

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063042.D
 Acq On : 20 Aug 2020 17:36
 Operator : JC/MD
 Sample : L3706-01 5XL3723-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Aug 21 05:43:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	31332	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	155566	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	143814	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	68446	30.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.77%
60) 4-Bromofluorobenzene	12.38	95	56922	25.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.50%
63) Toluene-d8	10.06	98	194975	29.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.47%

Target Compounds

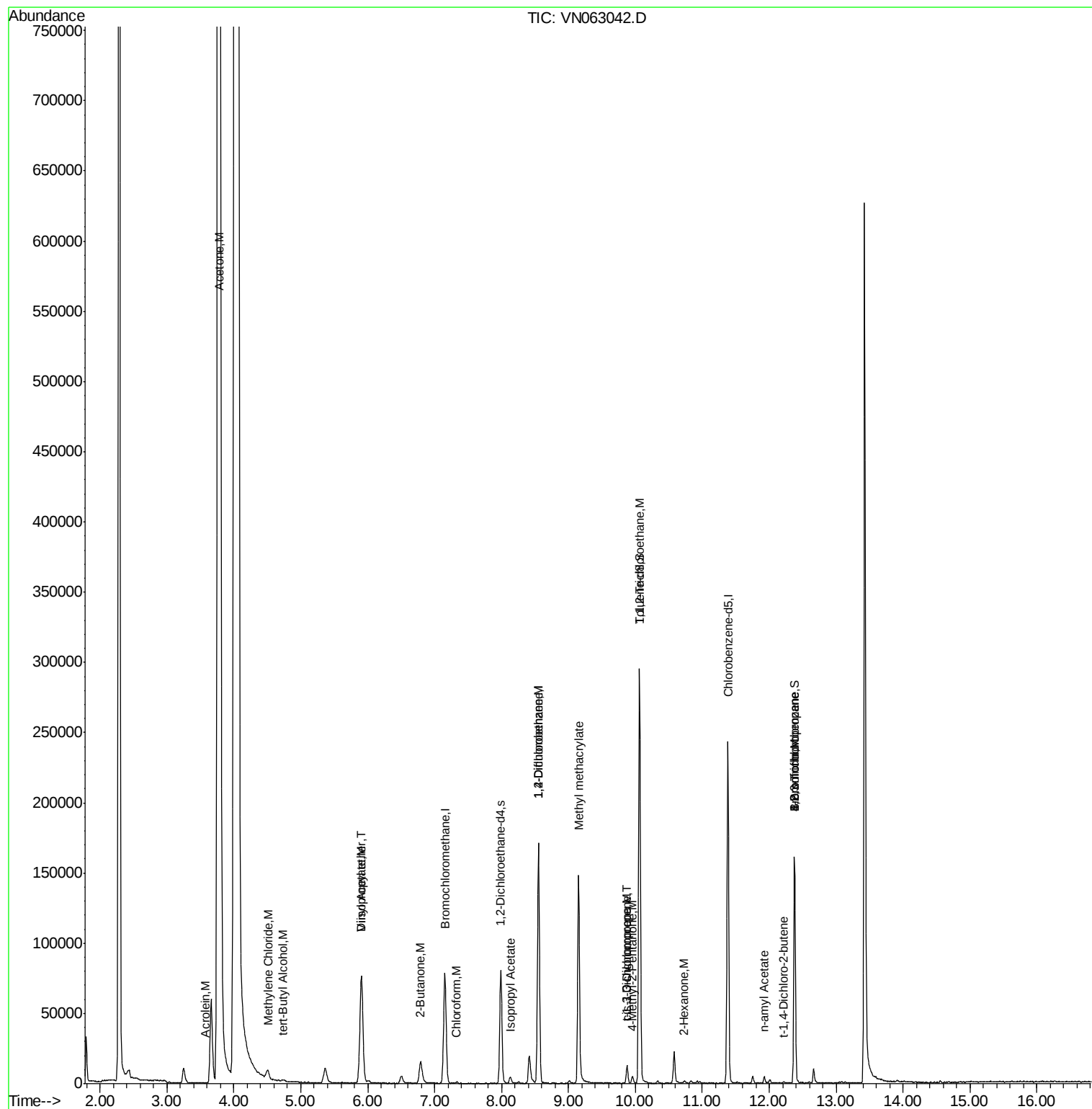
					Ovalue	
13) Acrolein	3.59	56	257	1.287	ug/l #	41
15) Acetone	3.78	58	1494227	6049.974	ug/l	94
18) Methylene Chloride	4.51	84	4311	2.107	ug/l	96
20) Diisopropyl ether	5.91	45	97044	15.444	ug/l	91
23) tert-Butyl Alcohol	4.73	59	456	1.631	ug/l #	100
25) Chloroform	7.33	83	1209	0.352	ug/l	88
30) 2-Butanone	6.80	43	25341	24.066	ug/l #	93
36) 1,2-Dichloroethane	8.55	62	4982	2.017	ug/l #	74
42) Vinyl Acetate	5.91	43	54990	13.785	ug/l #	76
44) Isopropyl Acetate	8.13	43	5818	1.724	ug/l #	89
46) Methyl methacrylate	9.15	41	2986	1.798	ug/l #	36
47) n-amyl Acetate	11.92	43	653	0.218	ug/l	97
48) t-1,3-Dichloropropene	9.88	75	1878	0.656	ug/l #	45
49) cis-1,3-Dichloropropene	9.88	75	2062	0.662	ug/l #	65
50) 1,1,2-Trichloroethane	10.07	97	7372	3.908	ug/l #	1
56) Bromoform	12.38	173	457	0.302	ug/l #	1
58) 4-Methyl-2-Pentanone	9.96	43	4037	1.951	ug/l #	91
59) 2-Hexanone	10.73	43	2200	1.491	ug/l #	68
72) 1,2,3-Trichloropropane	12.38	75	27330	11.809	ug/l	1
77) t-1,4-Dichloro-2-butene	12.21	75	420	0.513	ug/l #	12

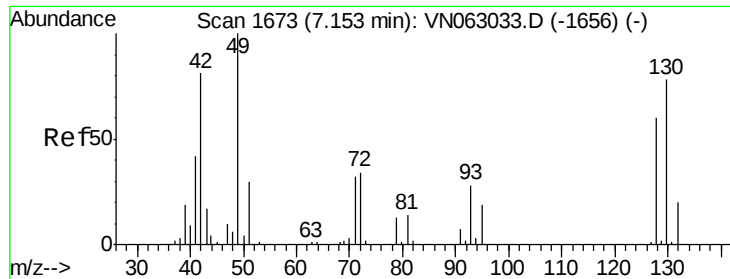
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Aug 20 14:01:17 2020
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampled :

EFF-WW

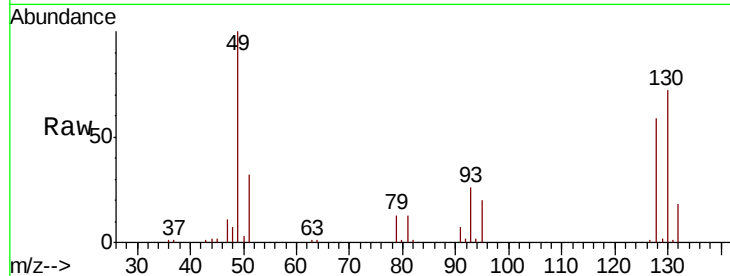
Tot Ion:128 Resp: 31332

Ion Ratio Lower Upper

128 100

49 172.9 0.0 437.5

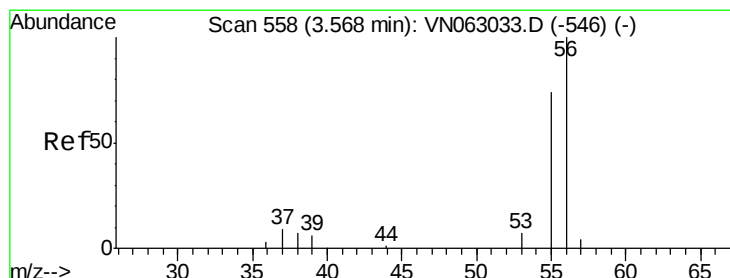
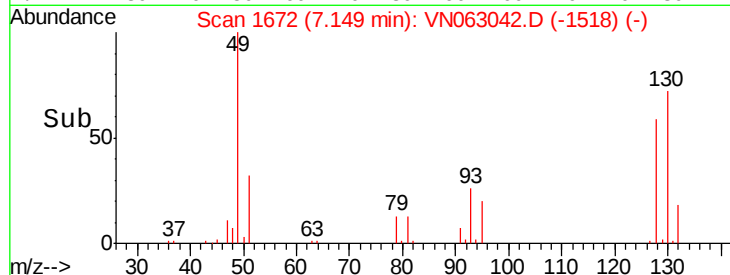
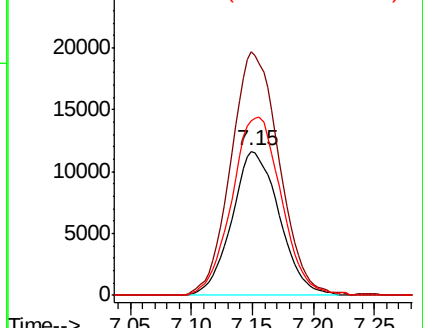
130 129.2 0.0 327.3



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: 1.287 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.02 min

Lab File: VN063042.D

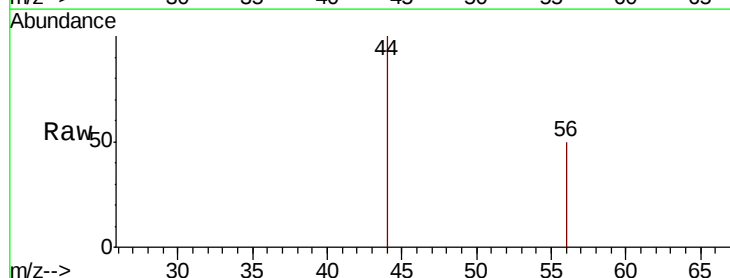
Acq: 20 Aug 2020 17:36

Tgt Ion: 56 Resp: 257

Ion Ratio Lower Upper

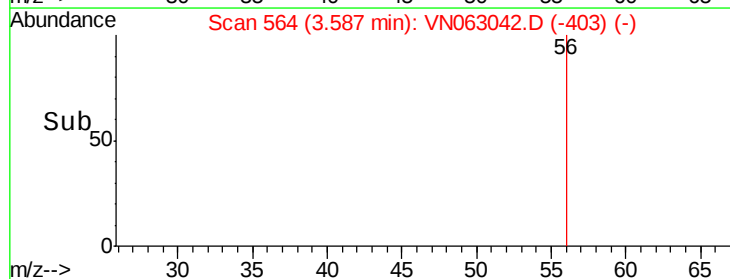
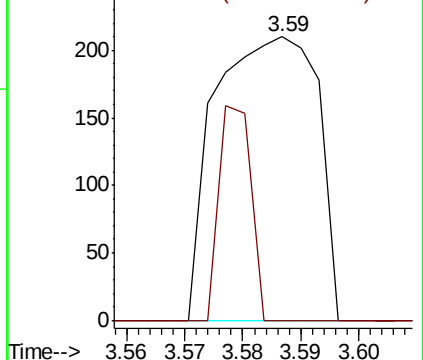
56 100

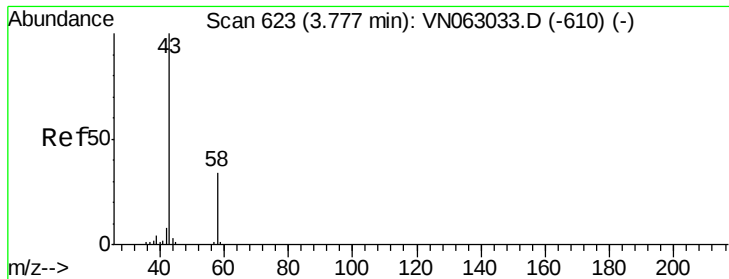
55 23.3 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 6049.974 ug/l

RT: 3.78 min Scan# 623

Delta R.T. -0.00 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampleId :

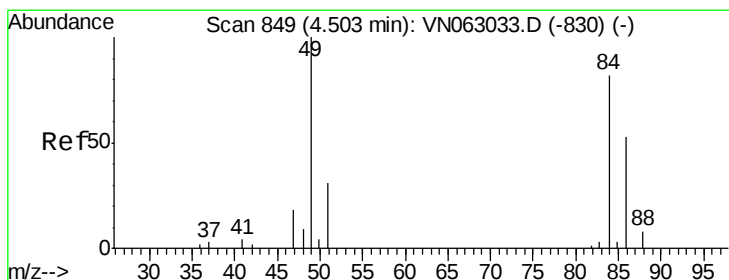
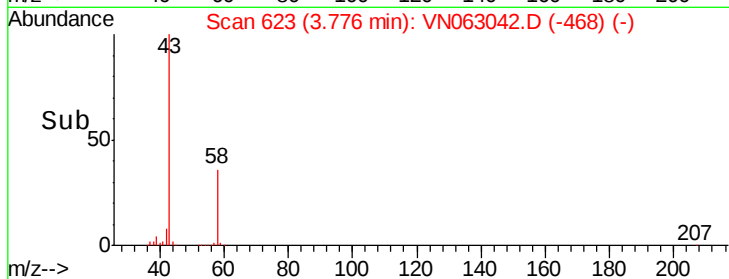
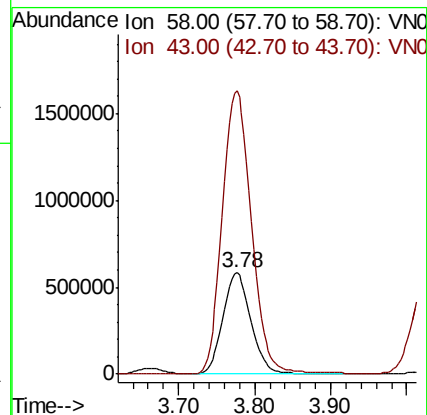
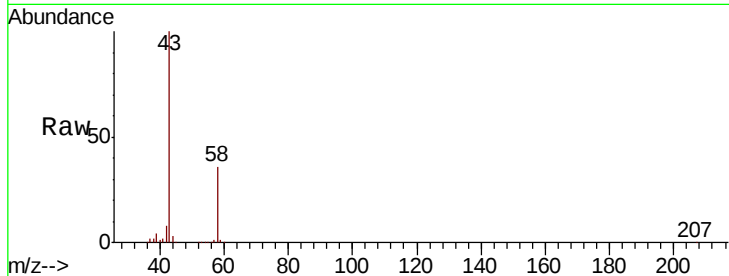
EFF-WW

Tot Ion: 58 Resp: 1494227

Ion Ratio Lower Upper

58 100

43 279.7 233.2 349.8



#18

Methylene Chloride

Concen: 2.107 ug/l

RT: 4.51 min Scan# 851

Delta R.T. 0.01 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Tgt Ion: 84 Resp: 4311

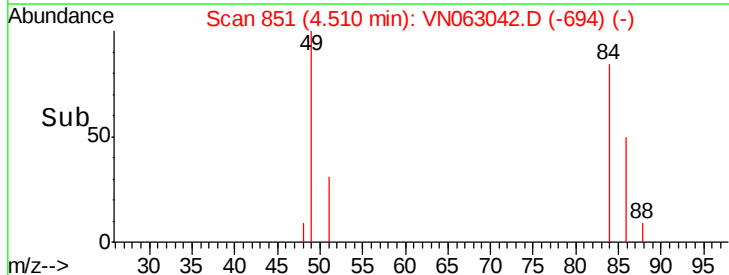
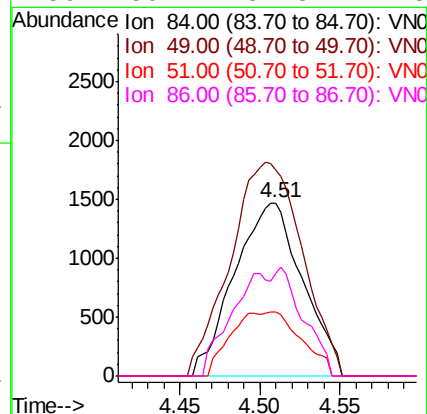
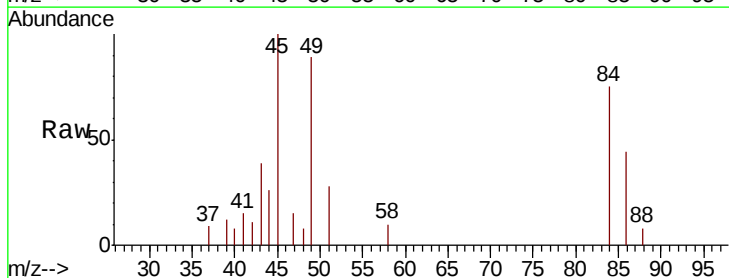
Ion Ratio Lower Upper

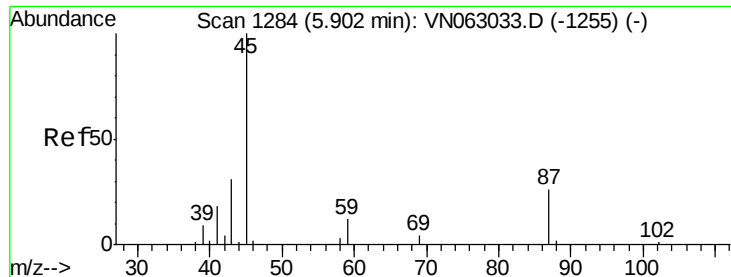
84 100

49 118.7 97.8 146.8

51 37.3 30.7 46.1

86 59.2 51.5 77.3

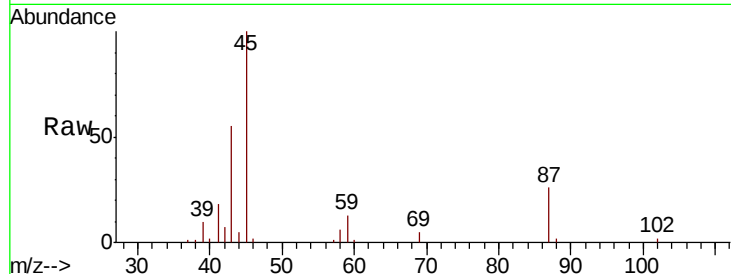




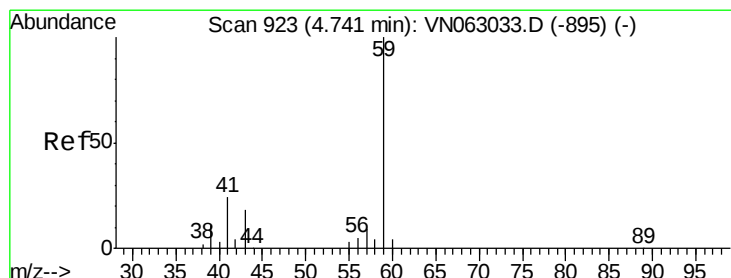
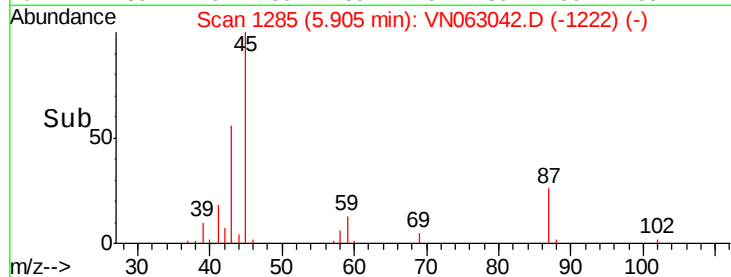
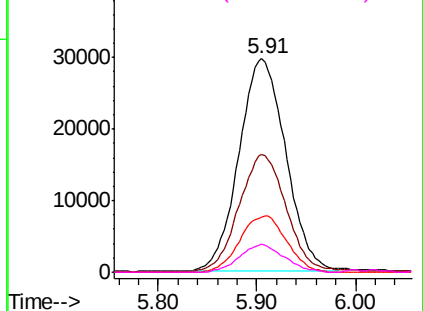
#20
Diisopropyl ether
Concen: 15.444 ug/l
RT: 5.91 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

Instrument :
MSVOA_N
ClientSampled :
EFF-WW

Tot Ion:	45	Resp:	97044
Ion	Ratio	Lower	Upper
45	100		
43	55.1	51.8	77.6
87	26.2	21.8	32.6
59	13.3	9.6	14.4

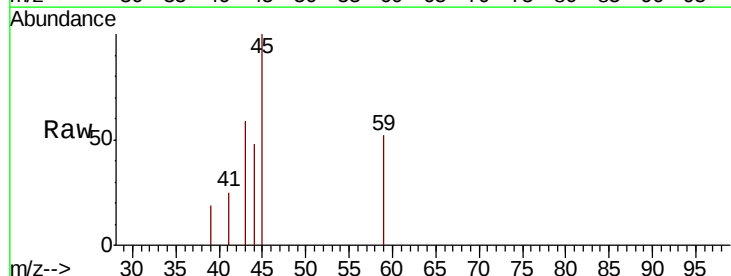


Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0

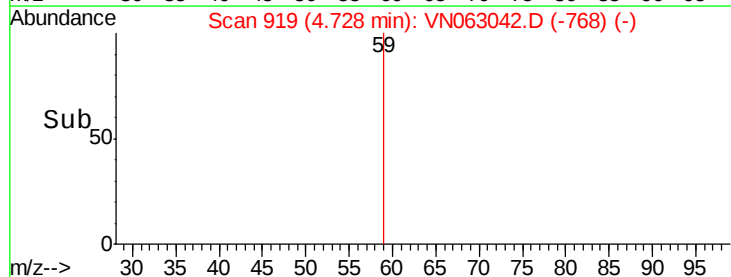
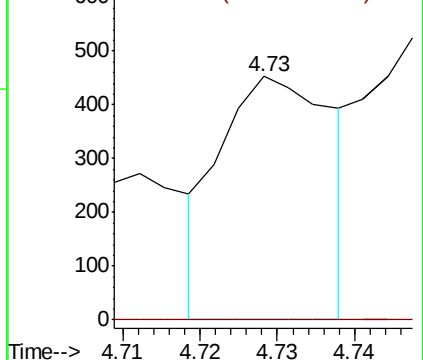


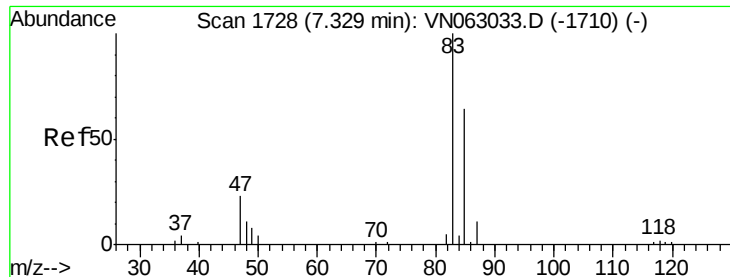
#23
tert-Butyl Alcohol
Concen: 1.631 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

Tgt Ion:	59	Resp:	456
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

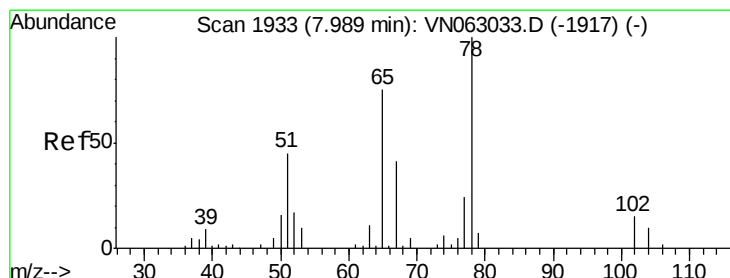
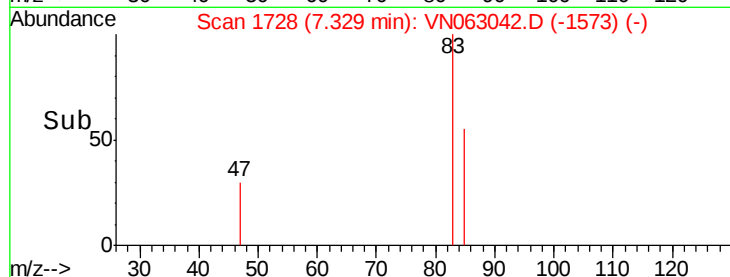
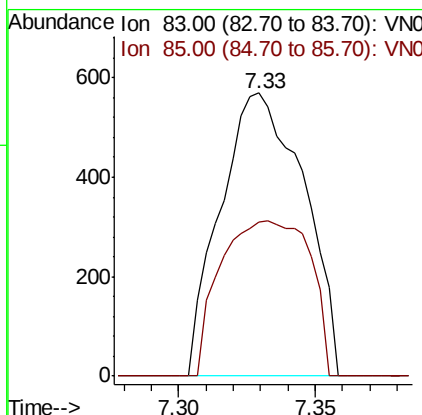
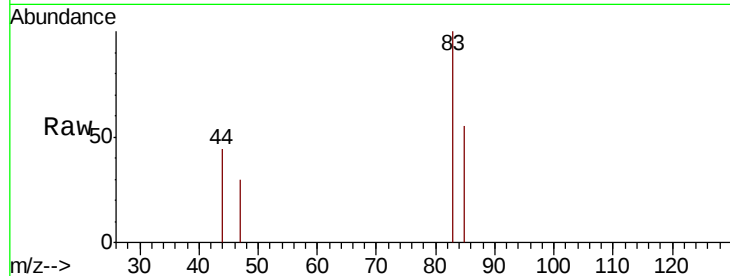




#25
Chloroform
Concen: 0.352 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. -0.00 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

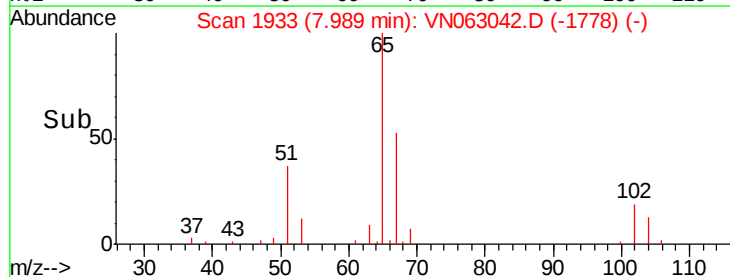
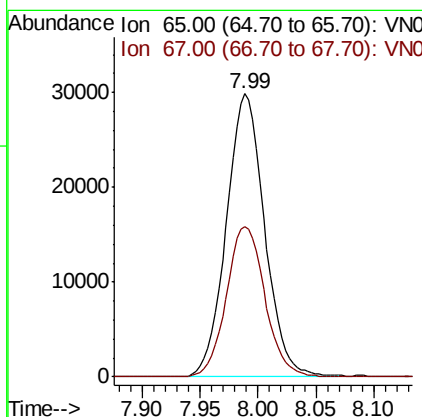
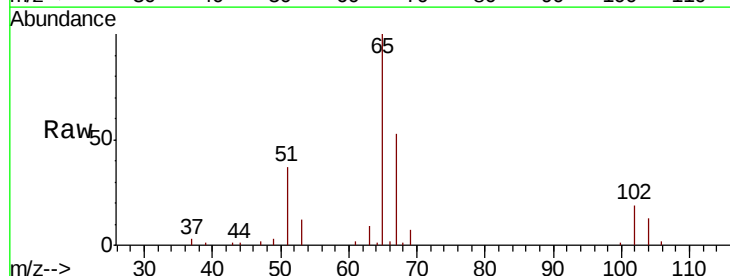
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

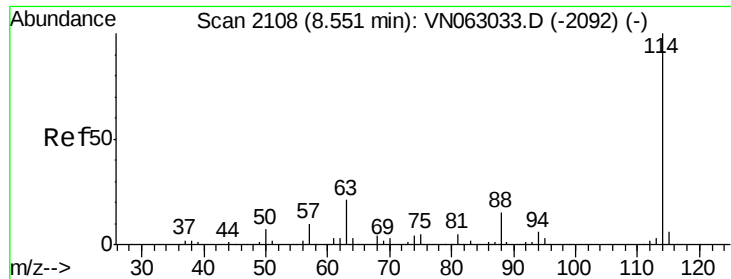
Tot Ion: 83 Resp: 1209
Ion Ratio Lower Upper
83 100
85 54.7 51.0 76.4



#27
1,2-Dichloroethane-d4
Concen: 30.832 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

Tgt Ion: 65 Resp: 68446
Ion Ratio Lower Upper
65 100
67 53.3 43.8 65.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

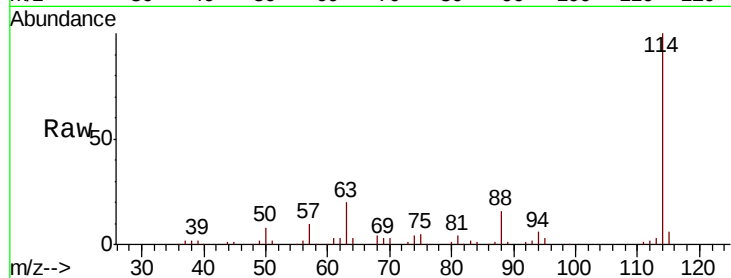
Tot Ion:114 Resp: 155566

Ion Ratio Lower Upper

114 100

63 20.7 17.0 25.6

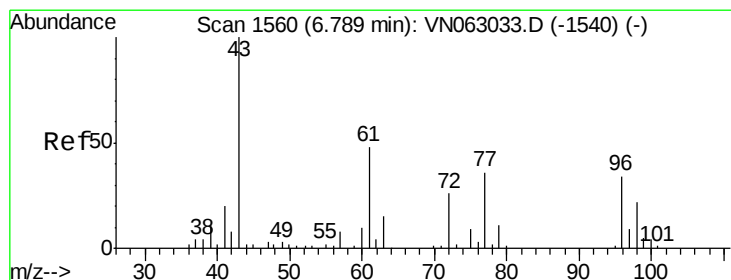
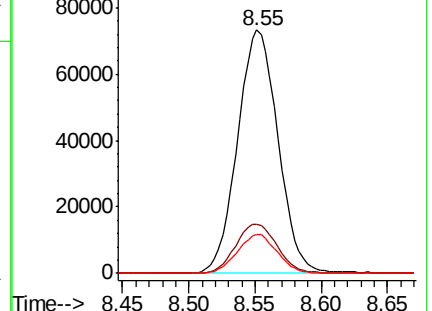
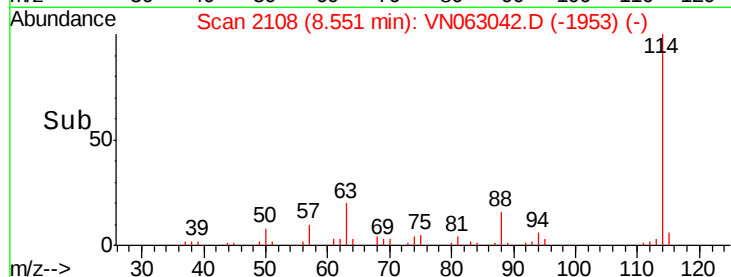
88 15.7 12.6 18.8



Abundance Ion 114.00 (113.70 to 114.70): VN063033.D (-2092) (-)

Ion 63.00 (62.70 to 63.70): VN063033.D (-2092) (-)

Ion 88.00 (87.70 to 88.70): VN063033.D (-2092) (-)



#30

2-Butanone

Concen: 24.066 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

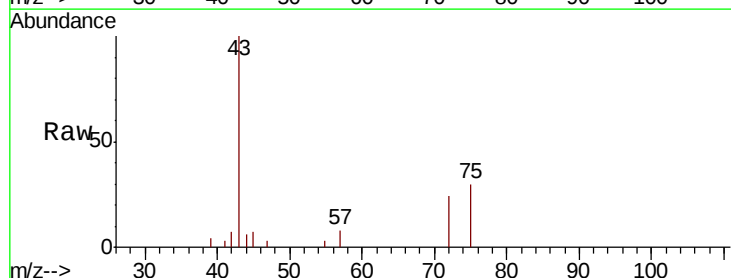
Tgt Ion: 43 Resp: 25341

Ion Ratio Lower Upper

43 100

57 3.6 6.6 9.8#

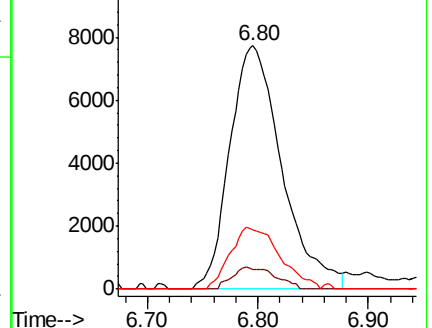
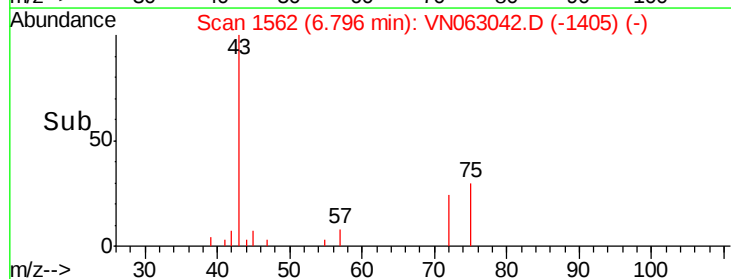
72 24.1 21.3 31.9

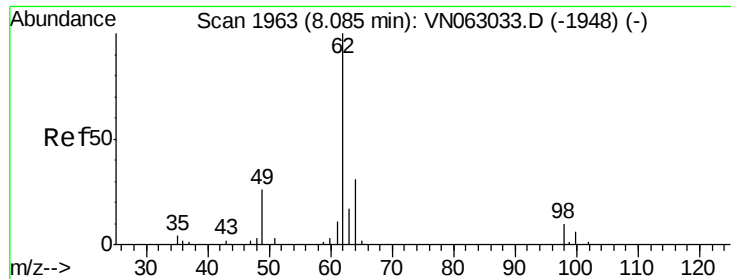


Abundance Ion 43.00 (42.70 to 43.70): VN063033.D (-1540) (-)

Ion 57.00 (56.70 to 57.70): VN063033.D (-1540) (-)

Ion 72.00 (71.70 to 72.70): VN063033.D (-1540) (-)

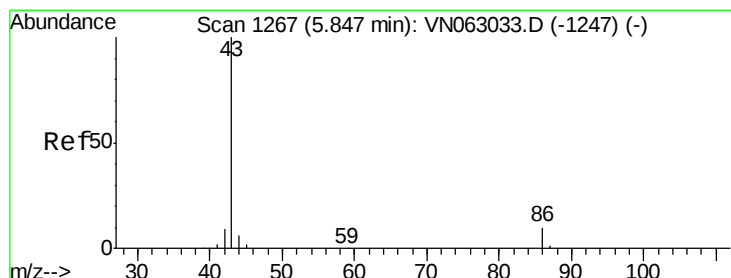
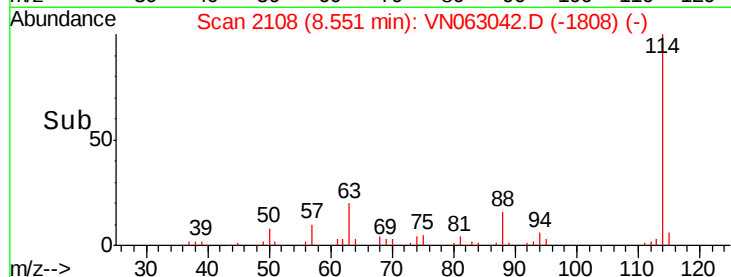
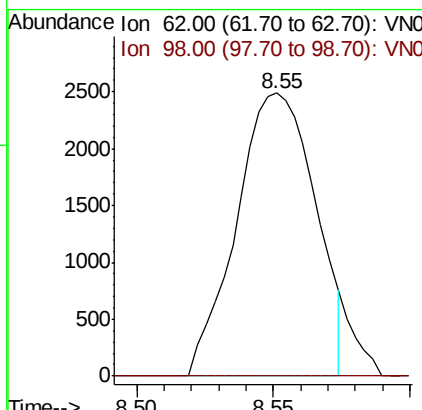
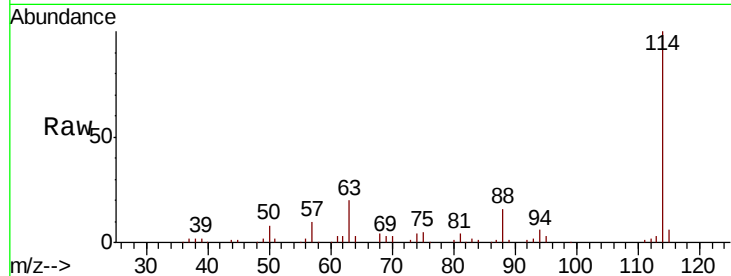




#36
 1,2-Dichloroethane
 Concen: 2.017 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.47 min
 Lab File: VN063042.D
 Acq: 20 Aug 2020 17:36

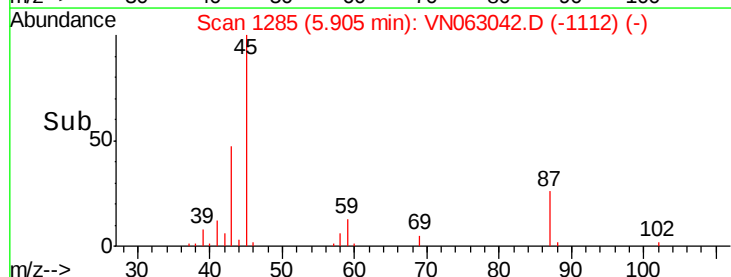
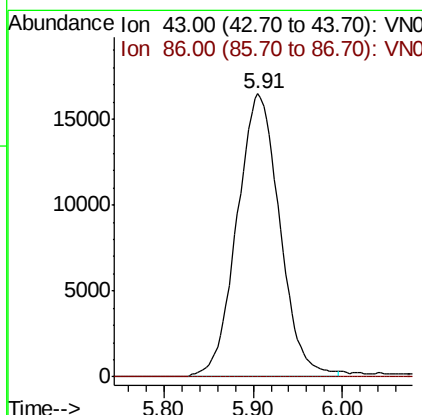
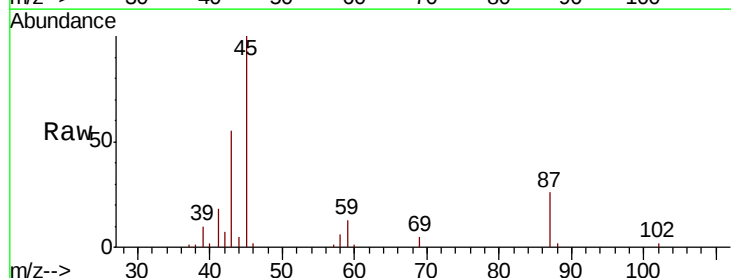
Instrument :
 MSVOA_N
 ClientSampled :
 EFF-WW

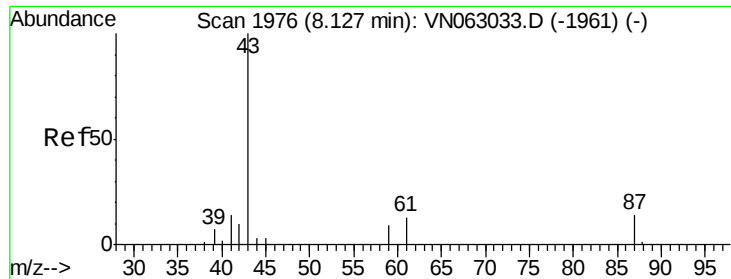
Tot Ion: 62 Resp: 4982
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#42
 Vinyl Acetate
 Concen: 13.785 ug/l
 RT: 5.91 min Scan# 1285
 Delta R.T. 0.06 min
 Lab File: VN063042.D
 Acq: 20 Aug 2020 17:36

Tgt Ion: 43 Resp: 54990
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.7 10.1#





#44

Isopropyl Acetate

Concen: 1.724 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampleId :

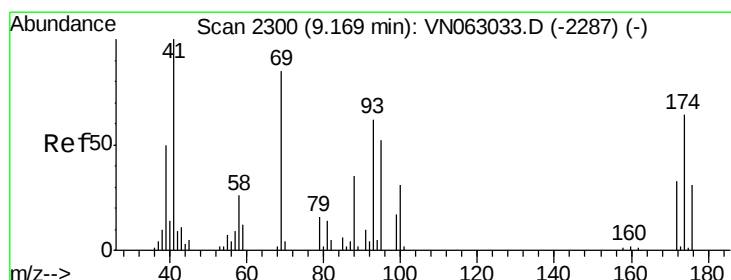
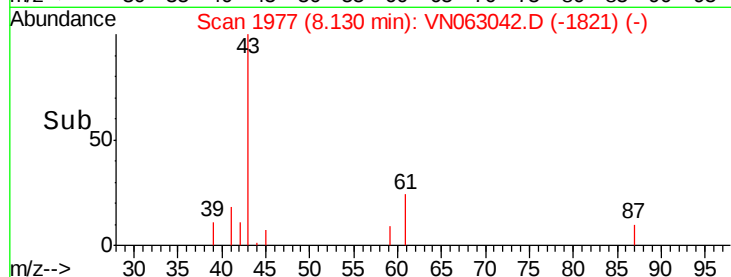
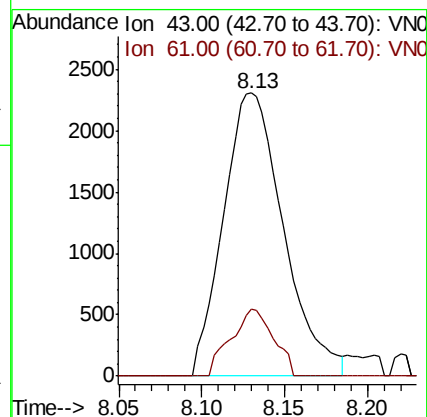
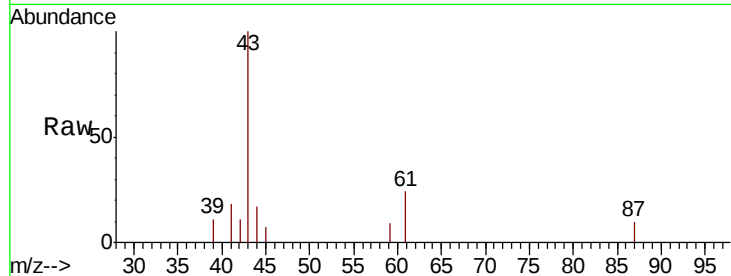
EFF-WW

Tot Ion: 43 Resp: 5818

Ion Ratio Lower Upper

43 100

61 16.9 17.5 26.3#



#46

Methyl methacrylate

Concen: 1.798 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.02 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

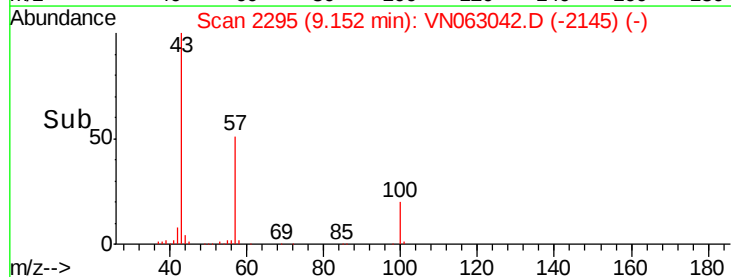
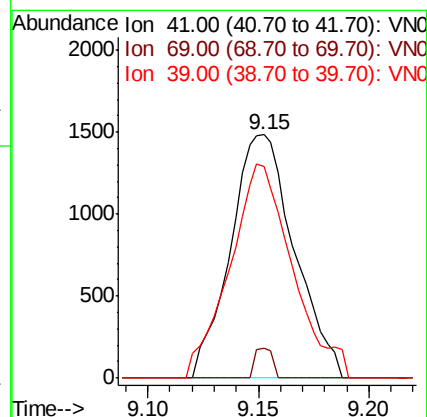
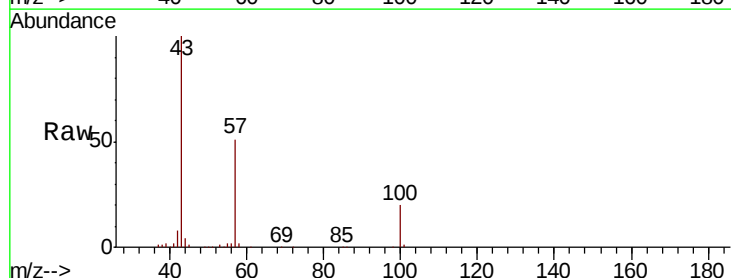
Tgt Ion: 41 Resp: 2986

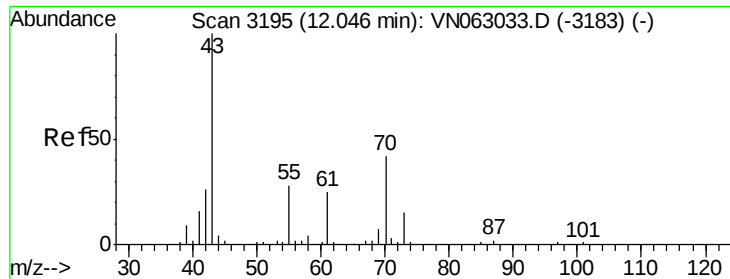
Ion Ratio Lower Upper

41 100

69 12.4 42.6 128.0#

39 76.5 25.1 75.4#

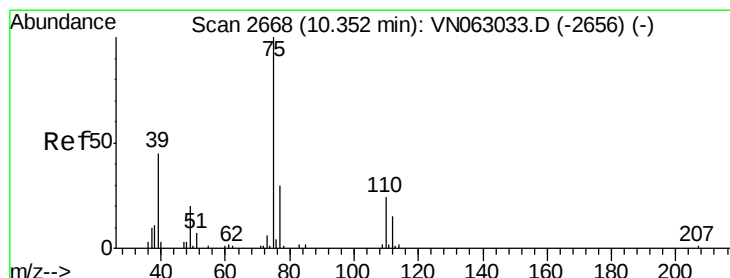
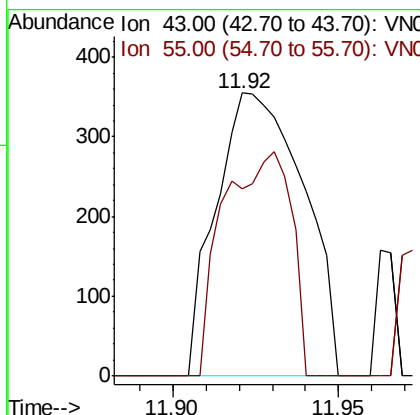
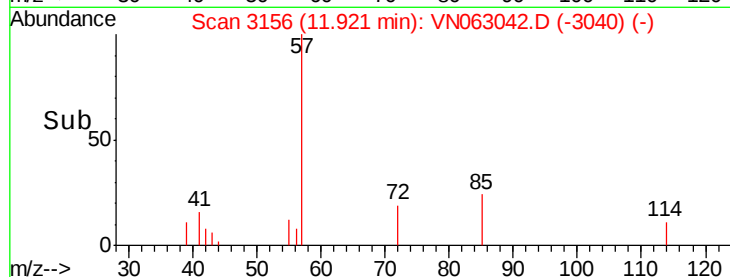
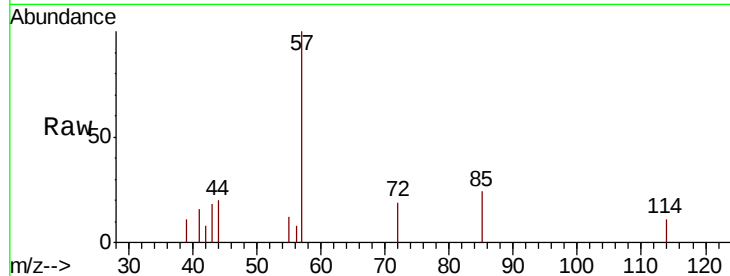




#47
n-amvl Acetate
Concen: 0.218 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.13 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

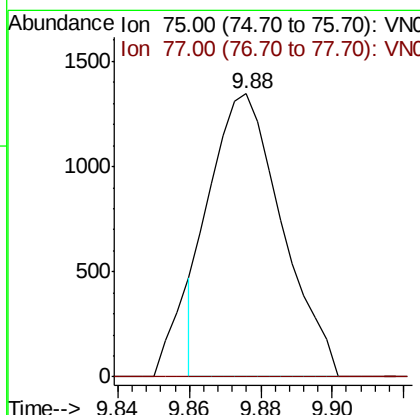
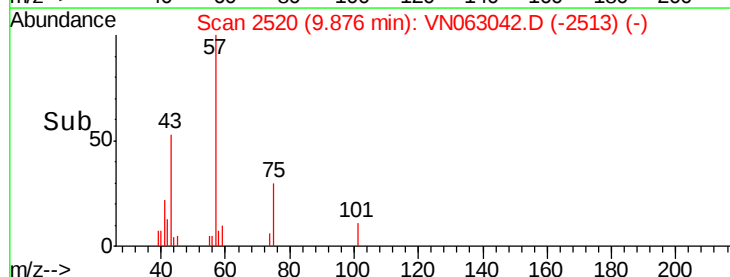
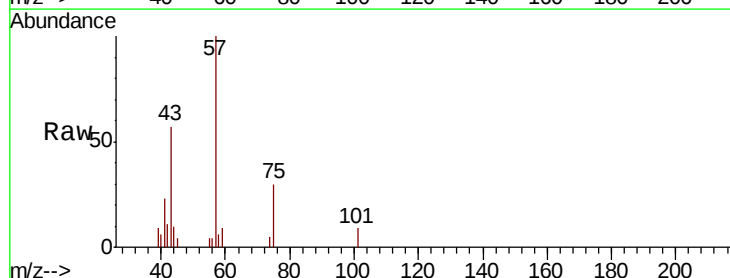
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

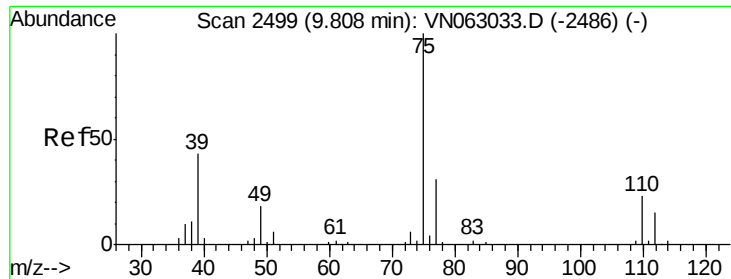
Tot Ion: 43 Resp: 653
Ion Ratio Lower Upper
43 100
55 25.1 21.2 31.8



#48
t-1,3-Dichloropropene
Concen: 0.656 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. -0.48 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

Tgt Ion: 75 Resp: 1878
Ion Ratio Lower Upper
75 100
77 0.0 23.8 35.8#

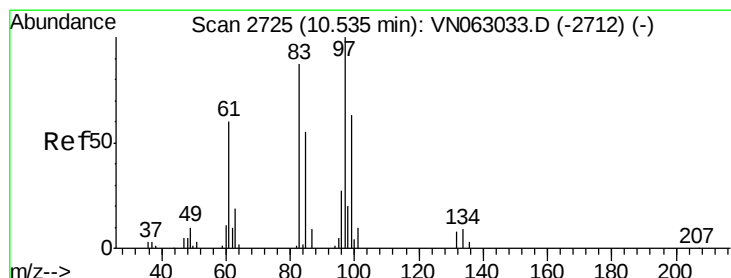
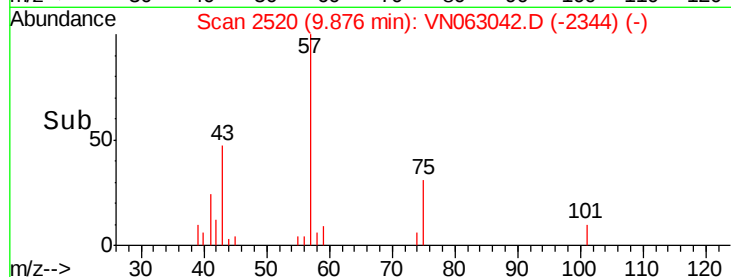
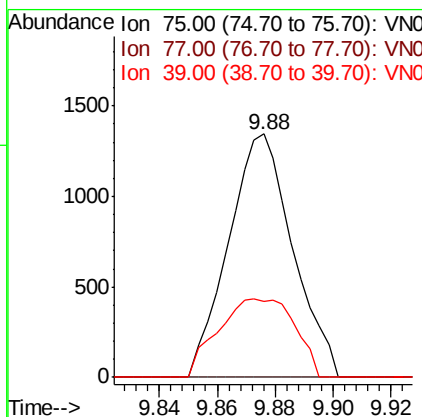
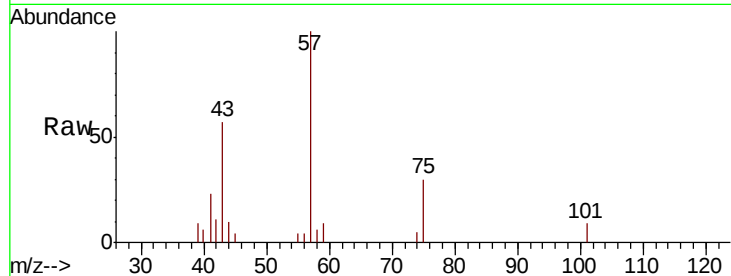




#49
 cis-1,3-Dichloropropene
 Concen: 0.662 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN063042.D
 Acq: 20 Aug 2020 17:36

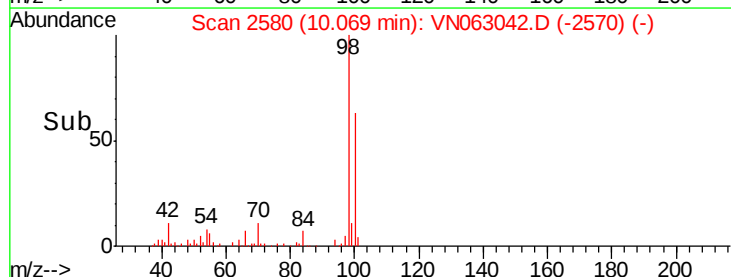
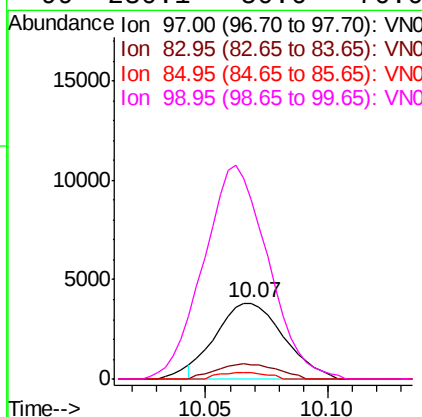
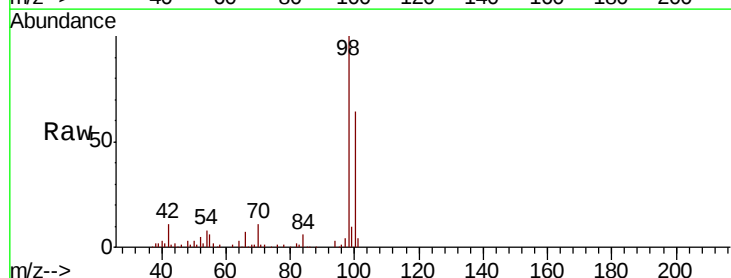
Instrument :
 MSVOA_N
 ClientSampled :
 EFF-WW

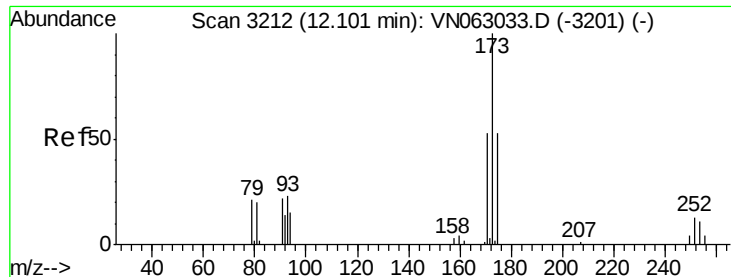
Tot Ion: 75 Resp: 2062
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 31.1 34.5 51.7#



#50
 1,1,2-Trichloroethane
 Concen: 3.908 ug/l
 RT: 10.07 min Scan# 2580
 Delta R.T. -0.47 min
 Lab File: VN063042.D
 Acq: 20 Aug 2020 17:36

Tgt Ion: 97 Resp: 7372
 Ion Ratio Lower Upper
 97 100
 83 19.3 69.9 104.9#
 85 8.1 44.0 66.0#
 99 230.1 50.6 76.0#





#56

Bromoform

Concen: 0.302 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

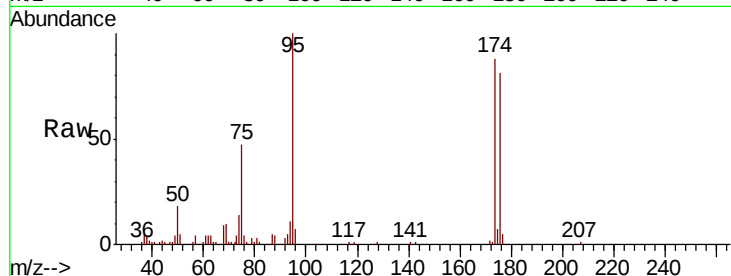
Tot Ion:173 Resp: 457

Ion Ratio Lower Upper

173 100

175 786.9 41.2 61.8#

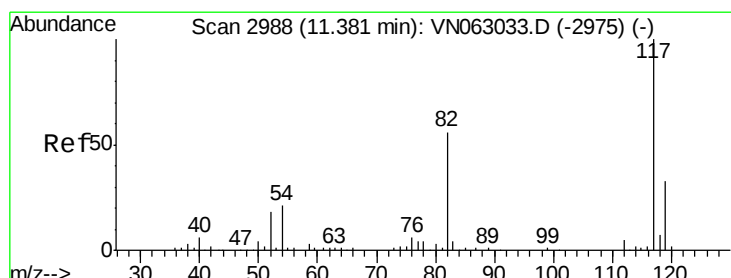
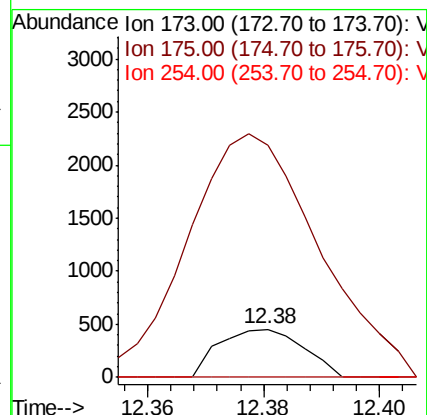
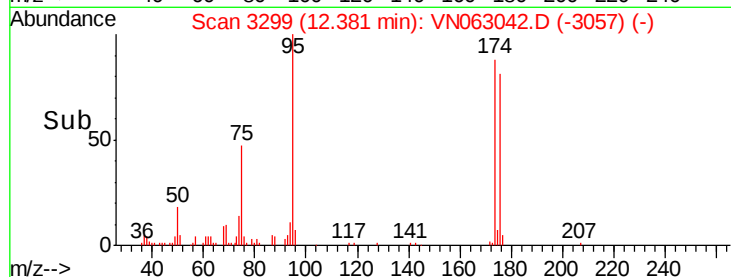
254 0.0 9.0 13.4#



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: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

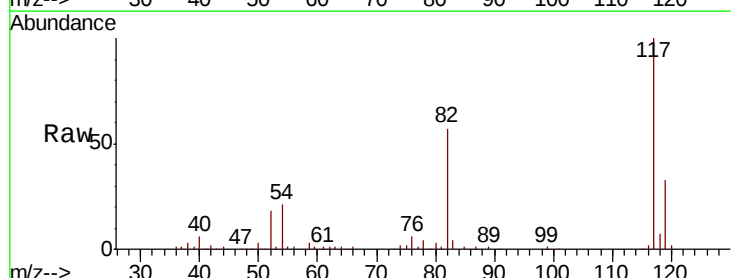
Tgt Ion:117 Resp: 143814

Ion Ratio Lower Upper

117 100

82 55.5 44.9 67.3

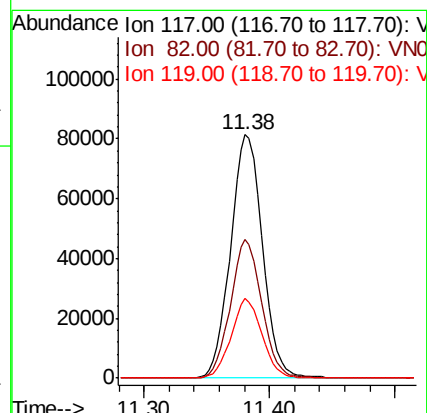
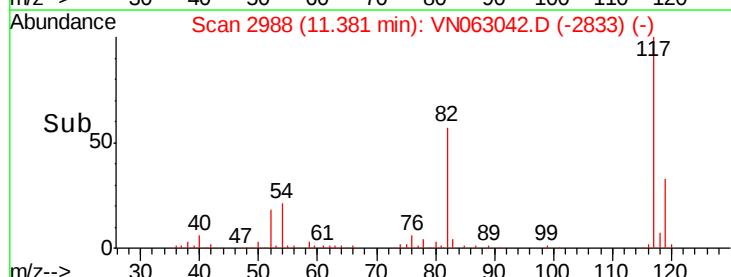
119 31.5 26.0 39.0

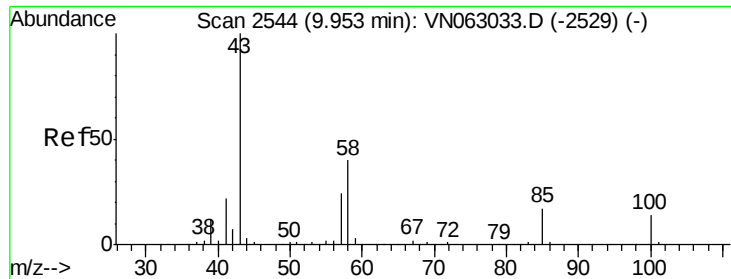


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

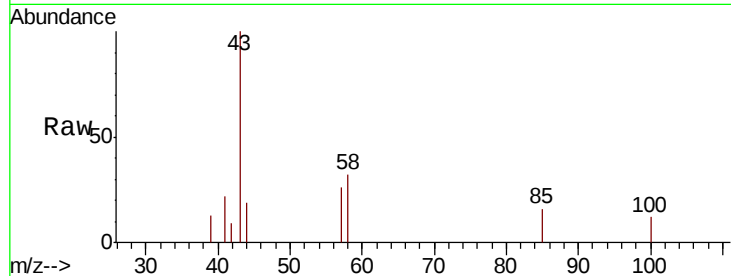




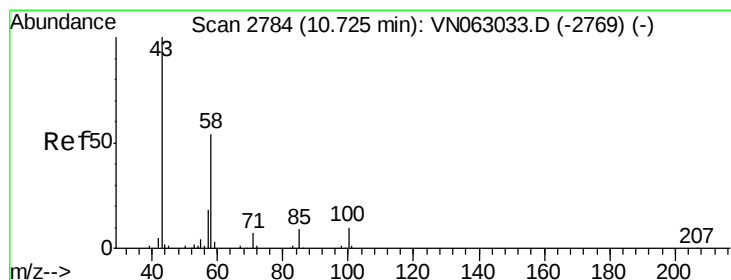
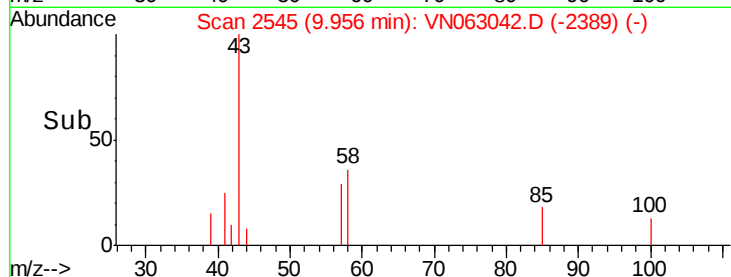
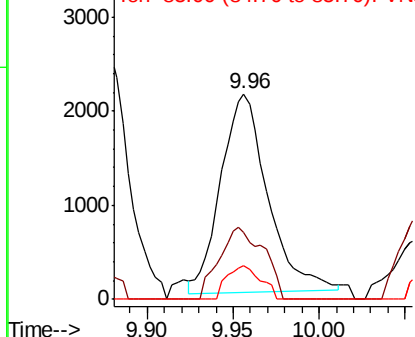
#58
4-Methyl-2-Pentanone
Concen: 1.951 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

Instrument :
MSVOA_N
ClientSampled :
EFF-WW

Tot Ion: 43 Resp: 4037
Ion Ratio Lower Upper
43 100
58 34.0 31.4 47.0
85 12.2 13.4 20.2#

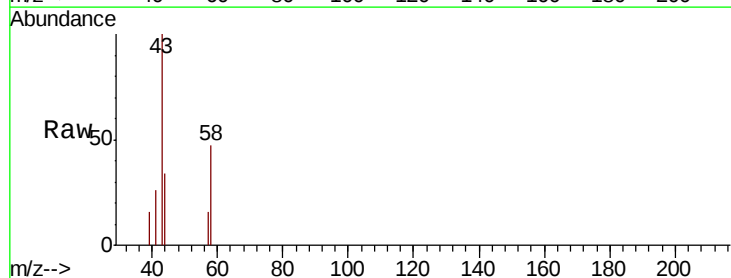


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

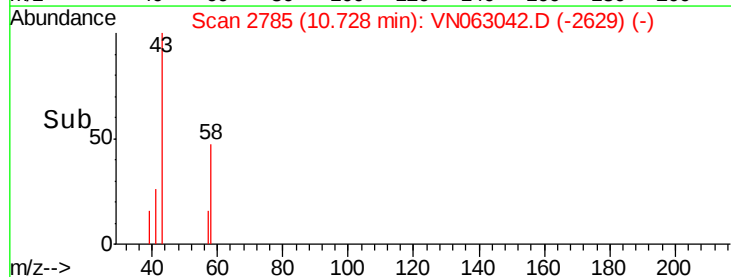
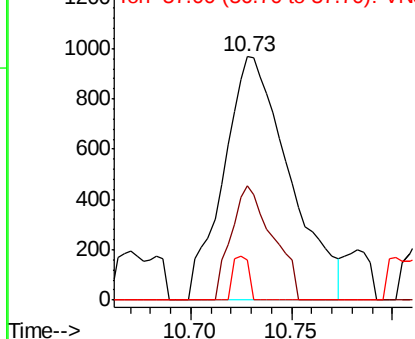


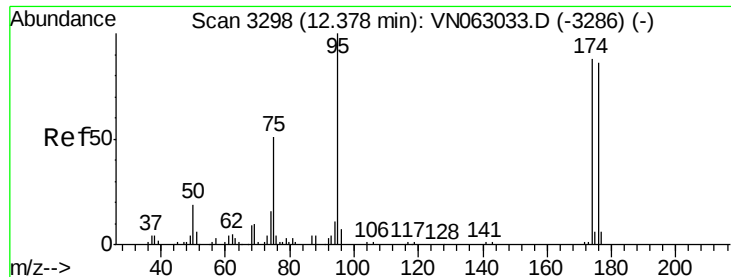
#59
2-Hexanone
Concen: 1.491 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.00 min
Lab File: VN063042.D
Acq: 20 Aug 2020 17:36

Tgt Ion: 43 Resp: 2200
Ion Ratio Lower Upper
43 100
58 29.9 42.6 64.0#
57 4.4 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0





#60

4-Bromofluorobenzene

Concen: 25.048 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampled :

EFF-WW

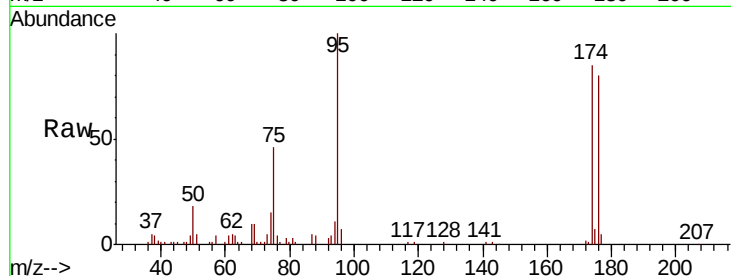
Tot Ion: 95 Resp: 56922

Ion Ratio Lower Upper

95 100

174 87.4 70.1 105.1

176 81.5 66.8 100.2

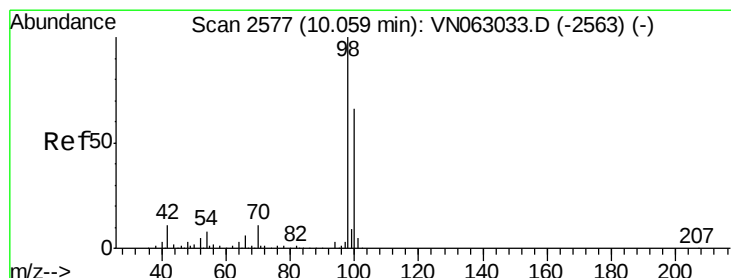
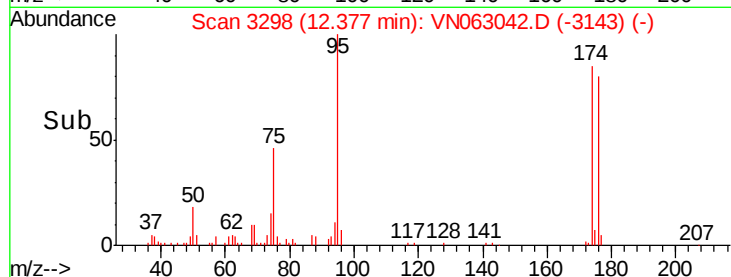


Abundance Ion 95.00 (94.70 to 95.70): VN063033.D (-3286) (-)

Ion 174.00 (173.70 to 174.70): VN063033.D (-3286) (-)

Ion 176.00 (175.70 to 176.70): VN063033.D (-3286) (-)

Time-->



#63

Toluene-d8

Concen: 29.541 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063042.D

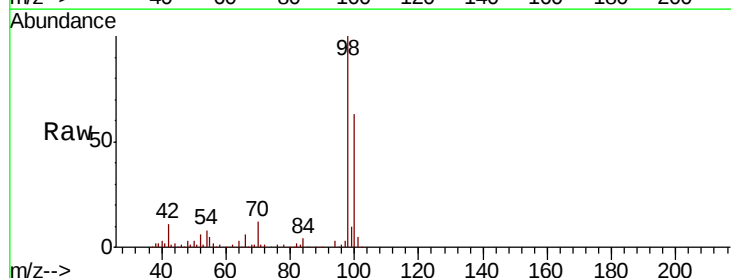
Acq: 20 Aug 2020 17:36

Tgt Ion: 98 Resp: 194975

Ion Ratio Lower Upper

98 100

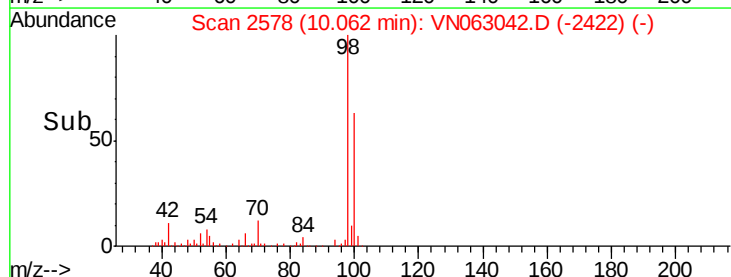
100 63.4 51.4 77.2

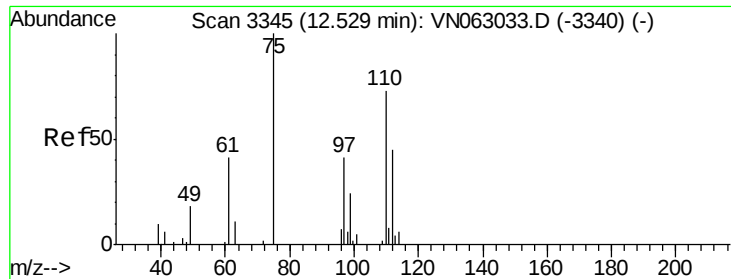


Abundance Ion 98.00 (97.70 to 98.70): VN063033.D (-2563) (-)

Ion 100.00 (99.70 to 100.70): VN063033.D (-2563) (-)

Time-->





#72

1,2,3-Trichloropropane

Concen: 11.809 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

Instrument :

MSVOA_N

ClientSampled :

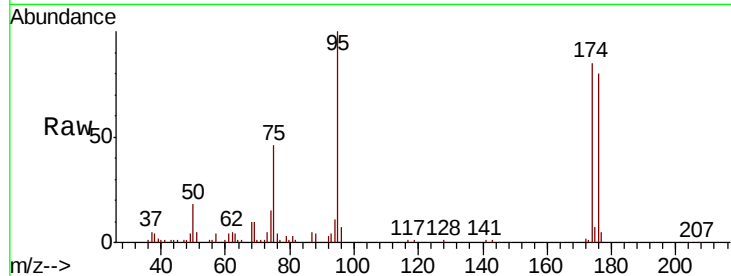
EFF-WW

Tot Ion: 75 Resp: 27330

Ion Ratio Lower Upper

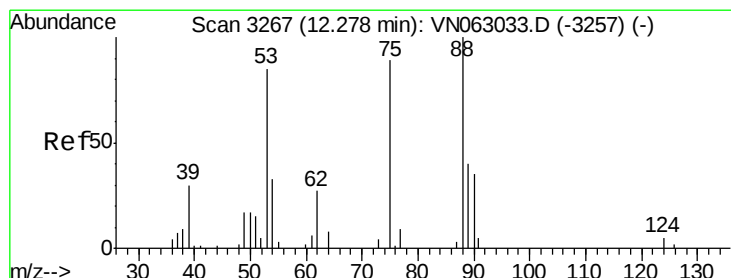
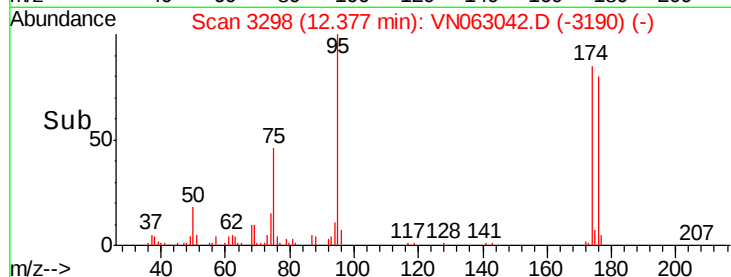
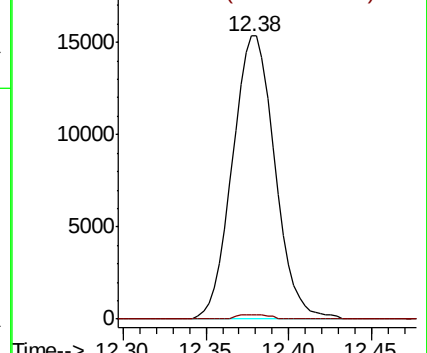
75 100

77 1.2 0.0 387.8



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: 0.513 ug/l

RT: 12.21 min Scan# 3246

Delta R.T. -0.07 min

Lab File: VN063042.D

Acq: 20 Aug 2020 17:36

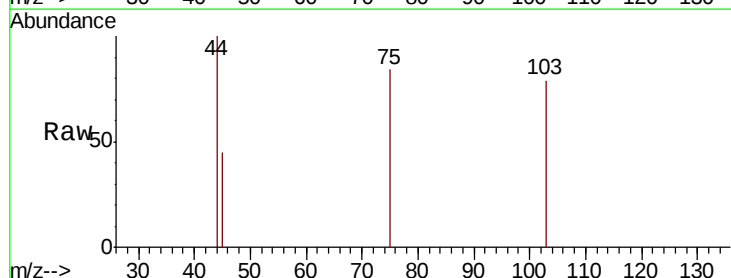
Tgt Ion: 75 Resp: 420

Ion Ratio Lower Upper

75 100

53 0.0 47.0 141.0#

89 0.0 22.9 68.7#



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

