

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055739.D
 Acq On : 23 May 2019 00:27
 Operator : JC/SP
 Sample : K2965-03 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: May 23 06:06:00 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	57546	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	304609	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	245208	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113492	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	12.40	95	93954	24.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	82.10%
63) Toluene-d8	10.09	98	360306	32.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.17%

Target Compounds

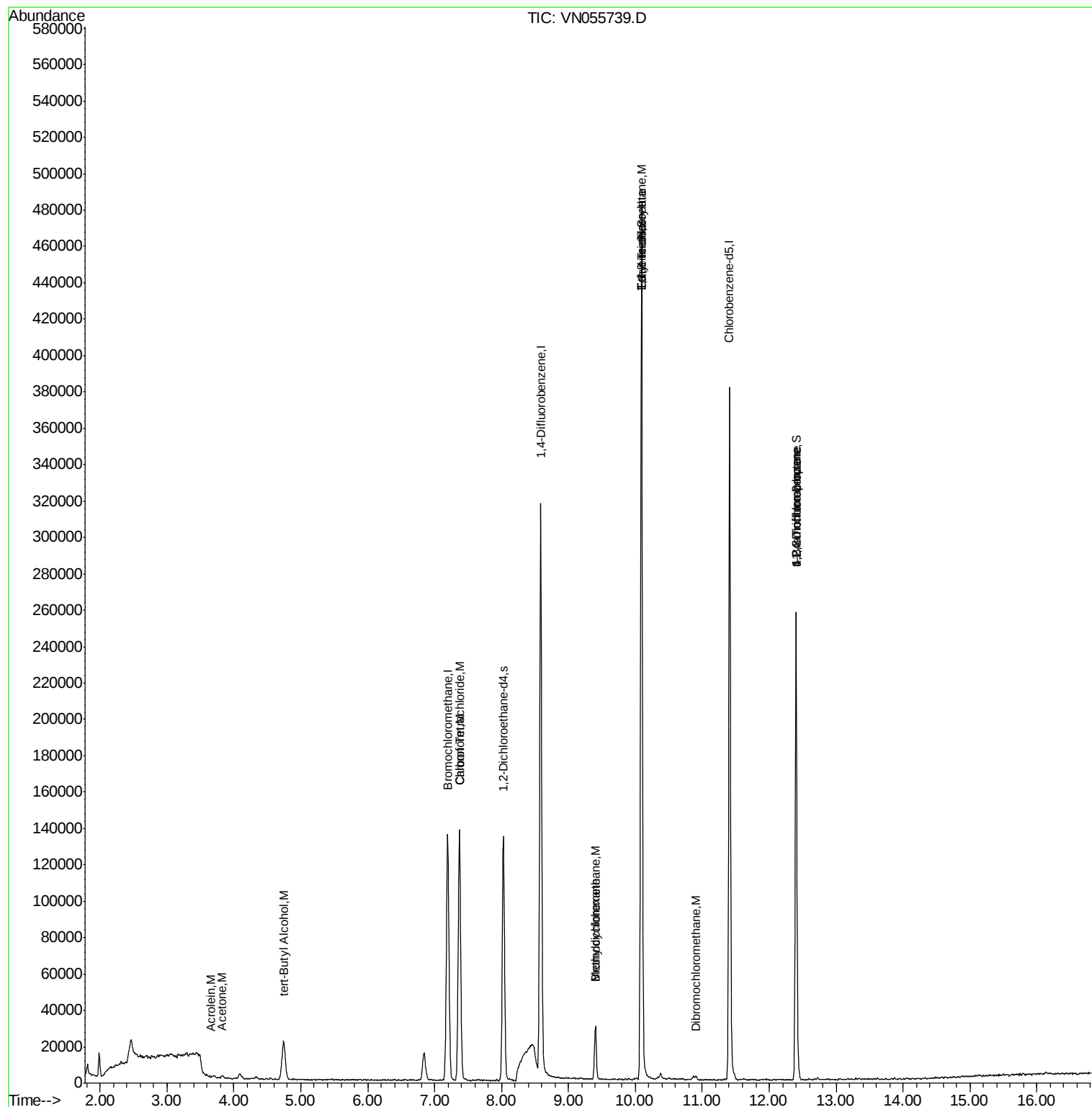
					Ovalue
13) Acrolein	3.65	56	135	0.262 ug/l	84
15) Acetone	3.82	58	399	0.759 ug/l #	1
23) tert-Butyl Alcohol	4.75	59	19414	26.100 ug/l #	100
25) Chloroform	7.37	83	147738	24.940 ug/l	99
33) Carbon Tetrachloride	7.36	117	920	0.203 ug/l #	88
38) Methylcyclohexane	9.40	83	21033	3.893 ug/l #	19
41) Bromodichloromethane	9.40	83	21033	4.491 ug/l	97
50) 1,1,2-Trichloroethane	10.10	97	10728	3.225 ug/l #	1
51) Ethyl methacrylate	10.09	69	1105	0.206 ug/l	90
53) Dibromochloromethane	10.90	129	1751	0.446 ug/l	90
72) 1,2,3-Trichloropropane	12.40	75	43102	11.483 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	43102	28.910 ug/l #	17

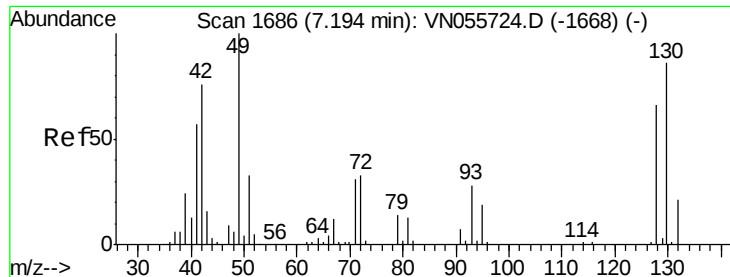
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampled :
14B-3

Quant Time: May 23 06:06:00 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

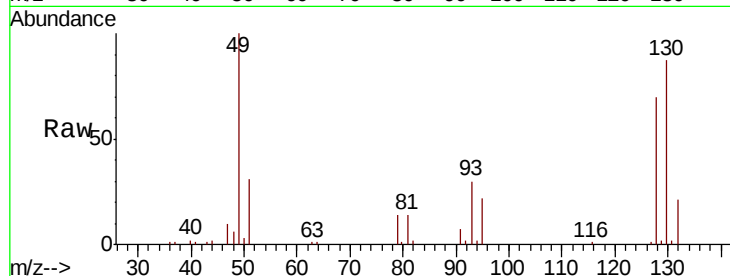




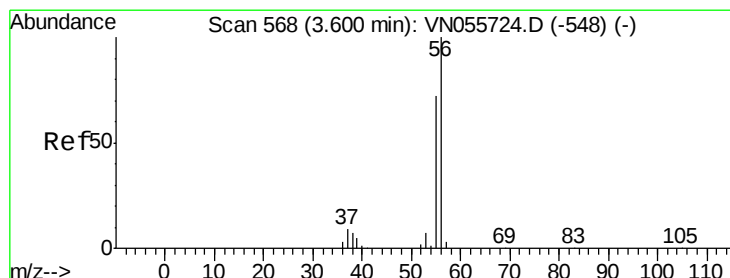
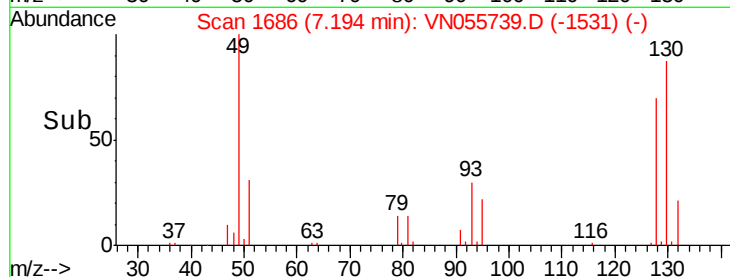
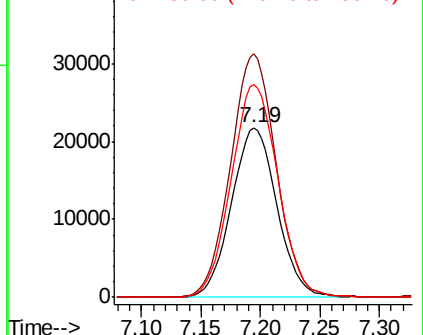
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055739.D
 Acq: 23 May 2019 00:27

Instrument :
 MSVOA_N
 ClientSampled :
 14B-3

Tot Ion:128 Resp: 57546
 Ion Ratio Lower Upper
 128 100
 49 144.7 0.0 383.2
 130 129.4 0.0 326.3

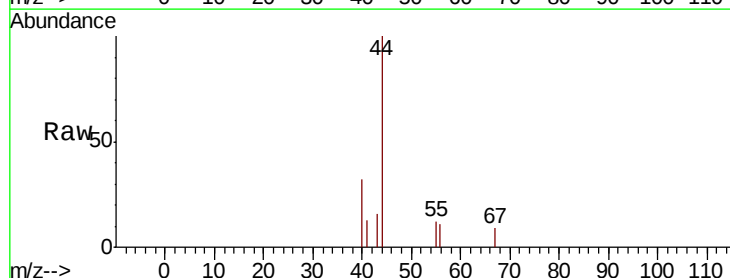


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

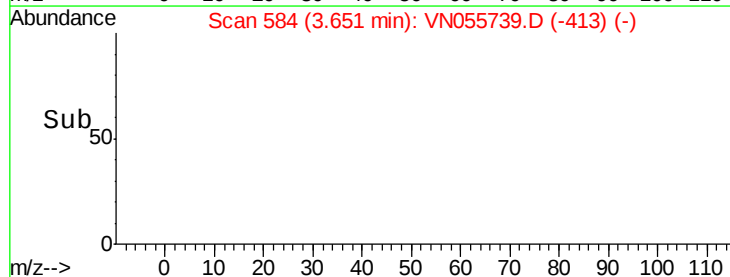
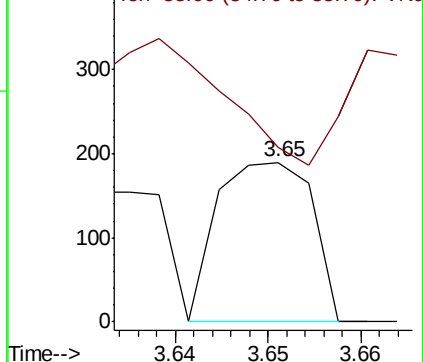


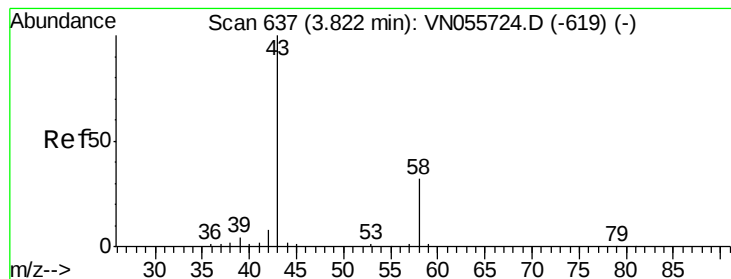
#13
 Acrolein
 Concen: 0.262 ug/l
 RT: 3.65 min Scan# 584
 Delta R.T. 0.05 min
 Lab File: VN055739.D
 Acq: 23 May 2019 00:27

Tgt Ion: 56 Resp: 135
 Ion Ratio Lower Upper
 56 100
 55 57.8 57.0 85.6



Abundance Ion 56.00 (55.70 to 56.70): VN
 Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 0.759 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

Instrument :

MSVOA_N

ClientSampled :

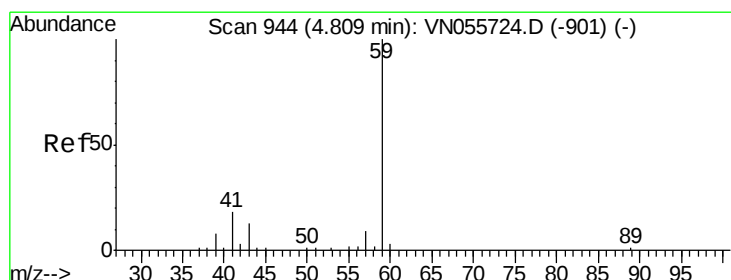
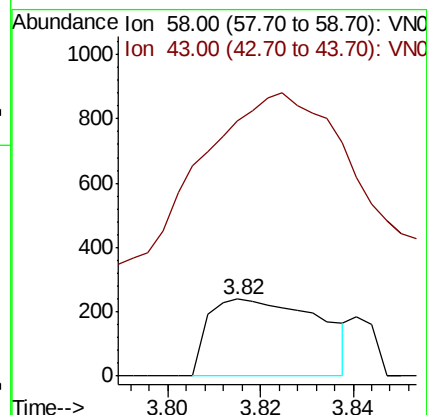
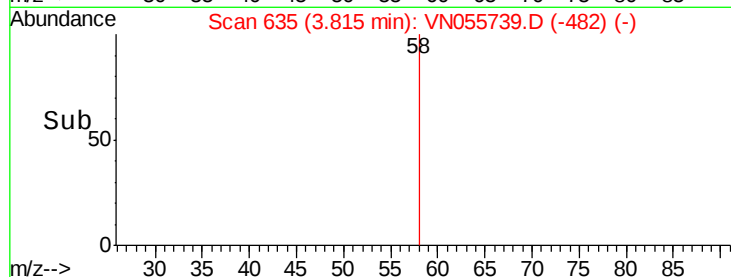
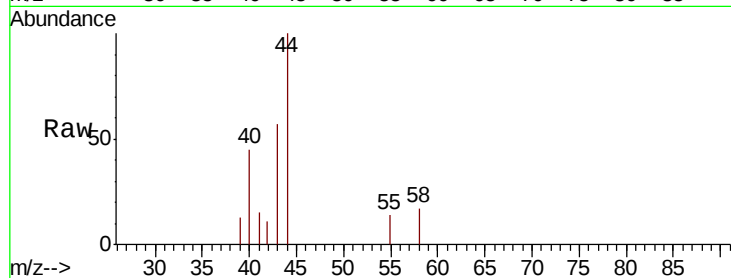
14B-3

Tot Ion: 58 Resp: 399

Ion Ratio Lower Upper

58 100

43 56.7 248.8 373.2#



#23

tert-Butyl Alcohol

Concen: 26.100 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.06 min

Lab File: VN055739.D

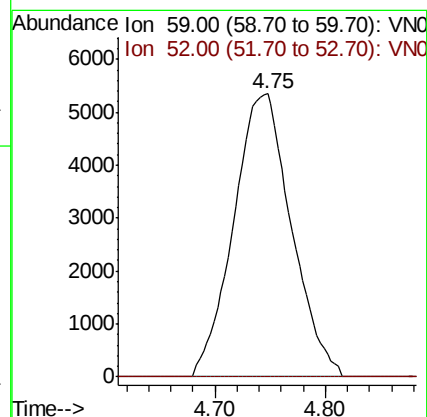
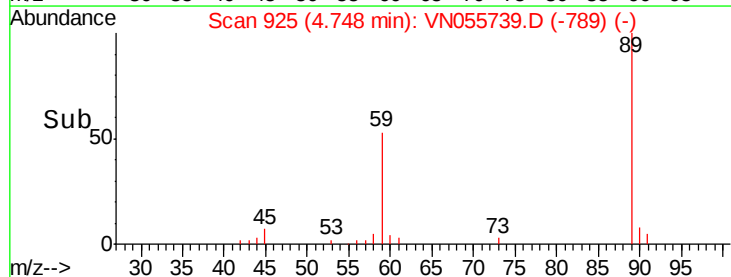
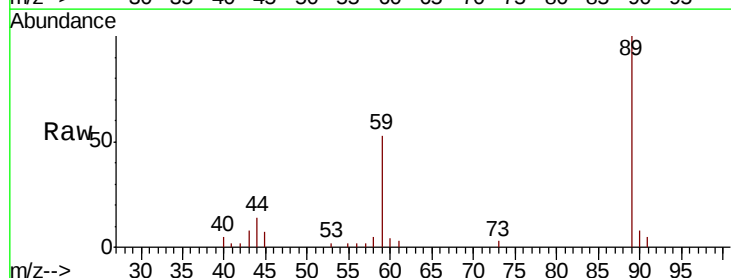
Acq: 23 May 2019 00:27

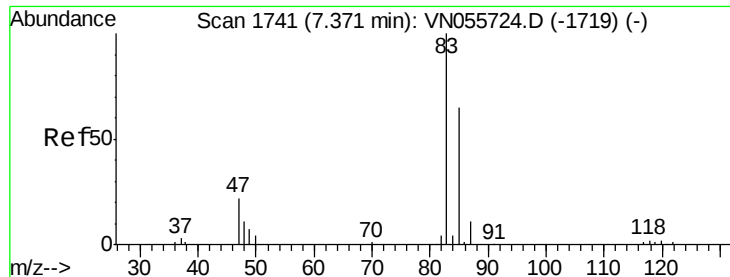
Tgt Ion: 59 Resp: 19414

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 24.940 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

Instrument :

MSVOA_N

ClientSampled :

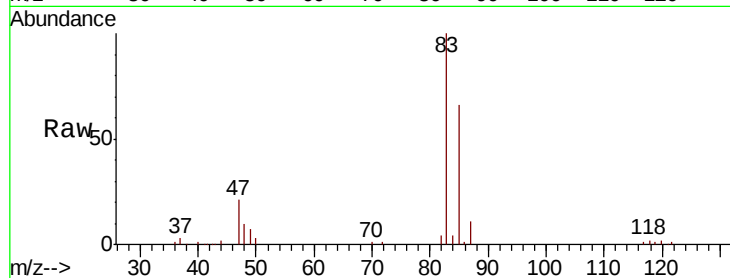
14B-3

Tot Ion: 83 Resp: 147738

Ion Ratio Lower Upper

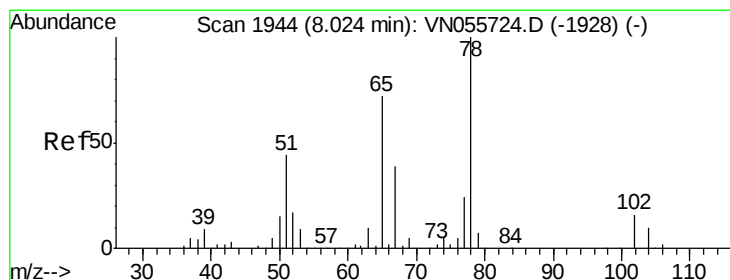
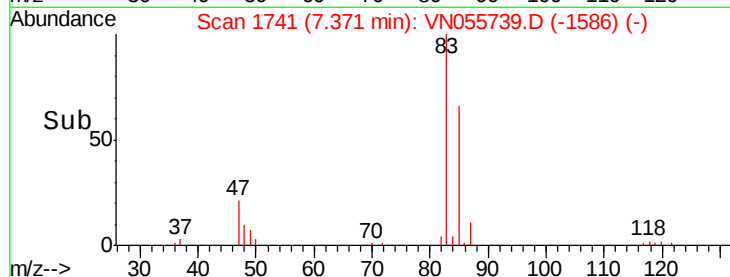
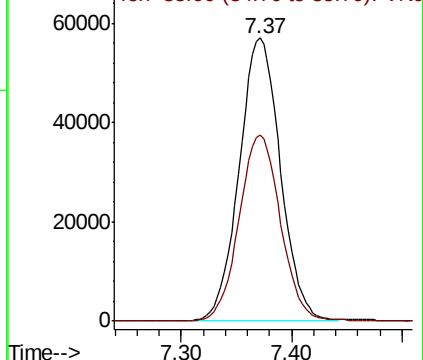
83 100

85 65.8 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: 30.173 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055739.D

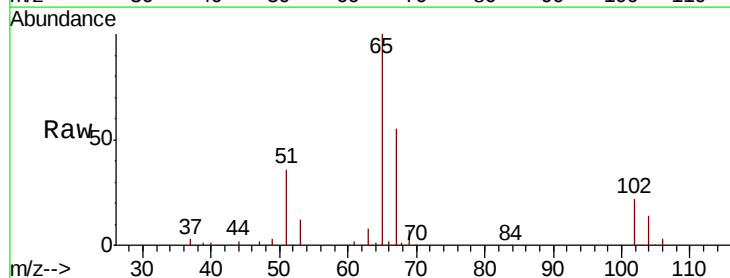
Acq: 23 May 2019 00:27

Tgt Ion: 65 Resp: 113492

Ion Ratio Lower Upper

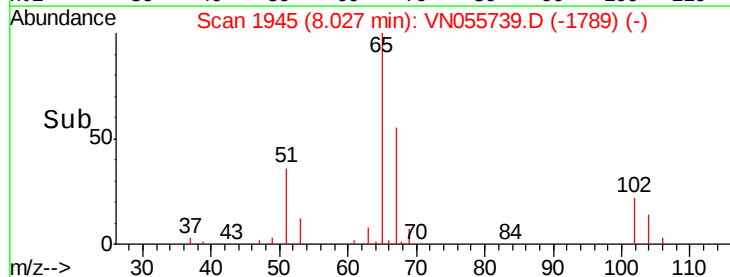
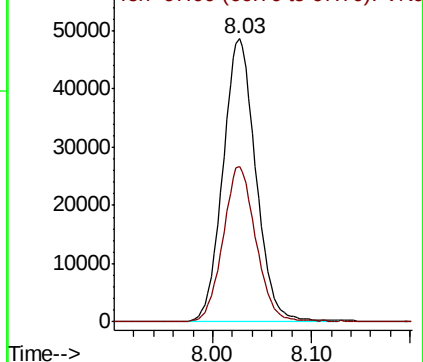
65 100

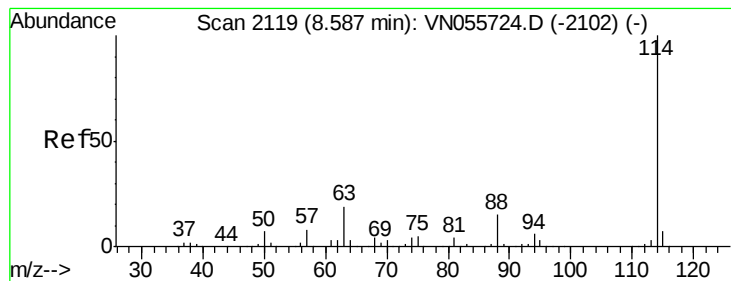
67 54.7 43.5 65.3



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

14B-3

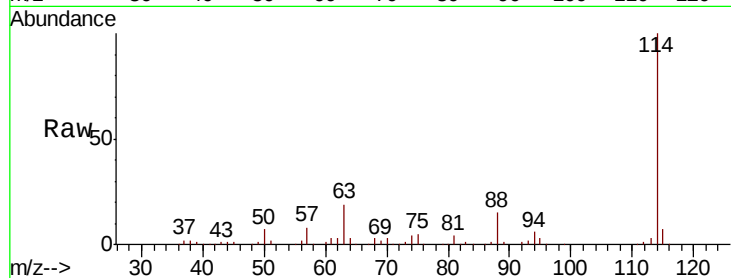
Tot Ion:114 Resp: 304609

Ion Ratio Lower Upper

114 100

63 19.1 15.6 23.4

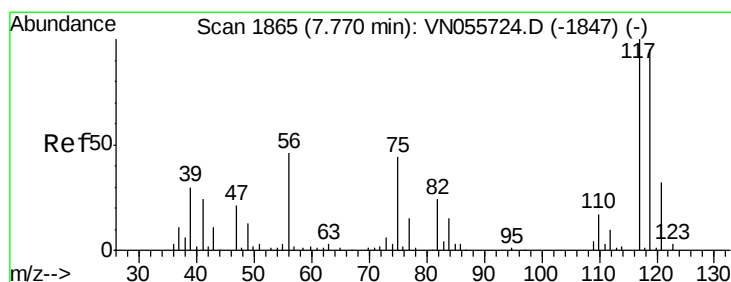
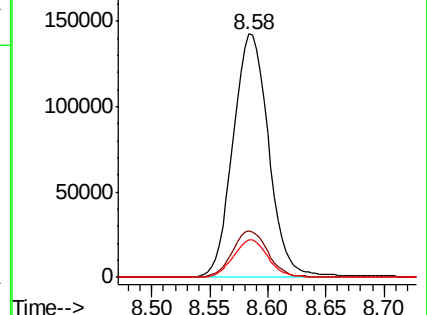
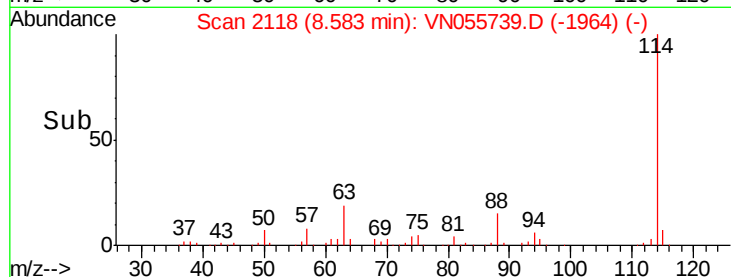
88 15.0 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN

Ion 88.00 (87.70 to 88.70): VN



#33

Carbon Tetrachloride

Concen: 0.203 ug/l

RT: 7.36 min Scan# 1739

Delta R.T. -0.41 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

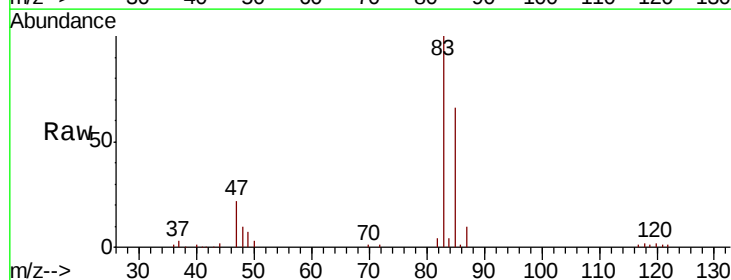
Tgt Ion:117 Resp: 920

Ion Ratio Lower Upper

117 100

119 95.3 75.8 113.8

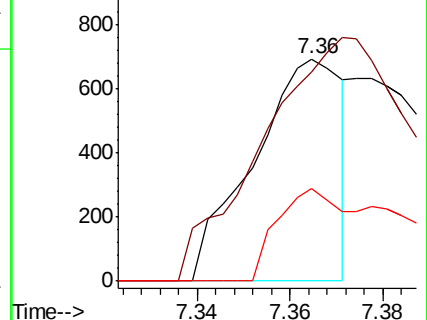
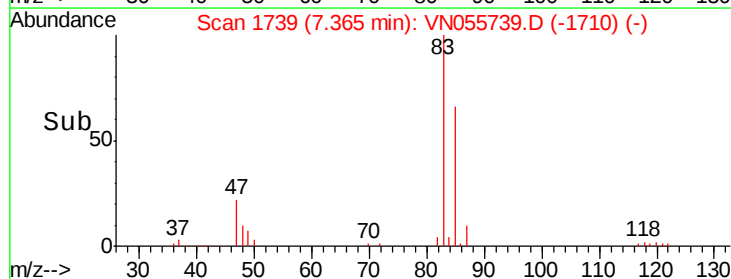
121 56.4 25.4 38.0#

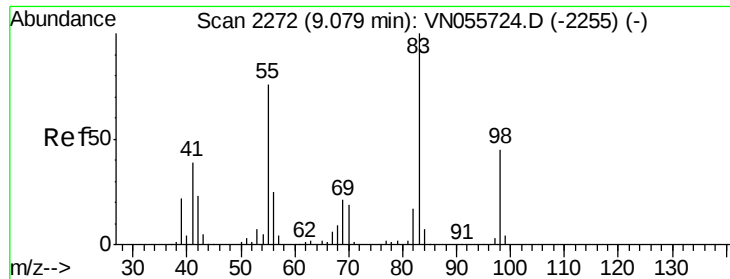


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

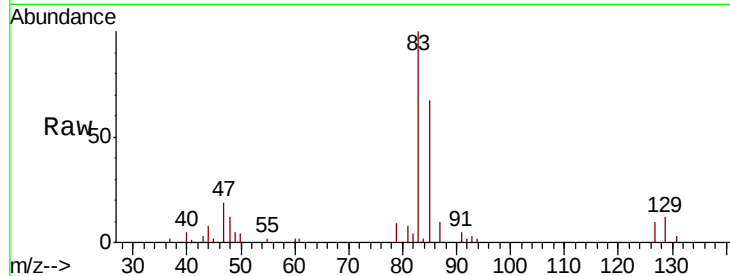




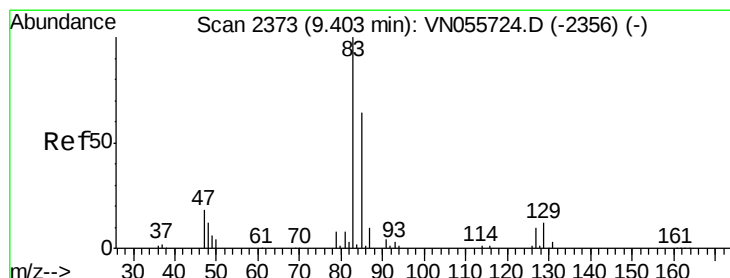
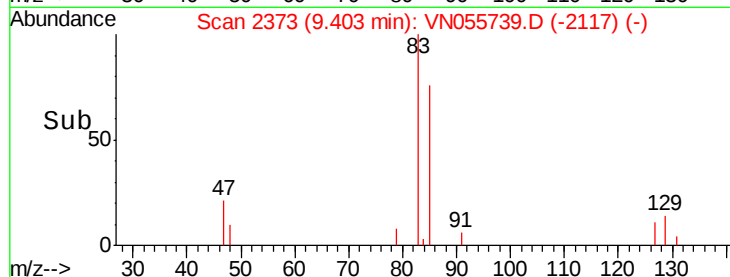
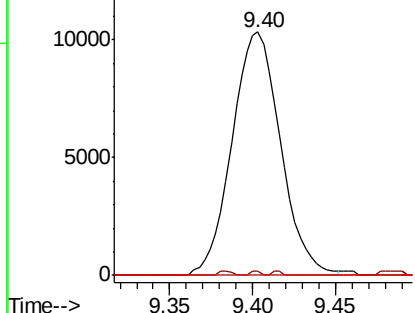
#38
Methvlcvclohexane
Concen: 3.893 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.32 min
Lab File: VN055739.D
Acq: 23 May 2019 00:27

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Tot Ion: 83 Resp: 21033
Ion Ratio Lower Upper
83 100
55 0.3 37.8 113.4#
98 0.0 22.6 67.8#

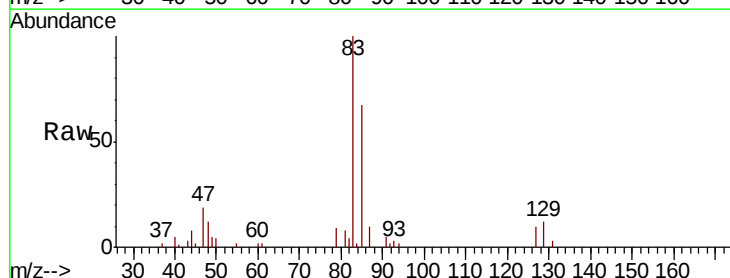


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

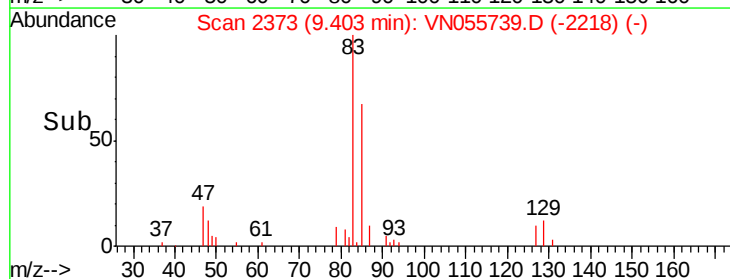
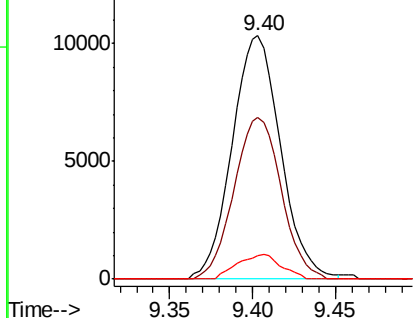


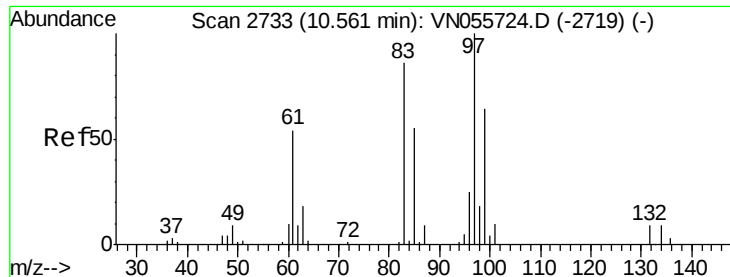
#41
Bromodichloromethane
Concen: 4.491 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN055739.D
Acq: 23 May 2019 00:27

Tgt Ion: 83 Resp: 21033
Ion Ratio Lower Upper
83 100
85 66.6 51.4 77.0
127 9.7 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

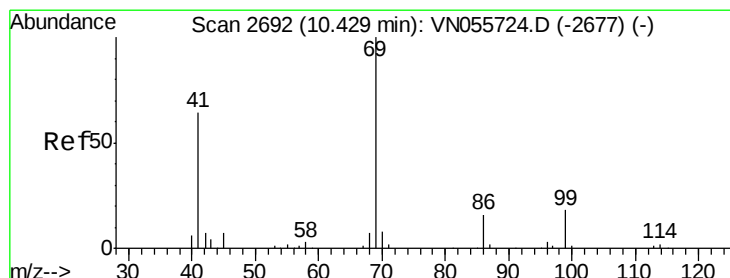
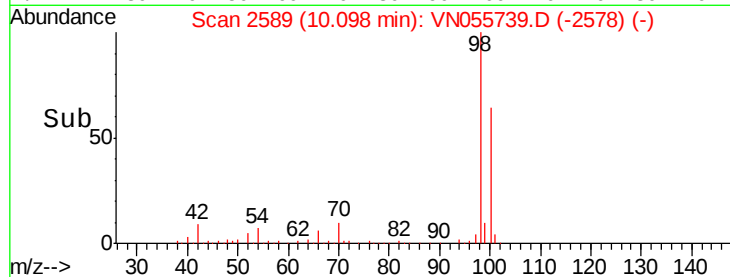
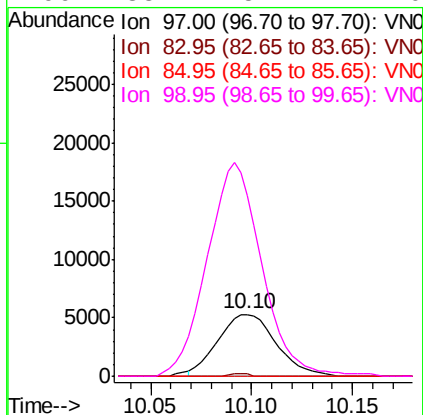
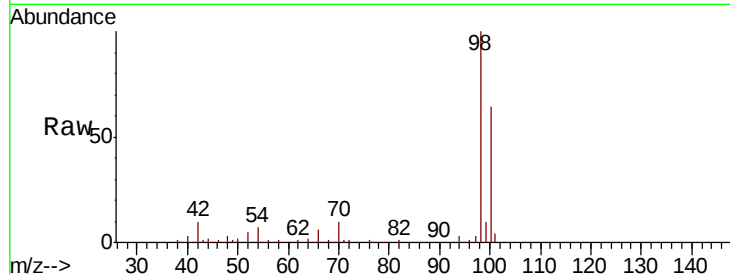




#50
 1,1,2-Trichloroethane
 Concen: 3.225 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.46 min
 Lab File: VN055739.D
 Acq: 23 May 2019 00:27

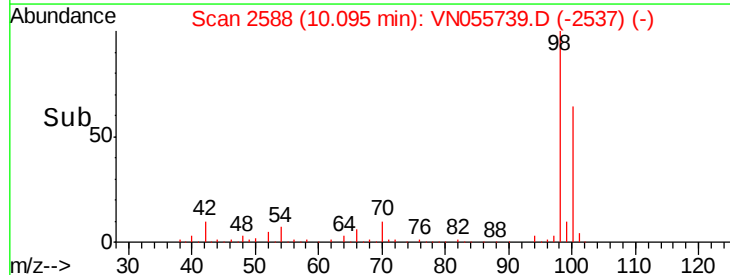
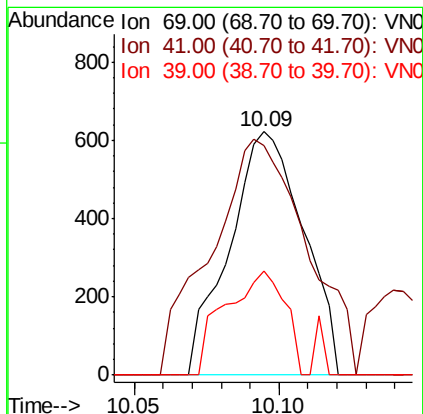
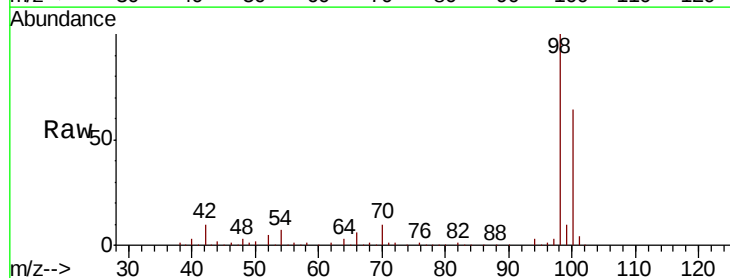
Instrument :
 MSVOA_N
 ClientSampled :
 14B-3

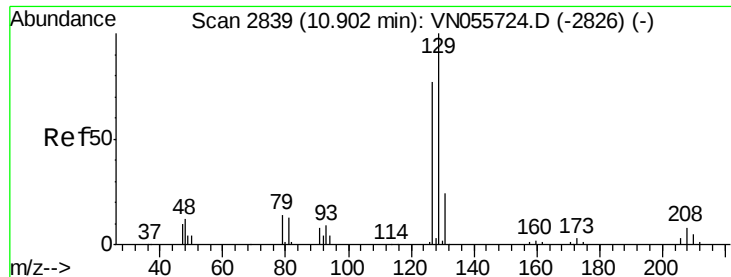
Tot Ion: 97 Resp: 10728
 Ion Ratio Lower Upper
 97 100
 83 3.2 68.9 103.3#
 85 0.0 44.3 66.5#
 99 285.4 51.4 77.0#



#51
 Ethyl methacrylate
 Concen: 0.206 ug/l
 RT: 10.09 min Scan# 2588
 Delta R.T. -0.33 min
 Lab File: VN055739.D
 Acq: 23 May 2019 00:27

Tgt Ion: 69 Resp: 1105
 Ion Ratio Lower Upper
 69 100
 41 59.5 31.9 95.7
 39 42.6 15.7 47.0





#53

Dibromochloromethane

Concen: 0.446 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

Instrument :

MSVOA_N

ClientSampled :

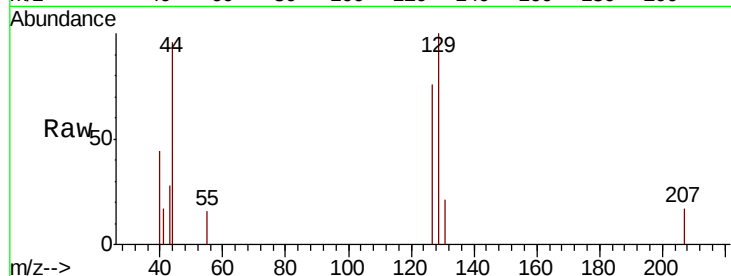
14B-3

Tot Ion:129 Resp: 1751

Ion Ratio Lower Upper

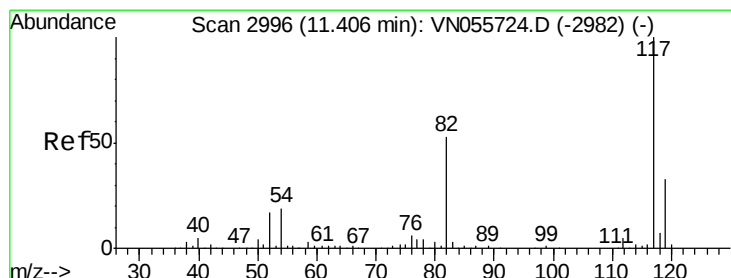
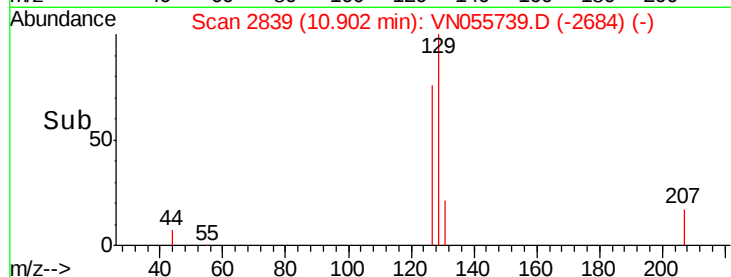
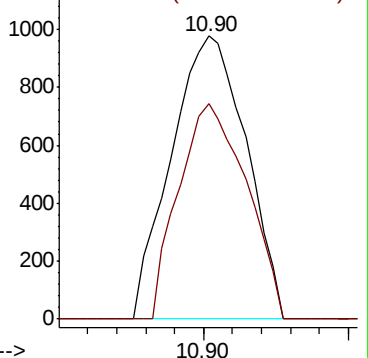
129 100

127 69.3 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: VN055739.D

Acq: 23 May 2019 00:27

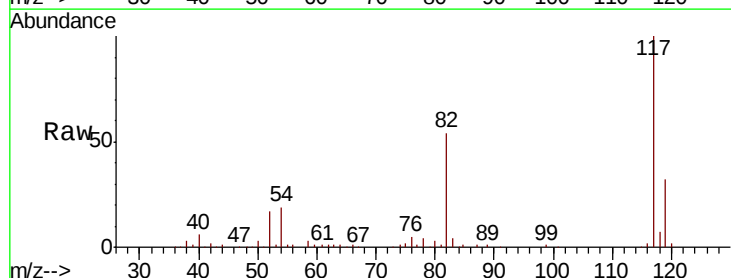
Tgt Ion:117 Resp: 245208

Ion Ratio Lower Upper

117 100

82 52.9 42.6 64.0

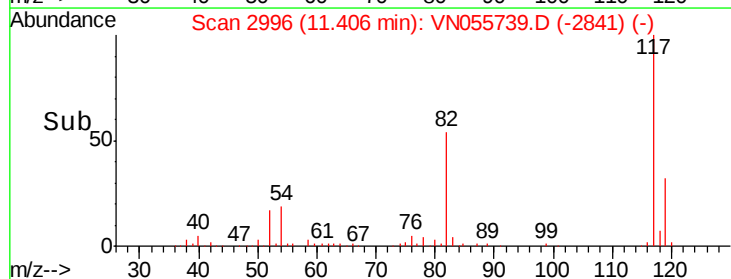
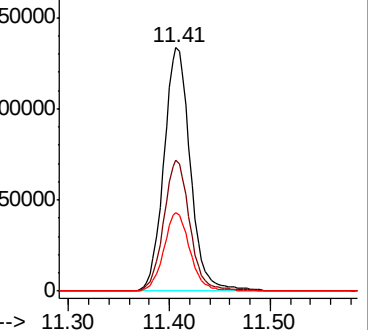
119 32.1 25.9 38.9

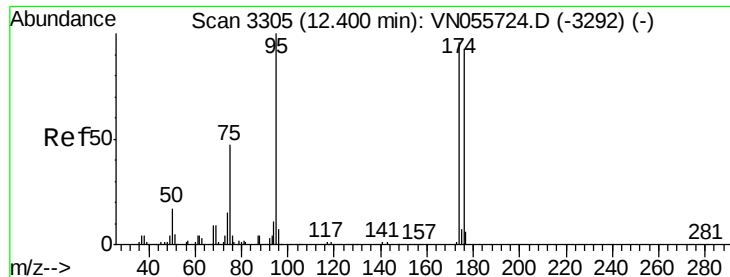


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 24.631 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

Instrument :

MSVOA_N

ClientSampleId :

14B-3

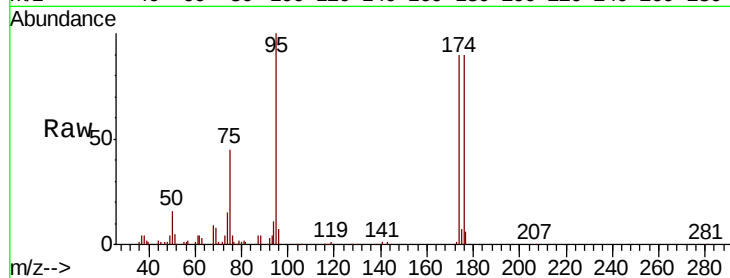
Tot Ion: 95 Resp: 93954

Ion Ratio Lower Upper

95 100

174 92.3 75.7 113.5

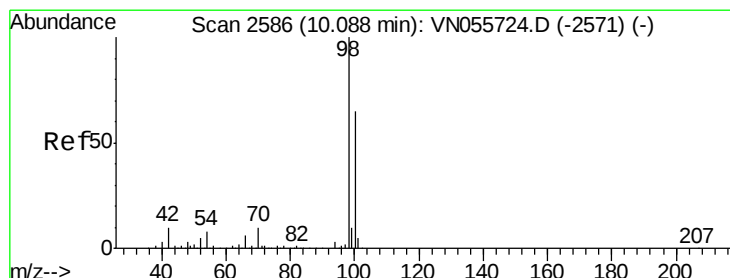
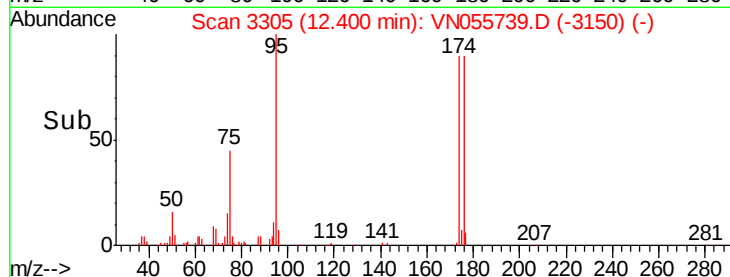
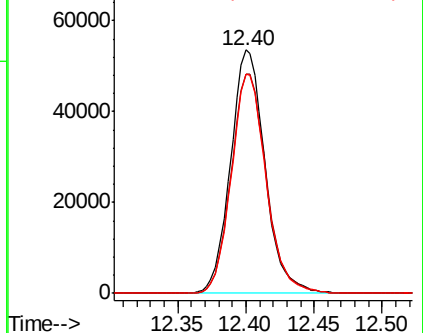
176 90.6 74.1 111.1



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: 32.154 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055739.D

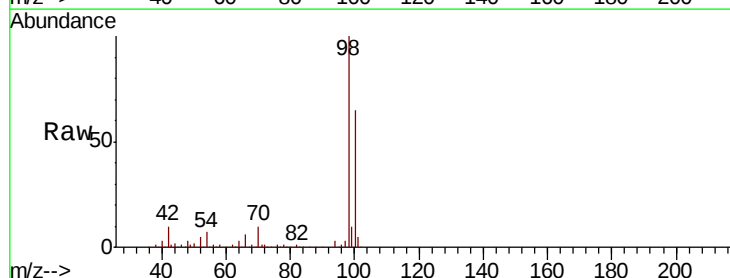
Acq: 23 May 2019 00:27

Tgt Ion: 98 Resp: 360306

Ion Ratio Lower Upper

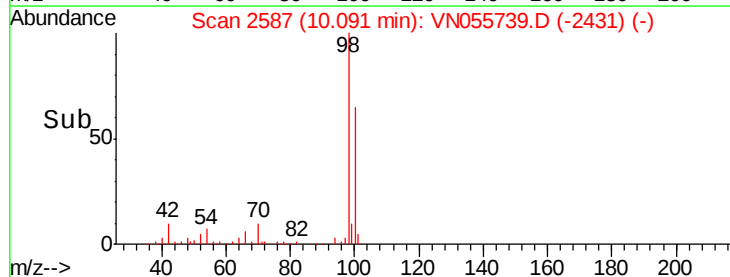
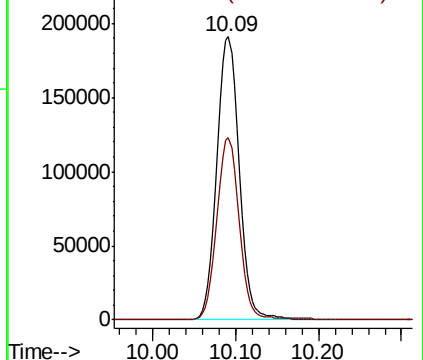
98 100

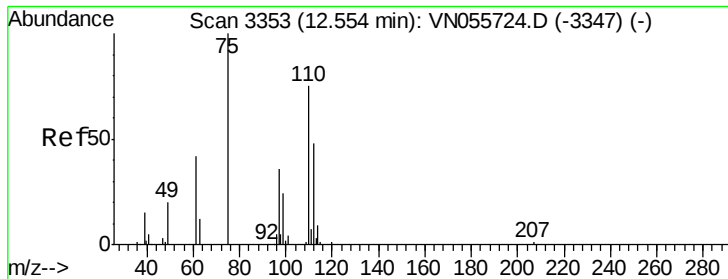
100 64.0 51.6 77.4



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: 11.483 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

Instrument :

MSVOA_N

ClientSampled :

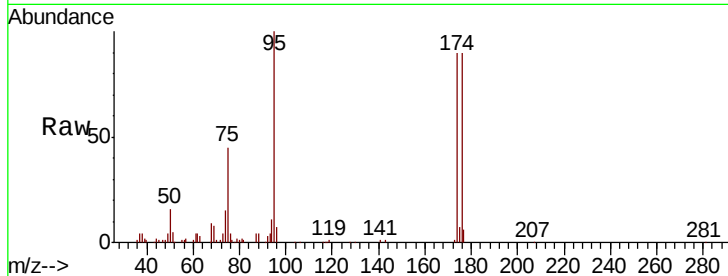
14B-3

Tot Ion: 75 Resp: 43102

Ion Ratio Lower Upper

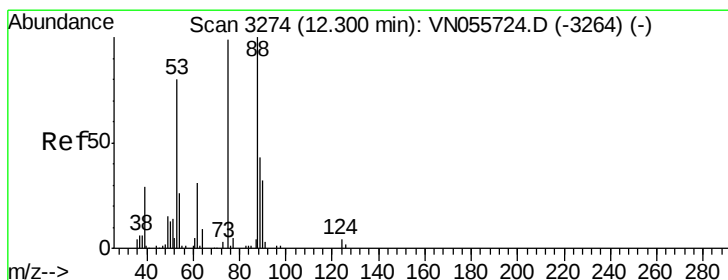
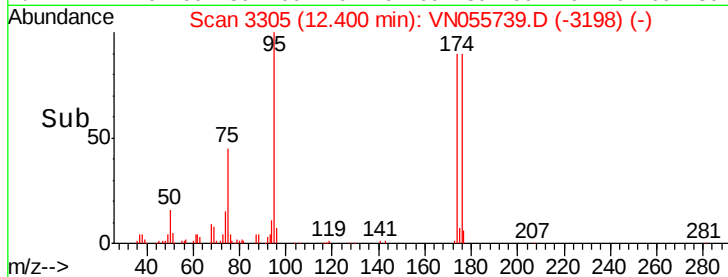
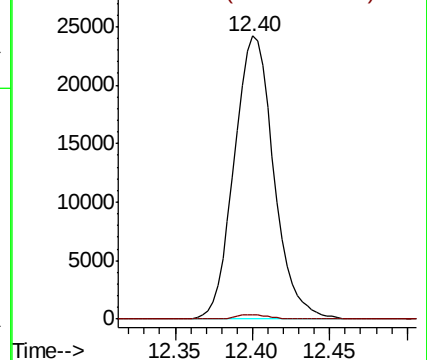
75 100

77 1.3 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 28.910 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055739.D

Acq: 23 May 2019 00:27

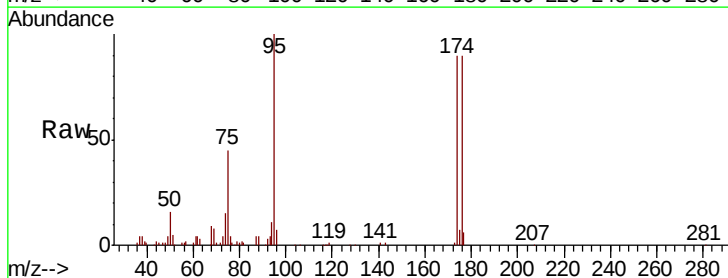
Tgt Ion: 75 Resp: 43102

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

