

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081219\
 Data File : VN057205.D
 Acq On : 12 Aug 2019 10:34
 Operator : JC/SP
 Sample : K4271-01 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Aug 13 01:39:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:53:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.58	128	159486	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	865091	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.91	117	714832	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	316079	30.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.33%
60) 4-Bromofluorobenzene	11.92	95	253837	23.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	79.50%
63) Toluene-d8	9.56	98	1027337	31.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.77%

Target Compounds

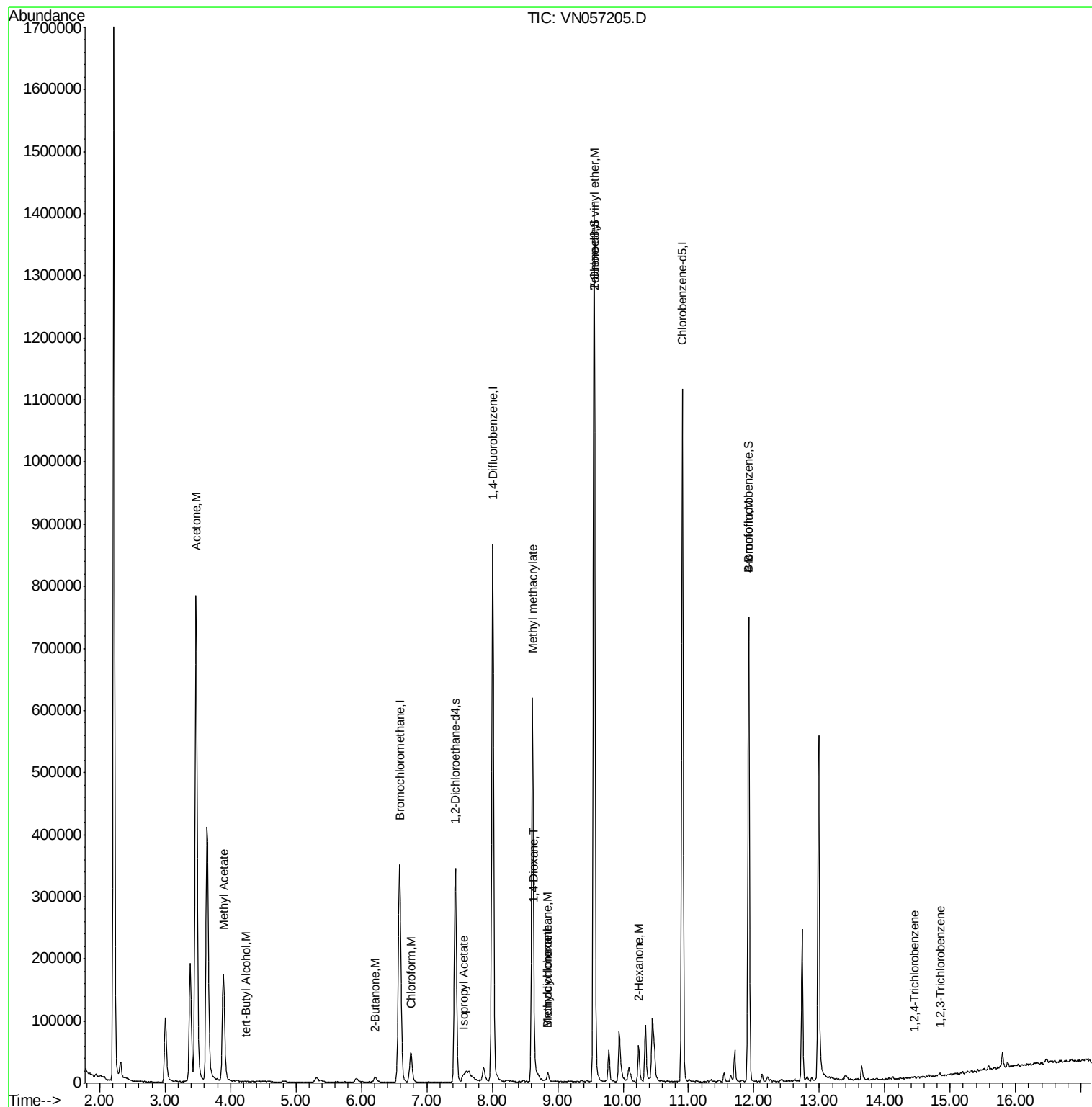
					Qvalue
12) Methyl Acetate	3.89	43	296010	31.083 ug/l	97
15) Acetone	3.47	58	404916	307.072 ug/l	98
23) tert-Butyl Alcohol	4.23	59	591	0.451 ug/l #	100
25) Chloroform	6.75	83	52873	3.004 ug/l	98
30) 2-Butanone	6.21	43	14634	2.857 ug/l #	66
38) Methylcyclohexane	8.84	83	7187	0.463 ug/l #	22
41) Bromodichloromethane	8.84	83	7187	0.548 ug/l	98
44) Isopropyl Acetate	7.55	43	4993	0.291 ug/l #	56
45) 1,4-Dioxane	8.64	88	2306	14.408 ug/l #	1
46) Methyl methacrylate	8.61	41	12754	1.631 ug/l #	30
55) 2-Chloroethyl vinyl ether	9.56	63	971	0.259 ug/l #	1
56) Bromoform	11.92	173	2301	0.293 ug/l #	1
59) 2-Hexanone	10.24	43	40456	6.128 ug/l	97
89) 1,2,4-Trichlorobenzene	14.45	180	1031	9.157 ug/l #	81
92) 1,2,3-Trichlorobenzene	14.84	180	1203	8.496 ug/l	77

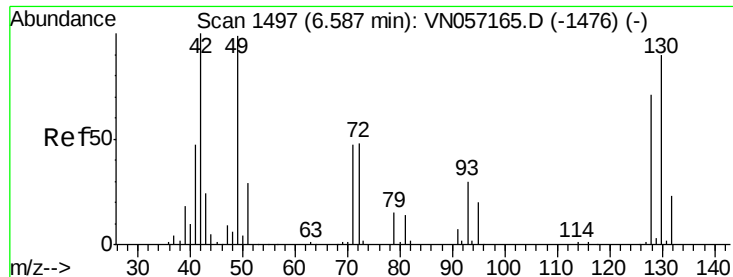
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN081219\
Data File : VN057205.D
Acq On : 12 Aug 2019 10:34
Operator : JC/SP
Sample : K4271-01 5X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Quant Time: Aug 13 01:39:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\624N081019W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sun Aug 11 03:53:25 2019
Response via : Initial Calibration

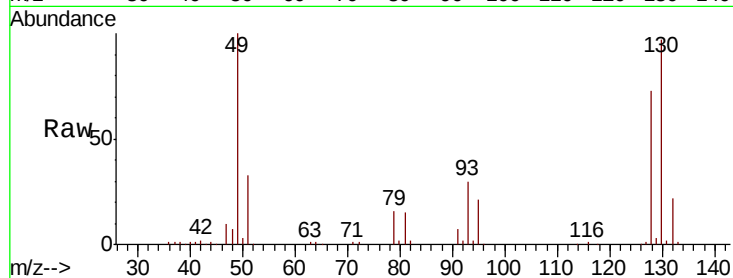




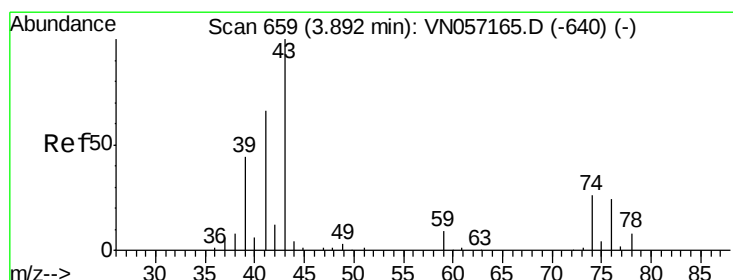
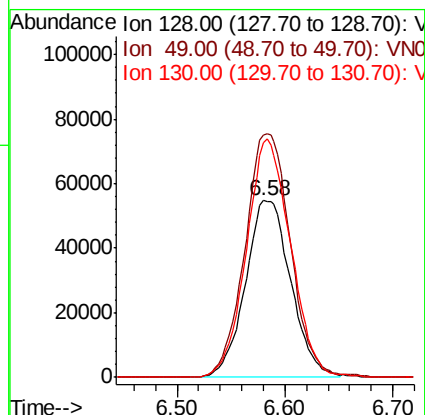
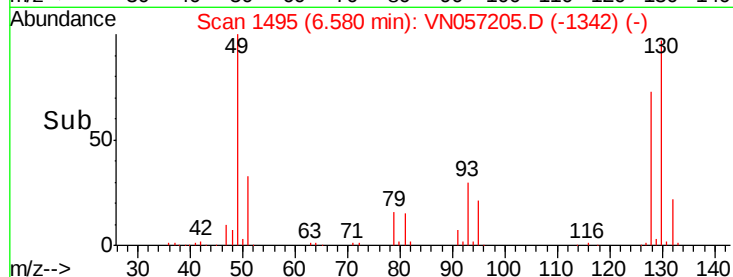
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 6.58 min Scan# 1495
 Delta R.T. -0.01 min
 Lab File: VN057205.D
 Acq: 12 Aug 2019 10:34

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Tgt Ion:128 Resp: 159486
 Ion Ratio Lower Upper
 128 100
 49 138.3 0.0 361.0
 130 131.8 0.0 329.5

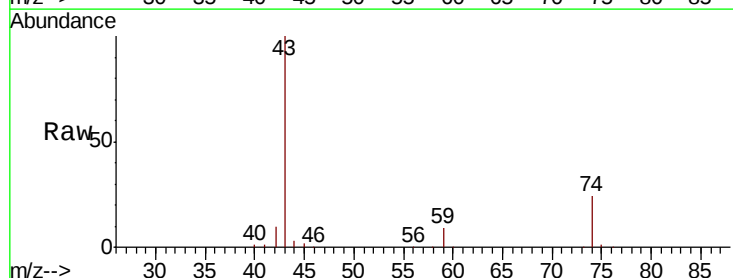


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

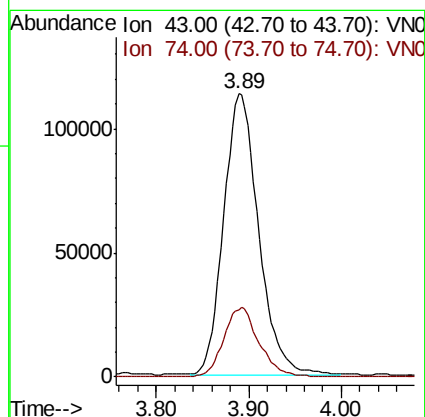
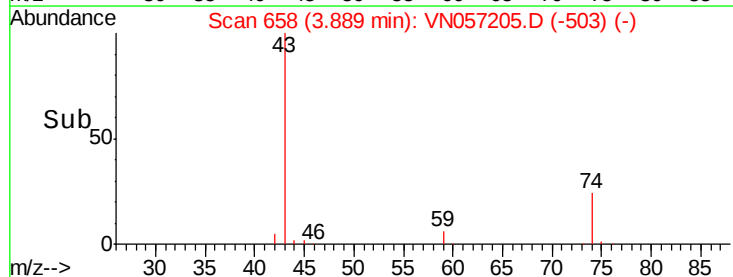


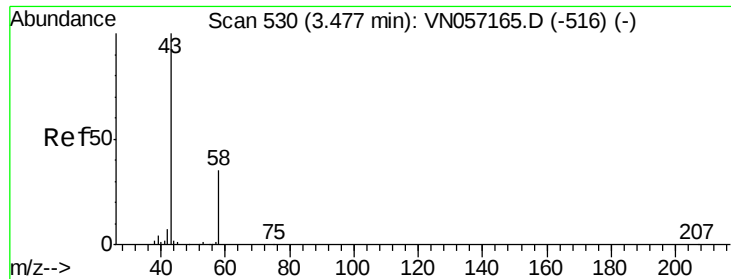
#12
 Methyl Acetate
 Concen: 31.083 ug/l
 RT: 3.89 min Scan# 658
 Delta R.T. -0.00 min
 Lab File: VN057205.D
 Acq: 12 Aug 2019 10:34

Tgt Ion: 43 Resp: 296010
 Ion Ratio Lower Upper
 43 100
 74 24.1 20.5 30.7



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





#15

Acetone

Concen: 307.072 ug/l

RT: 3.47 min Scan# 529

Delta R.T. -0.00 min

Lab File: VN057205.D

Acq: 12 Aug 2019 10:34

Instrument :

MSVOA_N

ClientSampled :

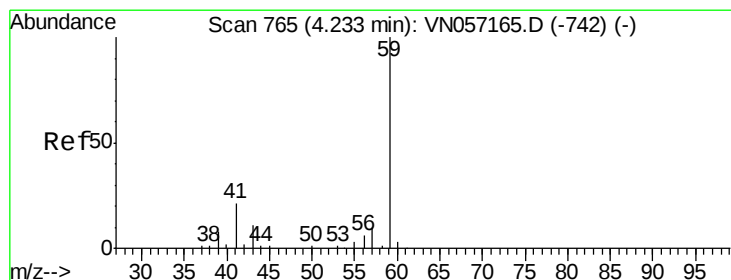
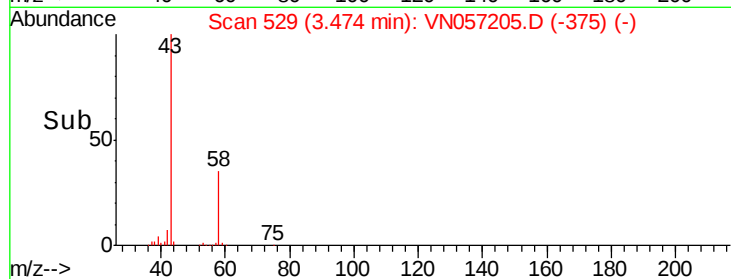
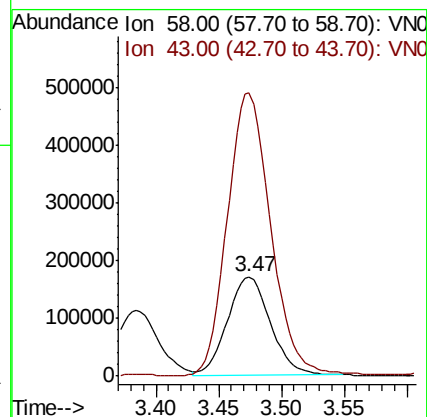
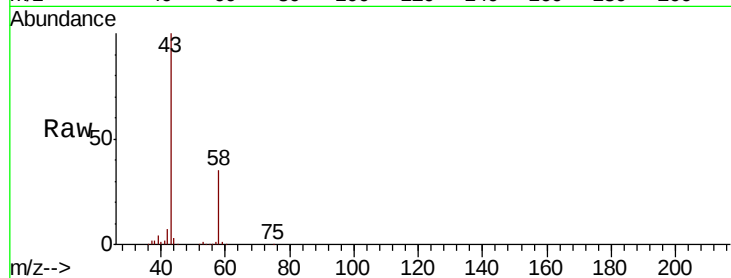
EFF-WW

Tgt Ion: 58 Resp: 404916

Ion Ratio Lower Upper

58 100

43 286.7 226.2 339.2



#23

tert-Butyl Alcohol

Concen: 0.451 ug/l

RT: 4.23 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN057205.D

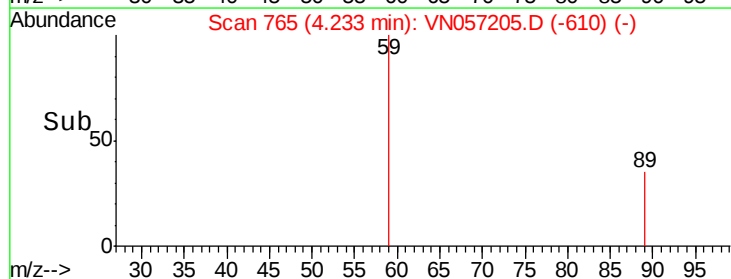
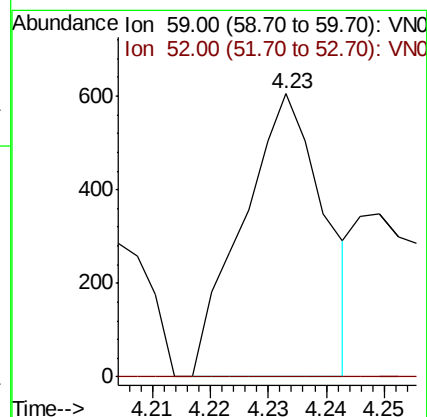
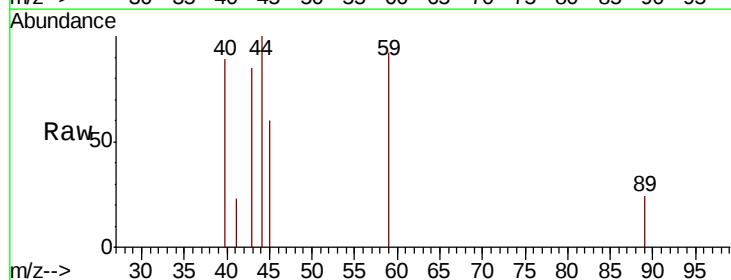
Acq: 12 Aug 2019 10:34

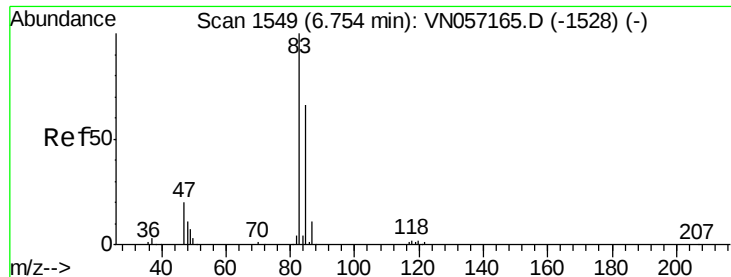
Tgt Ion: 59 Resp: 591

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.2#

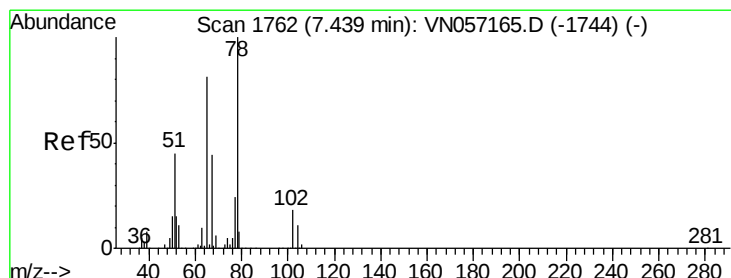
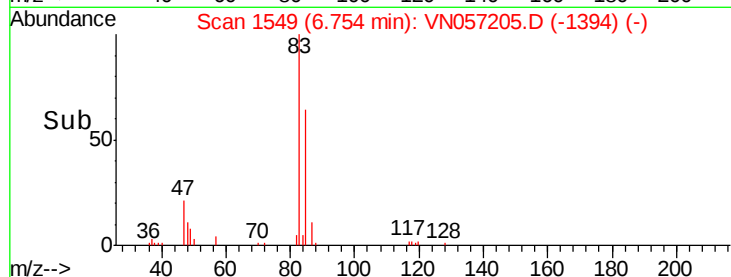
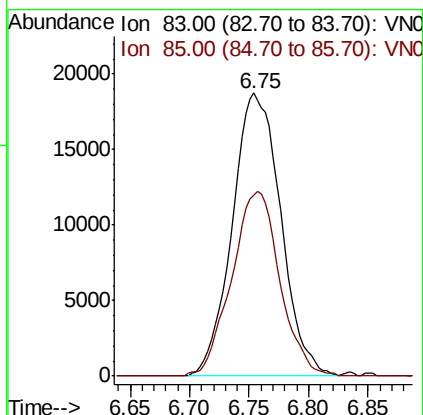
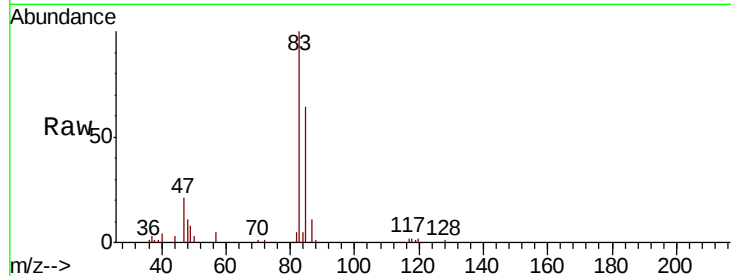




#25
Chloroform
Concen: 3.004 ug/l
RT: 6.75 min Scan# 1549
Delta R.T. -0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

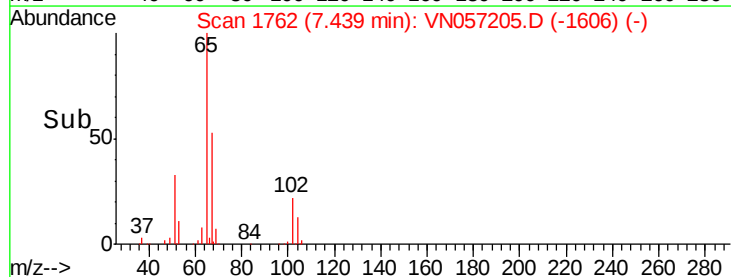
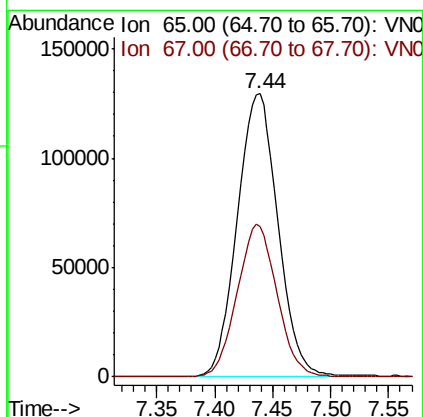
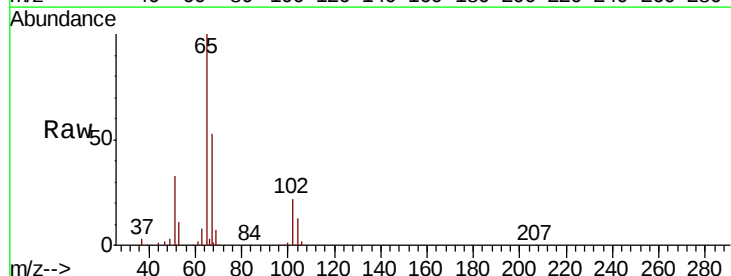
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

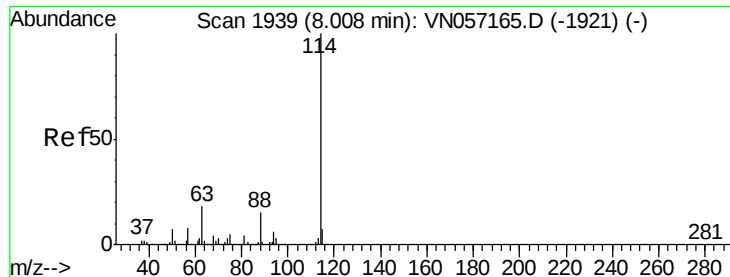
Tgt Ion: 83 Resp: 52873
Ion Ratio Lower Upper
83 100
85 64.1 52.5 78.7



#27
1,2-Dichloroethane-d4
Concen: 30.404 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Tgt Ion: 65 Resp: 316079
Ion Ratio Lower Upper
65 100
67 52.8 42.4 63.6

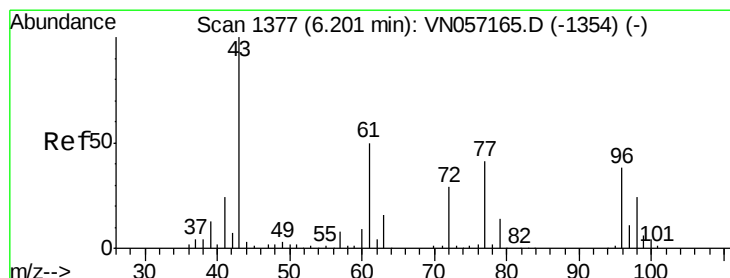
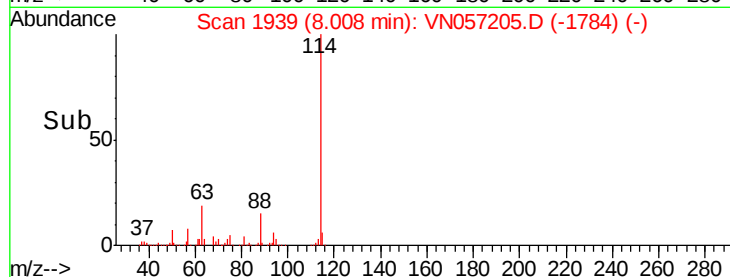
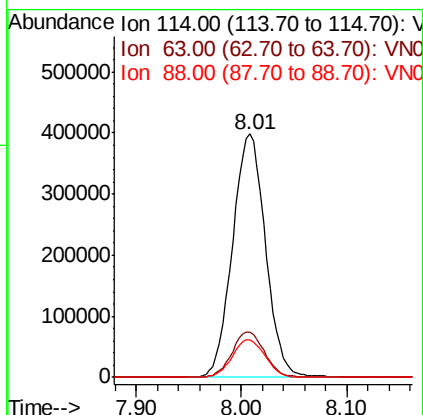
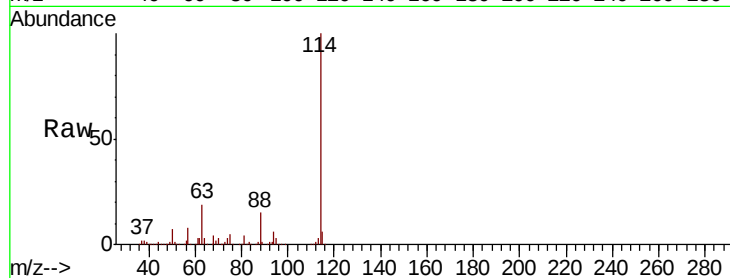




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057205.D
 Acq: 12 Aug 2019 10:34

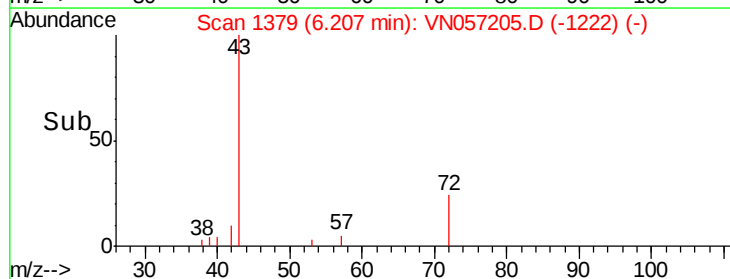
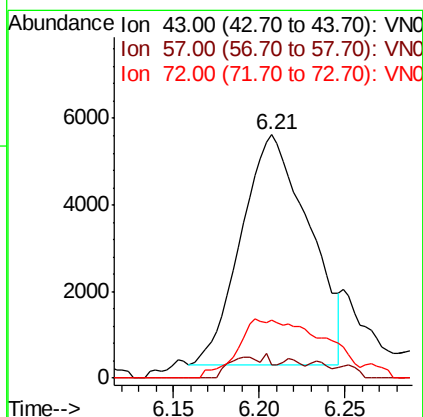
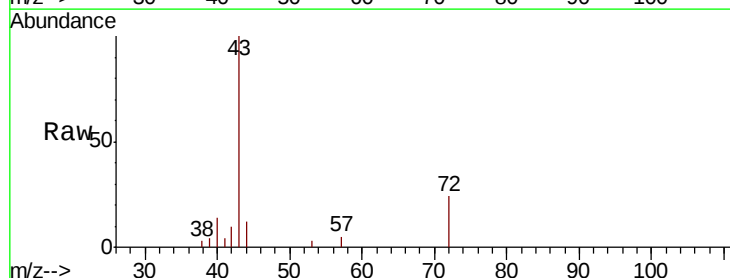
Instrument :
 MSVOA_N
 ClientSampled :
 EFF-WW

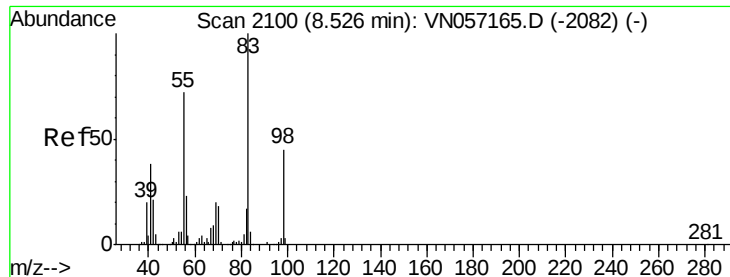
Tgt Ion: 114 Resp: 865091
 Ion Ratio Lower Upper
 114 100
 63 18.5 14.6 21.8
 88 15.6 12.2 18.2



#30
 2-Butanone
 Concen: 2.857 ug/l
 RT: 6.21 min Scan# 1379
 Delta R.T. 0.01 min
 Lab File: VN057205.D
 Acq: 12 Aug 2019 10:34

Tgt Ion: 43 Resp: 14634
 Ion Ratio Lower Upper
 43 100
 57 1.6 6.8 10.2#
 72 8.2 23.0 34.6#

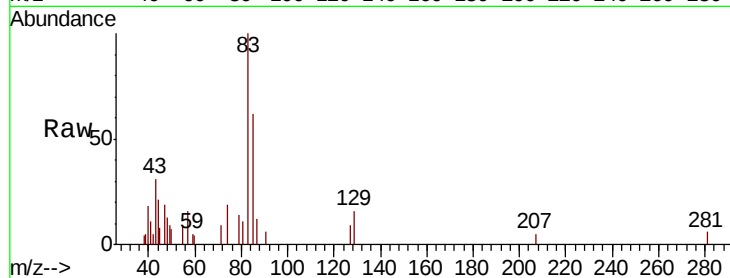




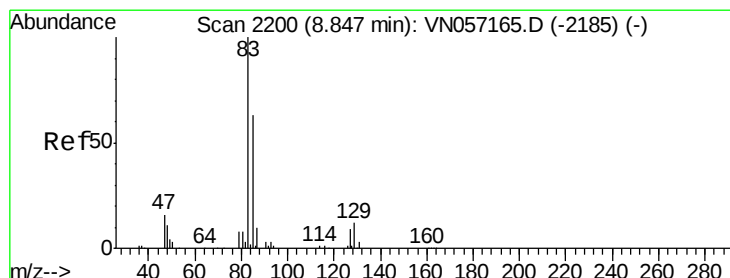
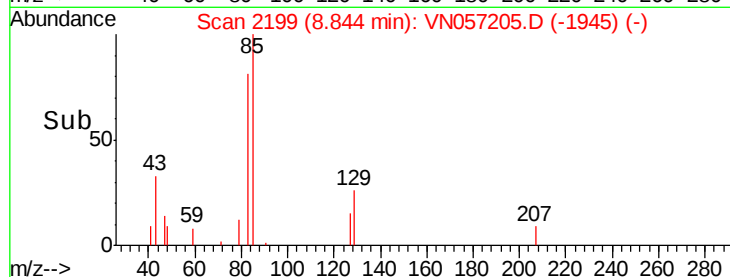
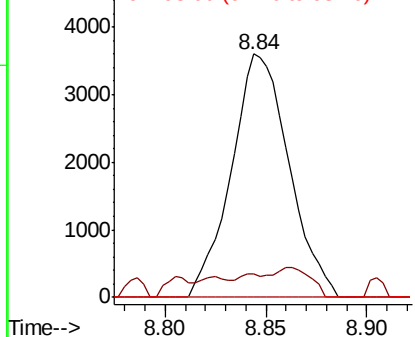
#38
Methylcyclohexane
Concen: 0.463 ug/l
RT: 8.84 min Scan# 2199
Delta R.T. 0.32 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 83 Resp: 7187
Ion Ratio Lower Upper
83 100
55 3.6 36.5 109.7#
98 0.0 23.4 70.0#

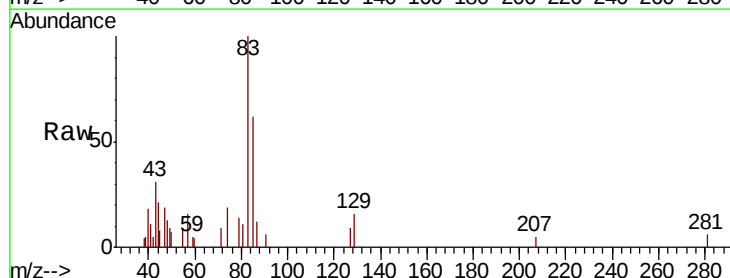


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

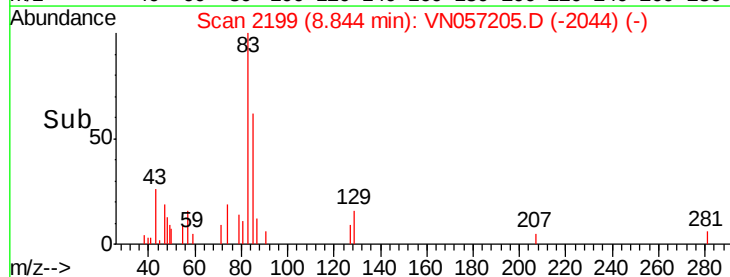
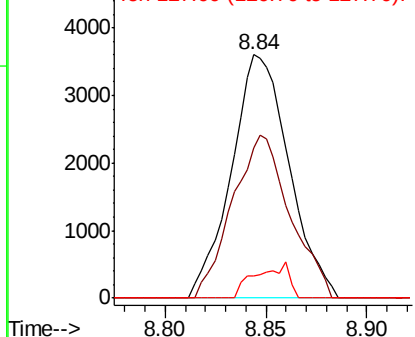


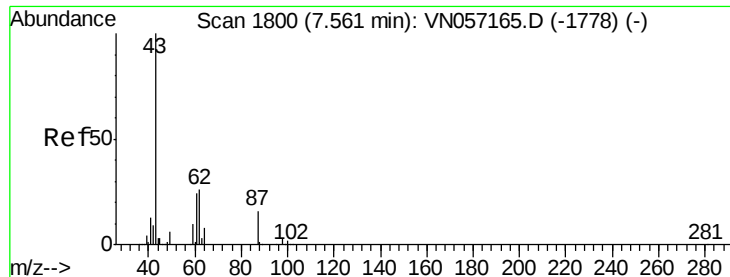
#41
Bromodichloromethane
Concen: 0.548 ug/l
RT: 8.84 min Scan# 2199
Delta R.T. -0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Tgt Ion: 83 Resp: 7187
Ion Ratio Lower Upper
83 100
85 61.8 50.6 76.0
127 9.3 7.0 10.6



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





#44

Isopropyl Acetate

Concen: 0.291 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. -0.01 min

Lab File: VN057205.D

Acq: 12 Aug 2019 10:34

Instrument :

MSVOA_N

ClientSampleId :

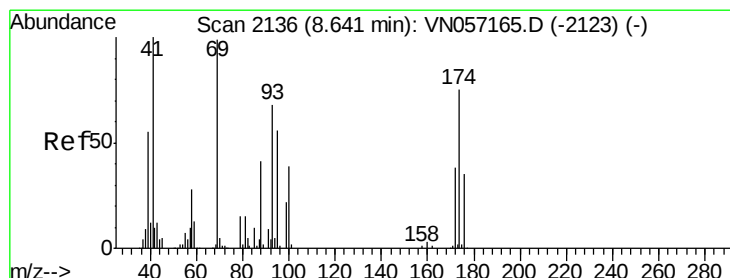
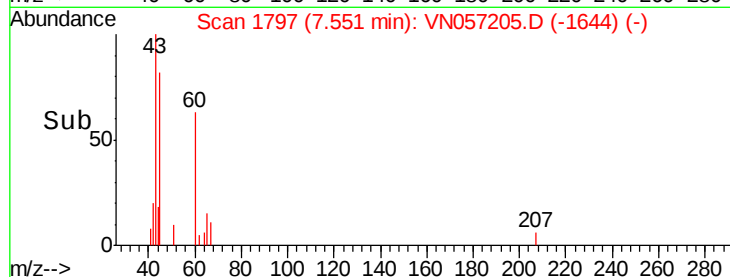
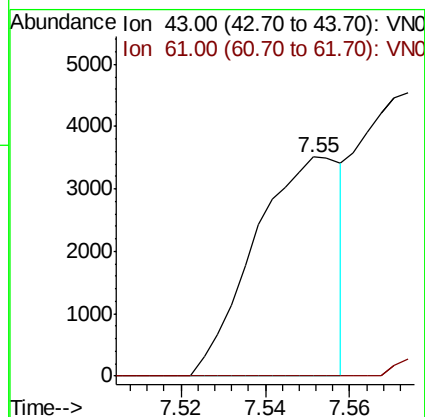
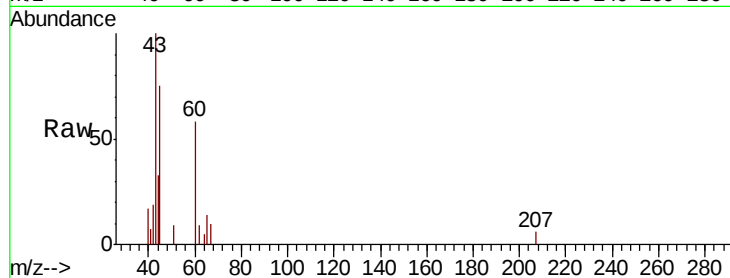
EFF-WW

Tgt Ion: 43 Resp: 4993

Ion Ratio Lower Upper

43 100

61 4.9 22.2 33.4#



#45

1,4-Dioxane

Concen: 14.408 ug/l

RT: 8.64 min Scan# 2137

Delta R.T. 0.00 min

Lab File: VN057205.D

Acq: 12 Aug 2019 10:34

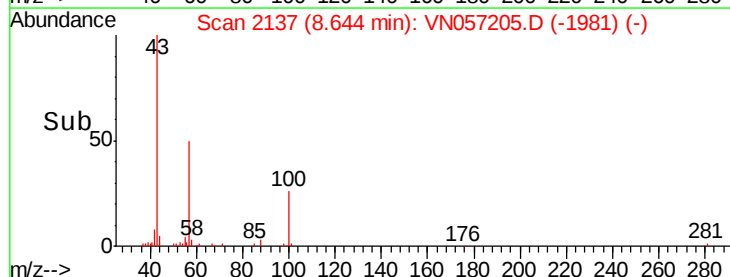
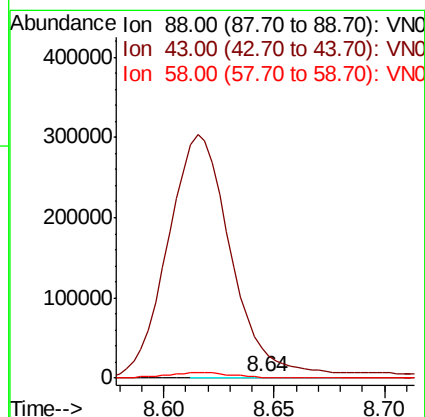
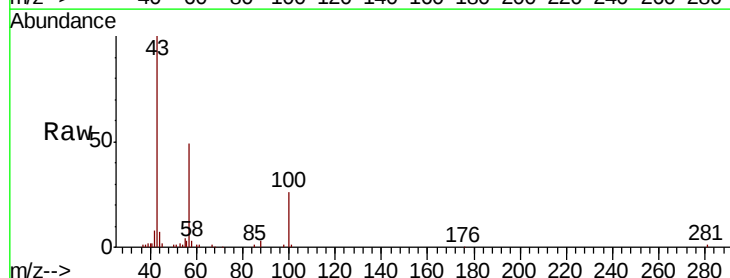
Tgt Ion: 88 Resp: 2306

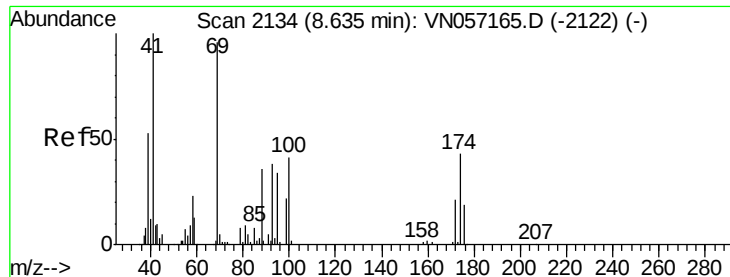
Ion Ratio Lower Upper

88 100

43 26613.4 20.5 30.7#

58 645.4 53.8 80.8#

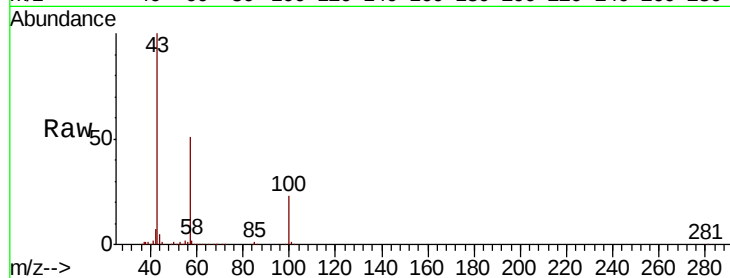




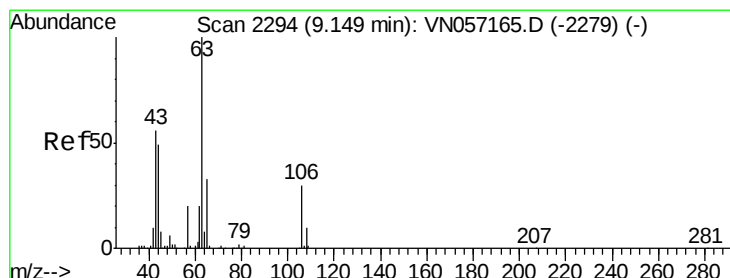
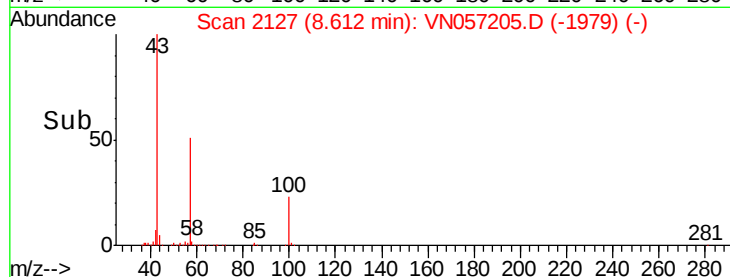
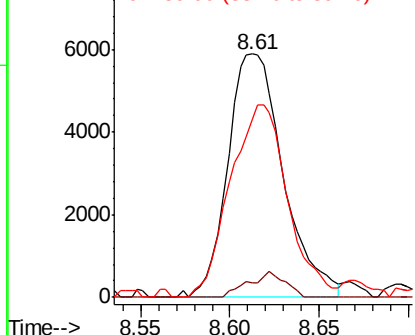
#46
Methyl methacrylate
Concen: 1.631 ug/l
RT: 8.61 min Scan# 2127
Delta R.T. -0.02 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 41 Resp: 12754
Ion Ratio Lower Upper
41 100
69 5.9 48.1 144.4#
39 73.2 26.5 79.5

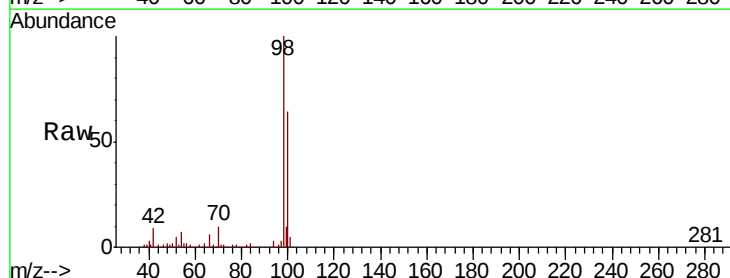


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

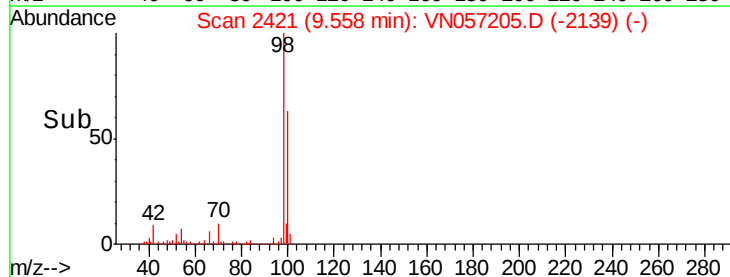
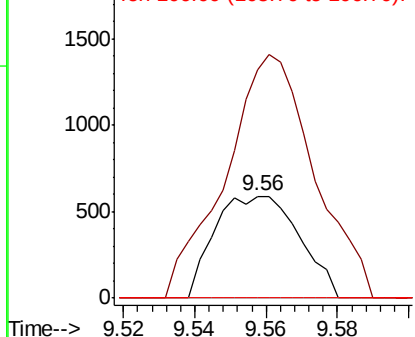


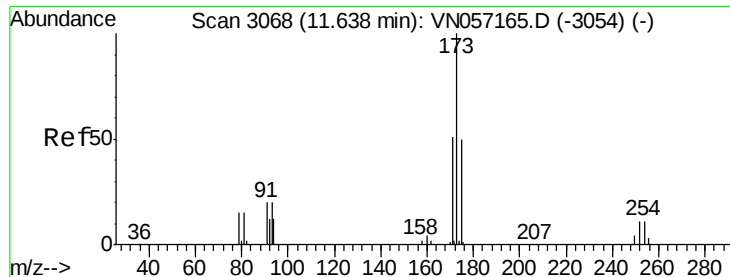
#55
2-Chloroethyl vinyl ether
Concen: 0.259 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. 0.41 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Tgt Ion: 63 Resp: 971
Ion Ratio Lower Upper
63 100
65 248.9 26.0 39.0#
106 0.0 23.3 34.9#



Abundance Ion 63.00 (62.70 to 63.70): VN0
Ion 65.00 (64.70 to 65.70): VN0
Ion 106.00 (105.70 to 106.70): V





#56

Bromoform

Concen: 0.293 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.28 min

Lab File: VN057205.D

Acq: 12 Aug 2019 10:34

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

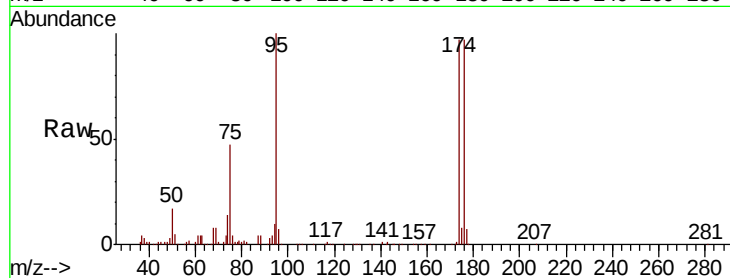
Tgt Ion:173 Resp: 2301

Ion Ratio Lower Upper

173 100

175 780.7 39.0 58.4#

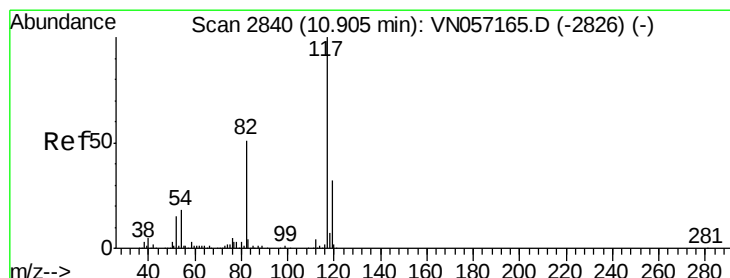
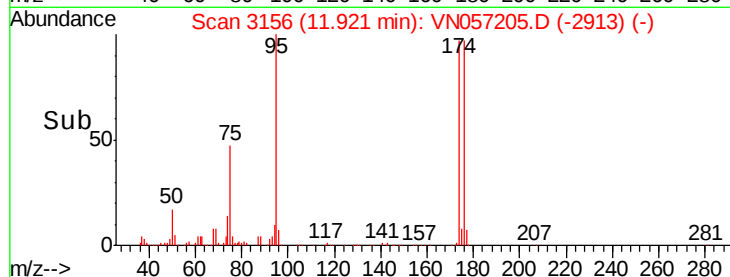
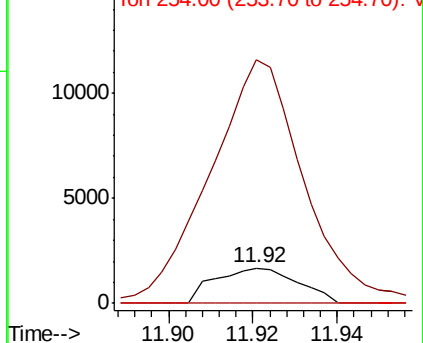
254 0.0 8.6 13.0#



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: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057205.D

Acq: 12 Aug 2019 10:34

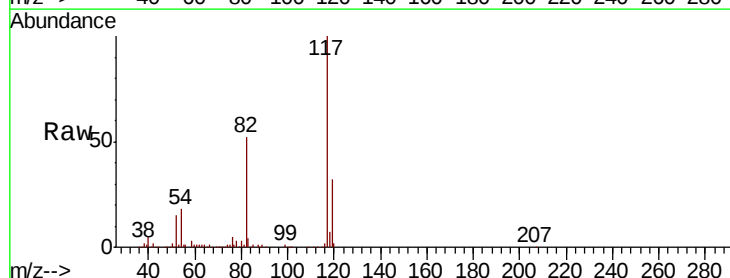
Tgt Ion:117 Resp: 714832

Ion Ratio Lower Upper

117 100

82 51.8 41.5 62.3

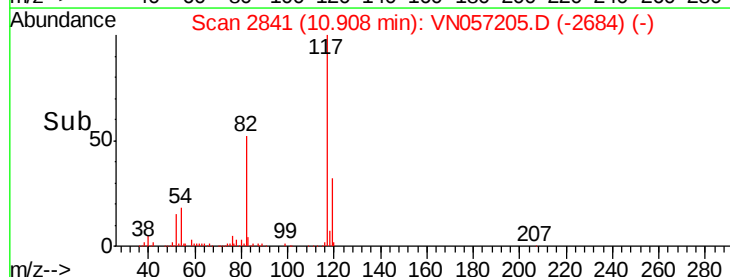
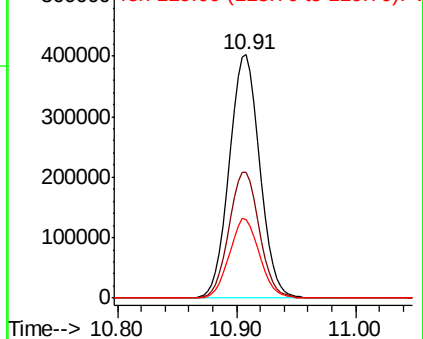
119 32.3 26.1 39.1

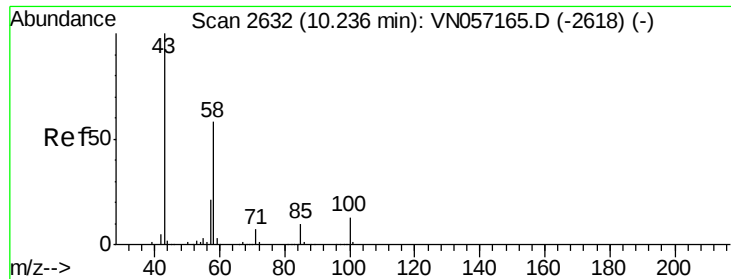


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

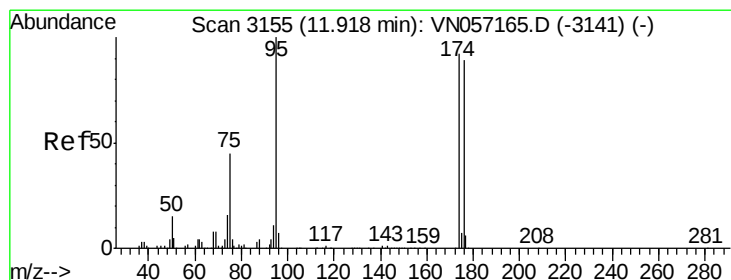
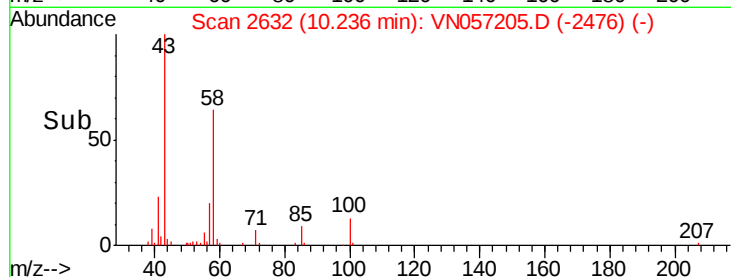
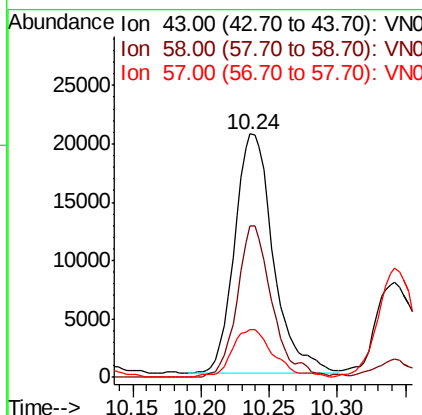
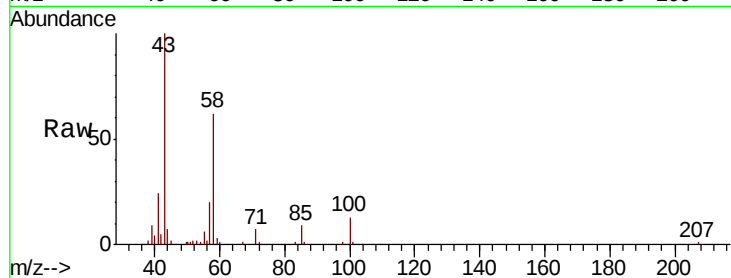




#59
2-Hexanone
Concen: 6.128 ug/l
RT: 10.24 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

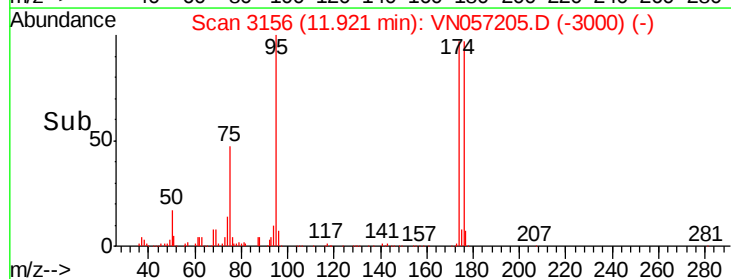
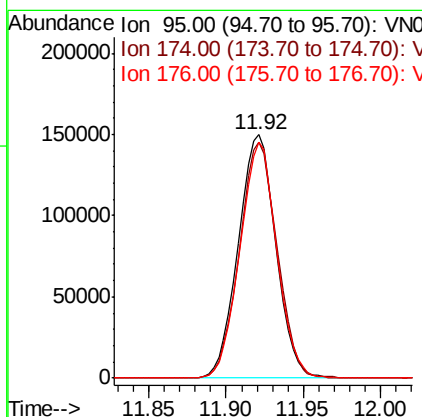
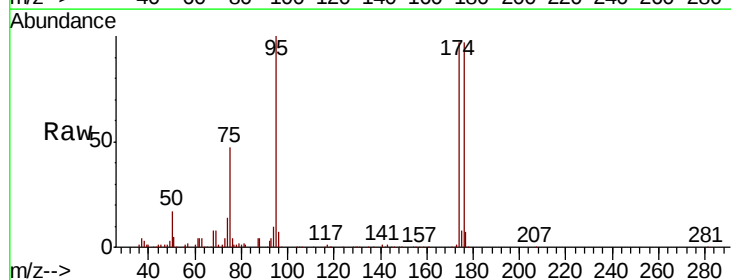
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

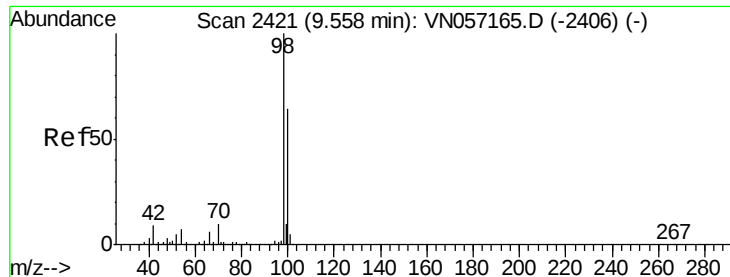
Tgt Ion: 43 Resp: 40456
Ion Ratio Lower Upper
43 100
58 54.5 45.4 68.2
57 19.0 16.1 24.1



#60
4-Bromofluorobenzene
Concen: 23.848 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Tgt Ion: 95 Resp: 253837
Ion Ratio Lower Upper
95 100
174 96.9 74.9 112.3
176 94.9 72.1 108.1

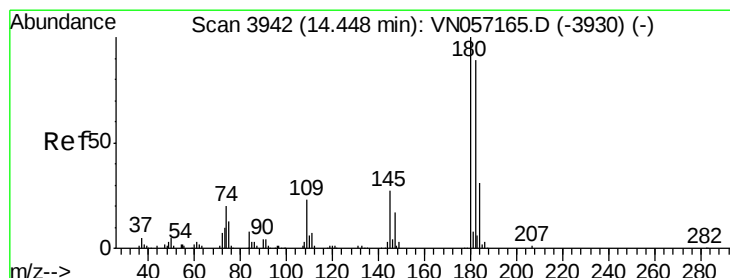
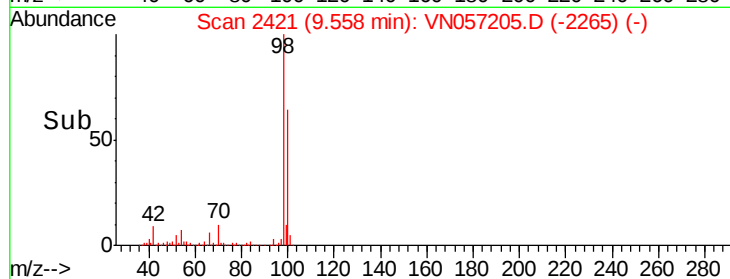
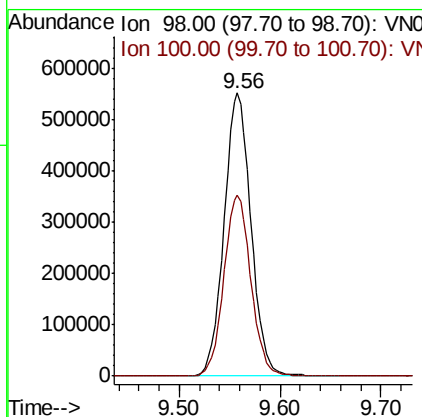
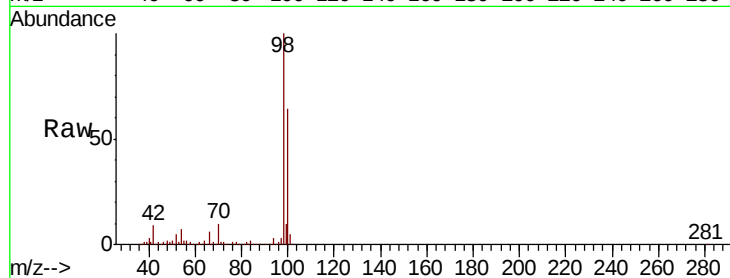




#63
Toluene-d8
Concen: 31.133 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

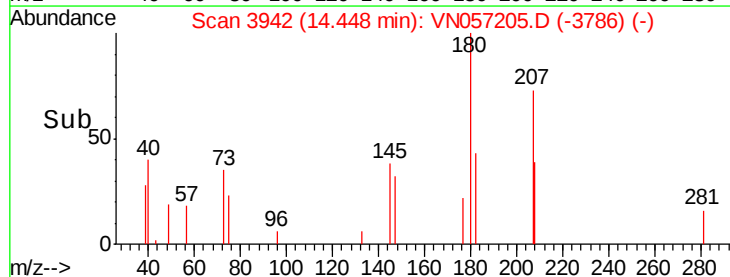
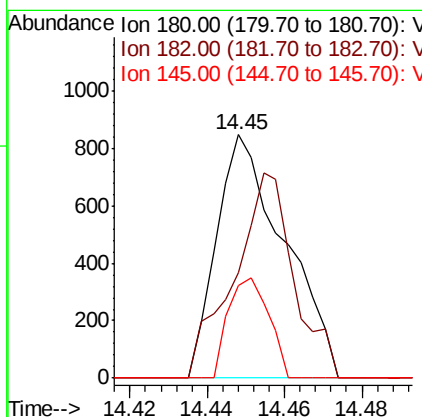
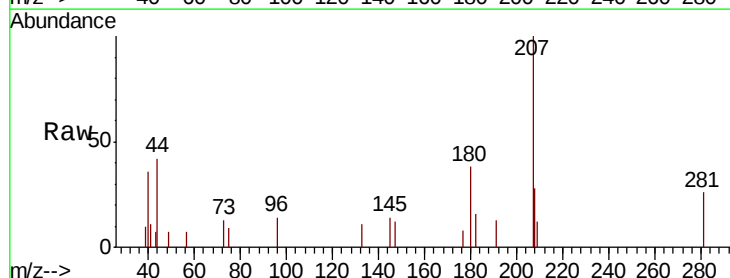
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

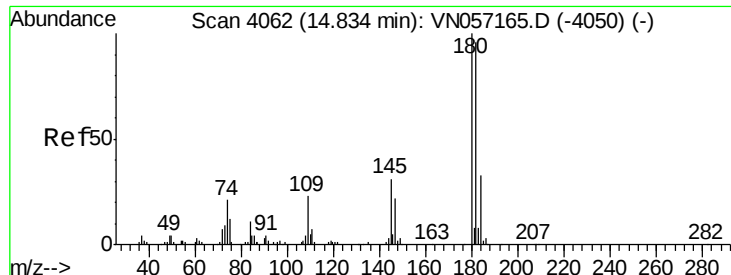
Tgt Ion: 98 Resp: 1027337
Ion Ratio Lower Upper
98 100
100 64.0 52.4 78.6



#89
1,2,4-Trichlorobenzene
Concen: 9.157 ug/l
RT: 14.45 min Scan# 3942
Delta R.T. 0.00 min
Lab File: VN057205.D
Acq: 12 Aug 2019 10:34

Tgt Ion: 180 Resp: 1031
Ion Ratio Lower Upper
180 100
182 71.2 75.0 112.6#
145 24.5 21.7 32.5





#92
 1,2,3-Trichlorobenzene
 Concen: 8.496 ug/l
 RT: 14.84 min Scan# 4063
 Delta R.T. 0.00 min
 Lab File: VN057205.D
 Acq: 12 Aug 2019 10:34

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Tgt Ion	Ratio	Lower	Upper
180	100		
182	70.8	0.0	195.8
145	25.8	0.0	61.2

