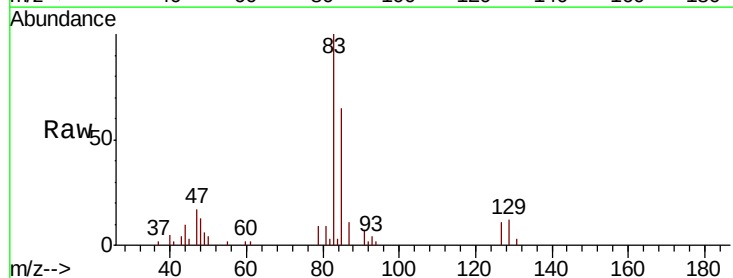
Instrument :
MSVOA_N
ClientSampleId :
14B-1

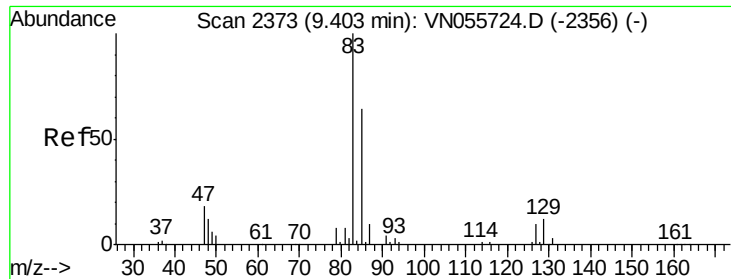
Tot Ion:117 Resp: 1403
Ion Ratio Lower Upper
117 100
119 81.3 75.8 113.8
121 33.5 25.4 38.0



#40
Dibromomethane
Concen: 0.241 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.19 min
Lab File: VN055732.D
Acq: 22 May 2019 21:32

Tgt Ion: 93 Resp: 549
Ion Ratio Lower Upper
93 100
95 23.1 0.0 170.6
174 0.0 0.0 248.4





#41

Bromodichloromethane

Concen: 4.206 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampled :

14B-1

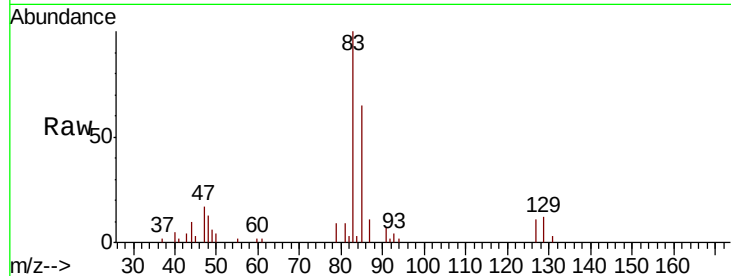
Tot Ion: 83 Resp: 19597

Ion Ratio Lower Upper

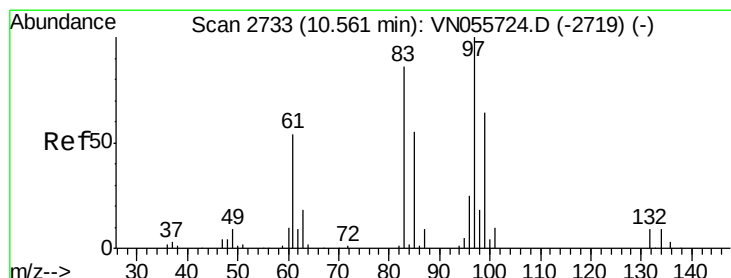
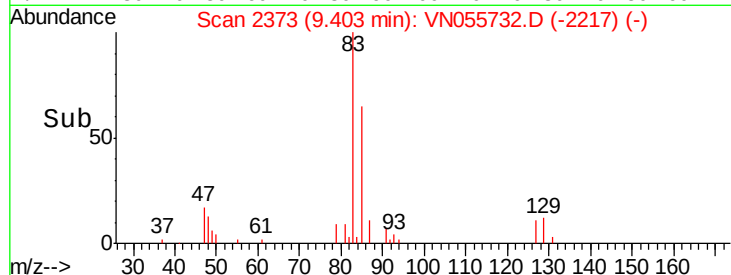
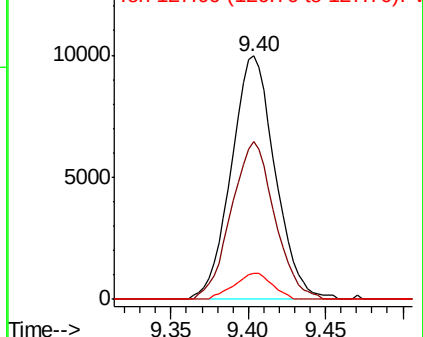
83 100

85 64.6 51.4 77.0

127 10.8 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: 2.921 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Tgt Ion: 97 Resp: 9667

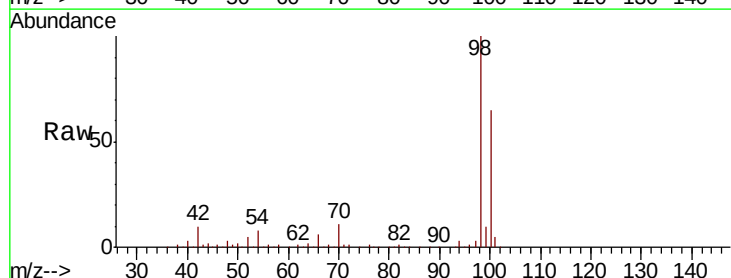
Ion Ratio Lower Upper

97 100

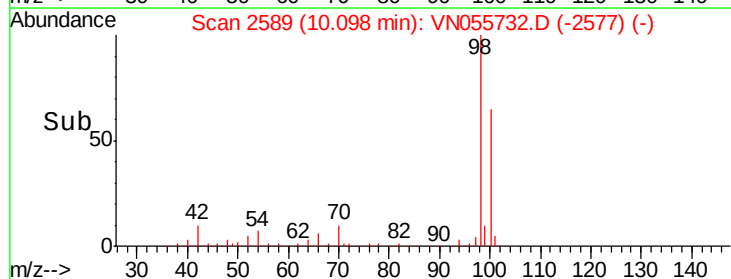
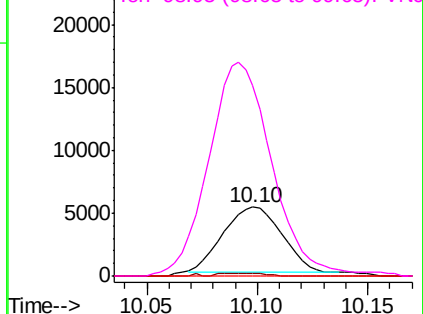
83 4.2 68.9 103.3#

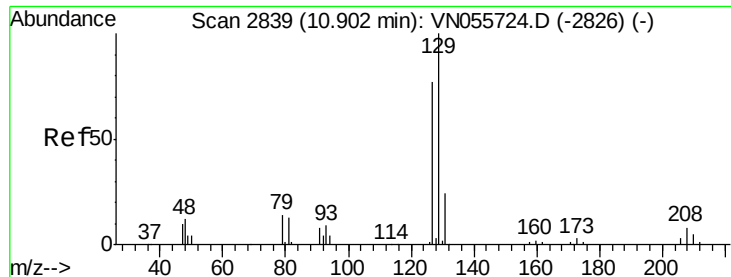
85 0.0 44.3 66.5#

99 280.6 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: 0.417 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampled :

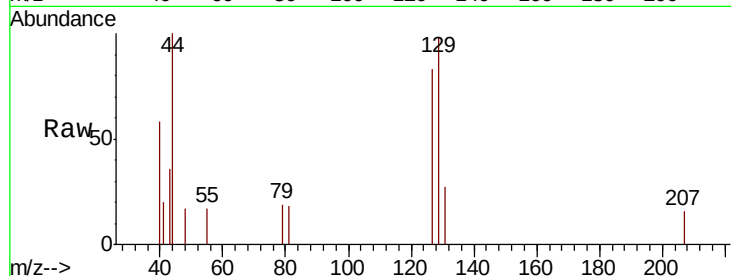
14B-1

Tot Ion:129 Resp: 1631

Ion Ratio Lower Upper

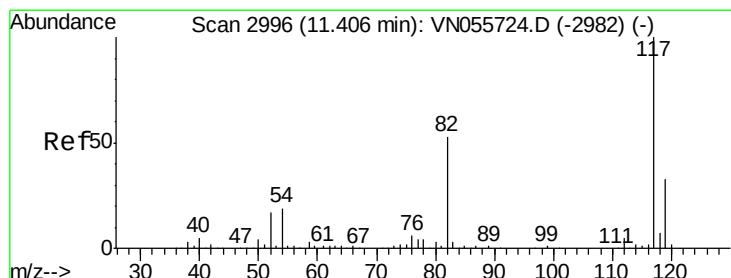
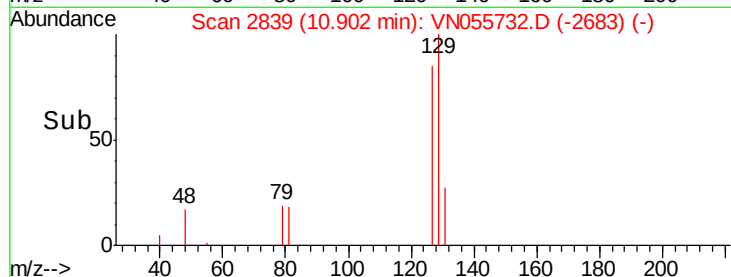
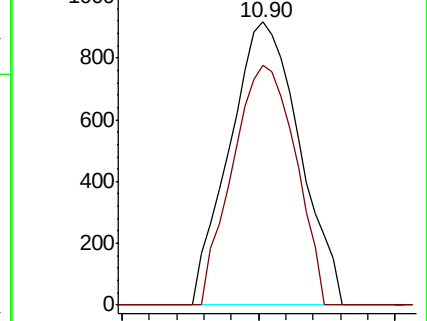
129 100

127 76.1 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

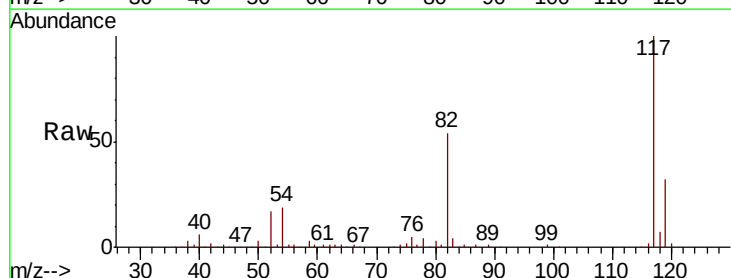
Tgt Ion:117 Resp: 243665

Ion Ratio Lower Upper

117 100

82 53.5 42.6 64.0

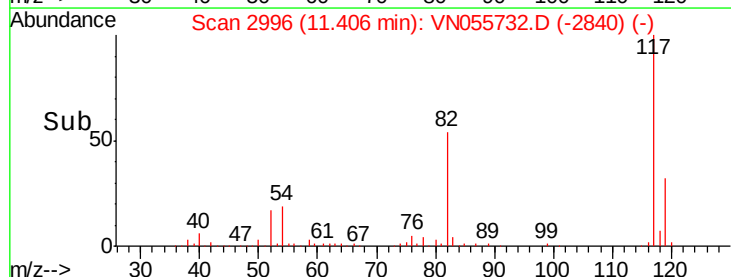
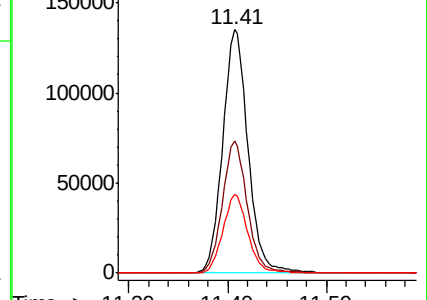
119 32.0 25.9 38.9

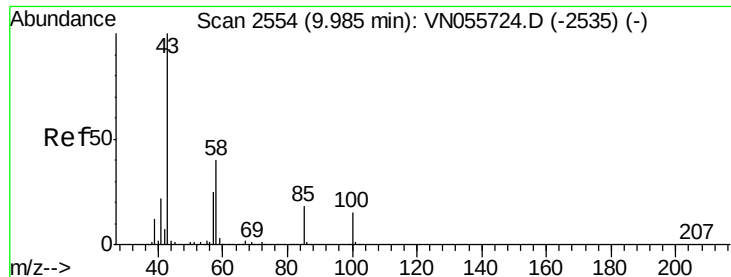


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

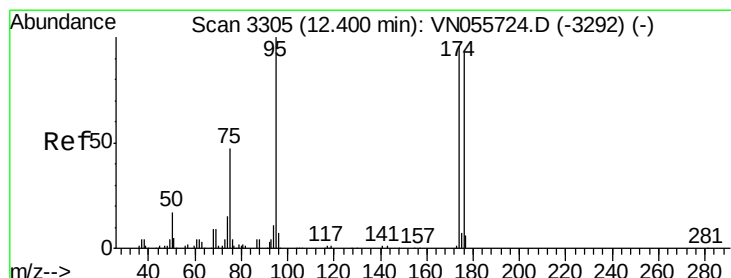
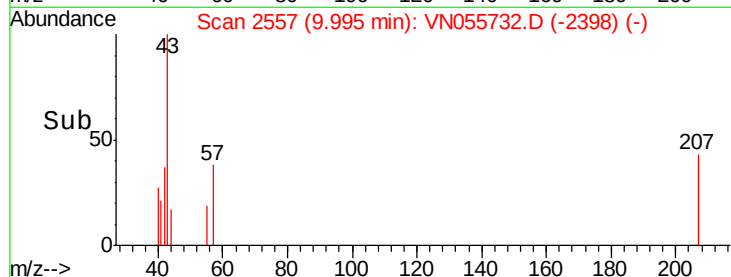
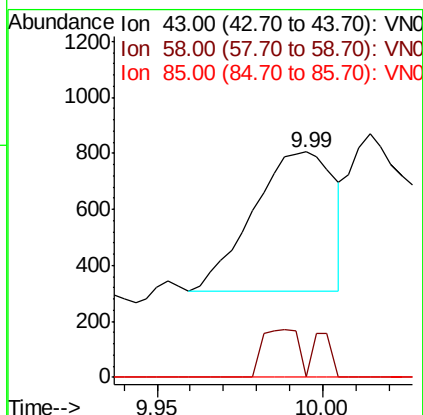
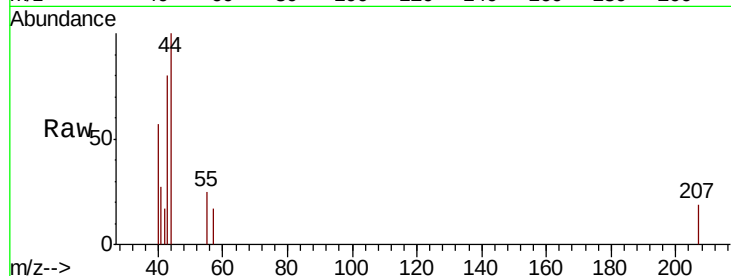




#58
4-Methyl-2-Pentanone
Concen: 0.210 ug/l
RT: 9.99 min Scan# 2557
Delta R.T. 0.01 min
Lab File: VN055732.D
Acq: 22 May 2019 21:32

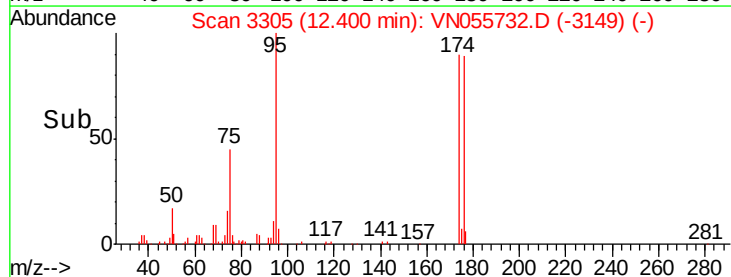
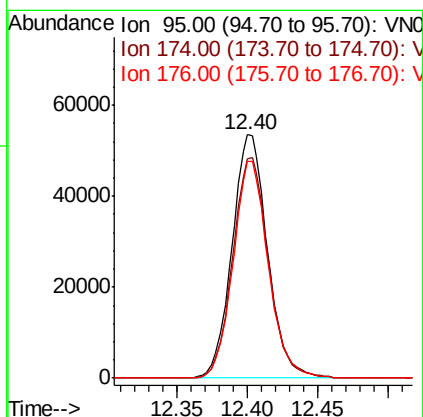
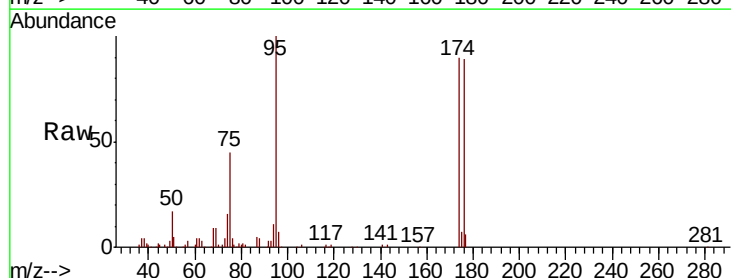
Instrument :
MSVOA_N
ClientSampled :
14B-1

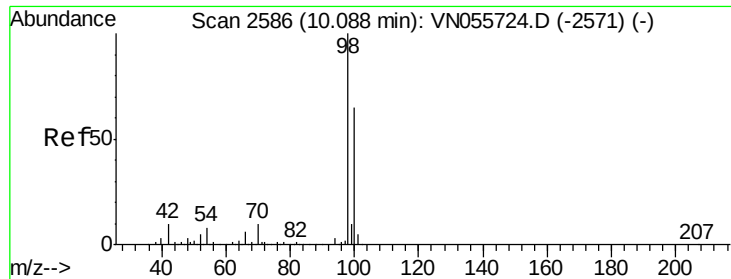
Tot Ion: 43 Resp: 847
Ion Ratio Lower Upper
43 100
58 7.2 31.7 47.5#
85 0.0 14.5 21.7#



#60
4-Bromofluorobenzene
Concen: 24.871 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055732.D
Acq: 22 May 2019 21:32

Tgt Ion: 95 Resp: 94275
Ion Ratio Lower Upper
95 100
174 91.2 75.7 113.5
176 88.4 74.1 111.1





#63

Toluene-d8

Concen: 32.200 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

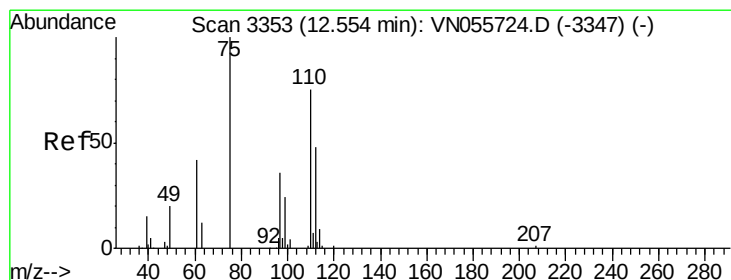
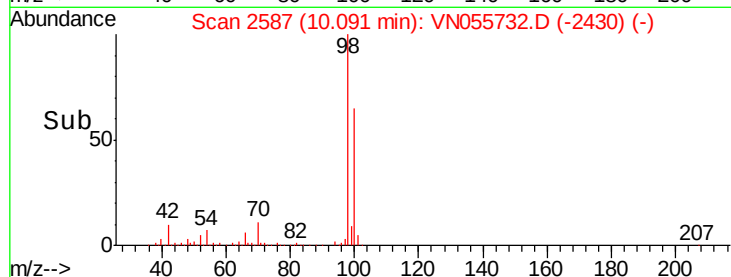
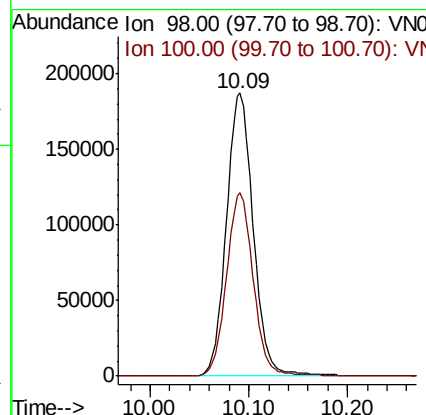
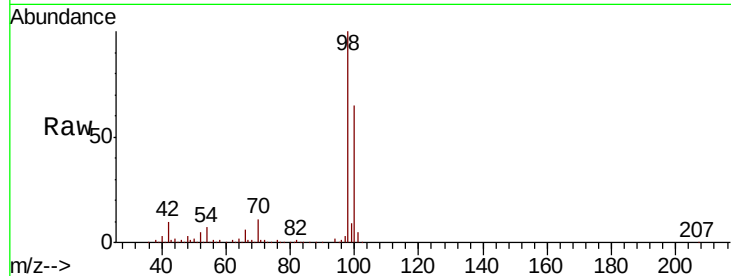
14B-1

Tot Ion: 98 Resp: 358560

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4



#72

1,2,3-Trichloropropane

Concen: 11.466 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055732.D

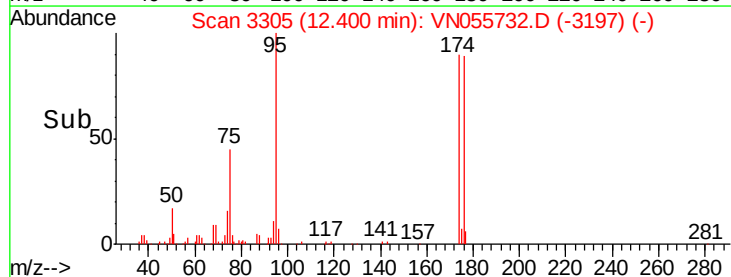
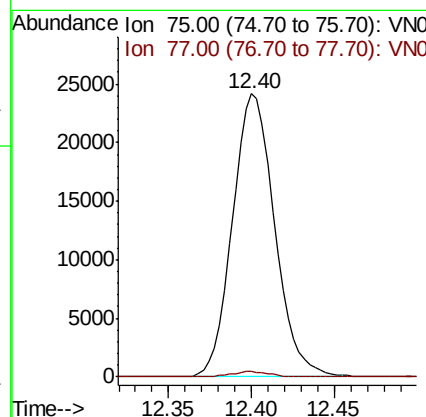
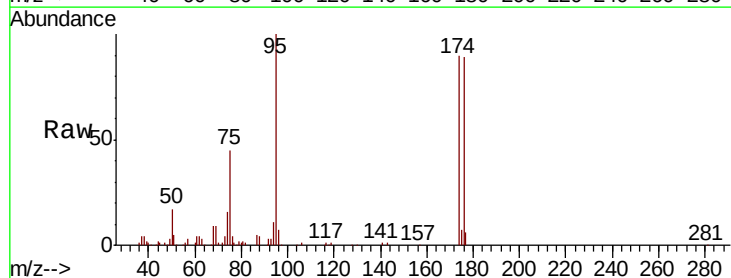
Acq: 22 May 2019 21:32

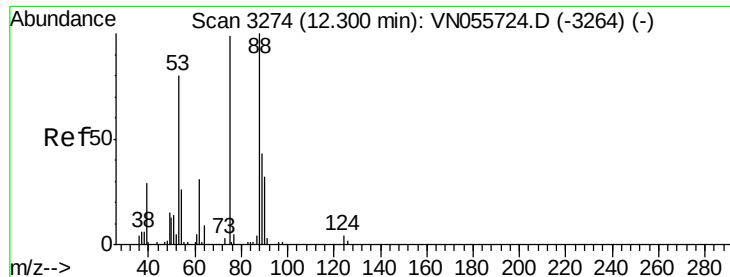
Tgt Ion: 75 Resp: 42766

Ion Ratio Lower Upper

75 100

77 1.6 0.0 349.8





#77

t-1,4-Dichloro-2-butene

Concen: 28.866 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

14B-1

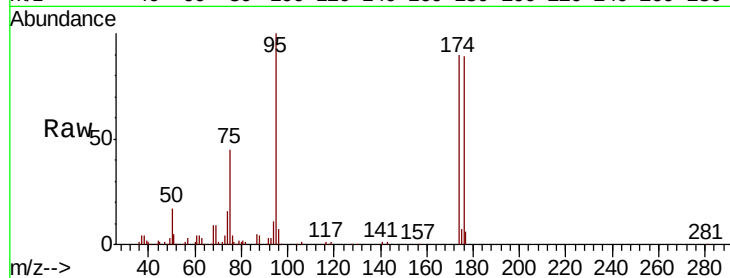
Tot Ion: 75 Resp: 42766

Ion Ratio Lower Upper

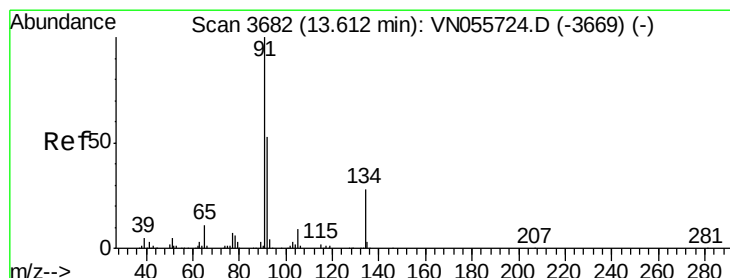
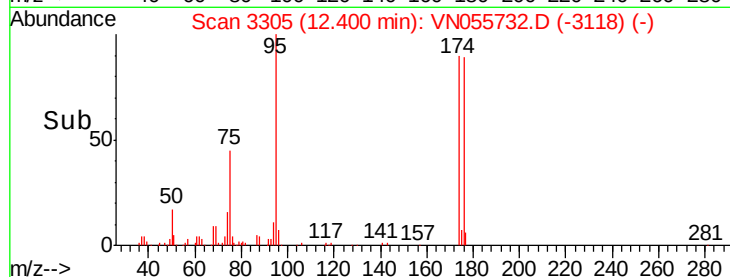
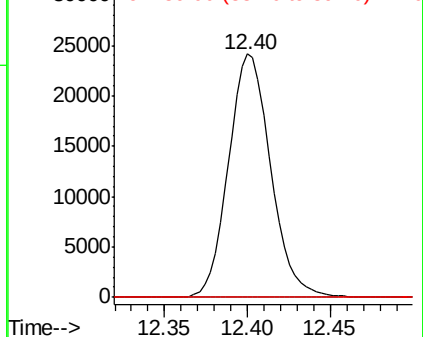
75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 89.00 (88.70 to 89.70): VN0



#85

n-Butylbenzene

Concen: 0.203 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

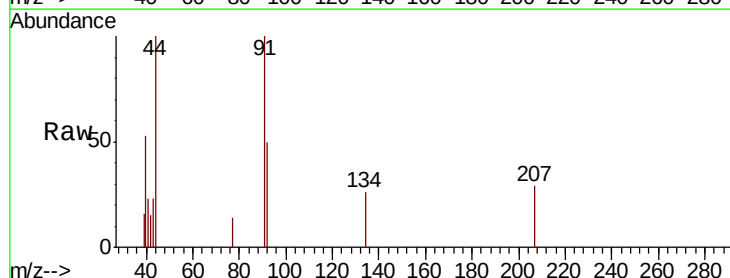
Tgt Ion: 91 Resp: 1887

Ion Ratio Lower Upper

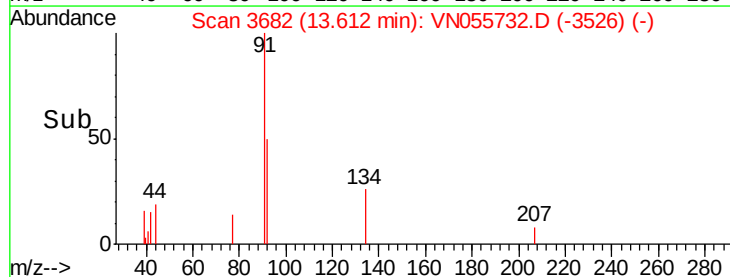
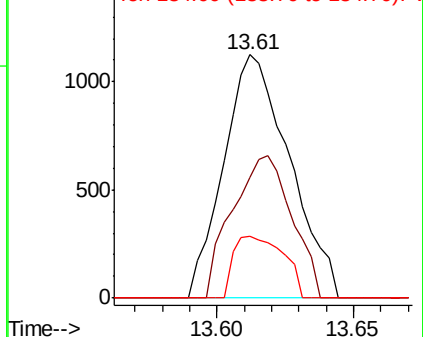
91 100

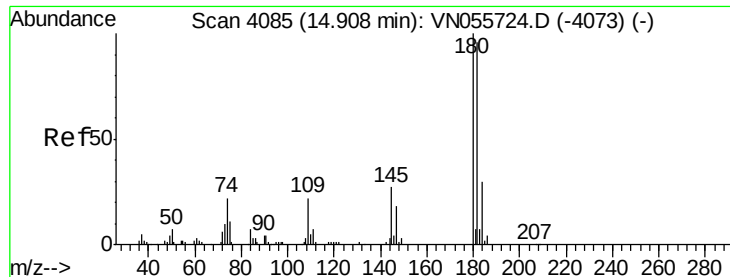
92 53.0 0.0 106.8

134 19.3 0.0 55.2



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

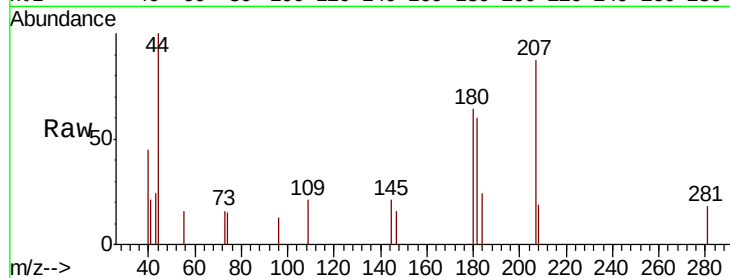




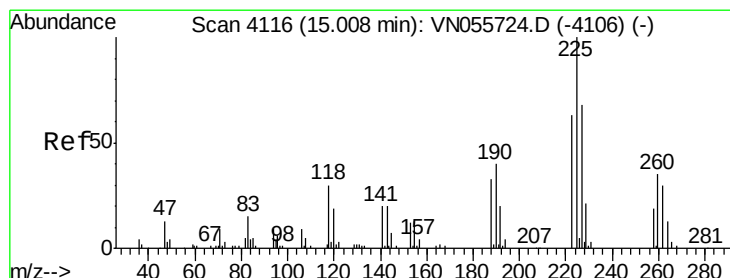
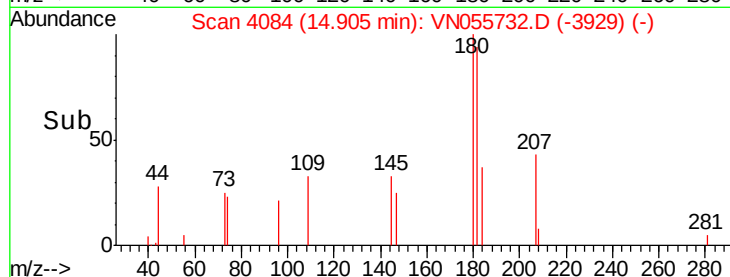
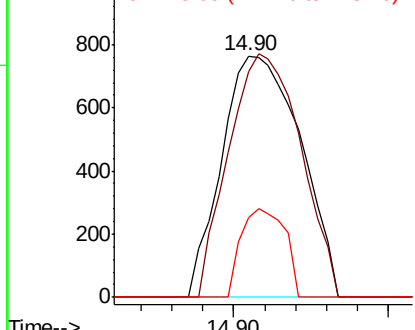
#89
 1,2,4-Trichlorobenzene
 Concen: 0.427 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055732.D
 Acq: 22 May 2019 21:32

Instrument :
 MSVOA_N
 ClientSampled :
 14B-1

Tot Ion:180 Resp: 1354
 Ion Ratio Lower Upper
 180 100
 182 92.3 76.1 114.1
 145 20.3 21.8 32.8#

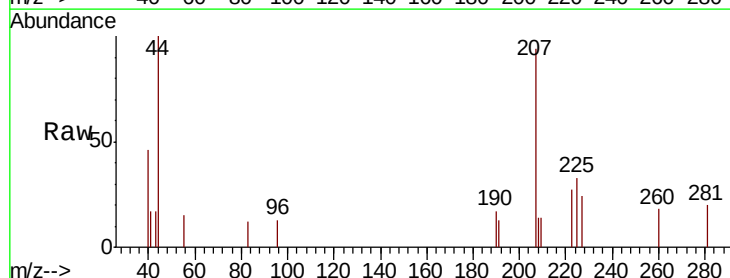


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

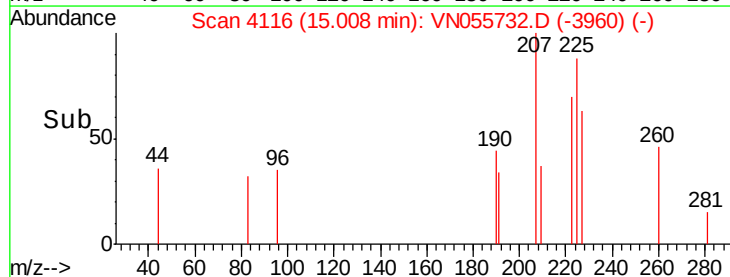
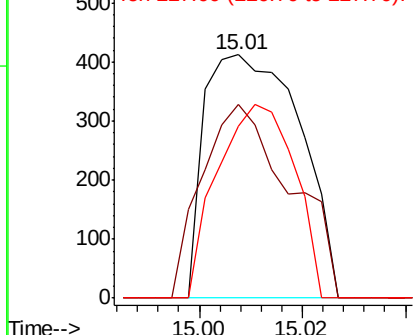


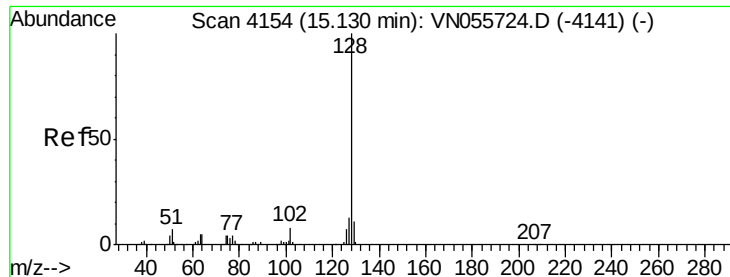
#90
 Hexachlorobutadiene
 Concen: 0.223 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055732.D
 Acq: 22 May 2019 21:32

Tgt Ion:225 Resp: 528
 Ion Ratio Lower Upper
 225 100
 223 61.2 0.0 126.0
 227 64.4 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





#91

Naphthalene

Concen: 0.594 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

14B-1

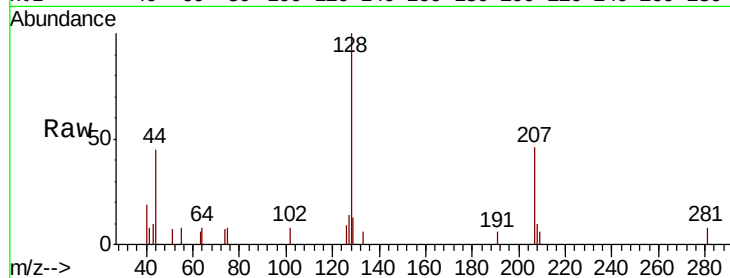
Tot Ion:128 Resp: 5154

Ion Ratio Lower Upper

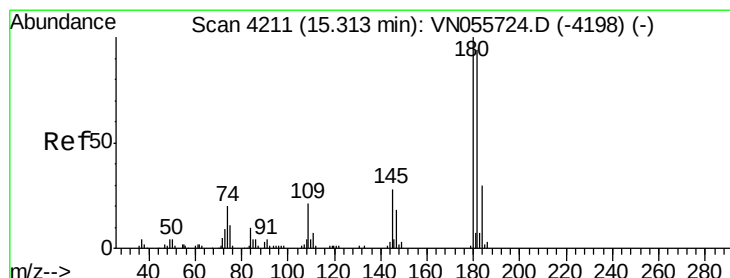
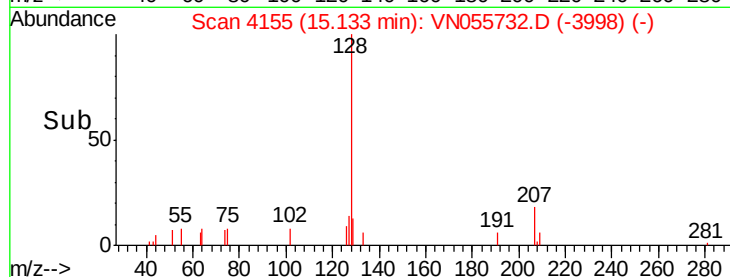
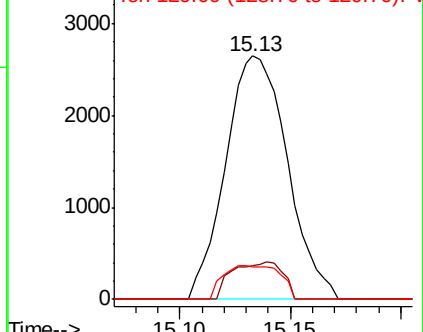
128 100

127 12.6 10.0 15.0

129 8.4 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



#92

1,2,3-Trichlorobenzene

Concen: 0.533 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055732.D

Acq: 22 May 2019 21:32

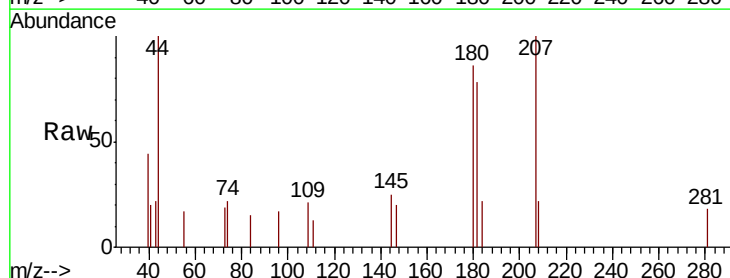
Tgt Ion:180 Resp: 1769

Ion Ratio Lower Upper

180 100

182 92.5 0.0 188.6

145 21.4 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

