

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055876.D
 Acq On : 29 May 2019 14:33
 Operator : JC/SP
 Sample : K3070-03 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: May 29 18:00:19 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	54301	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	279639	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	227775	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	106133	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	12.40	95	83157	23.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.23%
63) Toluene-d8	10.09	98	329562	31.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.53%

Target Compounds

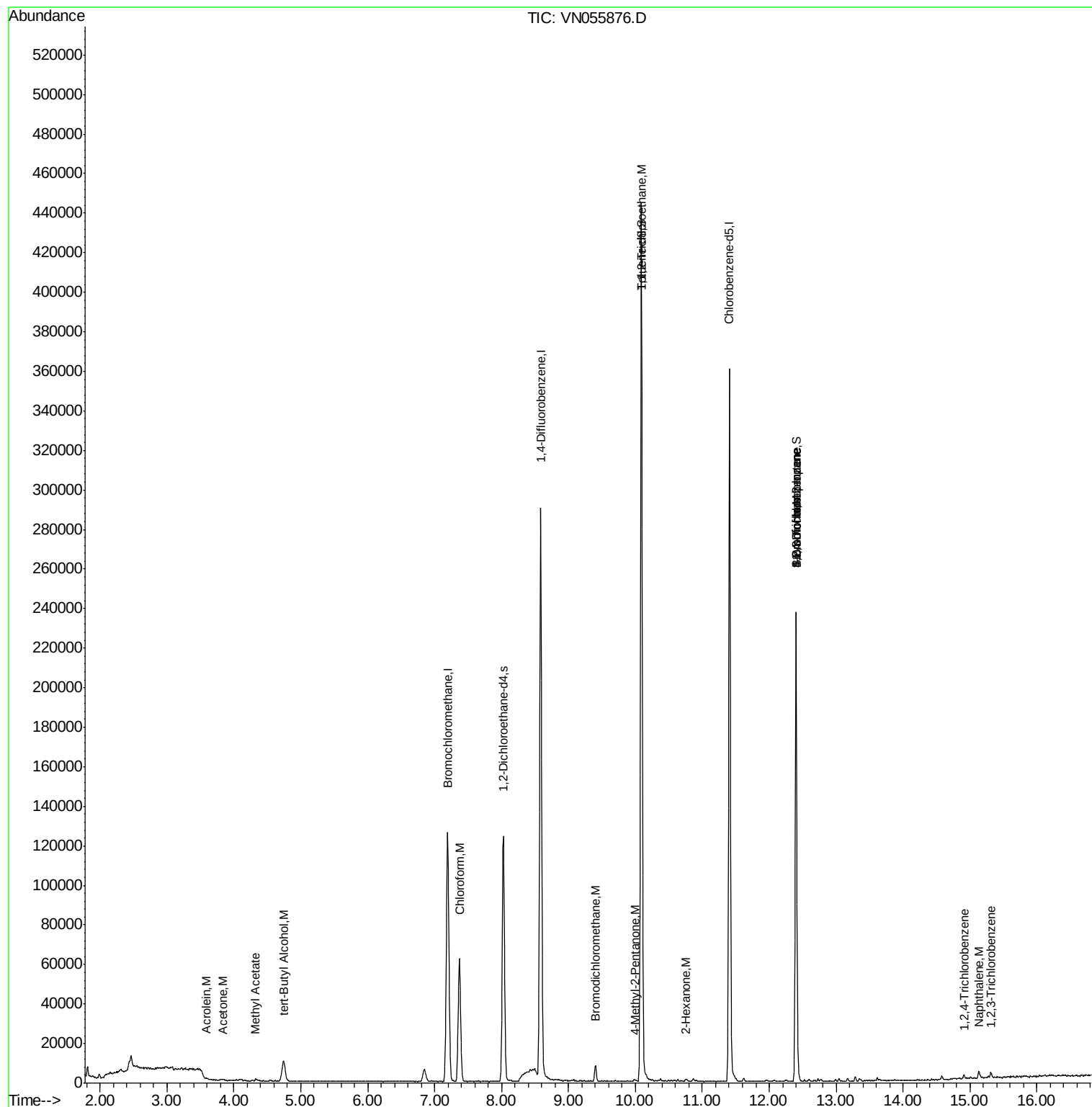
					Ovalue	
12) Methyl Acetate	4.33	43	820	0.234	ug/l #	51
13) Acrolein	3.60	56	226	0.464	ug/l	97
15) Acetone	3.83	58	129	0.260	ug/l #	1
23) tert-Butyl Alcohol	4.74	59	9626	13.715	ug/l #	100
25) Chloroform	7.37	83	67809	12.131	ug/l	99
41) Bromodichloromethane	9.40	83	5769	1.342	ug/l #	95
50) 1,1,2-Trichloroethane	10.10	97	9801	3.209	ug/l #	1
56) Bromoform	12.40	173	669	0.226	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	1110	0.294	ug/l #	63
59) 2-Hexanone	10.76	43	1613	0.598	ug/l #	71
72) 1,2,3-Trichloropropane	12.40	75	38299	10.985	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	38299	27.654	ug/l #	17
89) 1,2,4-Trichlorobenzene	14.91	180	1039	0.350	ug/l #	96
91) Naphthalene	15.13	128	4383	0.541	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.31	180	1408	0.454	ug/l	96

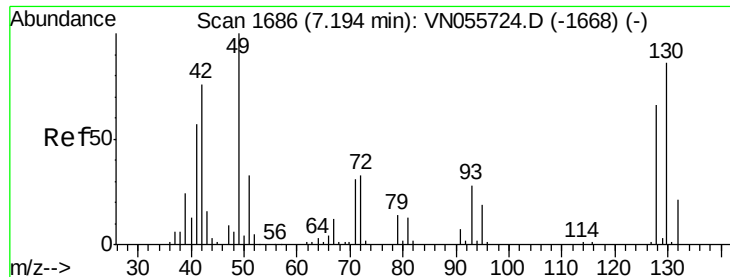
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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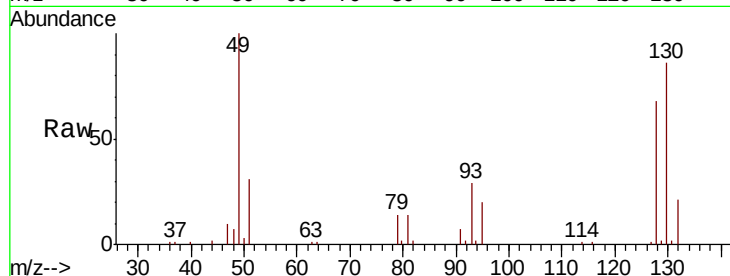




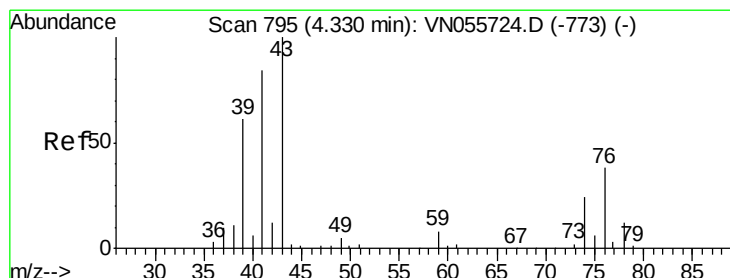
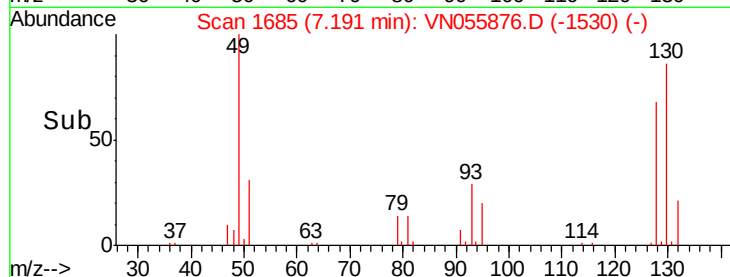
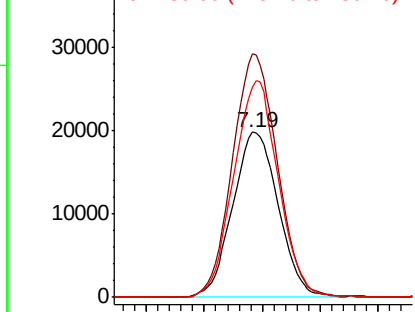
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. -0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Tot Ion:128 Resp: 54301
 Ion Ratio Lower Upper
 128 100
 49 144.5 0.0 383.2
 130 128.3 0.0 326.3

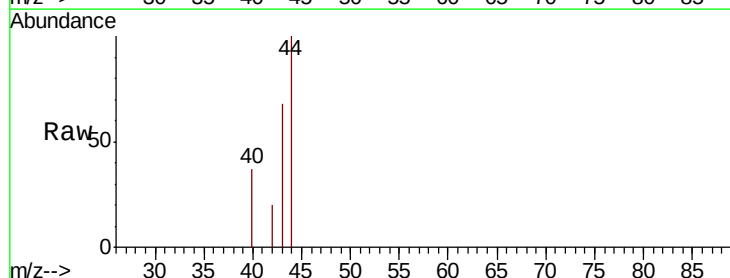


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

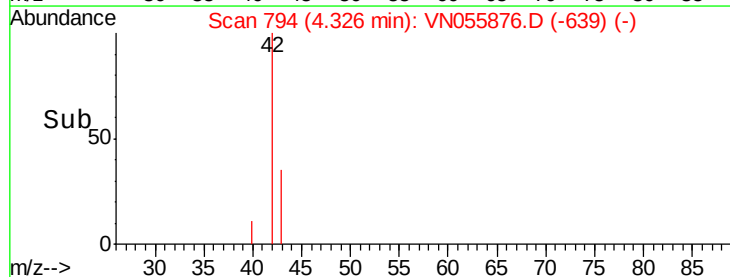
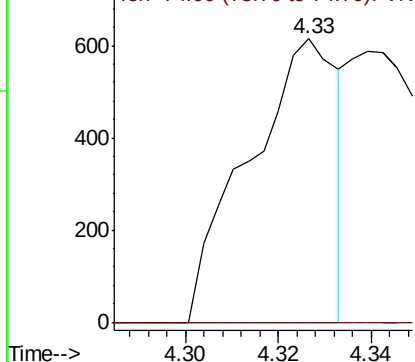


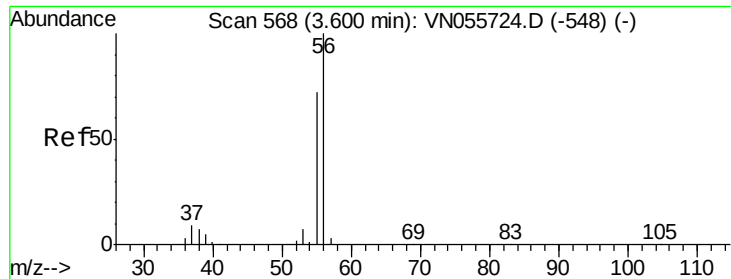
#12
 Methyl Acetate
 Concen: 0.234 ug/l
 RT: 4.33 min Scan# 794
 Delta R.T. -0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

Tgt Ion: 43 Resp: 820
 Ion Ratio Lower Upper
 43 100
 74 0.0 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: 0.464 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Instrument :

MSVOA_N

ClientSampled :

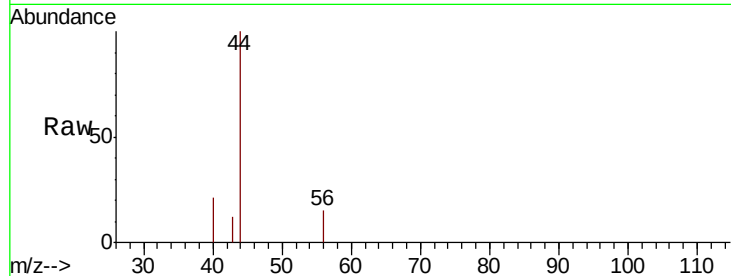
14B-3

Tot Ion: 56 Resp: 226

Ion Ratio Lower Upper

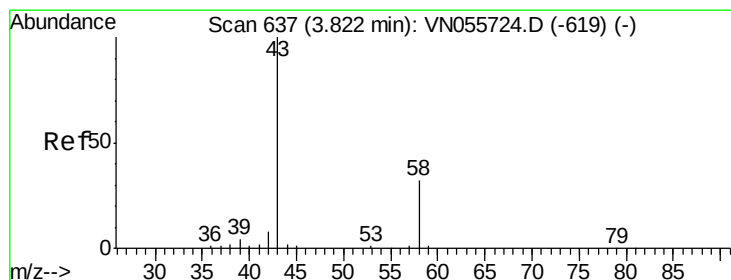
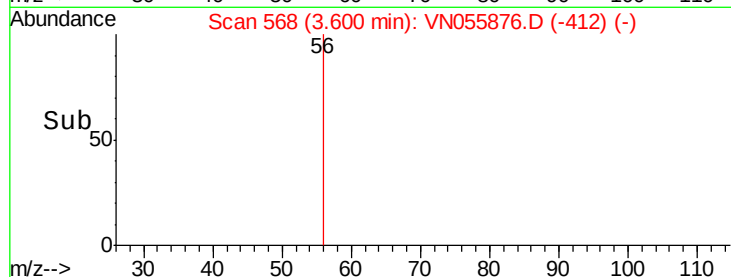
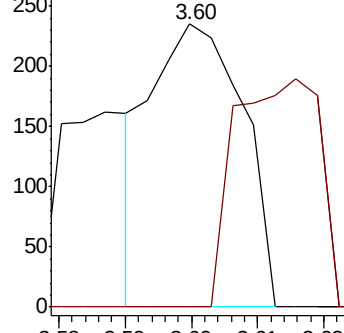
56 100

55 69.0 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: 0.260 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055876.D

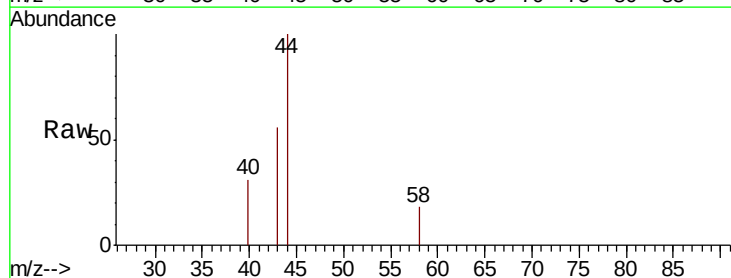
Acq: 29 May 2019 14:33

Tgt Ion: 58 Resp: 129

Ion Ratio Lower Upper

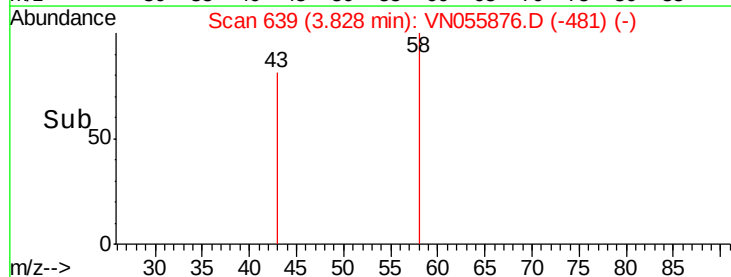
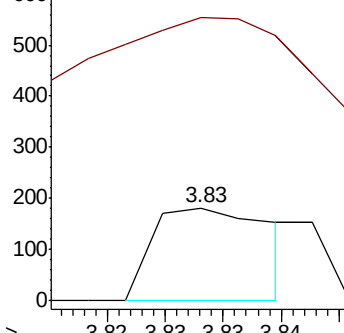
58 100

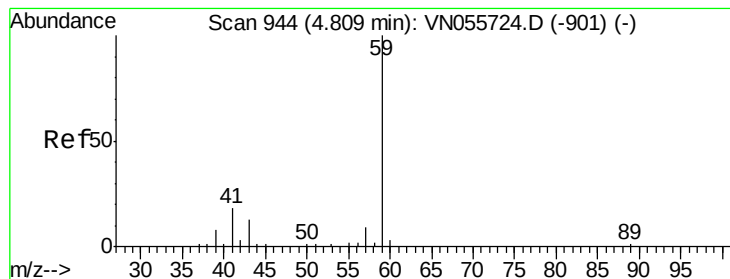
43 28.6 248.8 373.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

tert-Butyl Alcohol

Concen: 13.715 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Instrument :

MSVOA_N

ClientSampled :

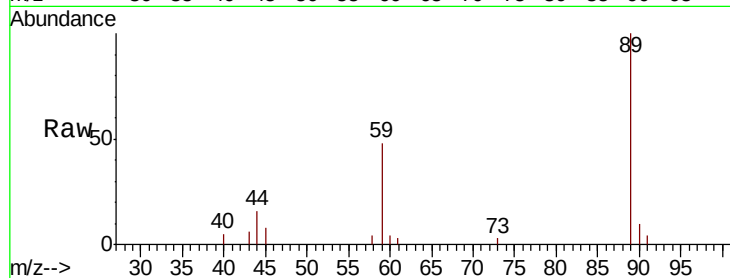
14B-3

Tot Ion: 59 Resp: 9626

Ion Ratio Lower Upper

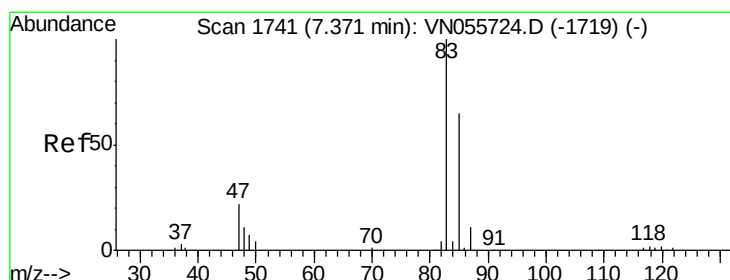
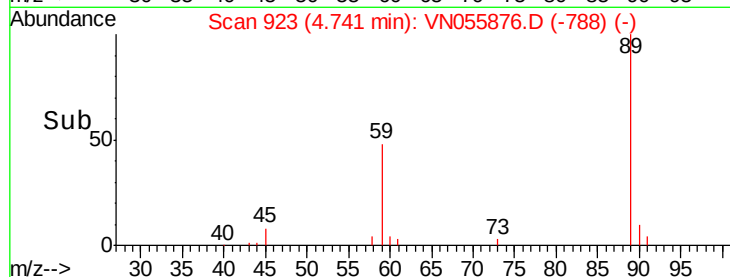
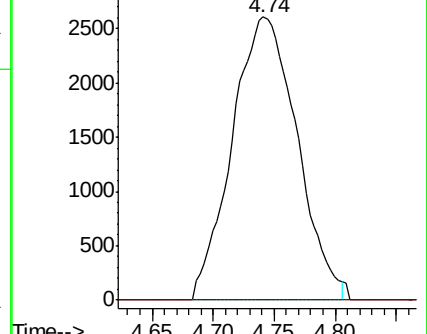
59 100

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: 12.131 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VN055876.D

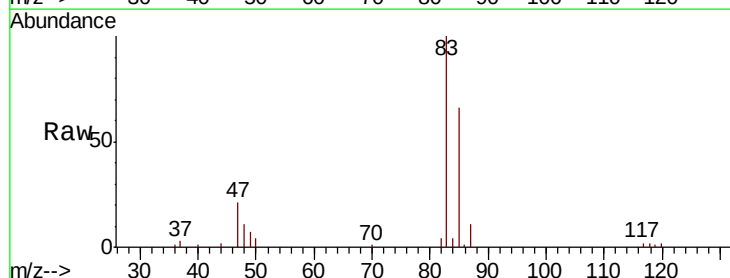
Acq: 29 May 2019 14:33

Tgt Ion: 83 Resp: 67809

Ion Ratio Lower Upper

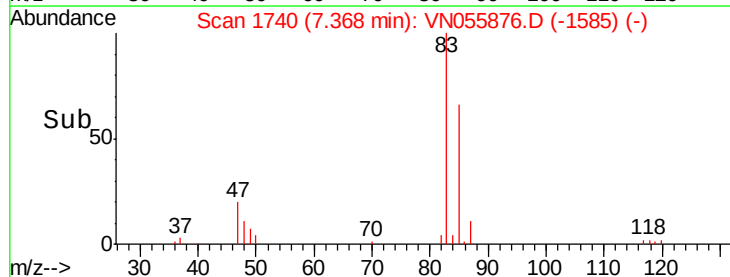
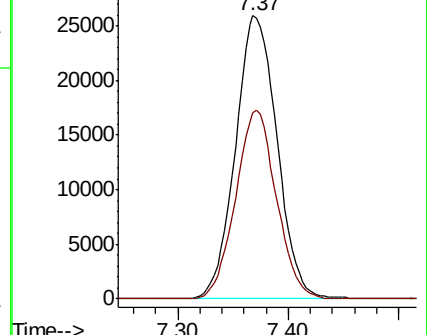
83 100

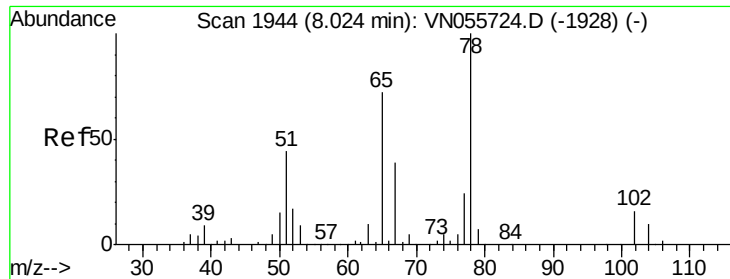
85 65.7 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

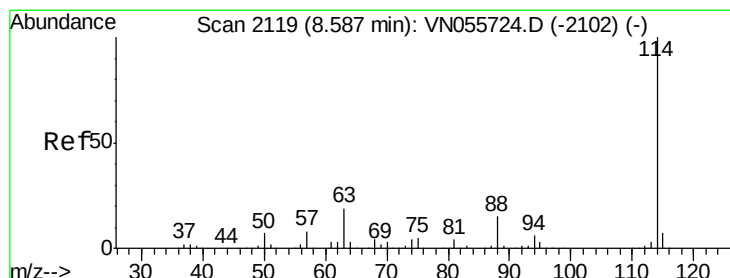
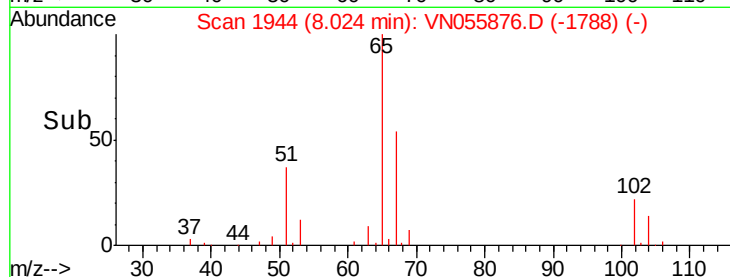
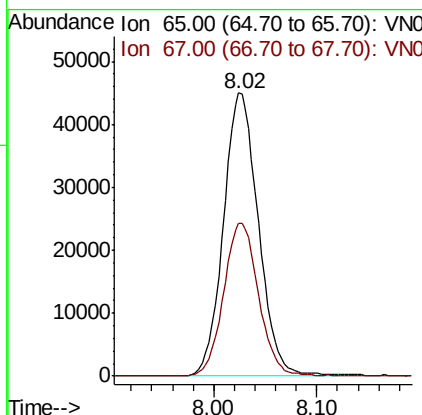
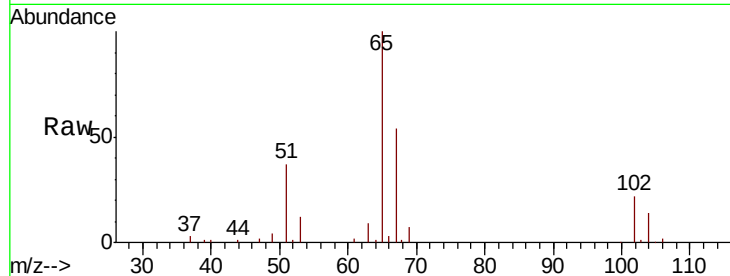




#27
 1,2-Dichloroethane-d4
 Concen: 29.903 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

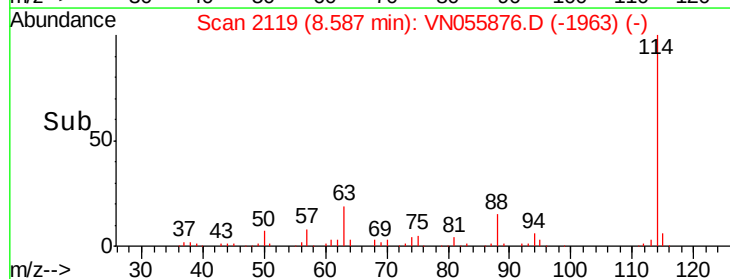
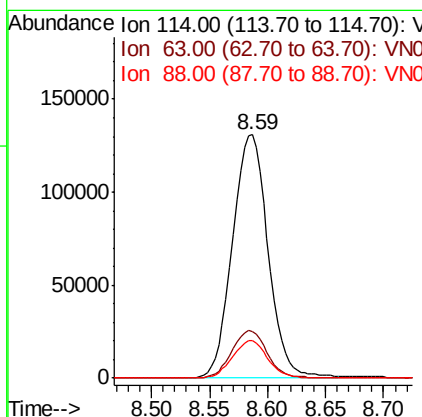
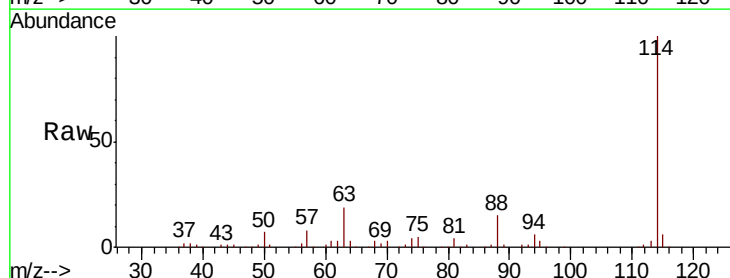
Instrument :
 MSVOA_N
 ClientSampled :
 14B-3

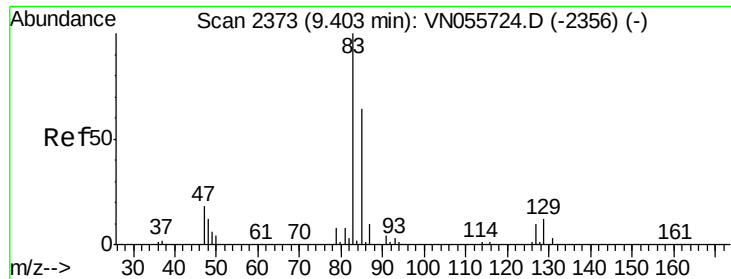
Tot Ion: 65 Resp: 106133
 Ion Ratio Lower Upper
 65 100
 67 53.7 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

Tgt Ion: 114 Resp: 279639
 Ion Ratio Lower Upper
 114 100
 63 19.4 15.6 23.4
 88 15.1 12.3 18.5





#41

Bromodichloromethane

Concen: 1.342 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Instrument :

MSVOA_N

ClientSampleId :

14B-3

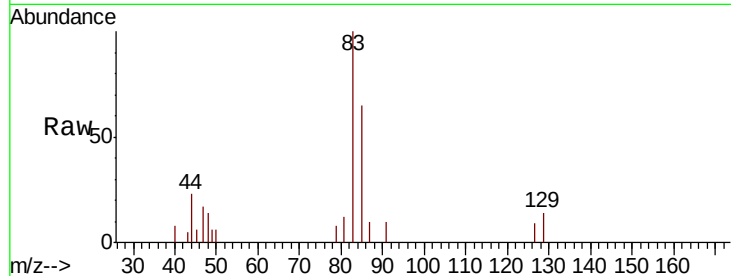
Tot Ion: 83 Resp: 5769

Ion Ratio Lower Upper

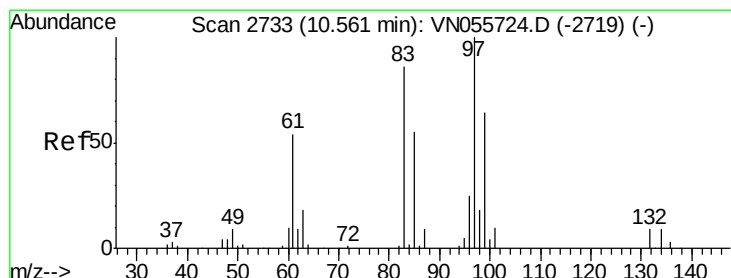
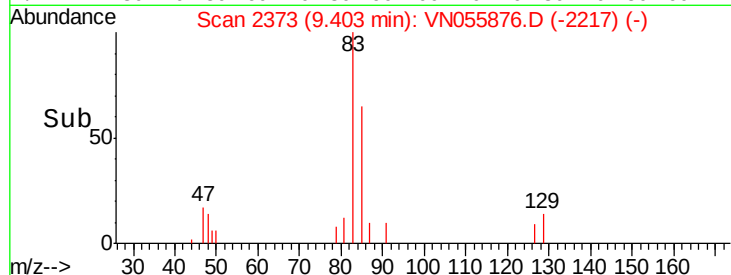
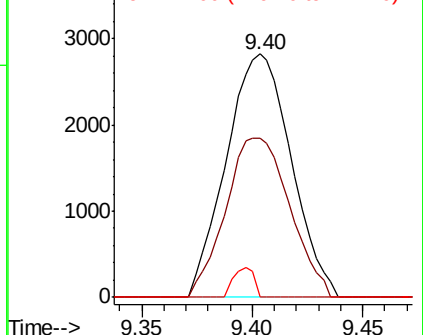
83 100

85 65.5 51.4 77.0

127 0.0 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: 3.209 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.46 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Tgt Ion: 97 Resp: 9801

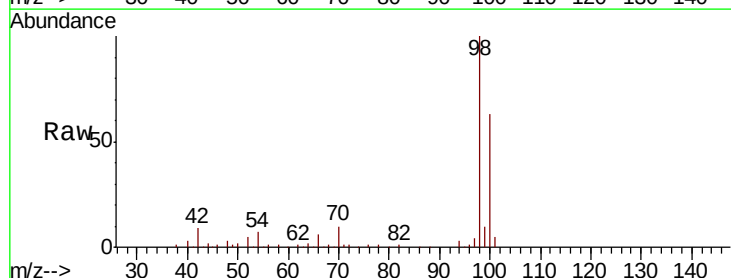
Ion Ratio Lower Upper

97 100

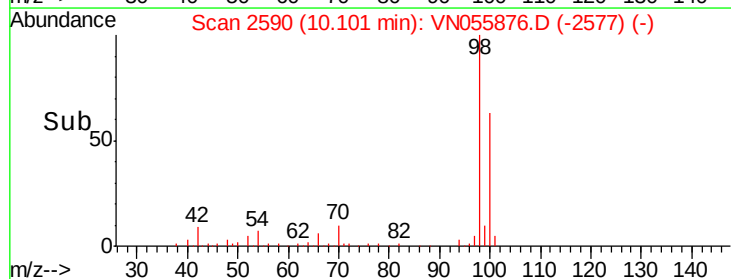
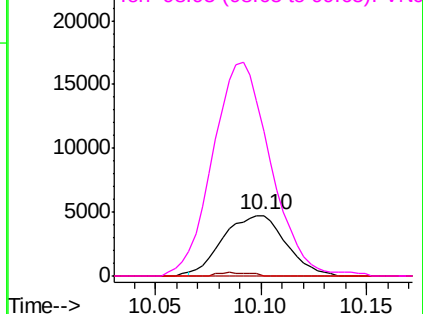
83 0.0 68.9 103.3#

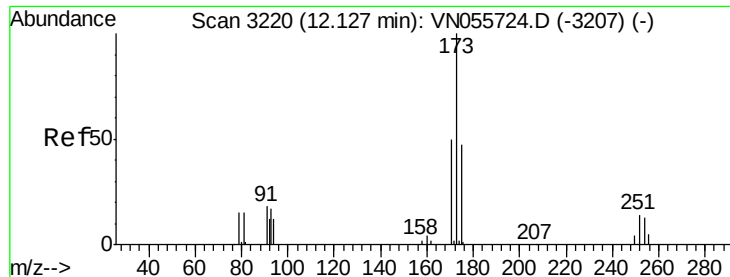
85 0.0 44.3 66.5#

99 231.7 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





#56

Bromoform

Concen: 0.226 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Instrument :

MSVOA_N

ClientSampled :

14B-3

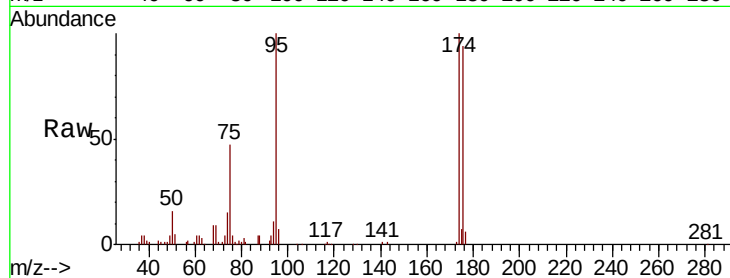
Tot Ion:173 Resp: 669

Ion Ratio Lower Upper

173 100

175 873.4 38.5 57.7#

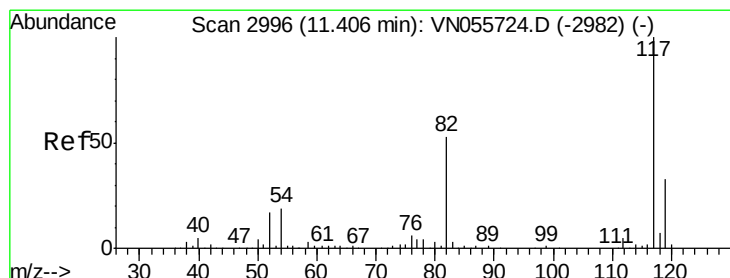
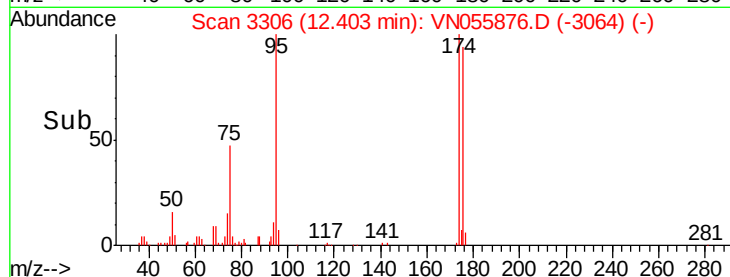
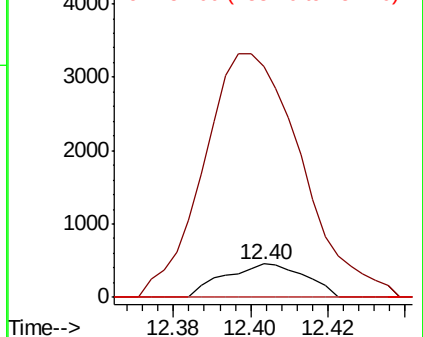
254 0.0 9.4 14.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

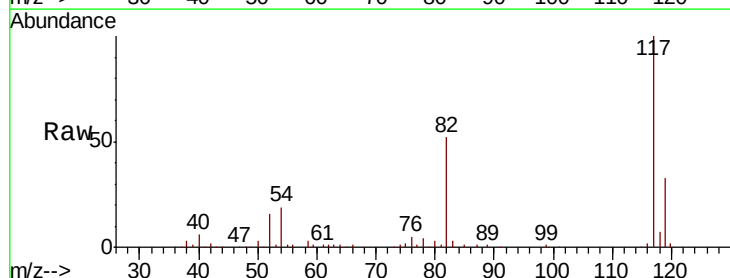
Tgt Ion:117 Resp: 227775

Ion Ratio Lower Upper

117 100

82 52.3 42.6 64.0

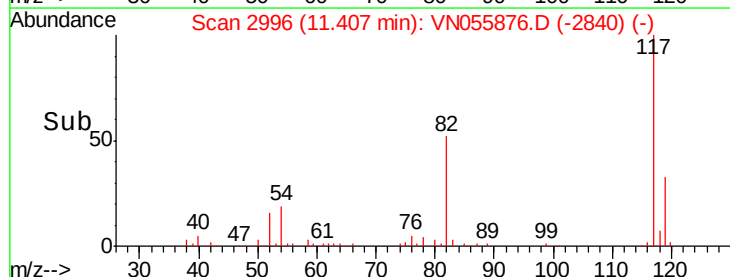
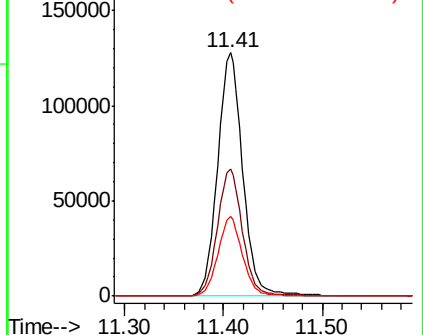
119 31.9 25.9 38.9

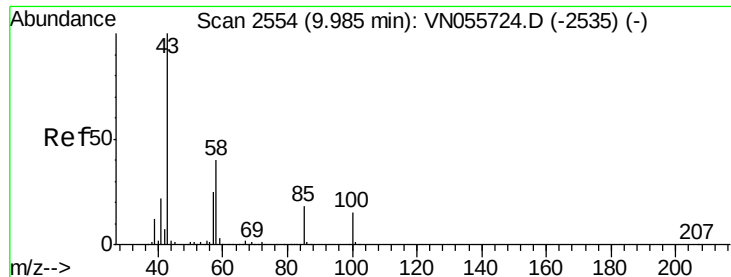


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#58

4-Methyl-2-Pentanone

Concen: 0.294 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Instrument :

MSVOA_N

ClientSampled :

14B-3

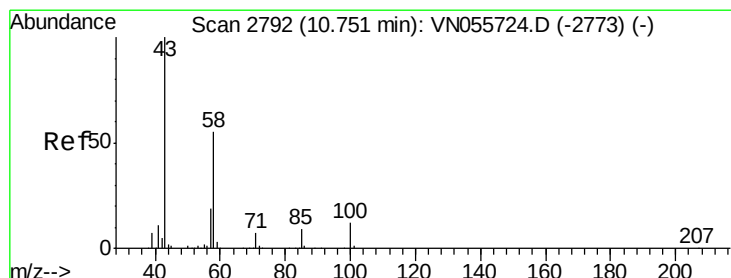
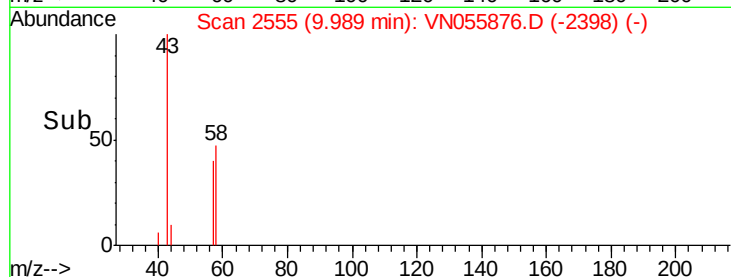
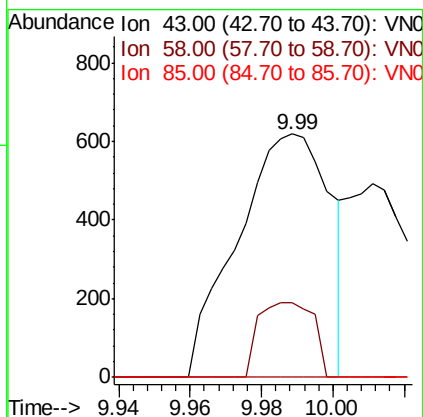
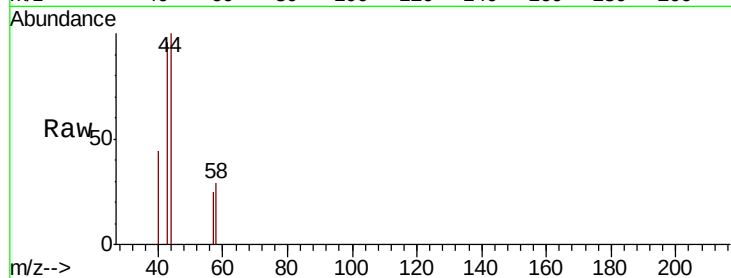
Tot Ion: 43 Resp: 1110

Ion Ratio Lower Upper

43 100

58 18.3 31.7 47.5#

85 0.0 14.5 21.7#



#59

2-Hexanone

Concen: 0.598 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

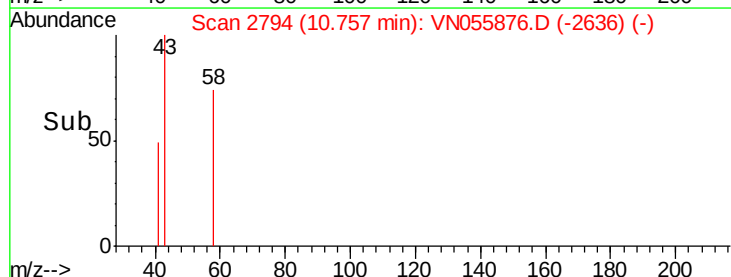
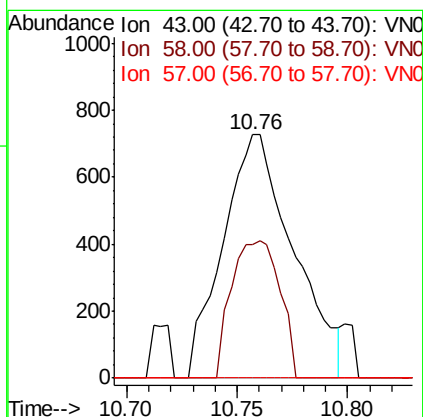
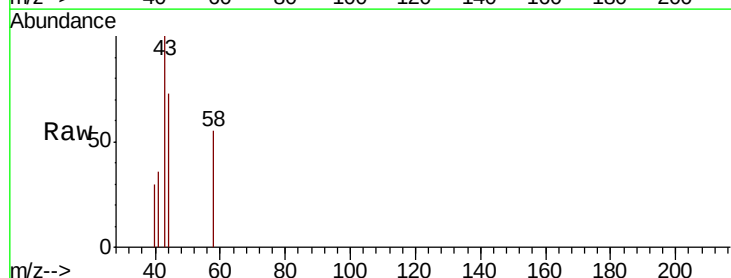
Tgt Ion: 43 Resp: 1613

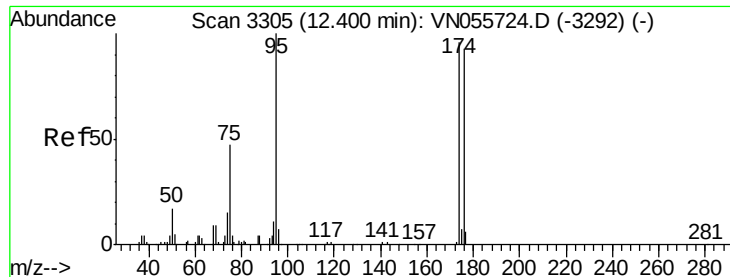
Ion Ratio Lower Upper

43 100

58 38.4 44.8 67.2#

57 0.0 15.3 22.9#

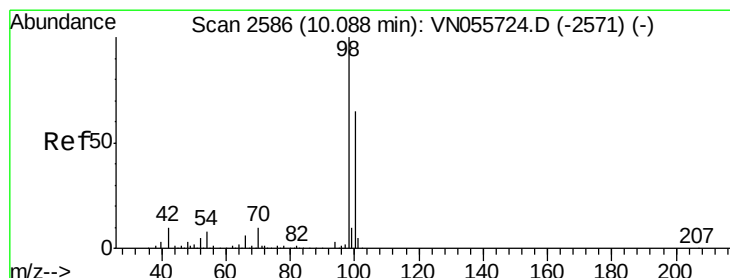
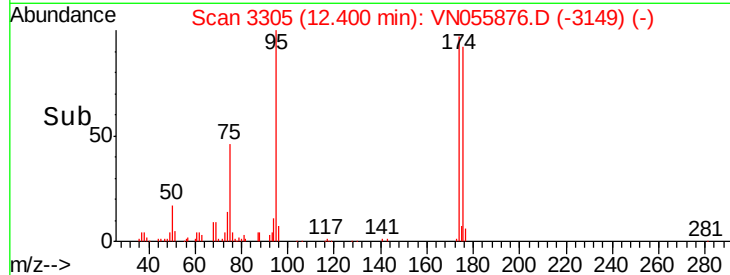
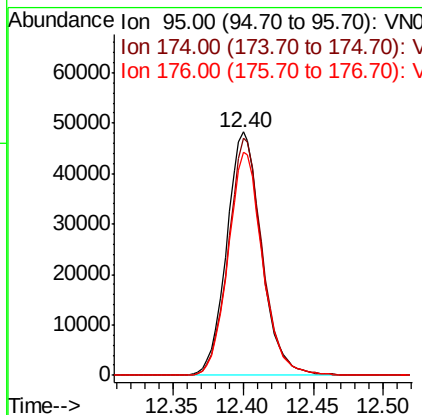
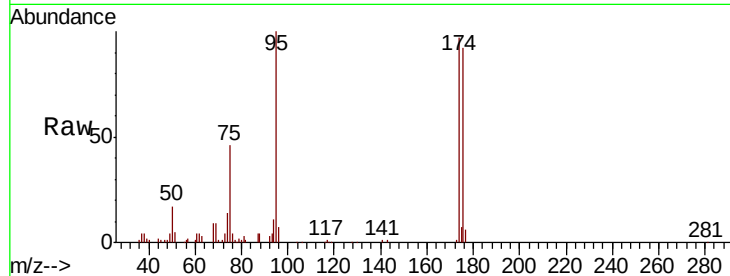




#60
 4-Bromofluorobenzene
 Concen: 23.469 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

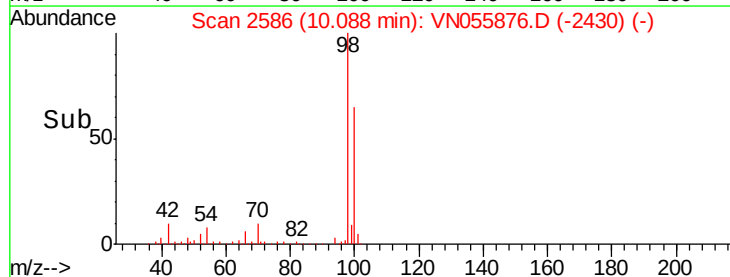
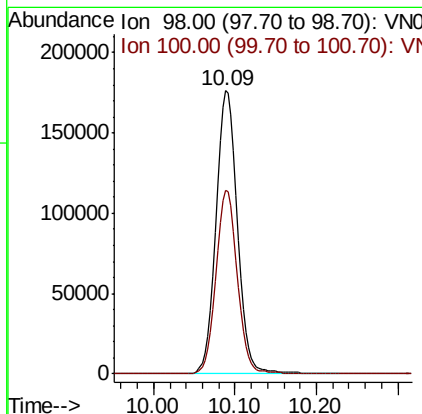
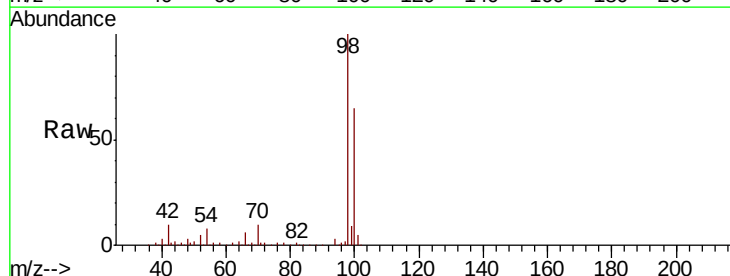
Instrument :
 MSVOA_N
 ClientSampled :
 14B-3

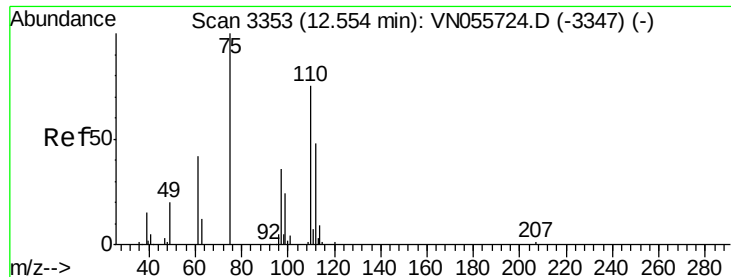
Tot Ion	95	Resp	83157
Ion	Ratio	Lower	Upper
95	100		
174	95.3	75.7	113.5
176	90.8	74.1	111.1



#63
 Toluene-d8
 Concen: 31.661 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

Tgt Ion	98	Resp	329562
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4





#72

1,2,3-Trichloropropane

Concen: 10.985 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

Instrument :

MSVOA_N

ClientSampled :

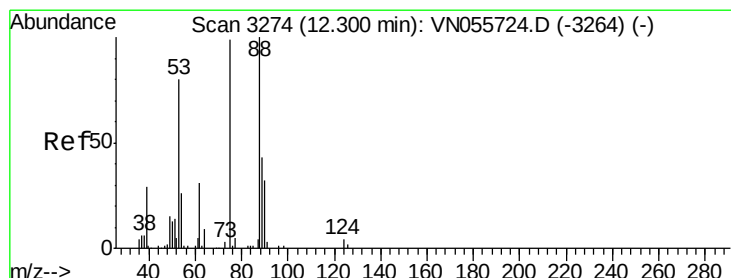
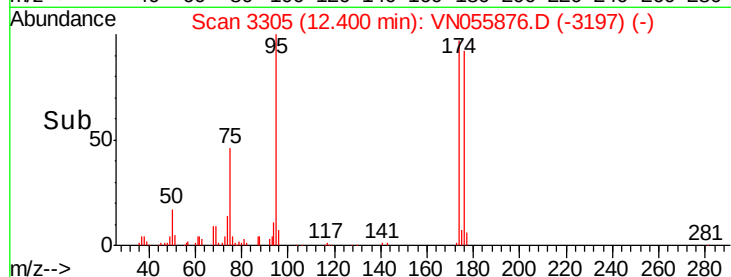
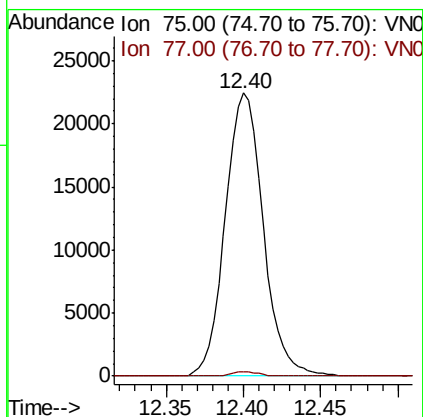
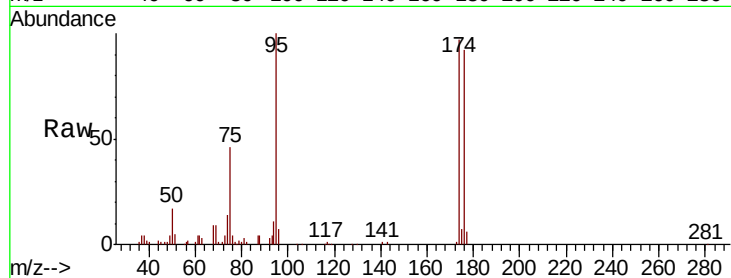
14B-3

Tot Ion: 75 Resp: 38299

Ion Ratio Lower Upper

75 100

77 1.1 0.0 349.8



#77

t-1,4-Dichloro-2-butene

Concen: 27.654 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055876.D

Acq: 29 May 2019 14:33

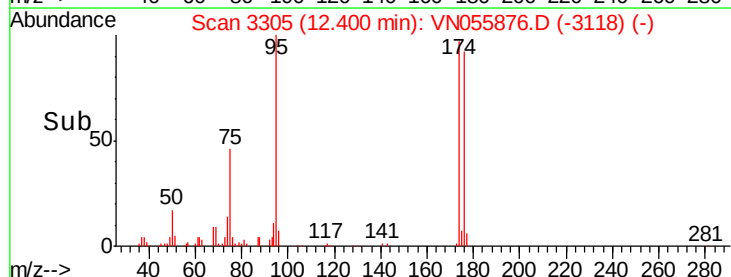
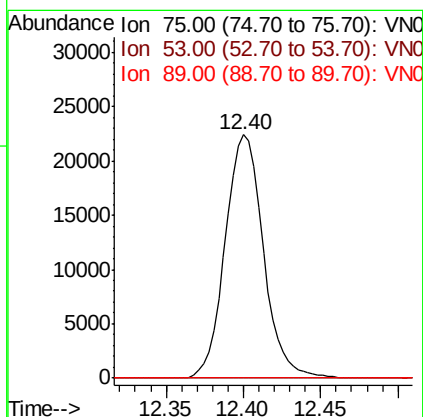
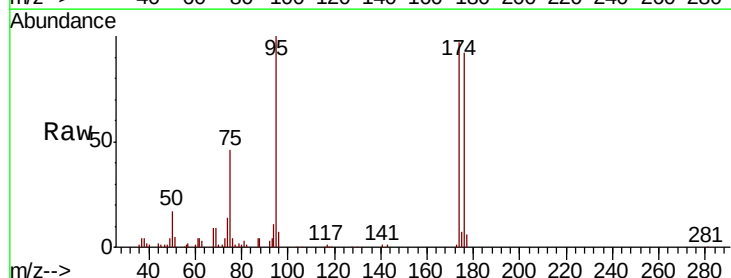
Tgt Ion: 75 Resp: 38299

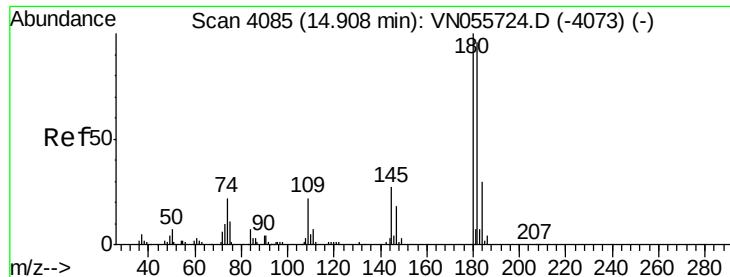
Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#

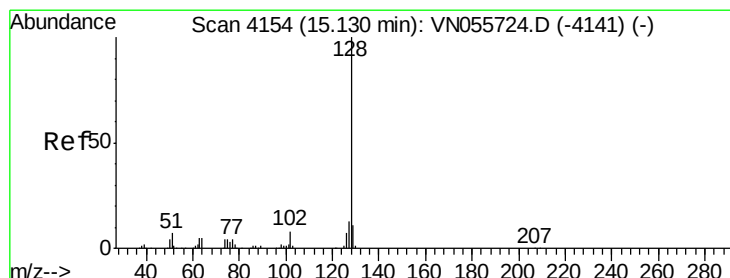
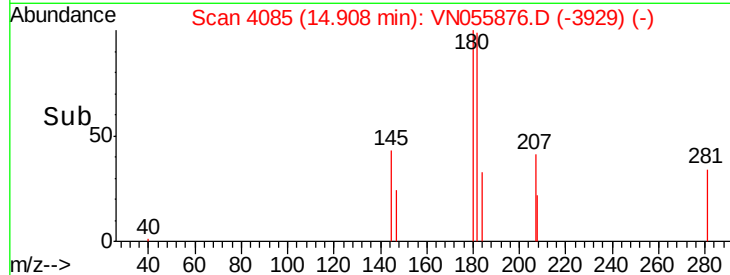
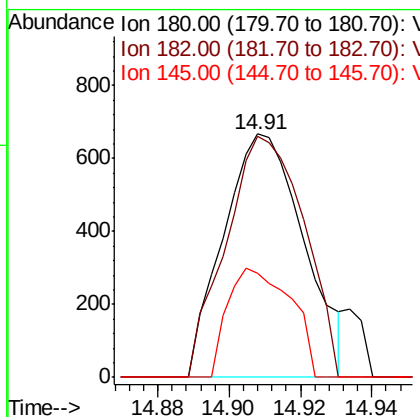
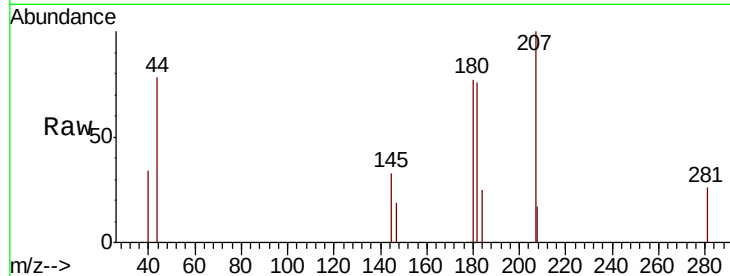




#89
 1,2,4-Trichlorobenzene
 Concen: 0.350 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

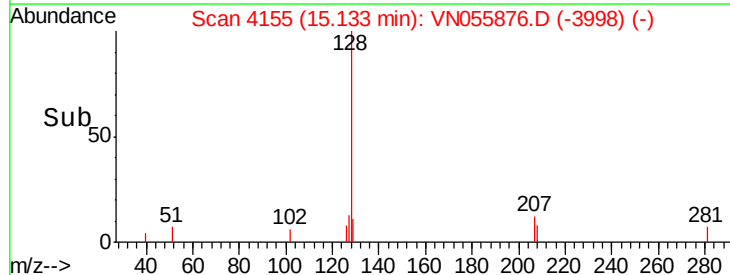
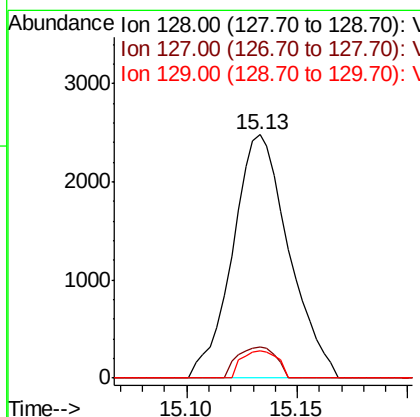
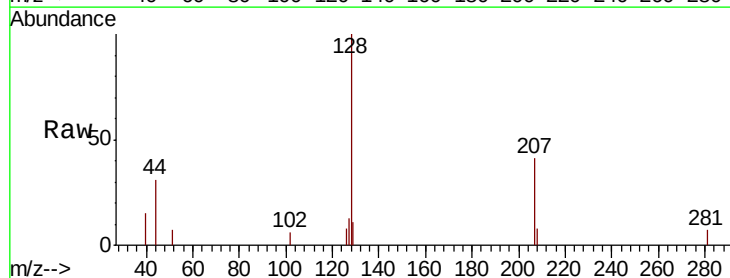
Instrument :
 MSVOA_N
 ClientSampled :
 14B-3

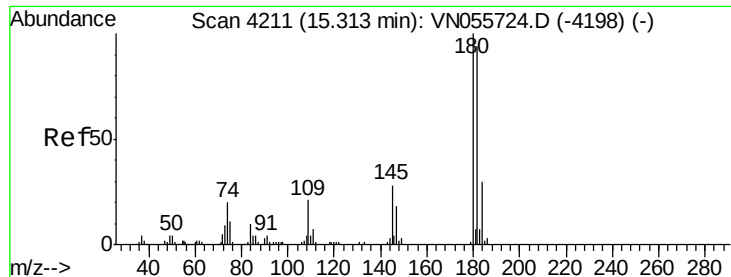
Tot Ion:180 Resp: 1039
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.1 114.1
 145 35.2 21.8 32.8#



#91
 Naphthalene
 Concen: 0.541 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

Tgt Ion:128 Resp: 4383
 Ion Ratio Lower Upper
 128 100
 127 9.0 10.0 15.0#
 129 7.2 8.7 13.1#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.454 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055876.D
 Acq: 29 May 2019 14:33

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Tot Ion:180 Resp: 1408
 Ion Ratio Lower Upper
 180 100
 182 94.2 0.0 188.6
 145 19.7 0.0 56.8

