

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055735.D
 Acq On : 22 May 2019 22:47
 Operator : JC/SP
 Sample : K2980-04 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: May 23 06:05:02 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	57633	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	306274	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	243106	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113399	30.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.33%
60) 4-Bromofluorobenzene	12.40	95	91235	24.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.40%
63) Toluene-d8	10.09	98	359140	32.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.77%

Target Compounds

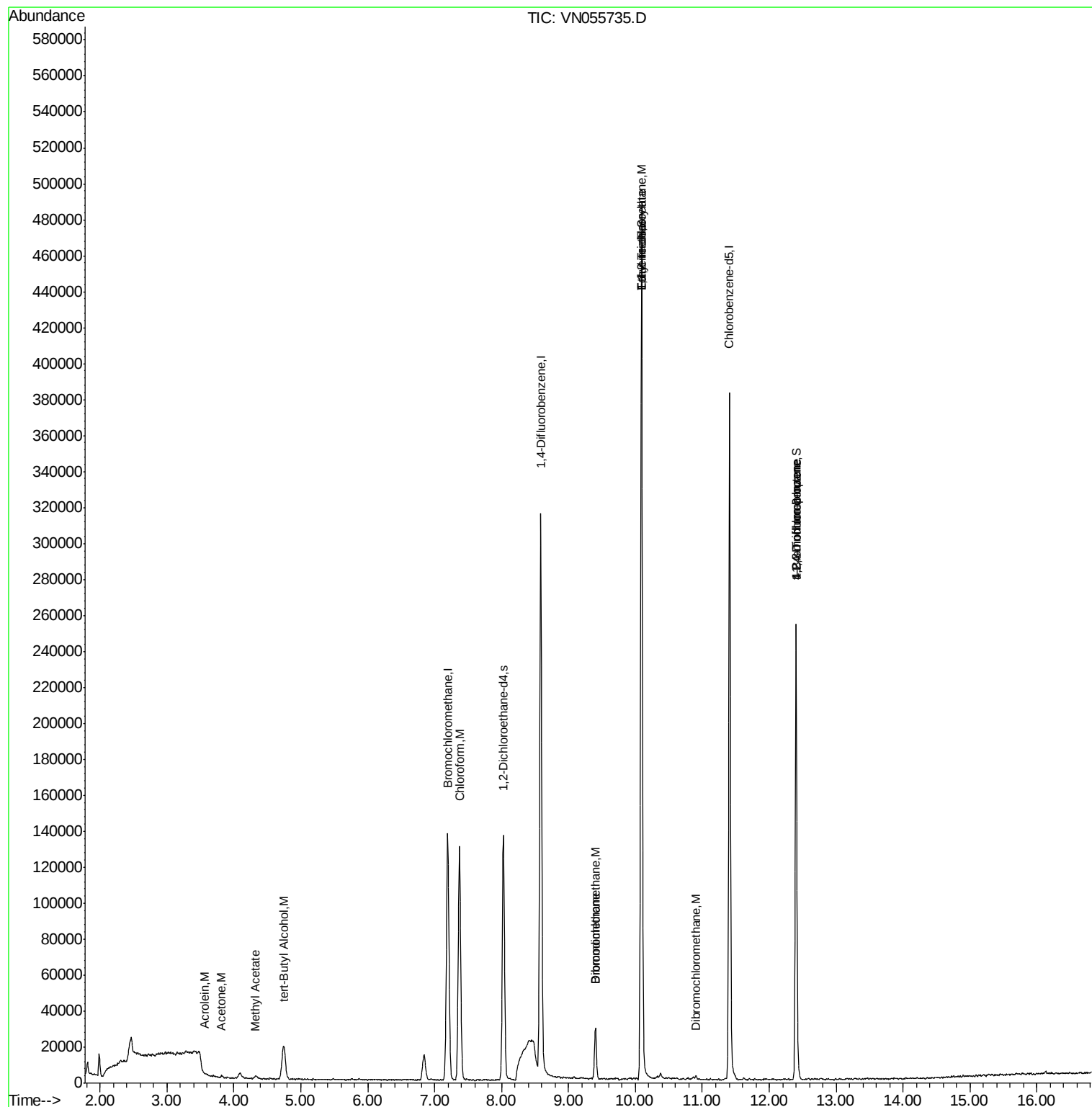
					Ovalue	
12) Methyl Acetate	4.33	43	1633	0.439	ug/l #	83
13) Acrolein	3.57	56	170	0.329	ug/l	98
15) Acetone	3.81	58	142	0.270	ug/l #	44
23) tert-Butyl Alcohol	4.74	59	18231	24.473	ug/l #	100
25) Chloroform	7.37	83	139114	23.448	ug/l	99
40) Dibromomethane	9.41	93	535	0.233	ug/l #	1
41) Bromodichloromethane	9.40	83	21255	4.513	ug/l	97
50) 1,1,2-Trichloroethane	10.10	97	10813	3.232	ug/l #	1
51) Ethyl methacrylate	10.09	69	1227	0.228	ug/l	91
53) Dibromochloromethane	10.90	129	1575	0.399	ug/l	93
72) 1,2,3-Trichloropropane	12.40	75	41282	11.094	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	41282	27.929	ug/l #	17

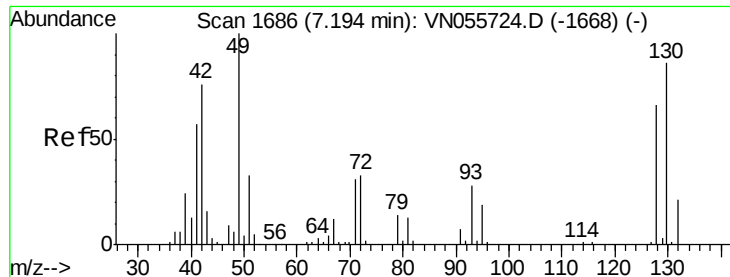
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :
14B-4

Quant Time: May 23 06:05:02 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: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

14B-4

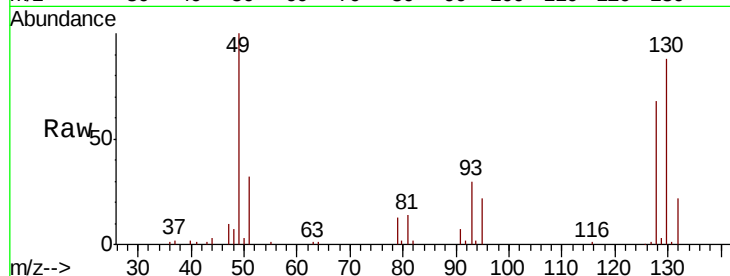
Tot Ion:128 Resp: 57633

Ion Ratio Lower Upper

128 100

49 149.2 0.0 383.2

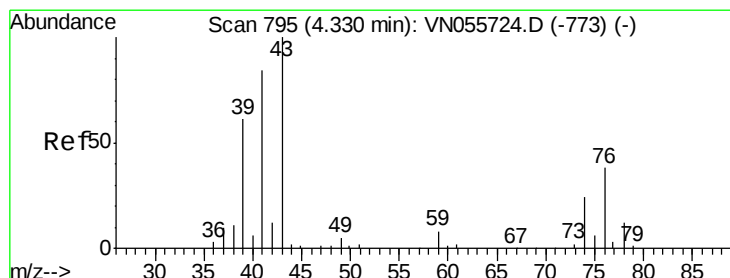
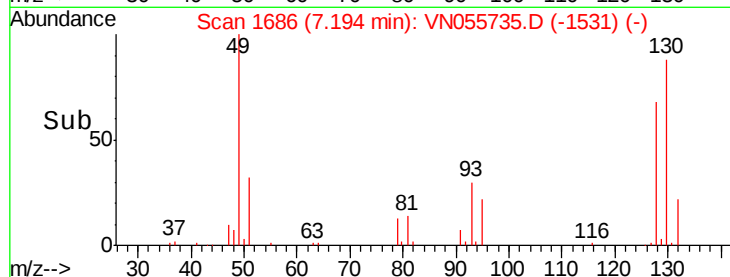
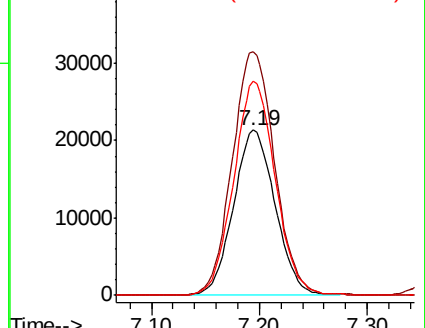
130 129.2 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.439 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN055735.D

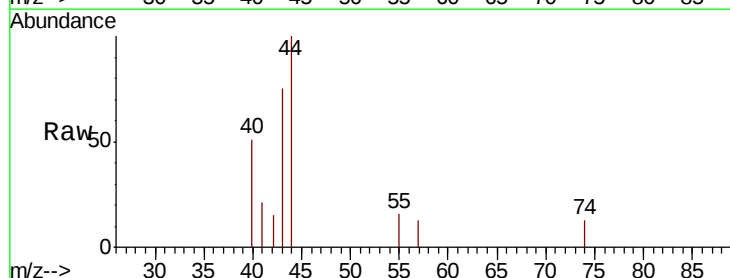
Acq: 22 May 2019 22:47

Tgt Ion: 43 Resp: 1633

Ion Ratio Lower Upper

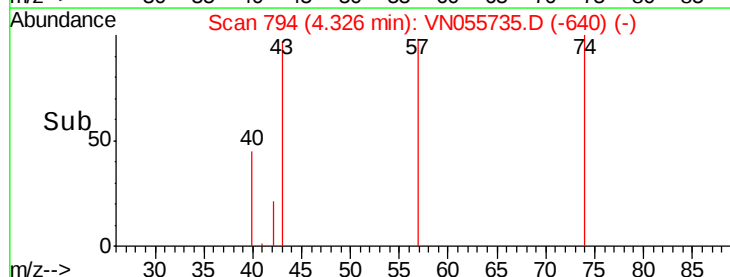
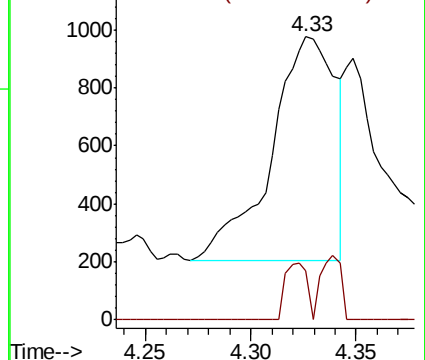
43 100

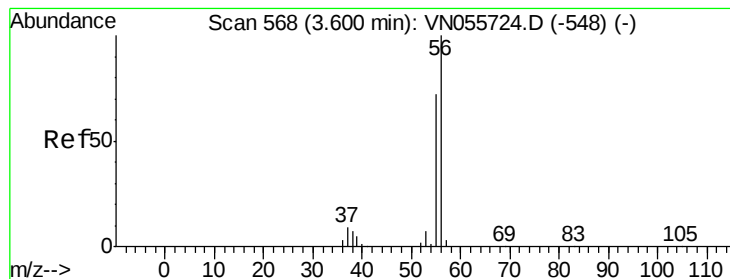
74 15.4 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.329 ug/l

RT: 3.57 min Scan# 558

Delta R.T. -0.03 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

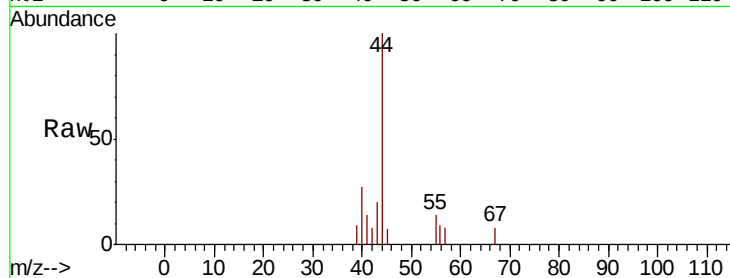
14B-4

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

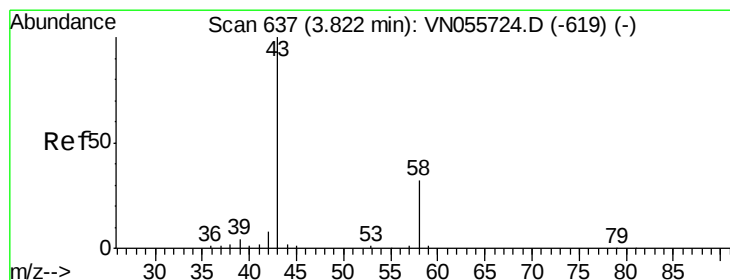
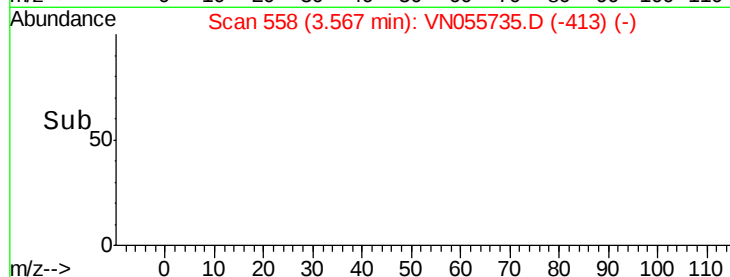
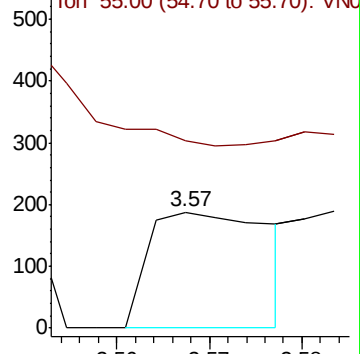
56 100

55 69.4 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: 0.270 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN055735.D

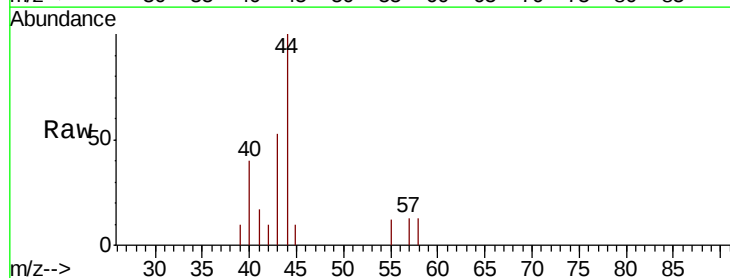
Acq: 22 May 2019 22:47

Tgt Ion: 58 Resp: 142

Ion Ratio Lower Upper

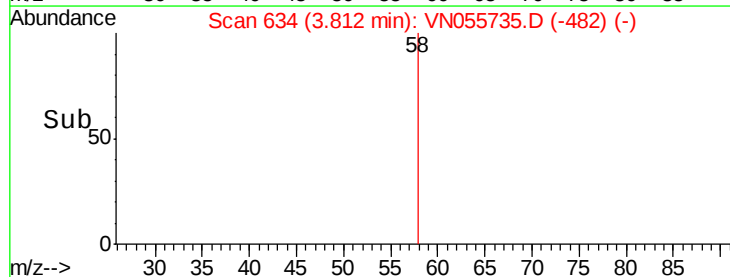
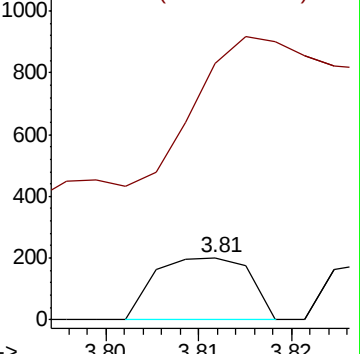
58 100

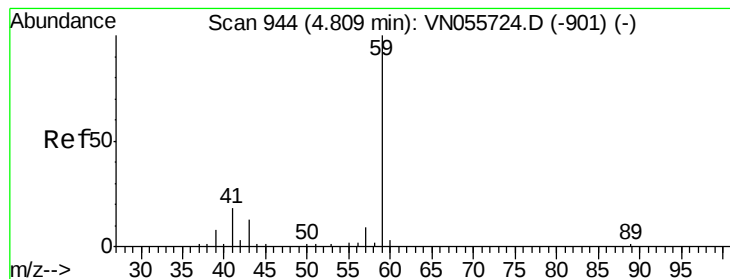
43 198.5 248.8 373.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

tert-Butyl Alcohol

Concen: 24.473 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

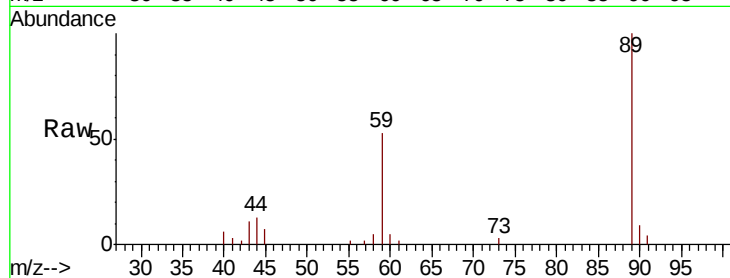
14B-4

Tot Ion: 59 Resp: 18231

Ion Ratio Lower Upper

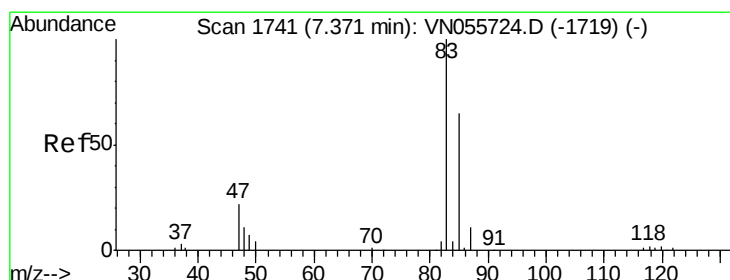
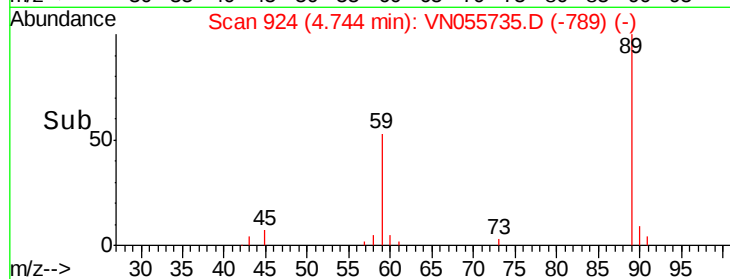
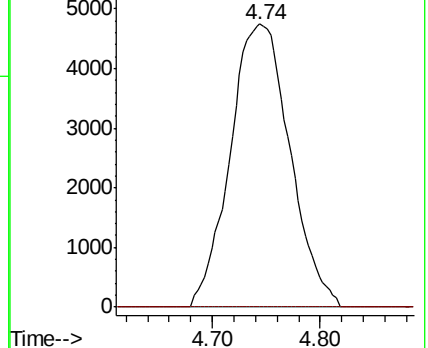
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#25

Chloroform

Concen: 23.448 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055735.D

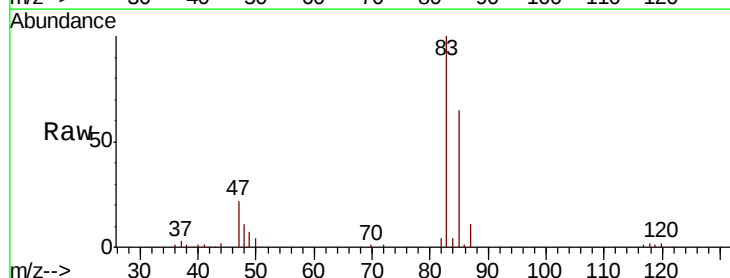
Acq: 22 May 2019 22:47

Tgt Ion: 83 Resp: 139114

Ion Ratio Lower Upper

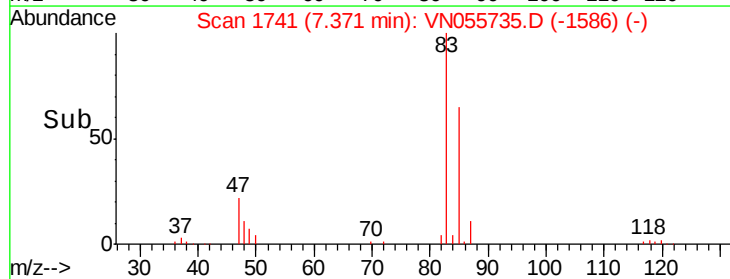
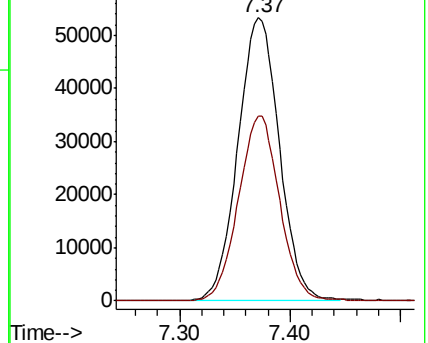
83 100

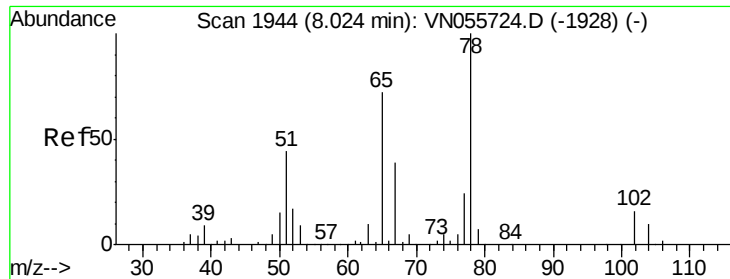
85 65.4 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

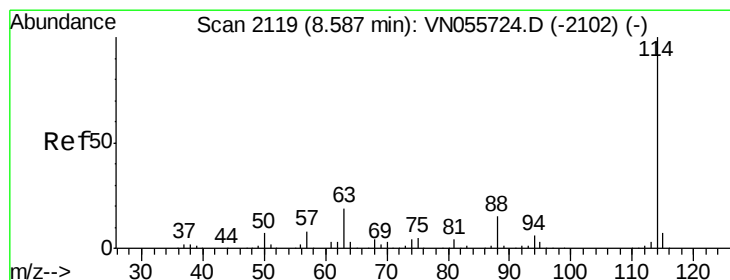
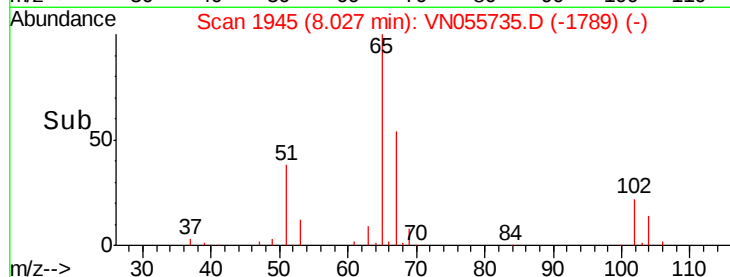
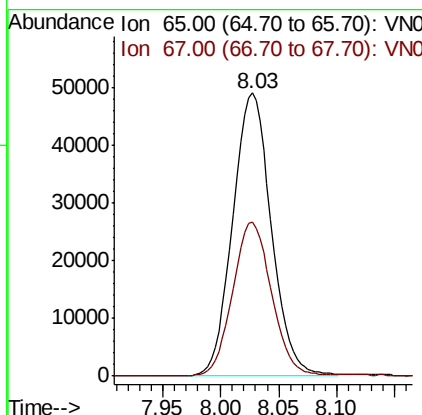
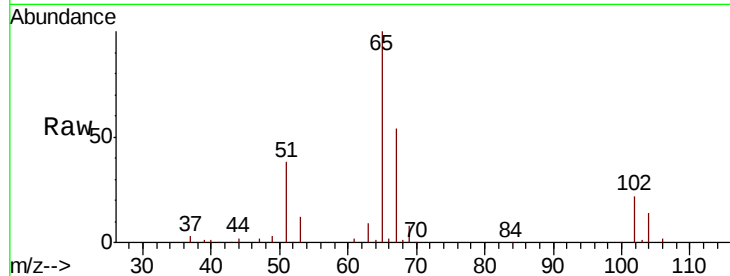




#27
 1,2-Dichloroethane-d4
 Concen: 30.103 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055735.D
 Acq: 22 May 2019 22:47

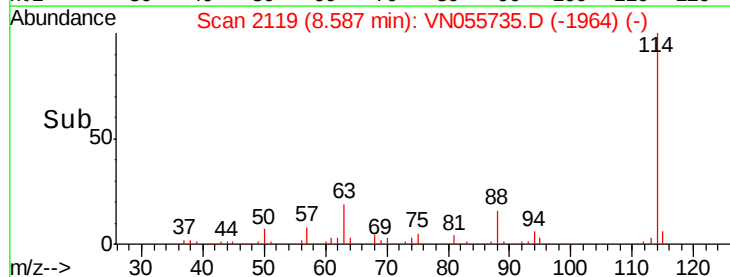
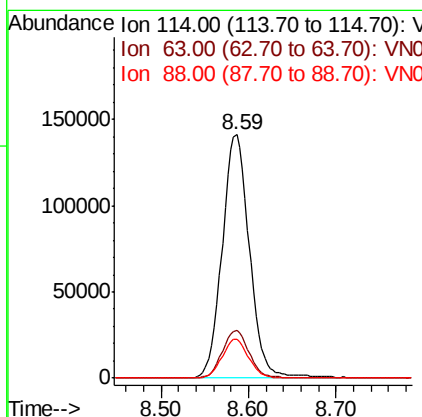
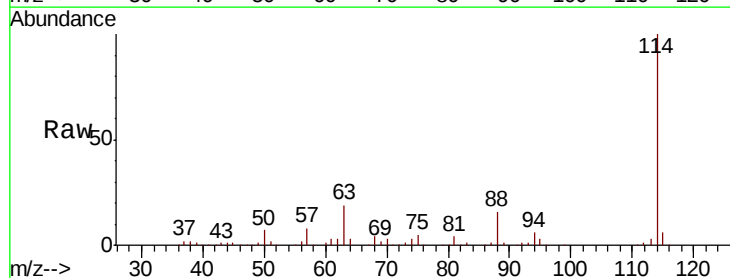
Instrument :
 MSVOA_N
 ClientSampled :
 14B-4

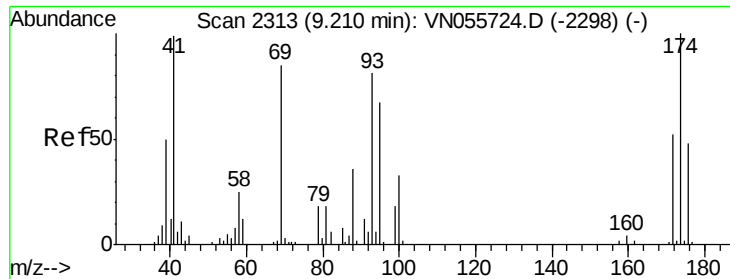
Tot Ion: 65 Resp: 113399
 Ion Ratio Lower Upper
 65 100
 67 54.7 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055735.D
 Acq: 22 May 2019 22:47

Tgt Ion: 114 Resp: 306274
 Ion Ratio Lower Upper
 114 100
 63 19.2 15.6 23.4
 88 15.5 12.3 18.5





#40

Dibromomethane

Concen: 0.233 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.20 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampleId :

14B-4

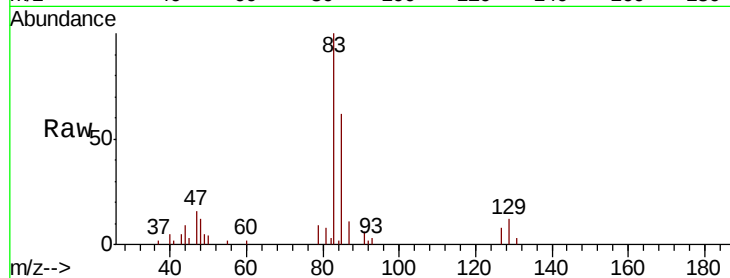
Tot Ion: 93 Resp: 535

Ion Ratio Lower Upper

93 100

95 0.0 0.0 170.6

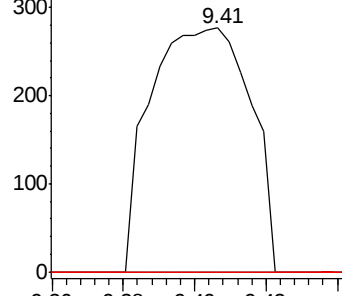
174 0.0 0.0 248.4



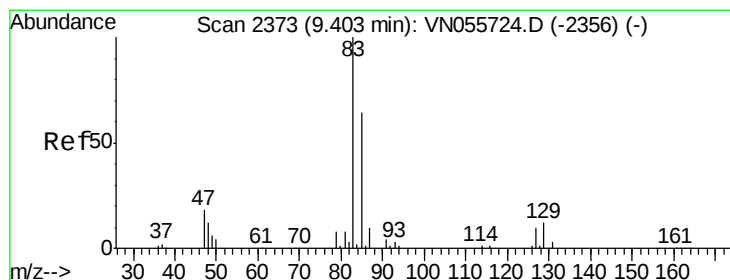
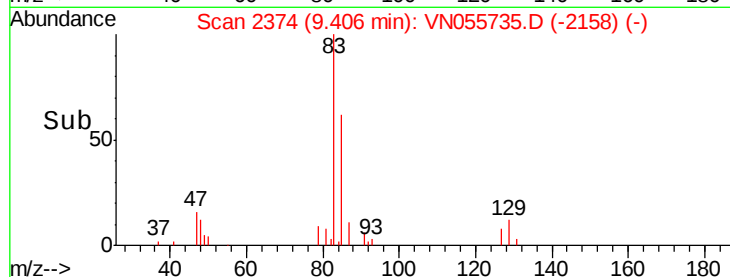
Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V



Time--> 9.36 9.38 9.40 9.42



#41

Bromodichloromethane

Concen: 4.513 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

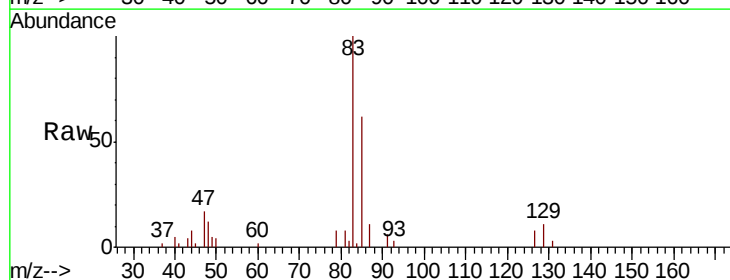
Tgt Ion: 83 Resp: 21255

Ion Ratio Lower Upper

83 100

85 62.4 51.4 77.0

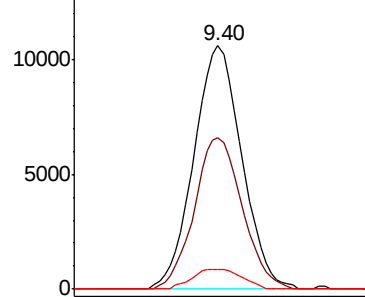
127 8.2 7.7 11.5



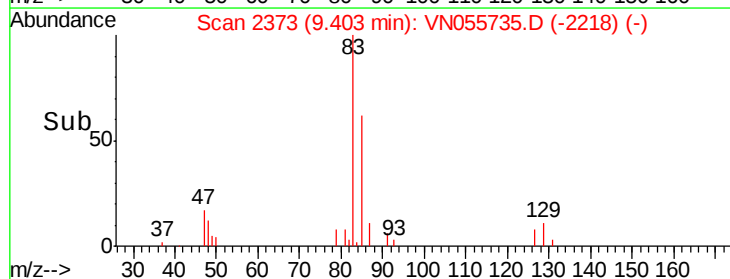
Abundance Ion 83.00 (82.70 to 83.70): VN0

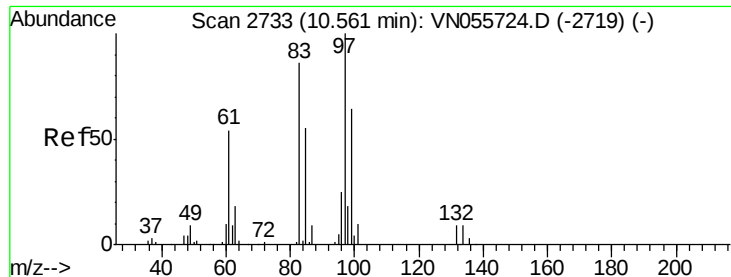
Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): V



Time--> 9.35 9.40 9.45





#50

1,1,2-Trichloroethane

Concen: 3.232 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

14B-4

Tot Ion: 97 Resp: 10813

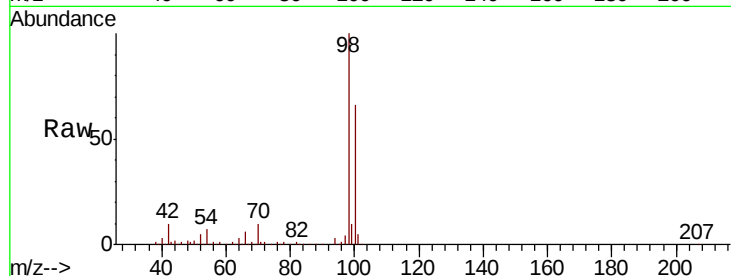
Ion Ratio Lower Upper

97 100

83 4.2 68.9 103.3#

85 0.0 44.3 66.5#

99 274.4 51.4 77.0#

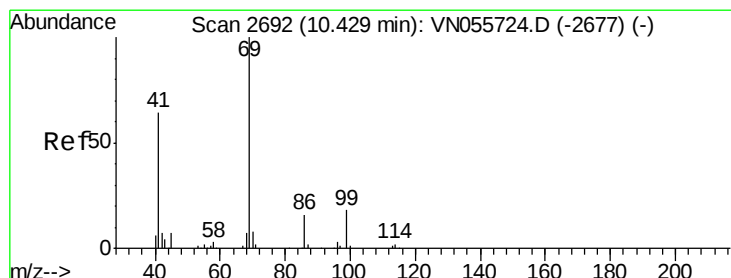
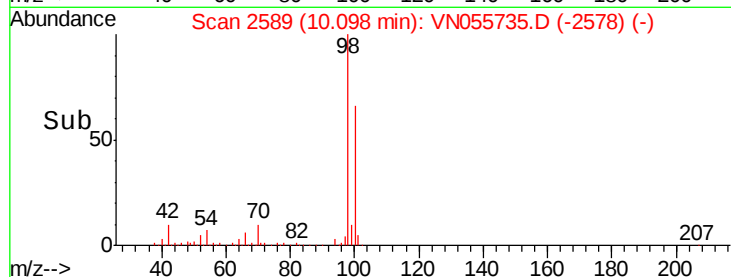
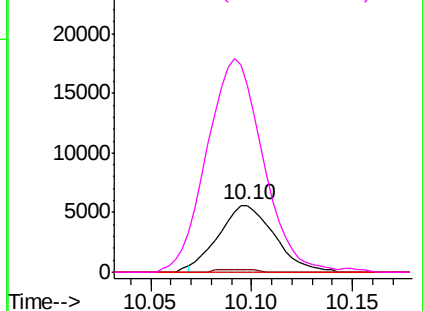


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0



#51

Ethyl methacrylate

Concen: 0.228 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

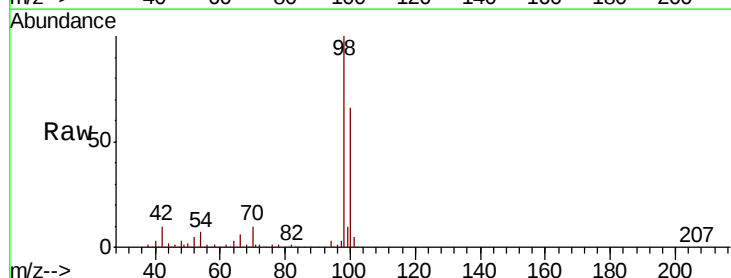
Tgt Ion: 69 Resp: 1227

Ion Ratio Lower Upper

69 100

41 67.1 31.9 95.7

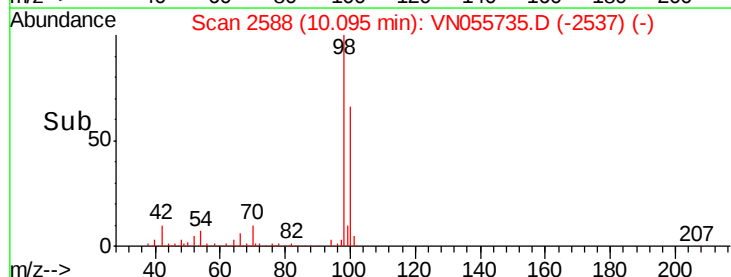
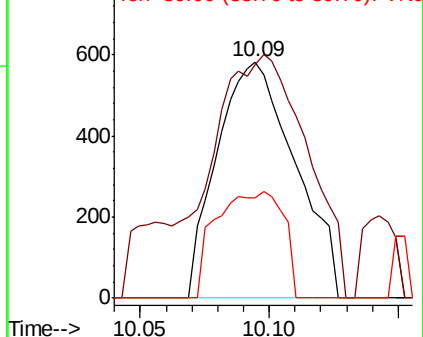
39 42.4 15.7 47.0

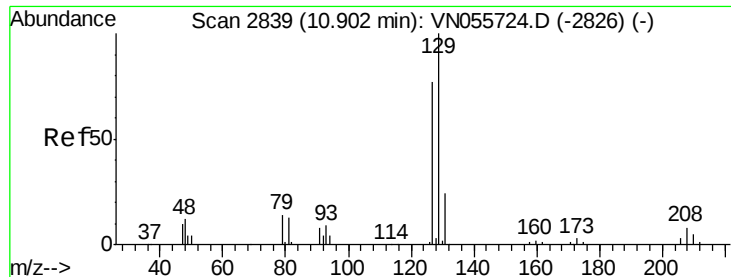


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#53

Dibromochloromethane

Concen: 0.399 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

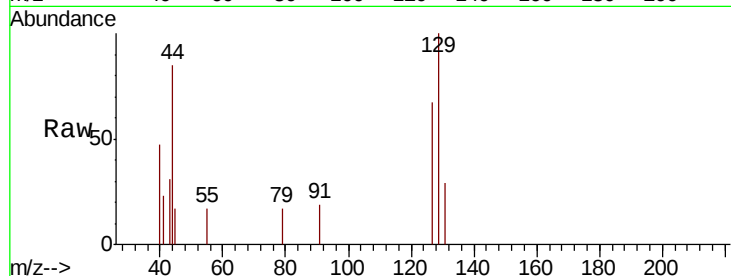
14B-4

Tot Ion:129 Resp: 1575

Ion Ratio Lower Upper

129 100

127 72.0 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

800

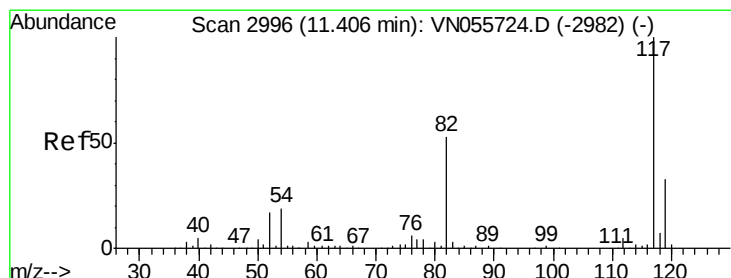
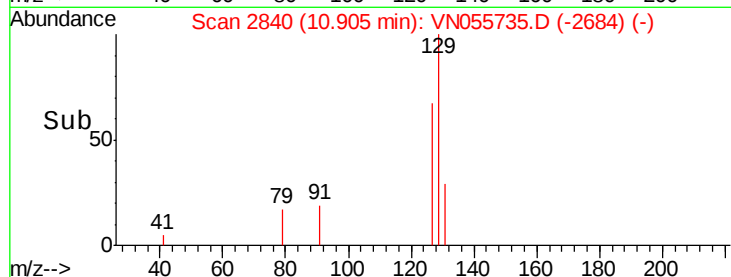
600

400

200

0

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

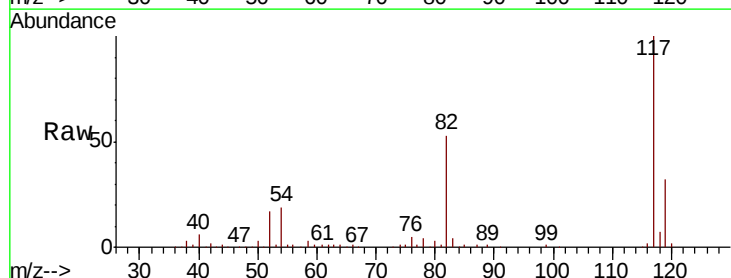
Tgt Ion:117 Resp: 243106

Ion Ratio Lower Upper

117 100

82 52.6 42.6 64.0

119 31.7 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

11.41

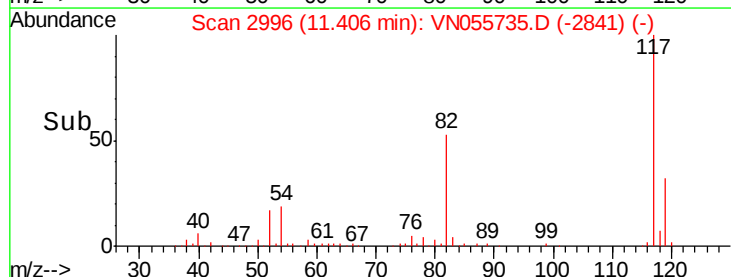
150000

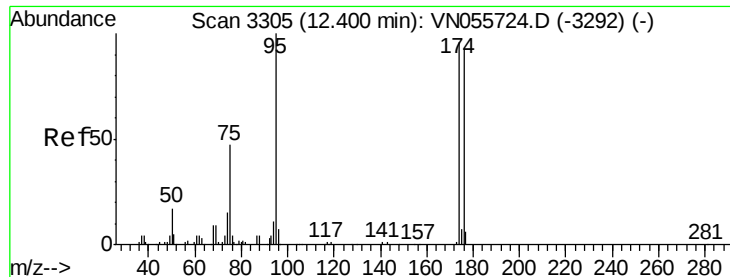
100000

50000

0

Time-->





#60

4-Bromofluorobenzene

Concen: 24.125 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

14B-4

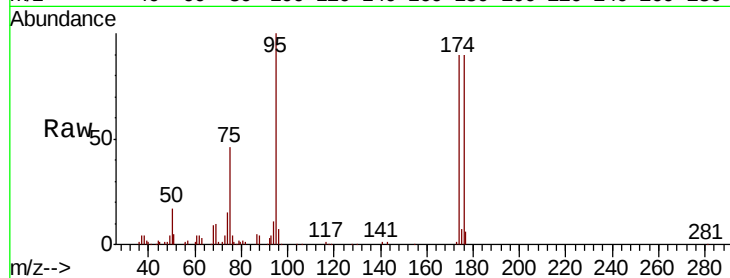
Tot Ion: 95 Resp: 91235

Ion Ratio Lower Upper

95 100

174 91.0 75.7 113.5

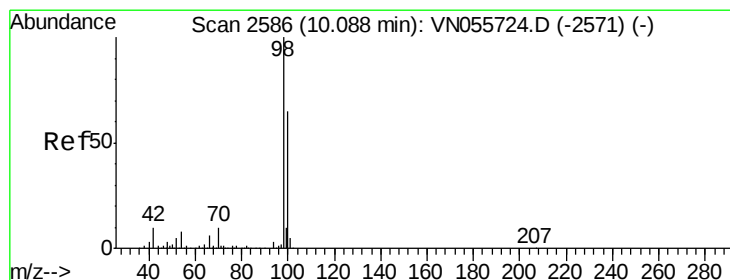
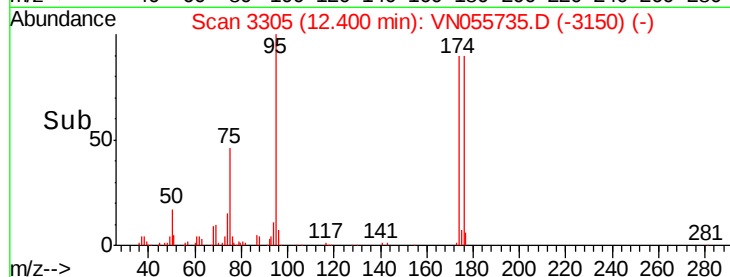
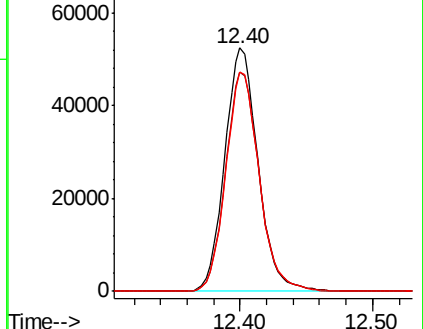
176 90.0 74.1 111.1



Abundance Ion 95.00 (94.70 to 95.70): VN055724.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN055724.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN055724.D (-3292) (-)



#63

Toluene-d8

Concen: 32.327 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055735.D

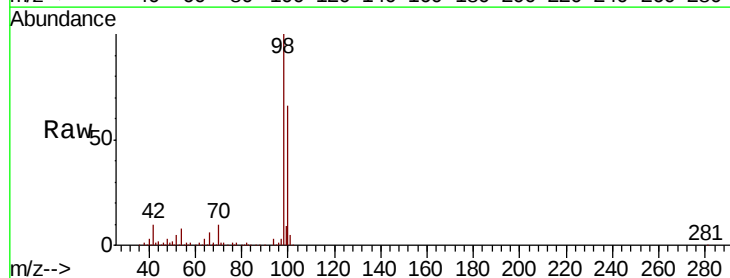
Acq: 22 May 2019 22:47

Tgt Ion: 98 Resp: 359140

Ion Ratio Lower Upper

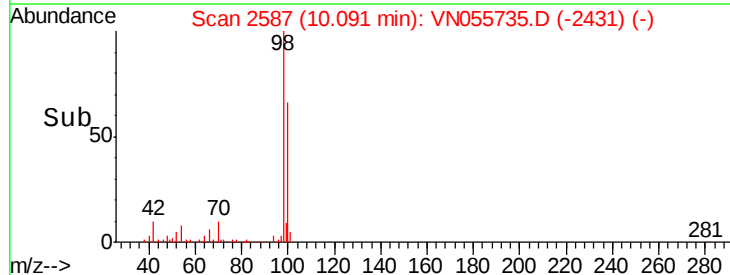
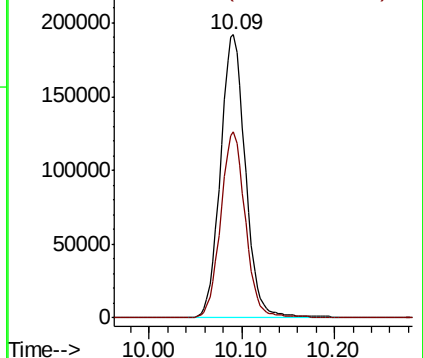
98 100

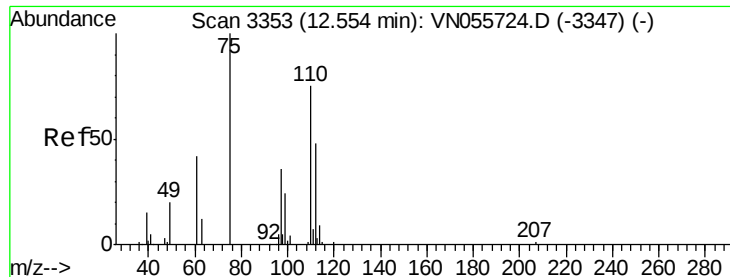
100 64.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN055724.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN055724.D (-2571) (-)





#72

1,2,3-Trichloropropane

Concen: 11.094 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Instrument :

MSVOA_N

ClientSampled :

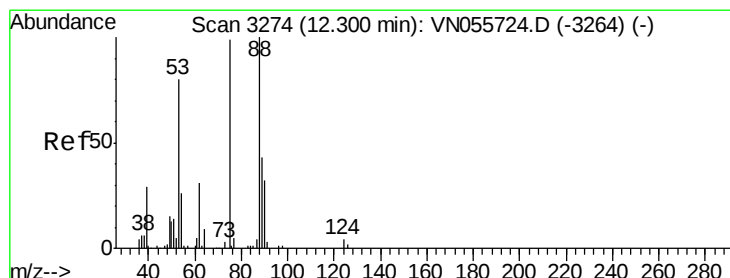
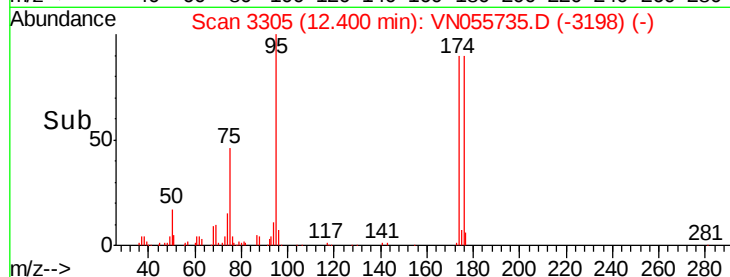
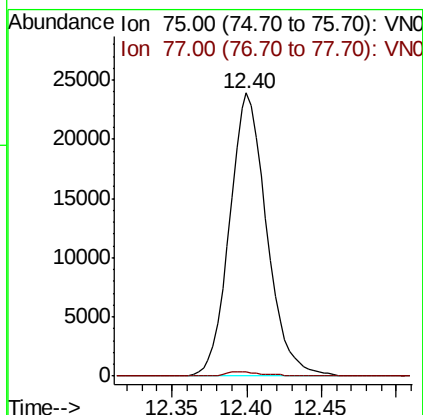
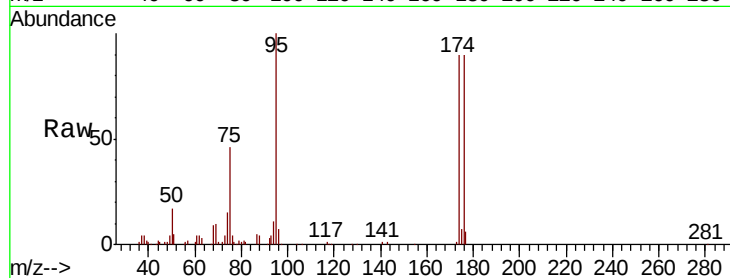
14B-4

Tot Ion: 75 Resp: 41282

Ion Ratio Lower Upper

75 100

77 1.3 0.0 349.8



#77

t-1,4-Dichloro-2-butene

Concen: 27.929 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055735.D

Acq: 22 May 2019 22:47

Tgt Ion: 75 Resp: 41282

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#

