

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060830.D
 Acq On : 2 Apr 2020 18:35
 Operator : JC/MD
 Sample : L2101-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:44:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	199529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	336676	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	318437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146076	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	131807	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
35) Dibromofluoromethane	7.56	113	100757	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
50) Toluene-d8	10.08	98	413743	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	157469	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	

Target Compounds

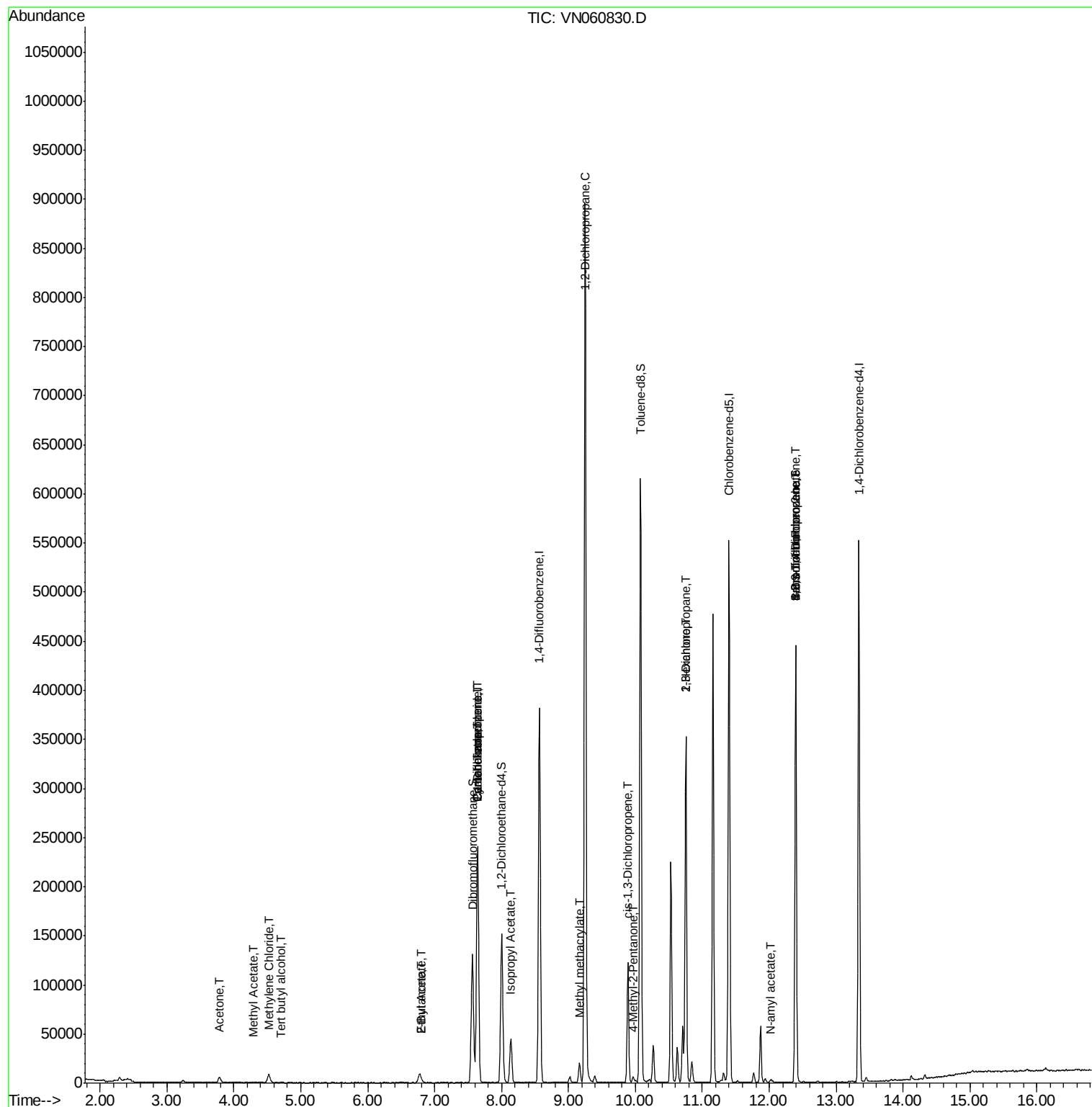
					Qvalue
11) Tert butyl alcohol	4.70	59	124	0.308	ug/l # 72
16) Acetone	3.79	43	10411	10.730	ug/l 100
18) Methyl Acetate	4.28	43	776	0.284	ug/l # 62
20) Methylene Chloride	4.52	84	6241	2.615	ug/l 97
25) 2-Butanone	6.81	43	3805	2.424	ug/l 98
31) Cyclohexane	7.64	56	4119	0.934	ug/l # 1
36) 1,1-Dichloropropene	7.64	75	15495	4.753	ug/l # 49
37) Ethyl Acetate	6.81	43	3805	1.080	ug/l # 70
38) Carbon Tetrachloride	7.64	117	19039	6.516	ug/l # 16
43) Isopropyl Acetate	8.14	43	53624	9.231	ug/l # 91
45) 1,2-Dichloropropane	9.25	63	952	0.367	ug/l # 43
48) Methyl methacrylate	9.16	41	2973	1.149	ug/l # 15
51) 4-Methyl-2-Pentanone	9.97	43	3963	1.199	ug/l 100
54) cis-1,3-Dichloropropene	9.89	75	21241	5.167	ug/l # 61
57) 1,3-Dichloropropane	10.75	76	3278	0.826	ug/l # 42
59) 2-Hexanone	10.75	43	51783	21.745	ug/l # 54
71) Bromoform	12.39	173	347	1.857	ug/l # 1
74) N-amyl acetate	12.02	43	3702	0.731	ug/l # 45
76) 1,2,3-Trichloropropane	12.40	75	78424	24.881	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	78424	63.901	ug/l # 13

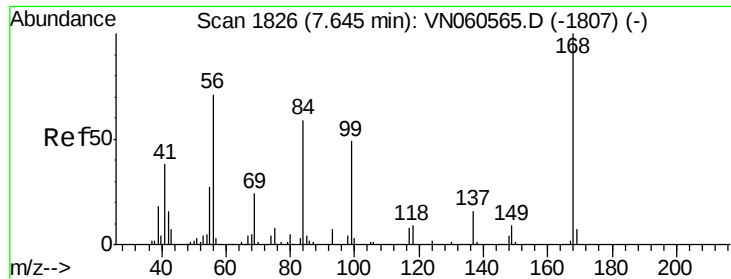
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

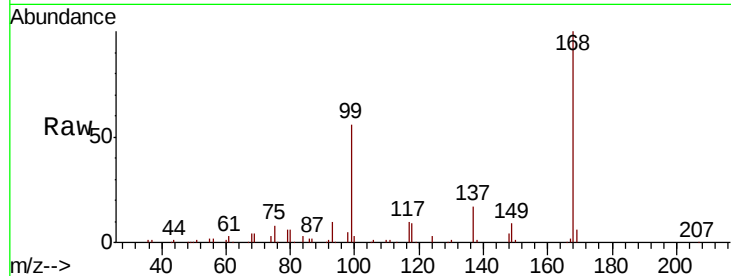
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 199529

Ion Ratio Lower Upper

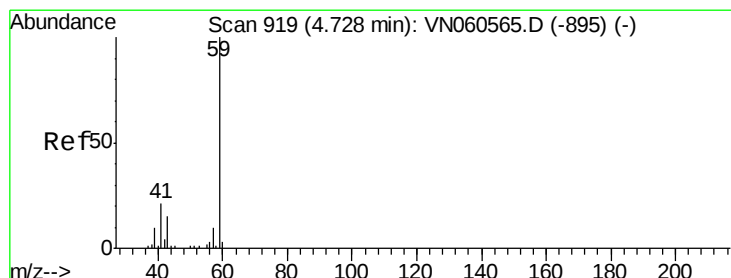
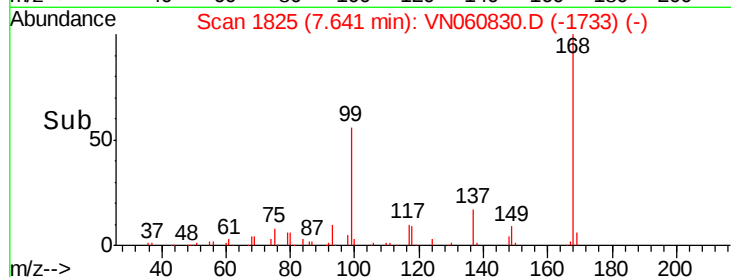
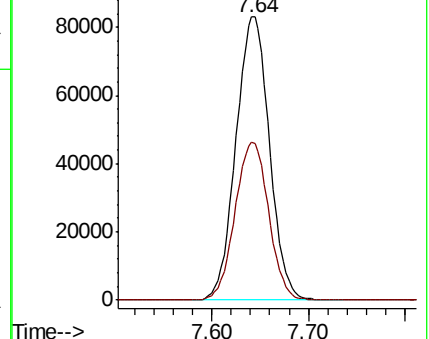
168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.308 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.03 min

Lab File: VN060830.D

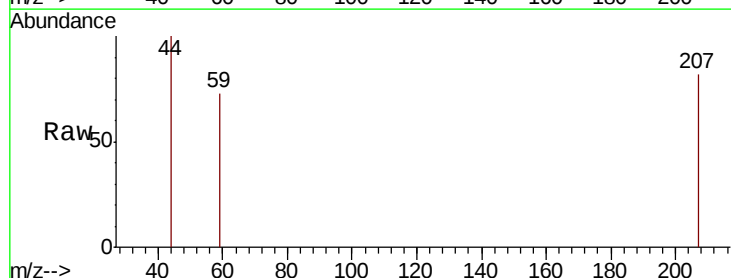
Acq: 2 Apr 2020 18:35

Tgt Ion: 59 Resp: 124

Ion Ratio Lower Upper

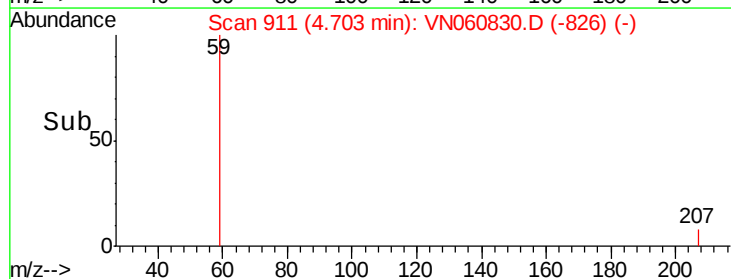
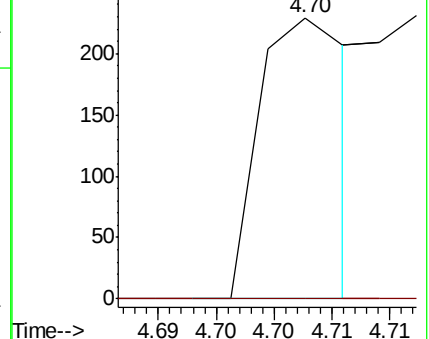
59 100

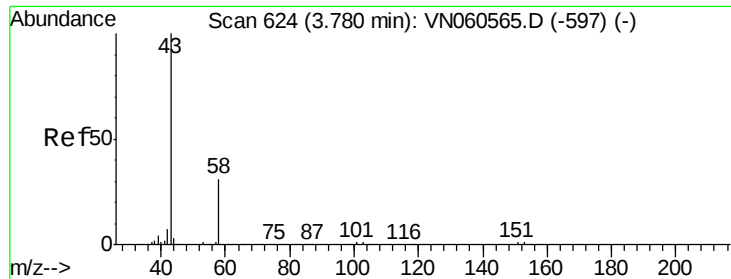
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 10.730 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Instrument :

MSVOA_N

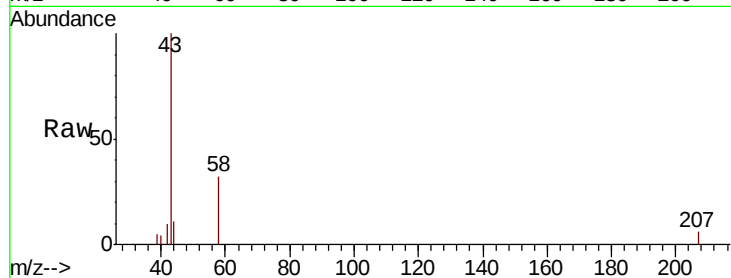
ClientSampleId :

Tot Ion: 43 Resp: 10411

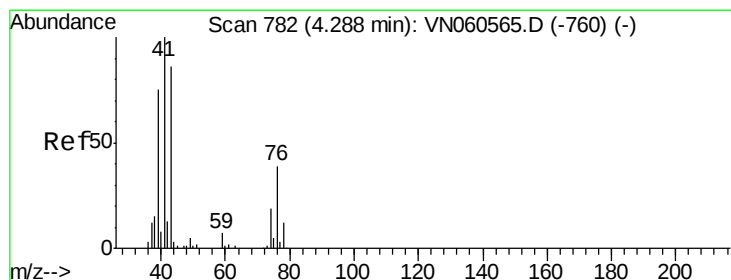
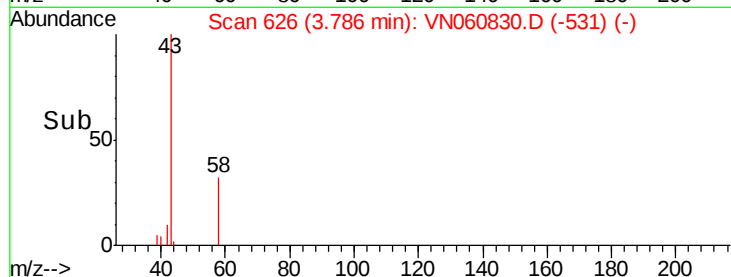
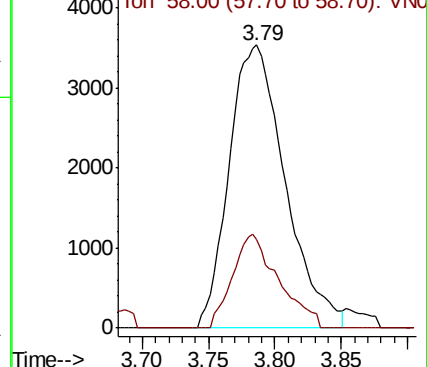
Ion Ratio Lower Upper

43 100

58 31.5 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060830.D (-531) (-)



#18

Methyl Acetate

Concen: 0.284 ug/l

RT: 4.28 min Scan# 780

Delta R.T. -0.01 min

Lab File: VN060830.D

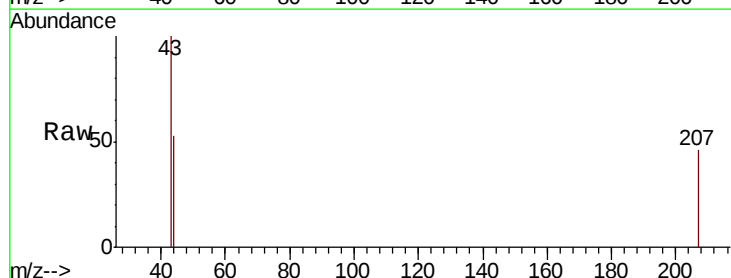
Acq: 2 Apr 2020 18:35

Tgt Ion: 43 Resp: 776

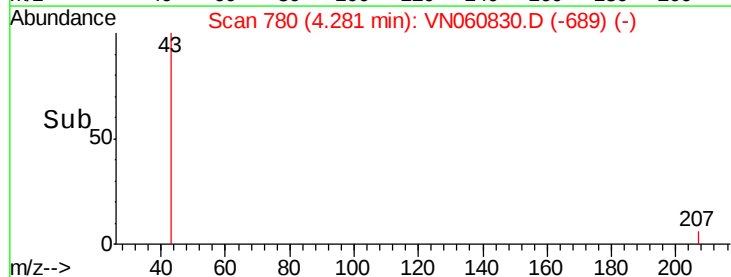
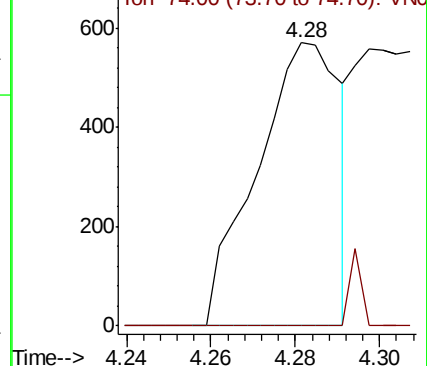
Ion Ratio Lower Upper

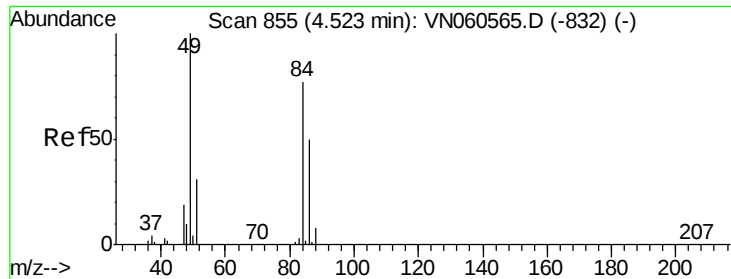
43 100

74 3.9 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060830.D (-689) (-)

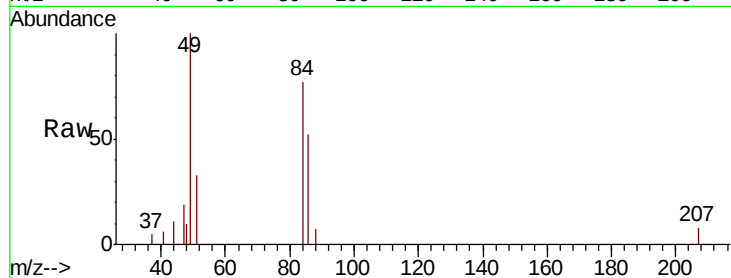




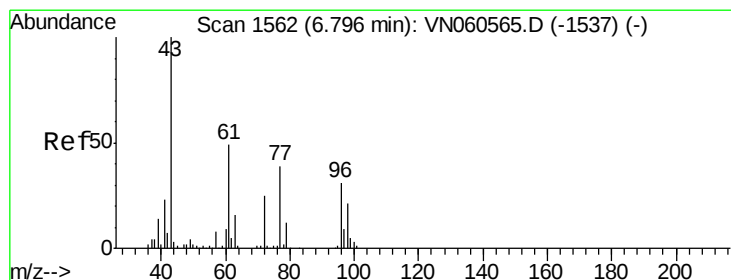
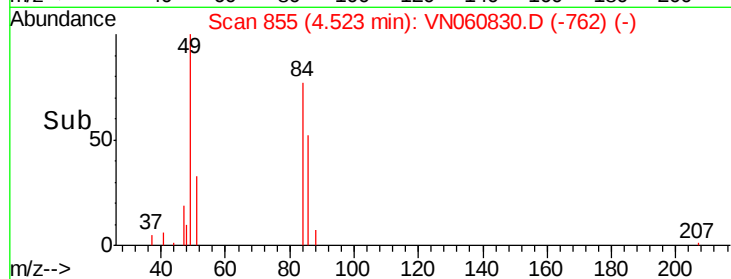
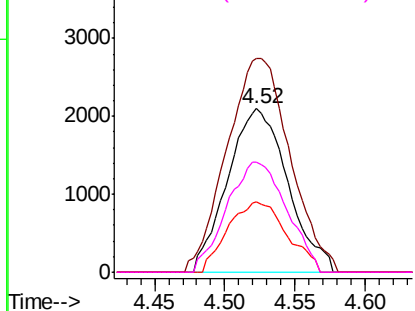
#20
Methvlene Chloride
Concen: 2.615 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	6241
Ion	Ratio	Lower	Upper
84	100		
49	130.6	103.3	154.9
51	43.1	31.6	47.4
86	67.6	52.0	78.0

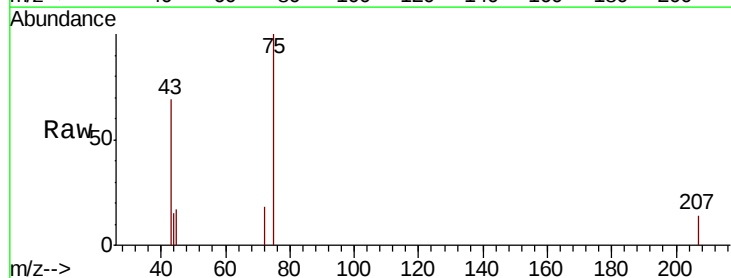


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

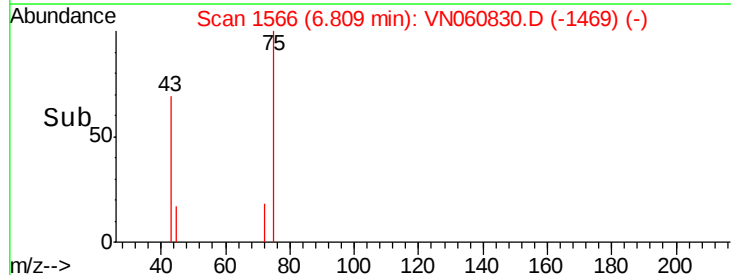
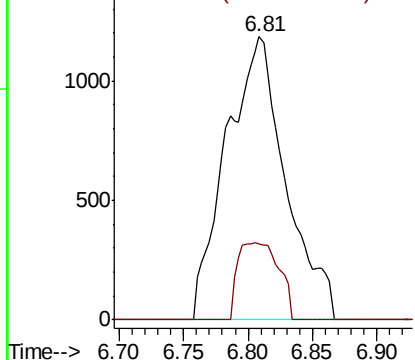


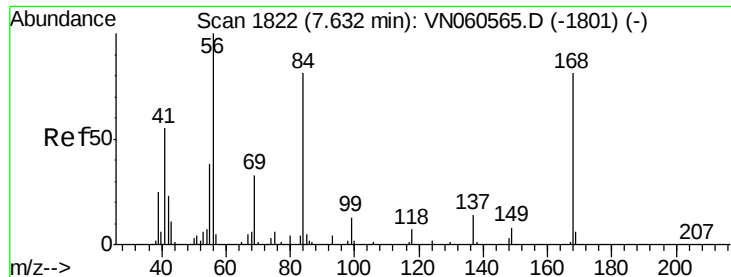
#25
2-Butanone
Concen: 2.424 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Tgt Ion:	43	Resp:	3805
Ion	Ratio	Lower	Upper
43	100		
72	26.7	20.4	30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

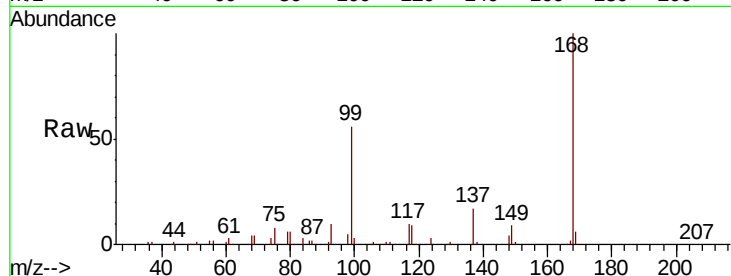




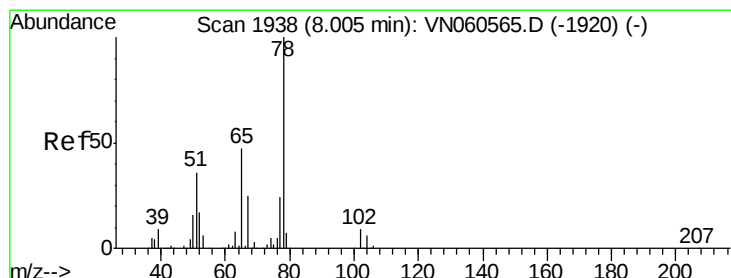
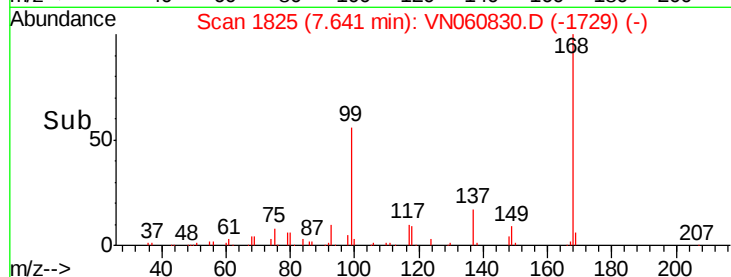
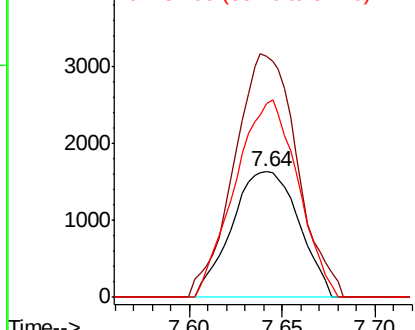
#31
Cyclohexane
Concen: 0.934 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4119
Ion Ratio Lower Upper
56 100
69 192.0 26.6 40.0#
84 153.9 64.3 96.5#

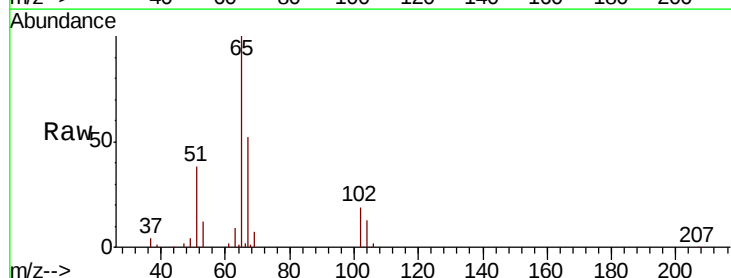


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

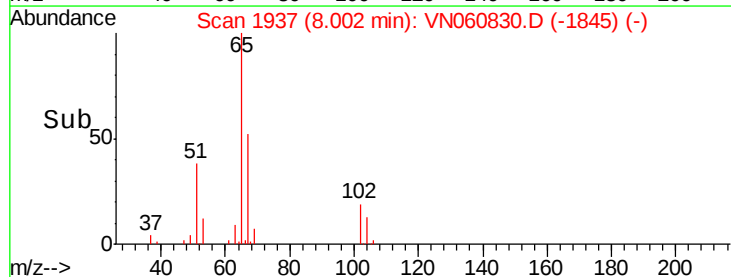
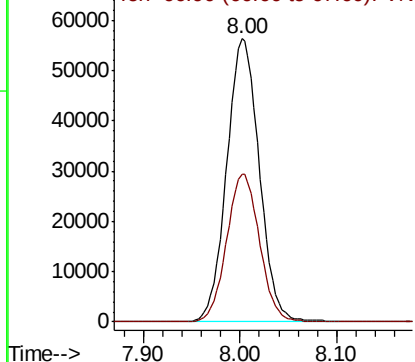


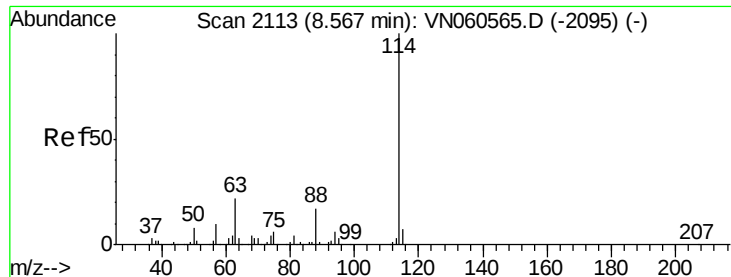
#33
1,2-Dichloroethane-d4
Concen: 48.121 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Tgt Ion: 65 Resp: 131807
Ion Ratio Lower Upper
65 100
67 52.6 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

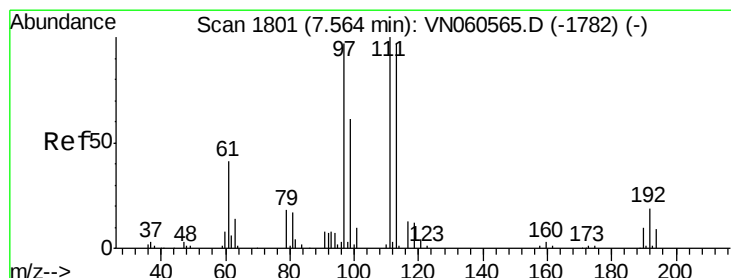
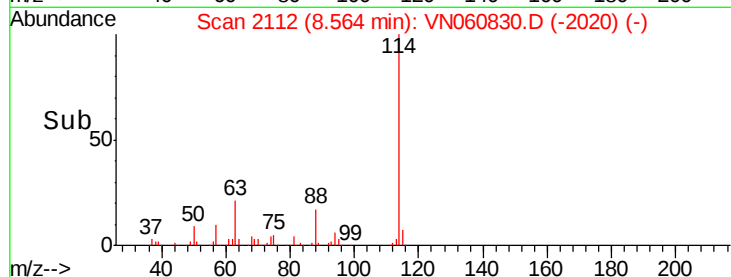
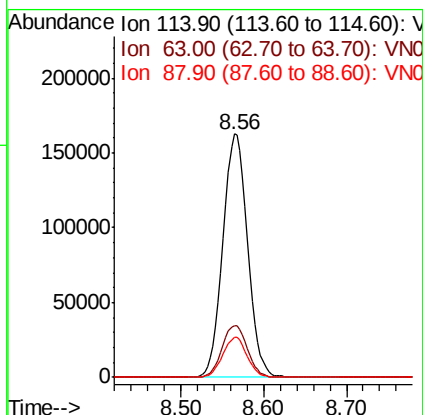
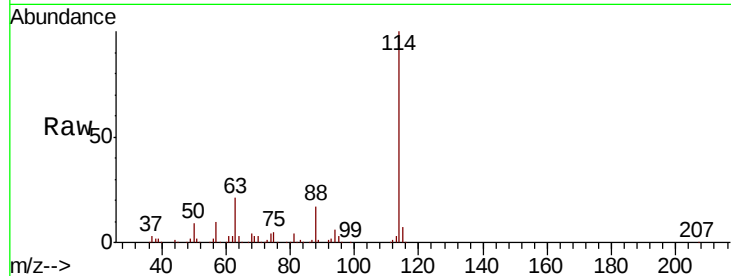




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060830.D
 Acq: 2 Apr 2020 18:35

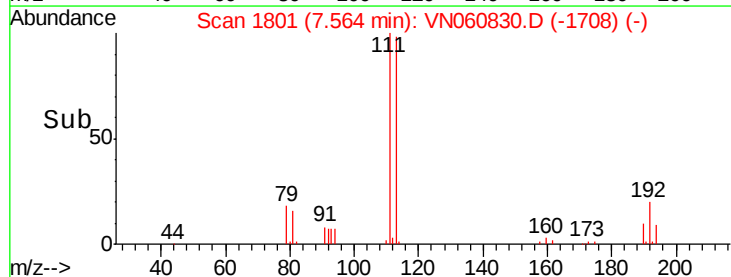
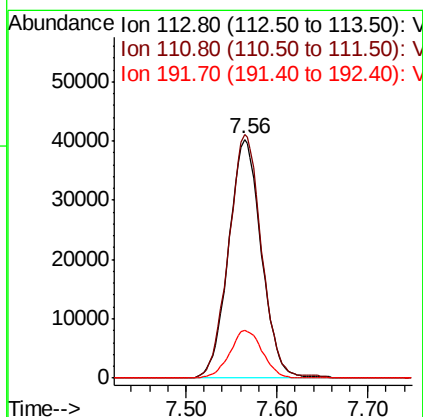
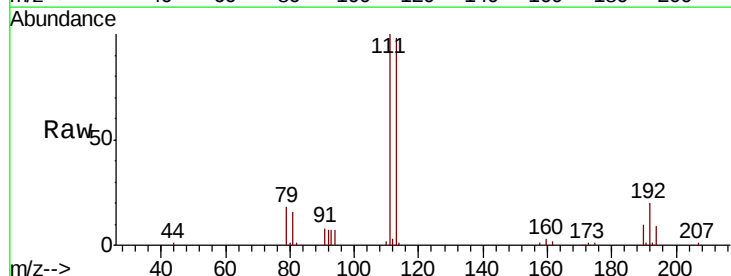
Instrument :
 MSVOA_N
 ClientSampleId :

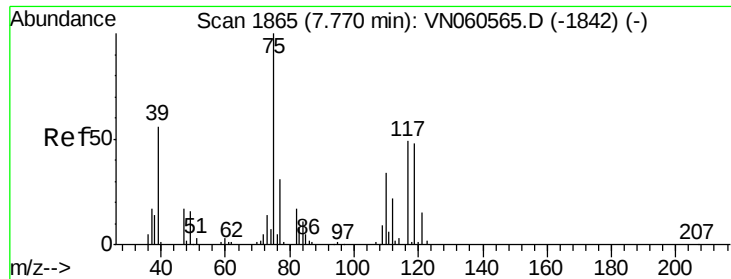
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.8
88	16.6	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 49.493 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060830.D
 Acq: 2 Apr 2020 18:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.9	124.3
192	19.9	15.8	23.8

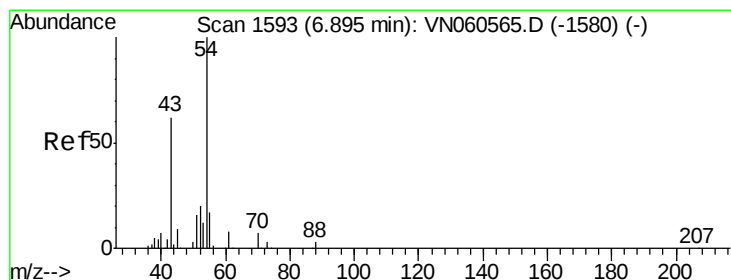
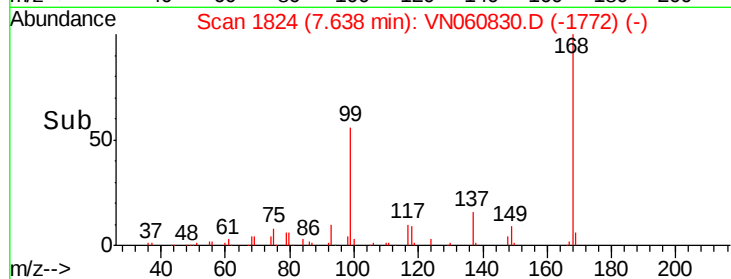
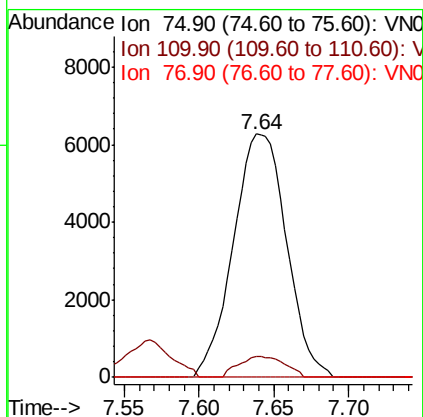
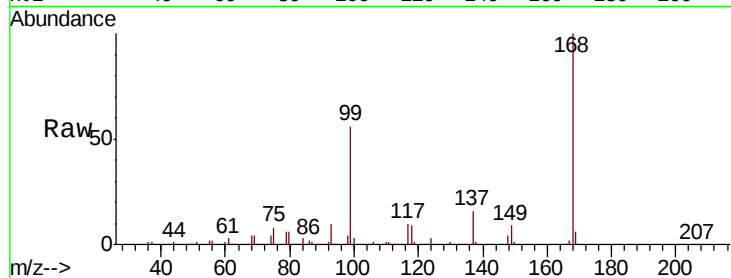




#36
 1,1-Dichloropropene
 Concen: 4.753 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060830.D
 Acq: 2 Apr 2020 18:35

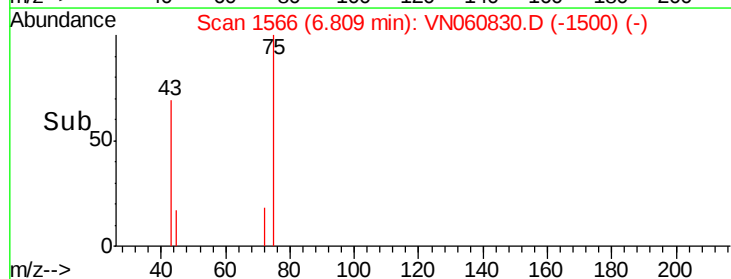
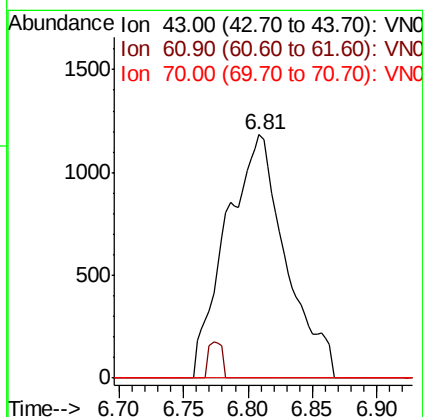
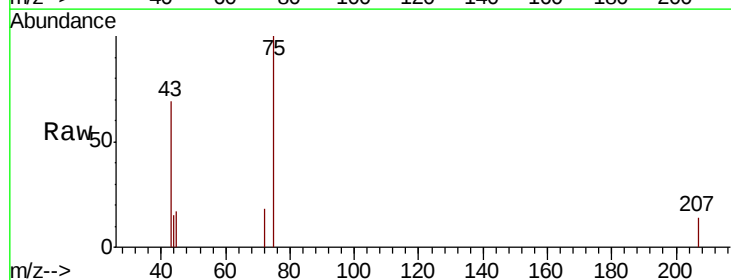
Instrument :
 MSVOA_N
 ClientSampled :

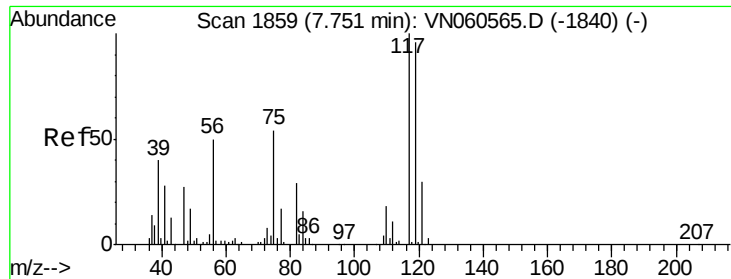
Tot Ion: 75 Resp: 15495
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.080 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.09 min
 Lab File: VN060830.D
 Acq: 2 Apr 2020 18:35

Tgt Ion: 43 Resp: 3805
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.516 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Instrument :

MSVOA_N

ClientSampled :

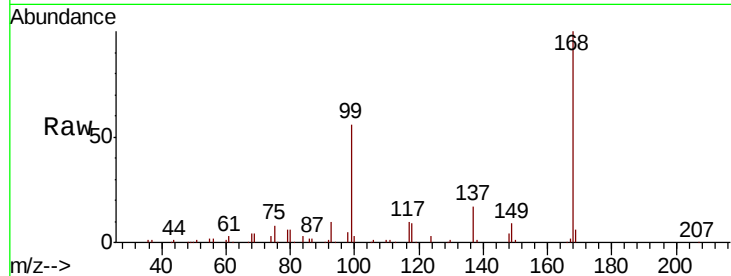
Tot Ion:117 Resp: 19039

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

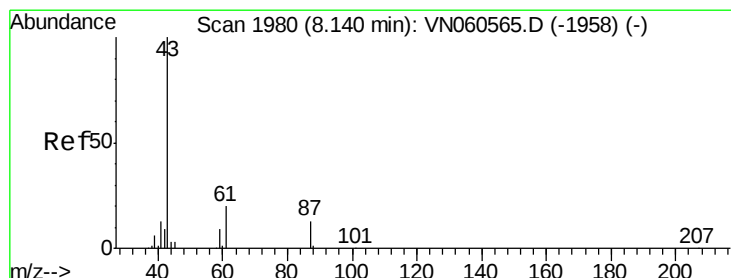
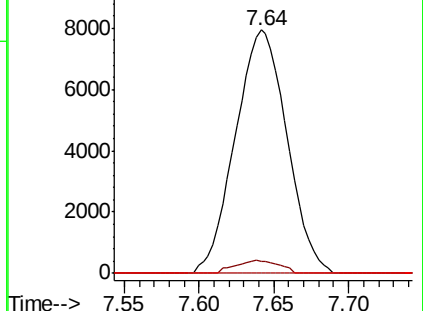
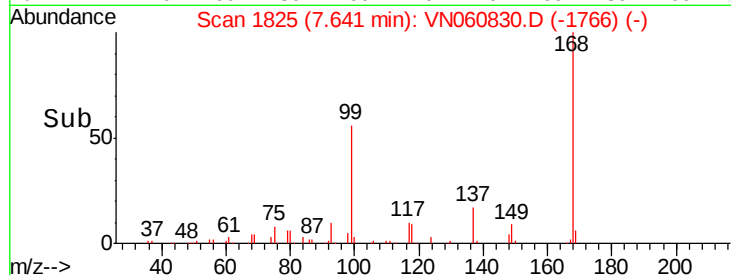
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.231 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

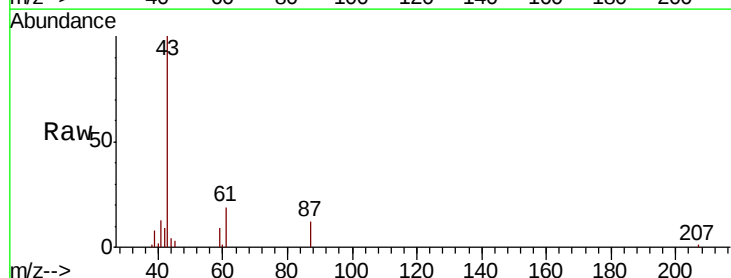
Tgt Ion: 43 Resp: 53624

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

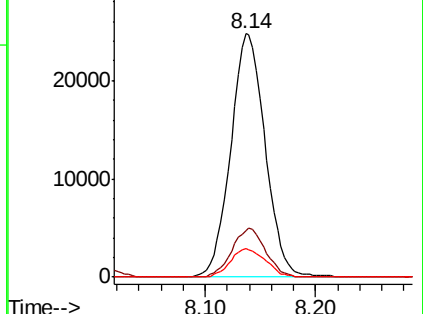
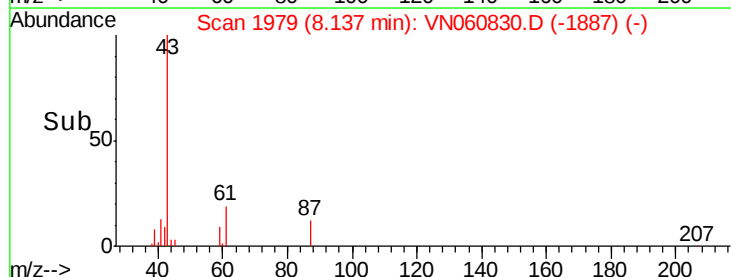
87 11.8 9.8 14.8

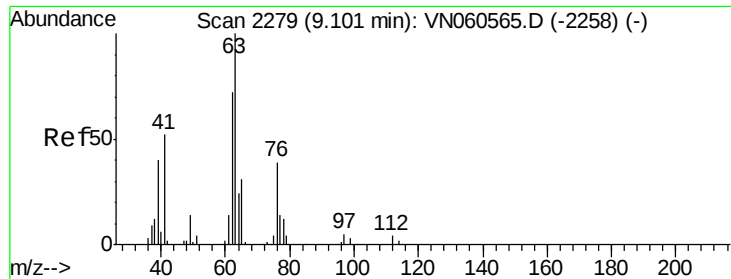


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.367 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Instrument :

MSVOA_N

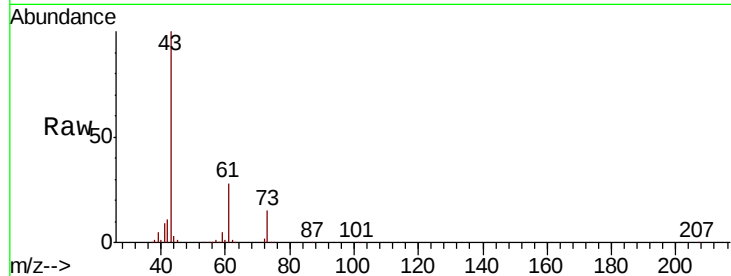
ClientSampleId :

Tot Ion: 63 Resp: 952

Ion Ratio Lower Upper

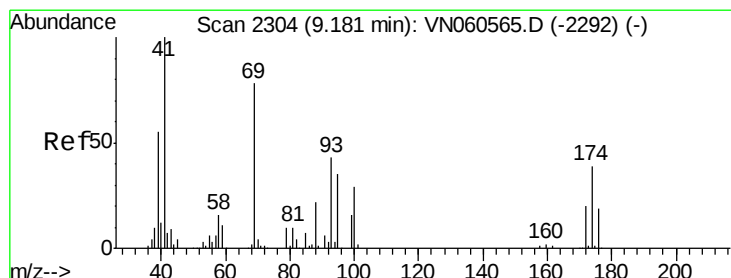
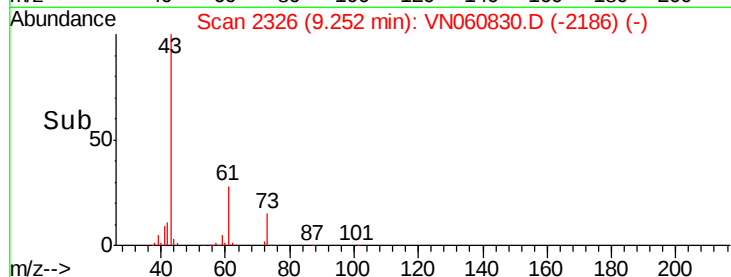
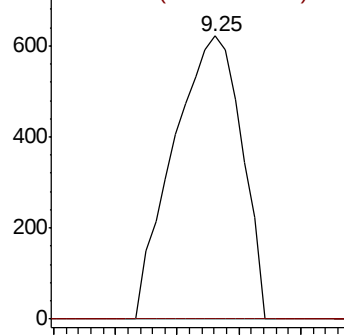
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.149 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

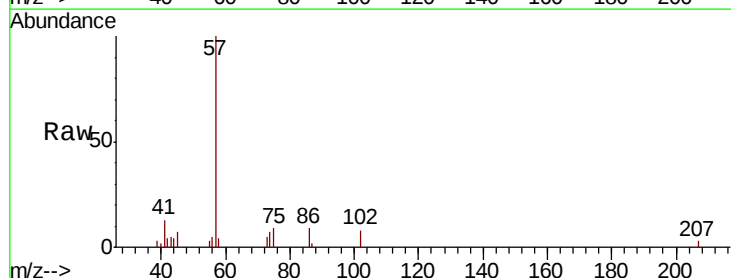
Tgt Ion: 41 Resp: 2973

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

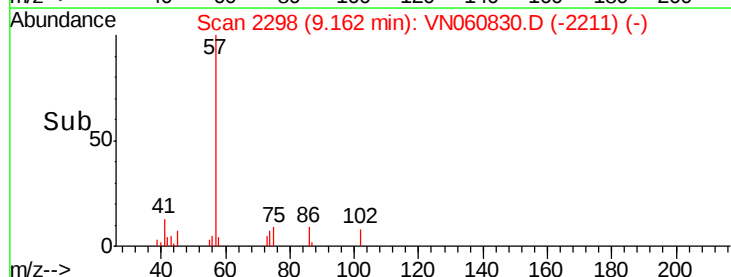
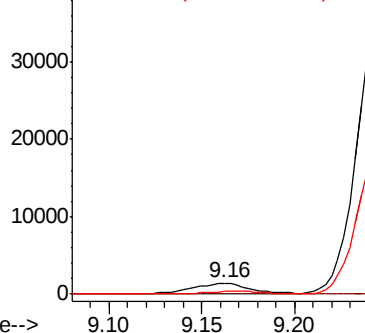
39 0.0 44.0 66.0#

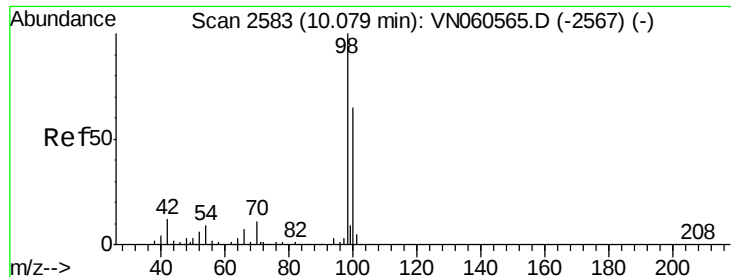


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

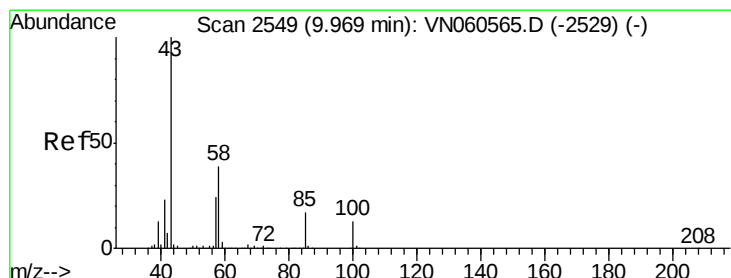
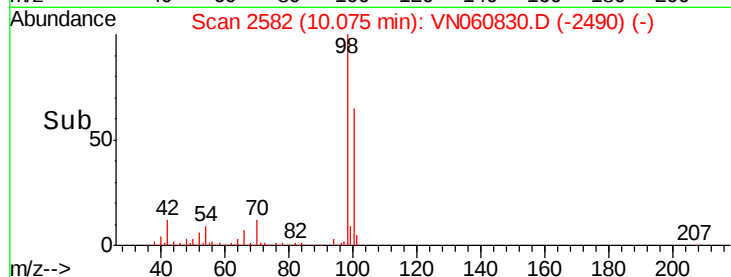
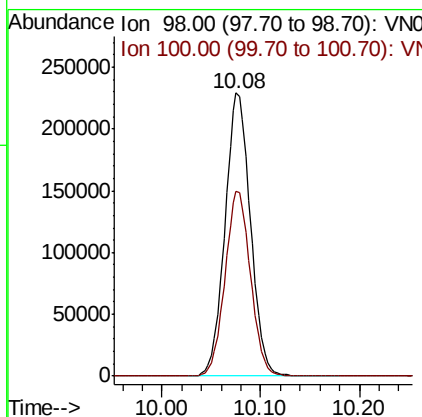
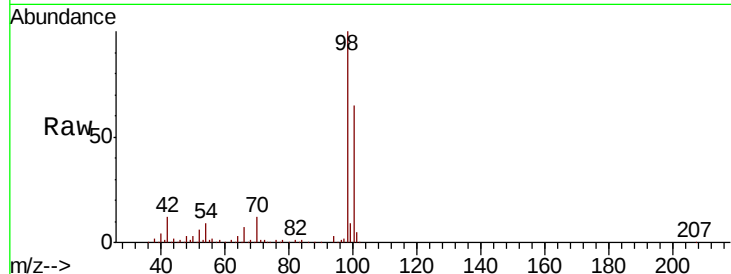




#50
Toluene-d8
Concen: 49.757 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

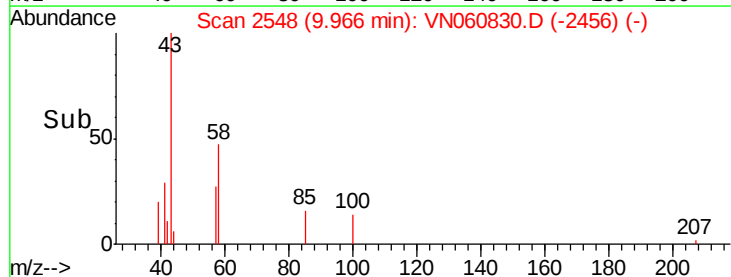
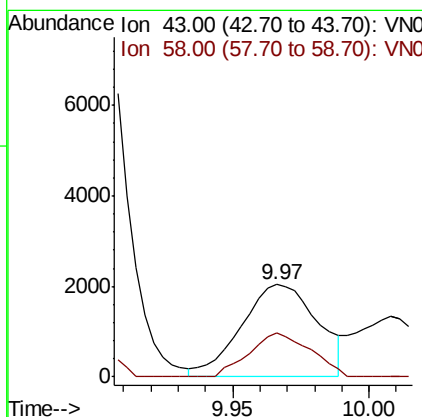
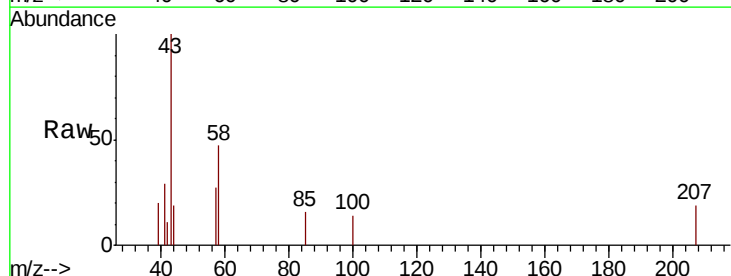
Instrument :
MSVOA_N
ClientSampled :

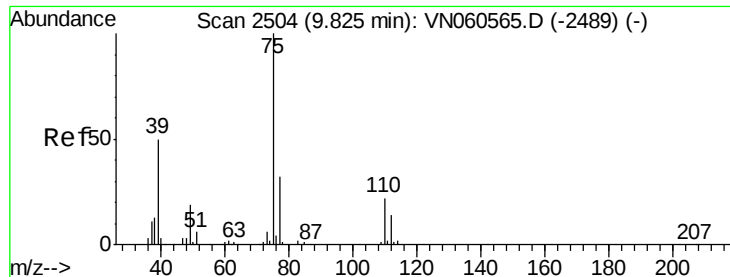
Tot Ion: 98 Resp: 413743
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.199 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Tgt Ion: 43 Resp: 3963
Ion Ratio Lower Upper
43 100
58 38.5 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.167 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Instrument :
MSVOA_N
ClientSampleId :

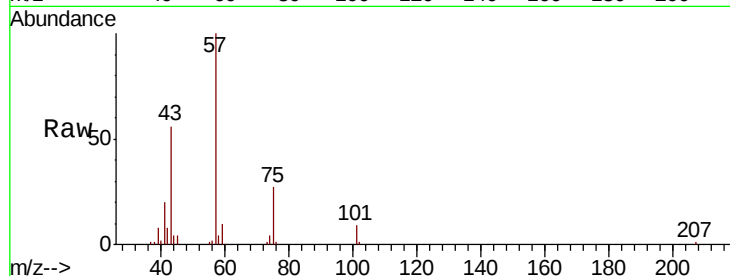
Tot Ion: 75 Resp: 21241

Ion Ratio Lower Upper

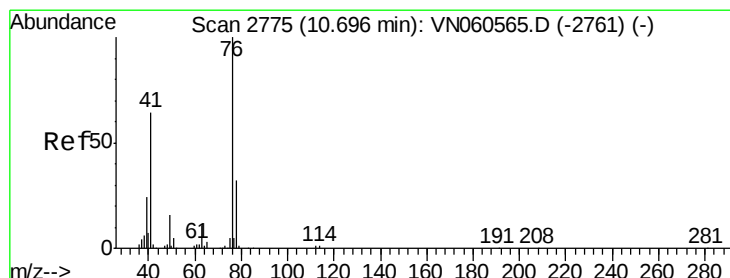
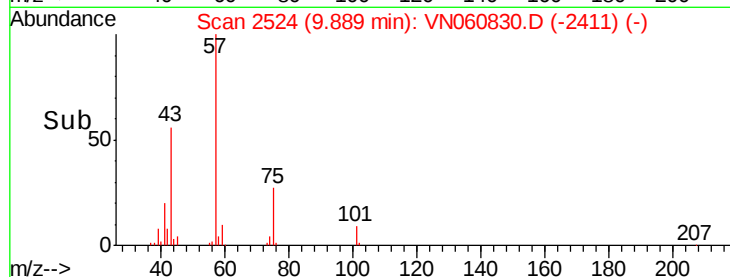
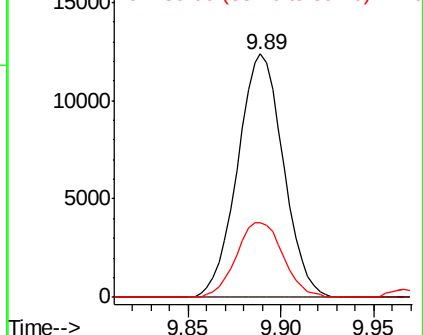
75 100

77 0.0 25.4 38.0#

39 30.8 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.826 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060830.D

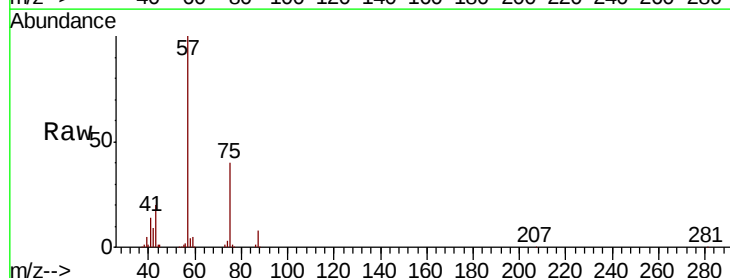
Acq: 2 Apr 2020 18:35

Tgt Ion: 76 Resp: 3278

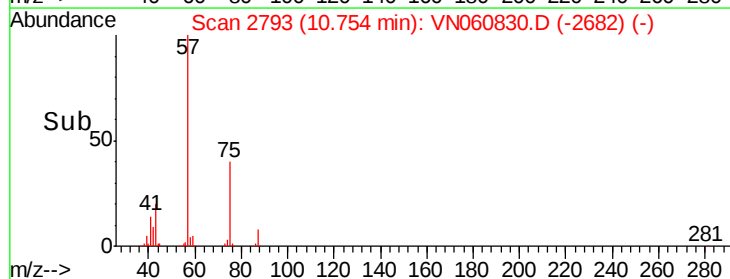
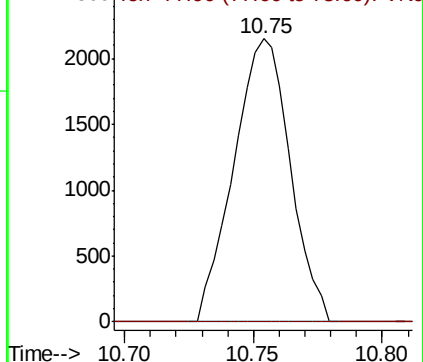
Ion Ratio Lower Upper

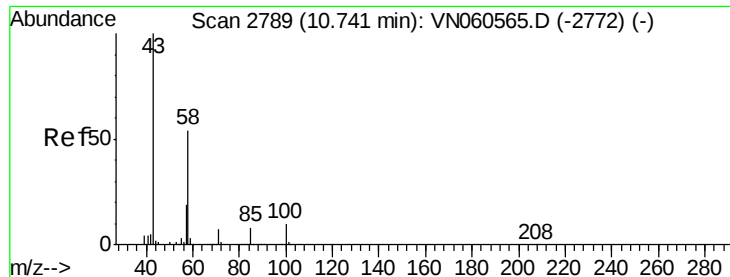
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

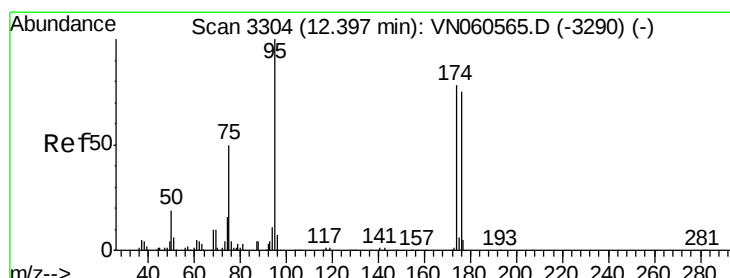
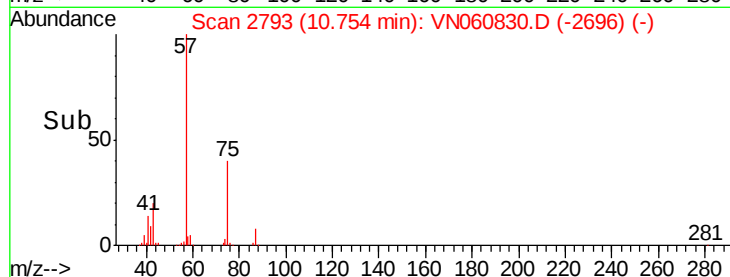
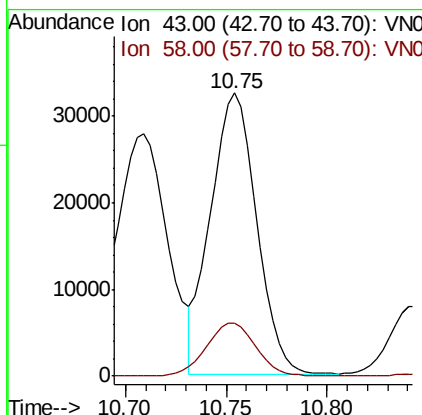
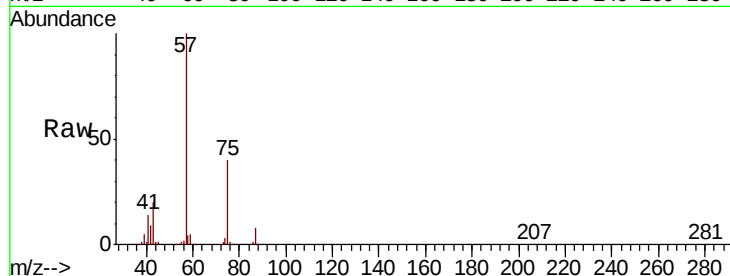




#59
2-Hexanone
Concen: 21.745 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

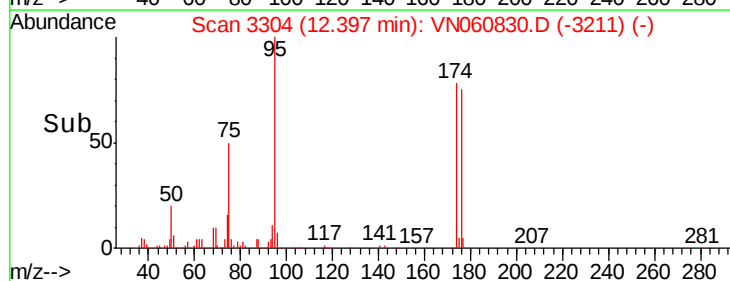
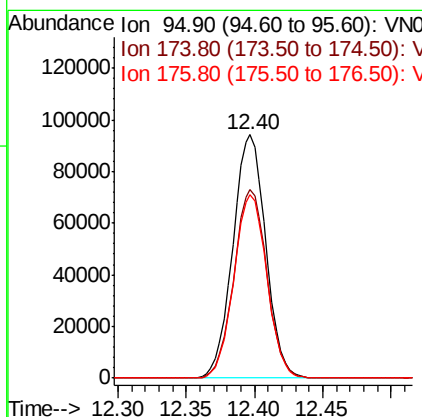
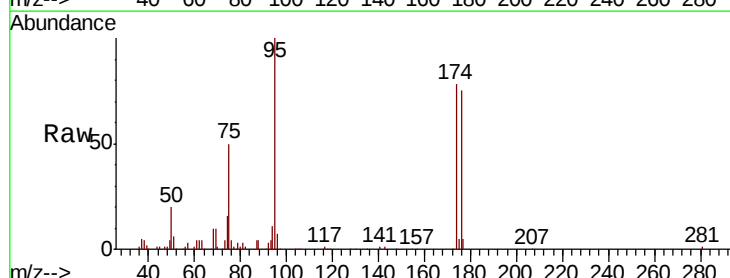
Instrument :
MSVOA_N
ClientSampleId :

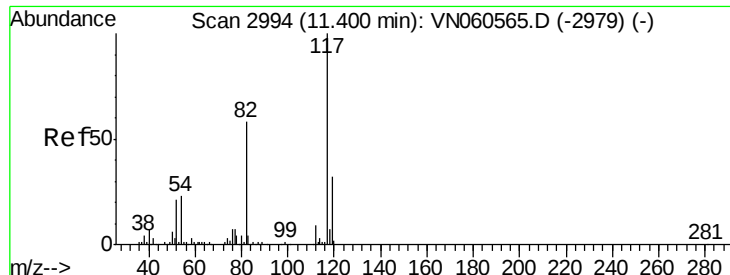
Tot Ion: 43 Resp: 51783
Ion Ratio Lower Upper
43 100
58 20.4 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.672 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Tgt Ion: 95 Resp: 157469
Ion Ratio Lower Upper
95 100
174 77.7 0.0 157.6
176 75.5 0.0 150.6

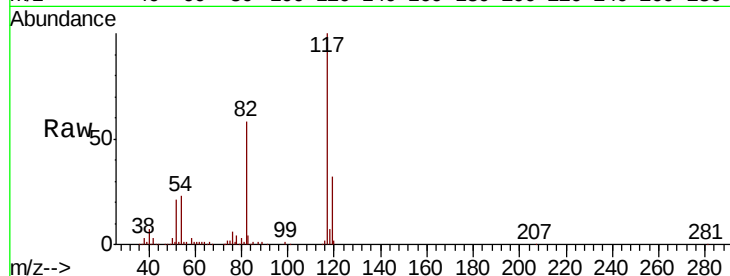




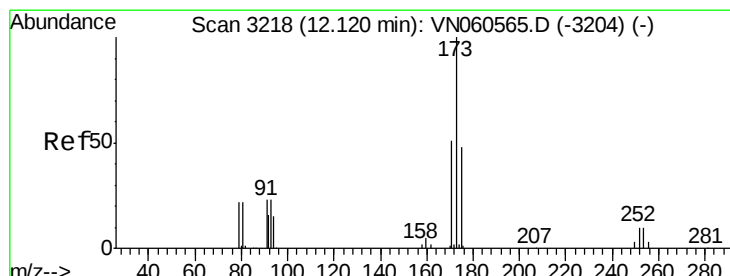
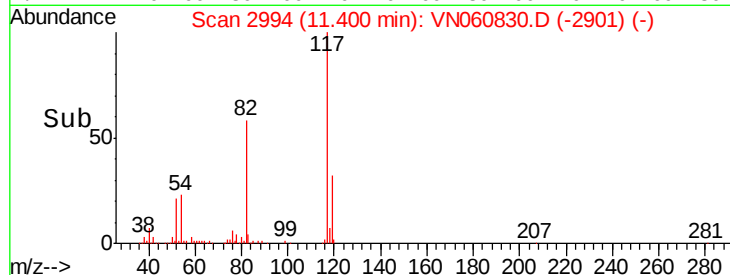
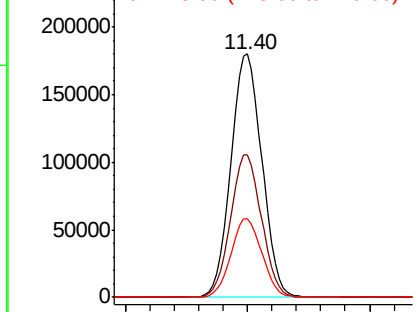
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 318437
Ion Ratio Lower Upper
117 100
82 58.3 46.7 70.1
119 32.2 25.5 38.3

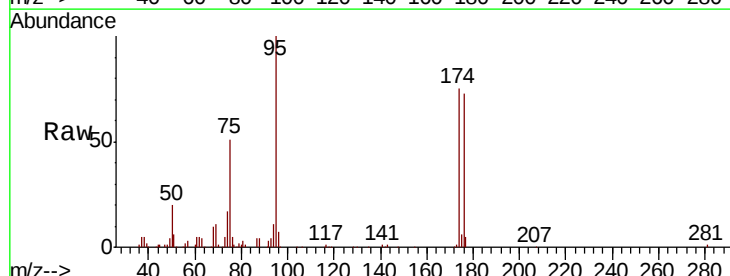


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

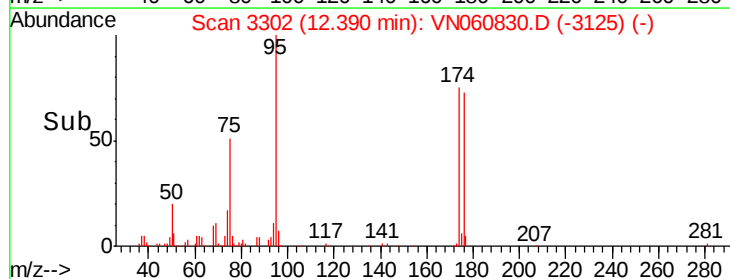
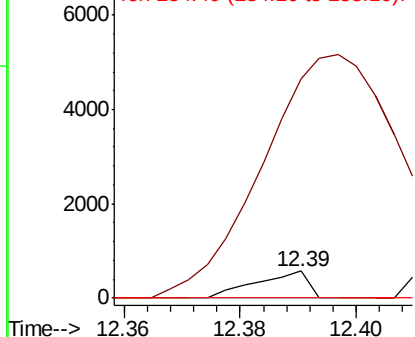


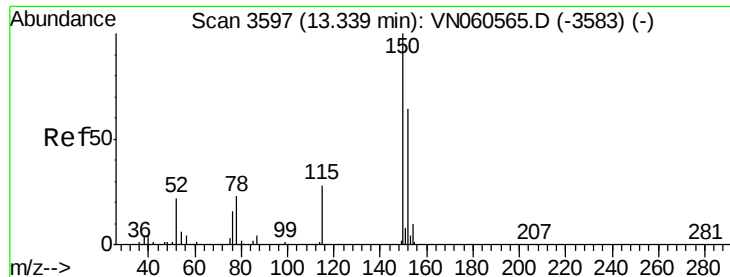
#71
Bromoform
Concen: 1.857 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.27 min
Lab File: VN060830.D
Acq: 2 Apr 2020 18:35

Tgt Ion:173 Resp: 347
Ion Ratio Lower Upper
173 100
175 2159.9 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Instrument :

MSVOA_N

ClientSampleId :

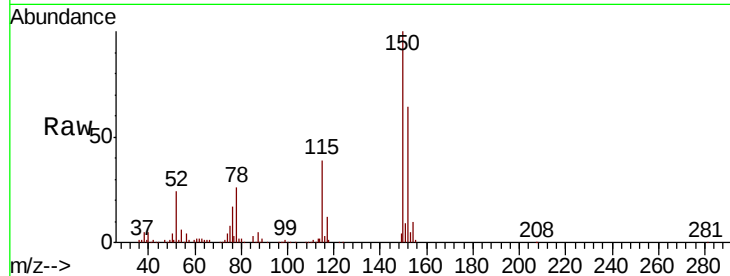
Tot Ion:152 Resp: 146076

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

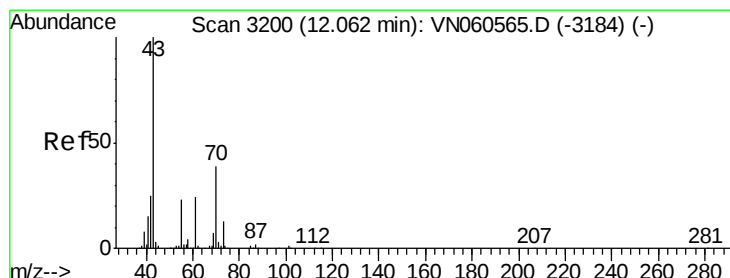
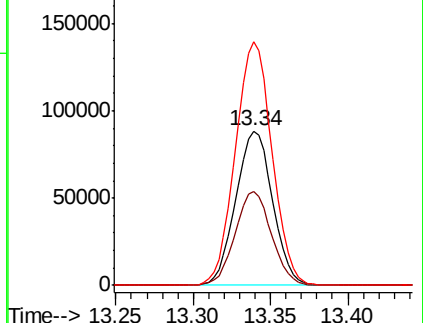
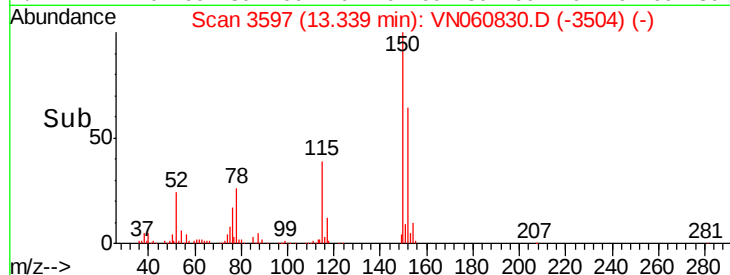
150 157.4 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.731 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Tgt Ion: 43 Resp: 3702

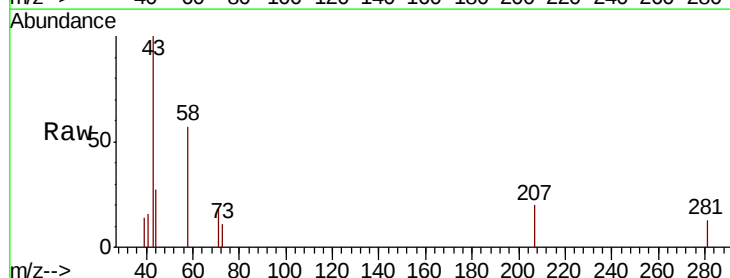
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

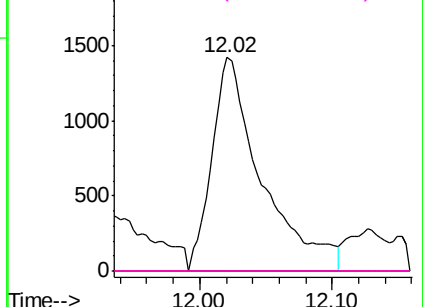
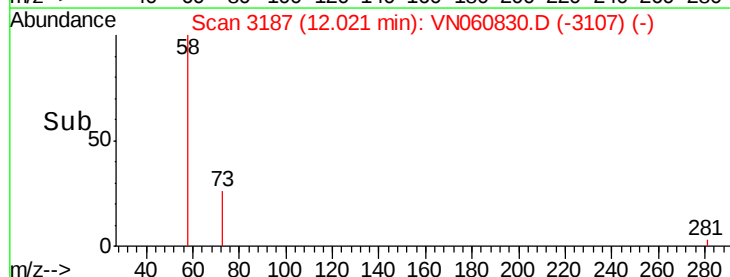


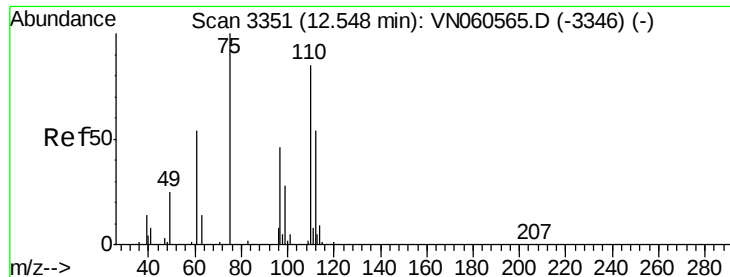
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.881 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Instrument :

MSVOA_N

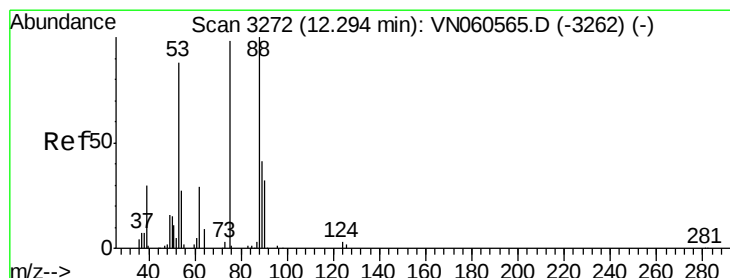
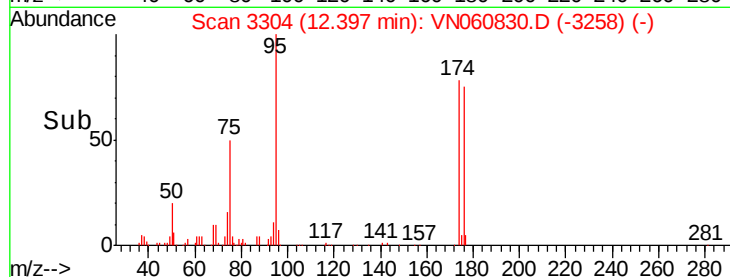
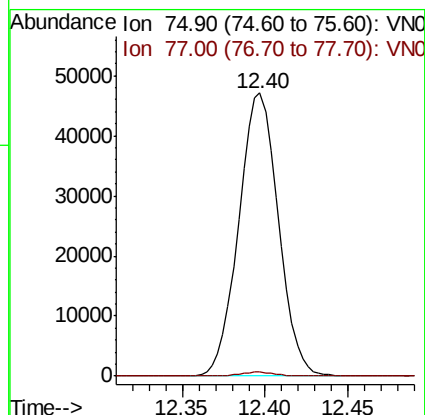
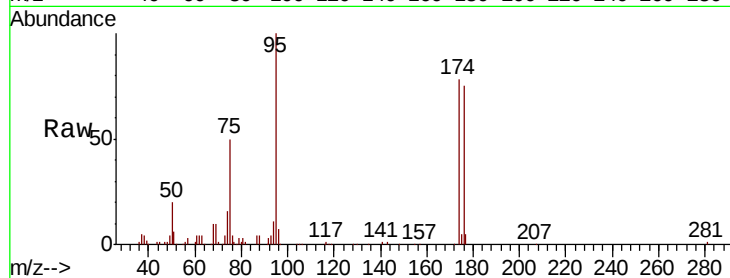
ClientSampled :

Tot Ion: 75 Resp: 78424

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.901 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060830.D

Acq: 2 Apr 2020 18:35

Tgt Ion: 75 Resp: 78424

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

