

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060856.D
 Acq On : 6 Apr 2020 17:05
 Operator : JC/MD
 Sample : L2132-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T-2

Quant Time: Apr 07 07:06:00 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

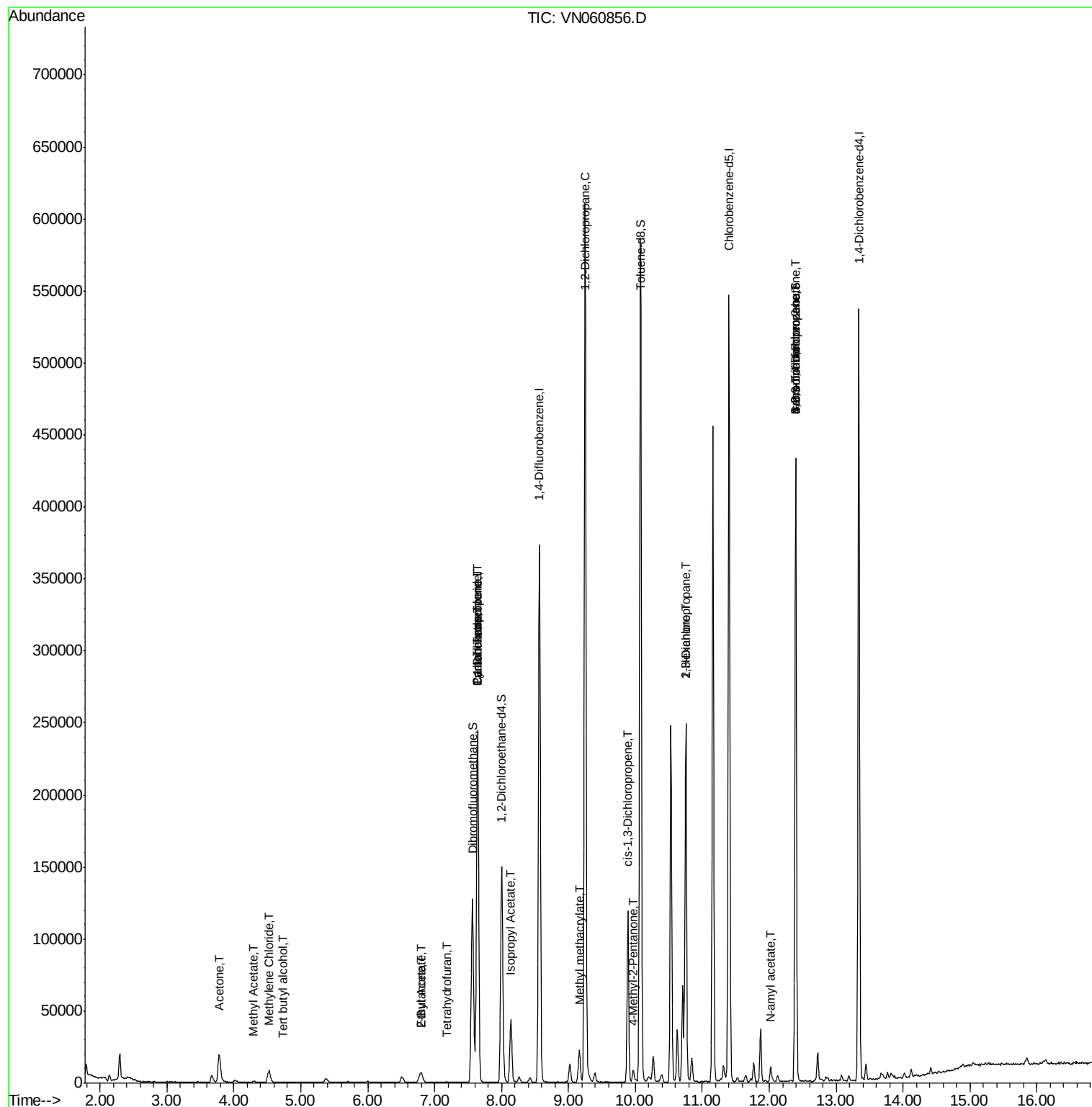
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	198012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	331789	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	311236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141470	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	127956	47.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.14%	
35) Dibromofluoromethane	7.56	113	98765	49.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.46%	
50) Toluene-d8	10.08	98	405978	49.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.08%	
62) 4-Bromofluorobenzene	12.40	95	152833	50.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.78%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	95	0.238	ug/l #	72
16) Acetone	3.78	43	34697	36.035	ug/l	95
18) Methyl Acetate	4.29	43	2129	0.786	ug/l #	60
20) Methylene Chloride	4.52	84	6626	2.797	ug/l	94
25) 2-Butanone	6.80	43	12328	7.912	ug/l	94
29) Tetrahydrofuran	7.18	42	287	0.260	ug/l #	35
31) Cyclohexane	7.64	56	4065	0.928	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15837	4.929	ug/l #	49
37) Ethyl Acetate	6.80	43	12328	3.551	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19060	6.619	ug/l #	16
43) Isopropyl Acetate	8.14	43	52075	9.096	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	630	0.246	ug/l #	43
48) Methyl methacrylate	9.15	41	4789	1.879	ug/l #	33
51) 4-Methyl-2-Pentanone	9.97	43	5976	1.834	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	20588	5.082	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2424	0.620	ug/l #	42
59) 2-Hexanone	10.75	43	38566	16.434	ug/l #	58
71) Bromoform	12.40	173	739	2.065	ug/l #	1
74) N-amyl acetate	12.02	43	7529	1.535	ug/l #	49
76) 1,2,3-Trichloropropane	12.39	75	77135	25.268	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	77135	64.897	ug/l #	13

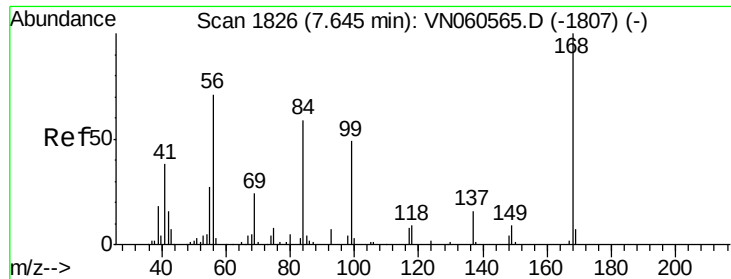
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

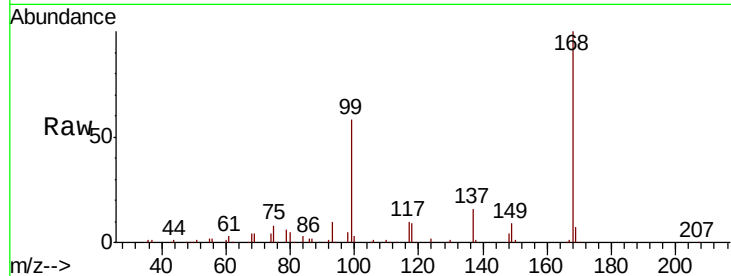
T-2

Tot Ion:168 Resp: 198012

Ion Ratio Lower Upper

168 100

99 57.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

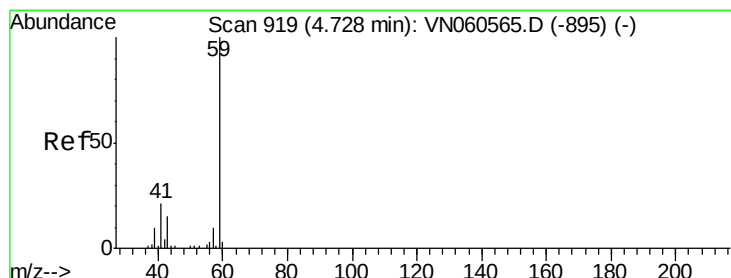
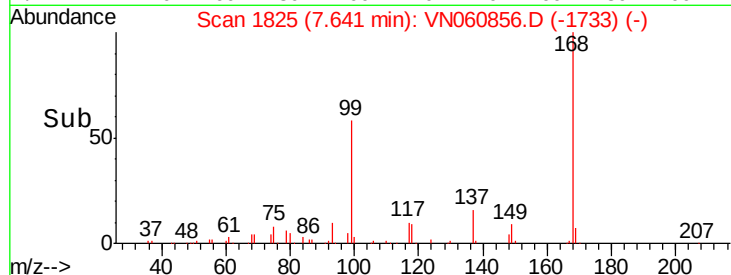
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.238 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060856.D

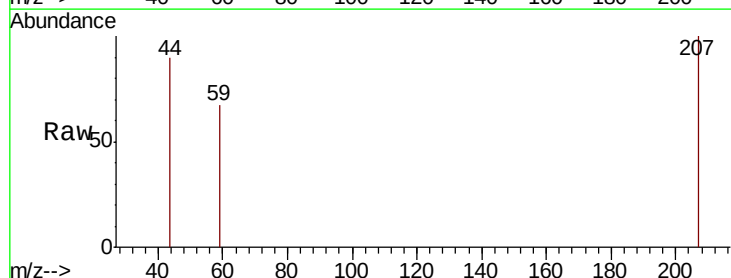
Acq: 6 Apr 2020 17:05

Tgt Ion: 59 Resp: 95

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

4.73

200

150

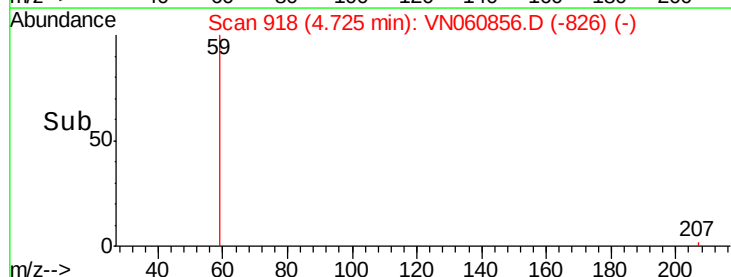
100

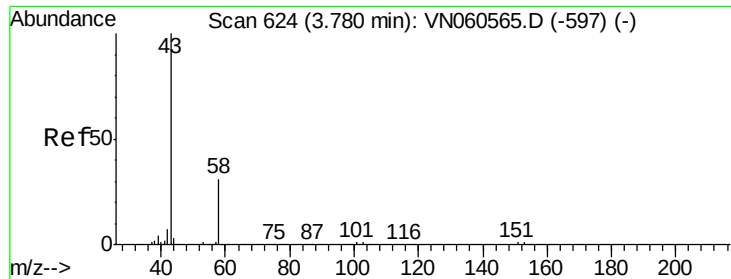
50

0

4.71 4.72 4.73 4.74

Time-->





#16

Acetone

Concen: 36.035 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :

MSVOA_N

ClientSampled :

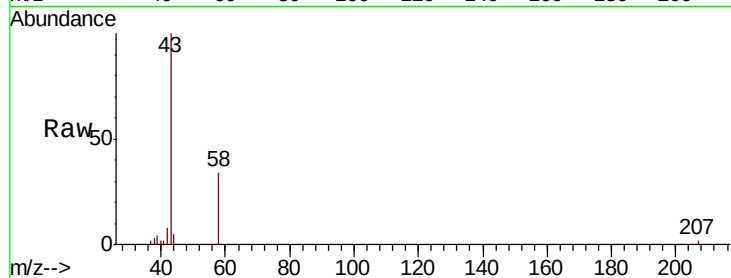
T-2

Tot Ion: 43 Resp: 34697

Ion Ratio Lower Upper

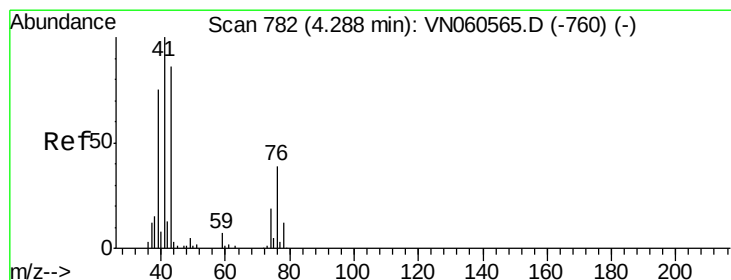
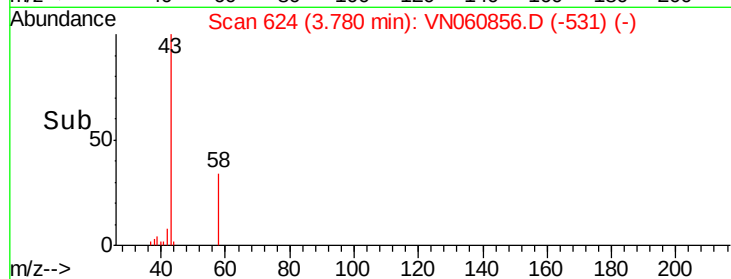
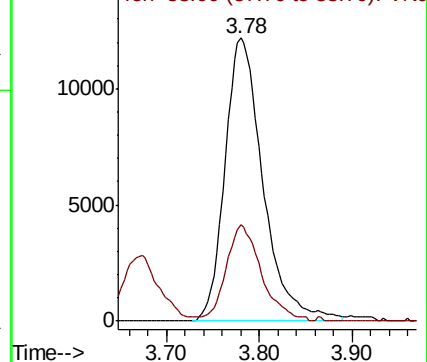
43 100

58 34.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.786 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060856.D

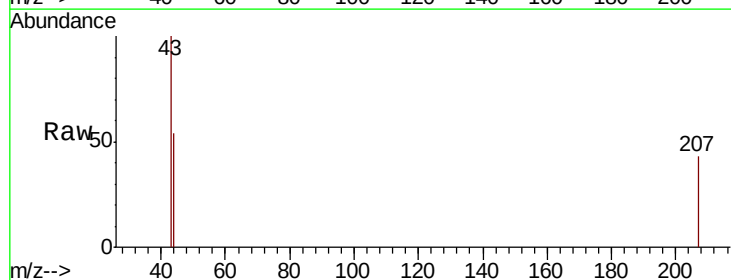
Acq: 6 Apr 2020 17:05

Tgt Ion: 43 Resp: 2129

Ion Ratio Lower Upper

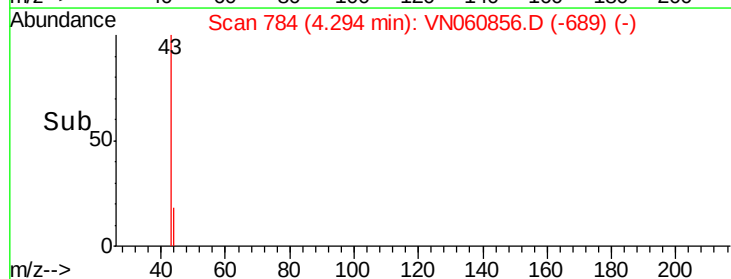
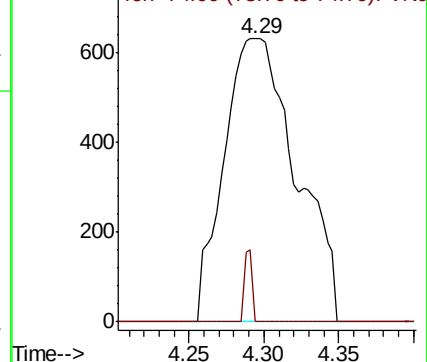
43 100

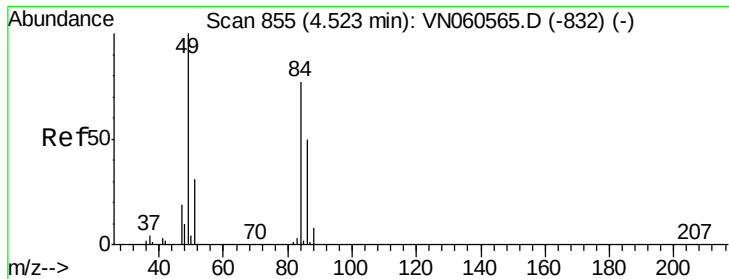
74 2.9 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

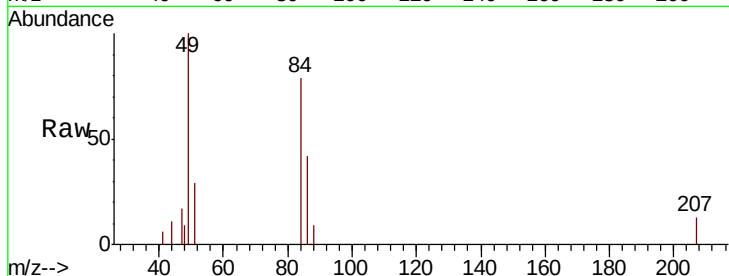




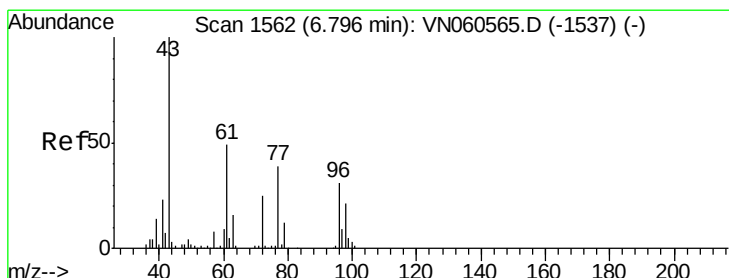
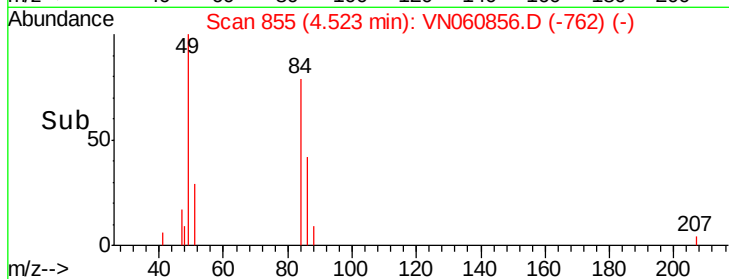
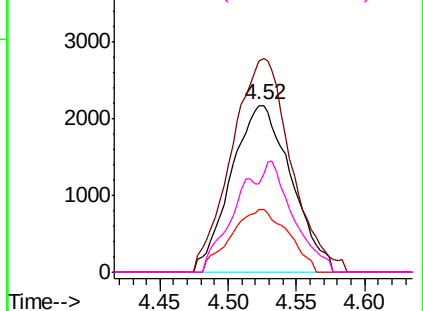
#20
Methvlene Chloride
Concen: 2.797 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Instrument :
MSVOA_N
ClientSampled :
T-2

Tot Ion:	84	Resp:	6626
Ion	Ratio	Lower	Upper
84	100		
49	126.9	103.3	154.9
51	37.4	31.6	47.4
86	53.2	52.0	78.0

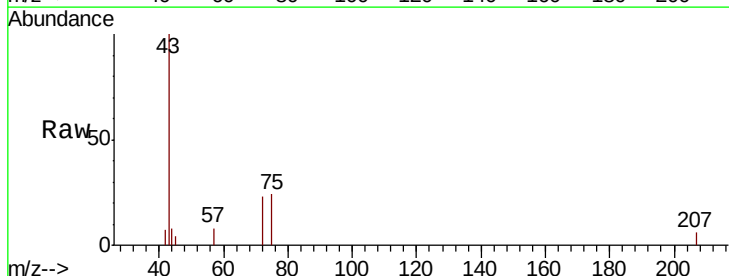


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

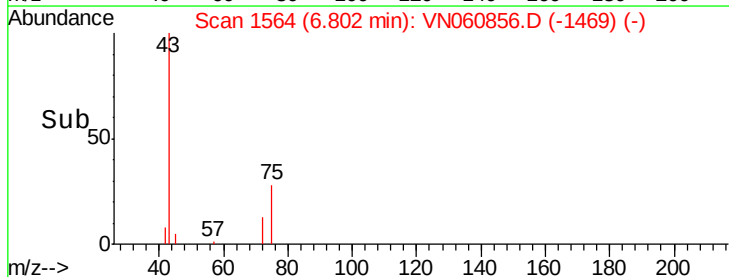
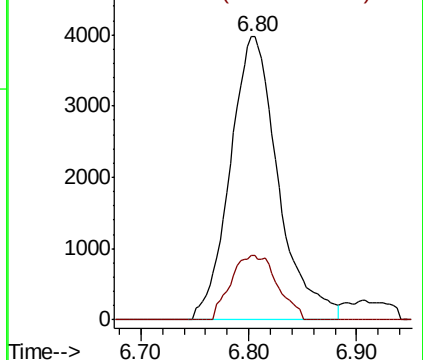


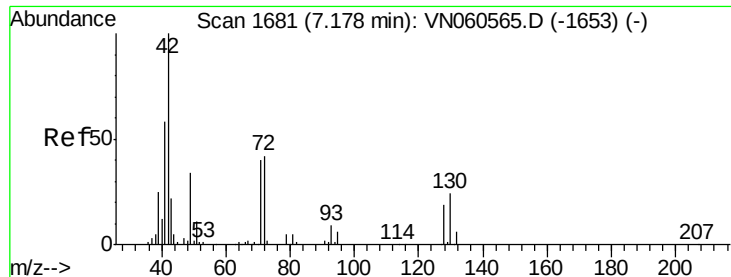
#25
2-Butanone
Concen: 7.912 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Tgt Ion:	43	Resp:	12328
Ion	Ratio	Lower	Upper
43	100		
72	22.7	20.4	30.6



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

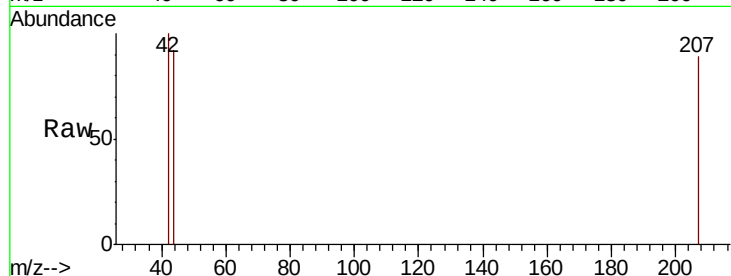




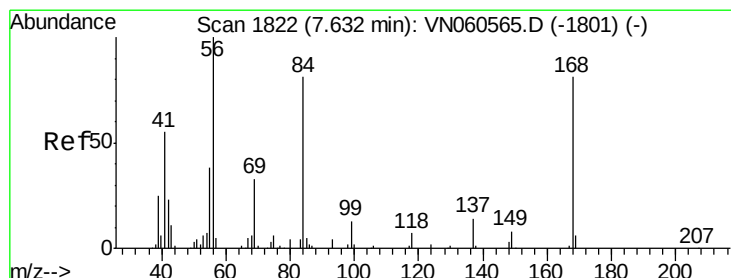
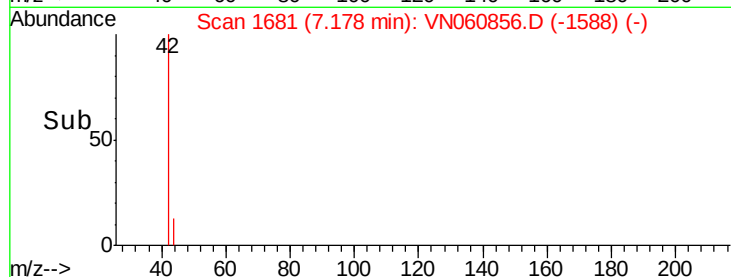
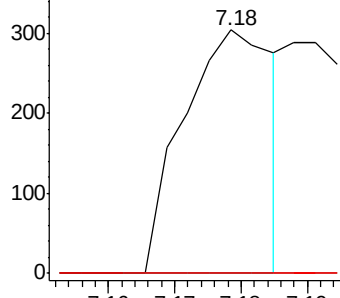
#29
Tetrahydrofuran
Concen: 0.260 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Instrument :
MSVOA_N
ClientSampled :
T-2

Tot Ion: 42 Resp: 287
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

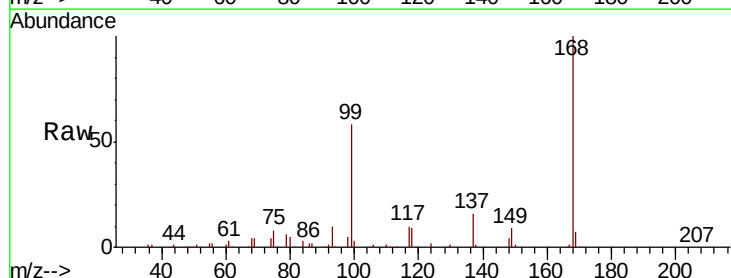


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

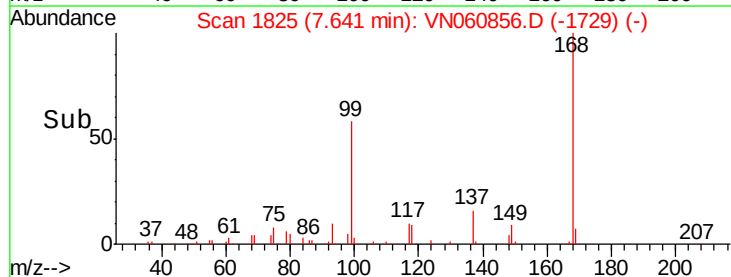
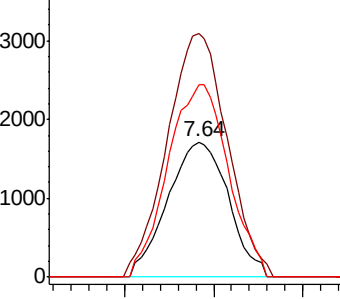


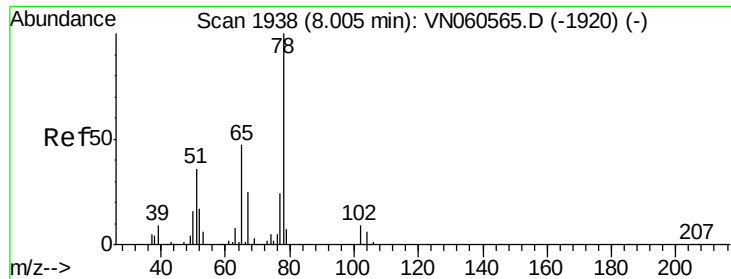
#31
Cyclohexane
Concen: 0.928 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Tgt Ion: 56 Resp: 4065
Ion Ratio Lower Upper
56 100
69 180.4 26.6 40.0#
84 142.8 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

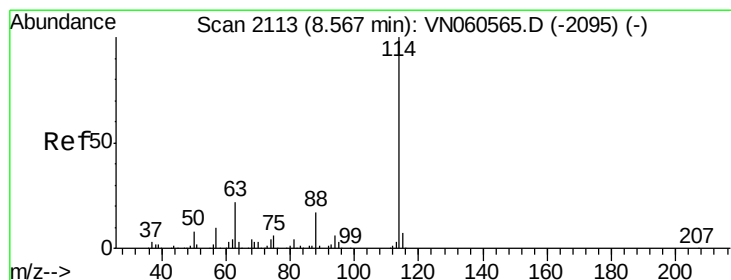
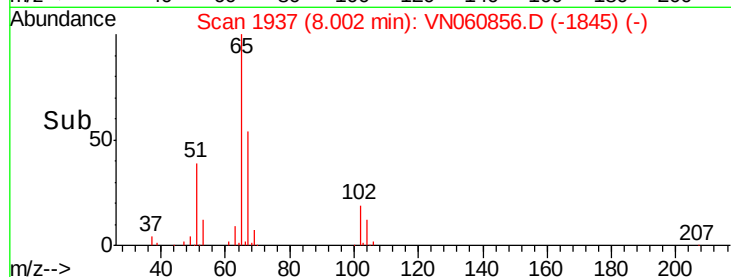
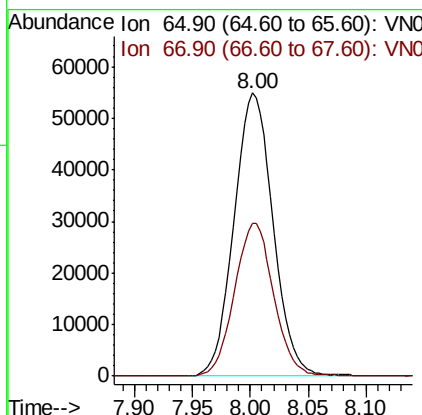
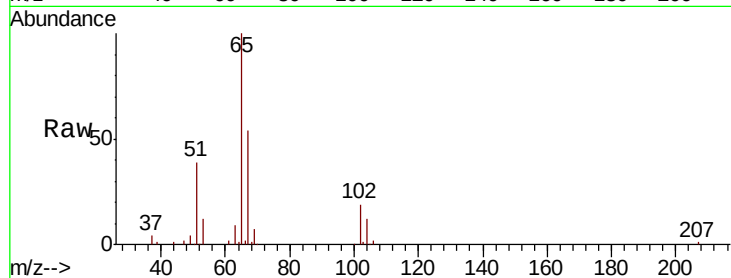




#33
 1,2-Dichloroethane-d4
 Concen: 47.073 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060856.D
 Acq: 6 Apr 2020 17:05

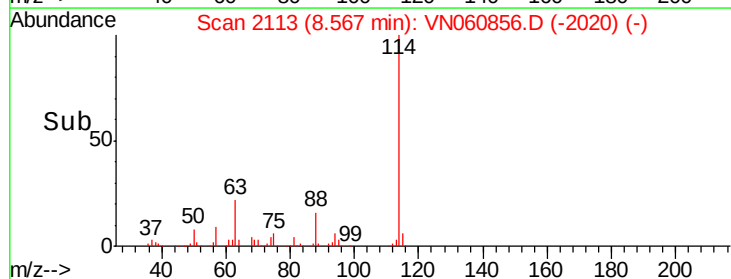
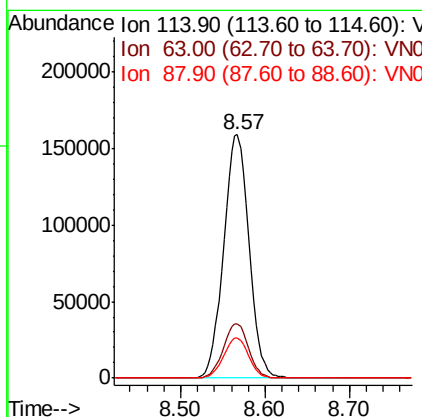
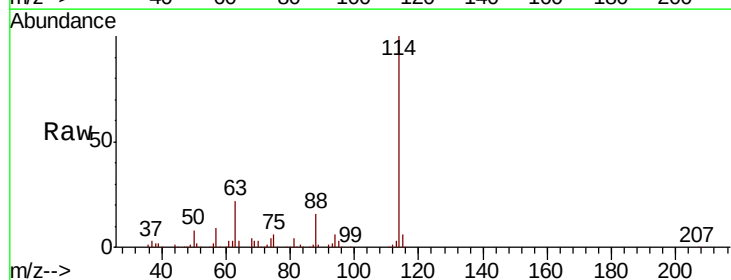
Instrument :
 MSVOA_N
 ClientSampled :
 T-2

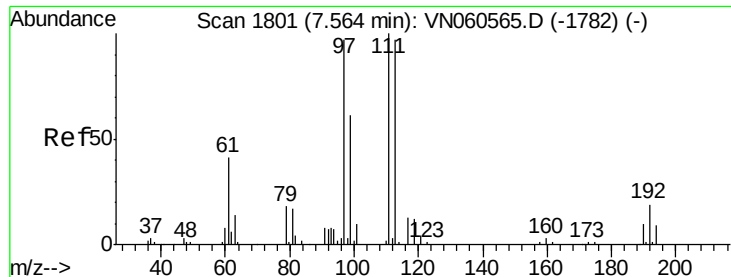
Tot Ion: 65 Resp: 127956
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060856.D
 Acq: 6 Apr 2020 17:05

Tgt Ion: 114 Resp: 331789
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.8
 88 16.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.229 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :
MSVOA_N
ClientSampled :
T-2

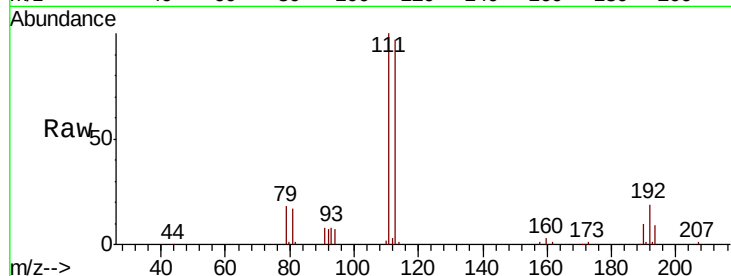
Tot Ion:113 Resp: 98765

Ion Ratio Lower Upper

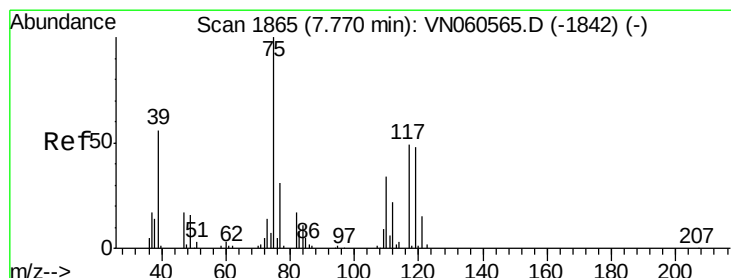
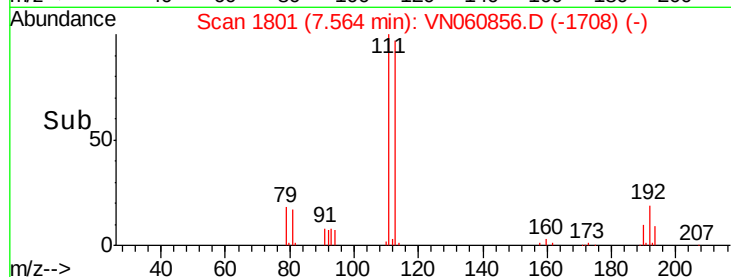
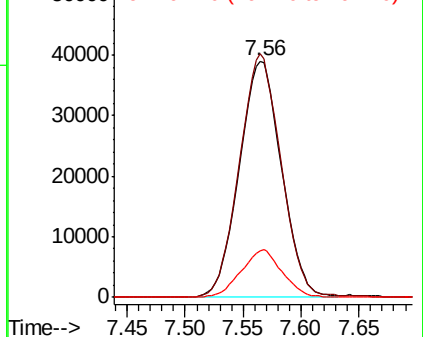
113 100

111 101.8 82.9 124.3

192 19.6 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.929 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

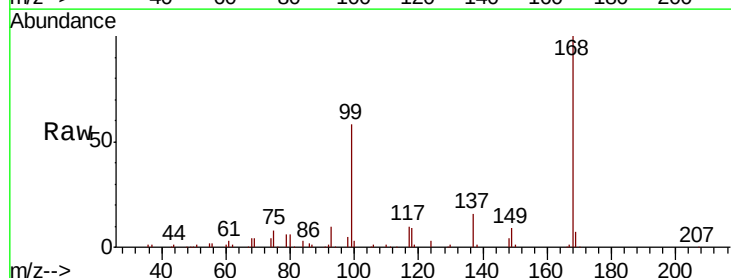
Tgt Ion: 75 Resp: 15837

Ion Ratio Lower Upper

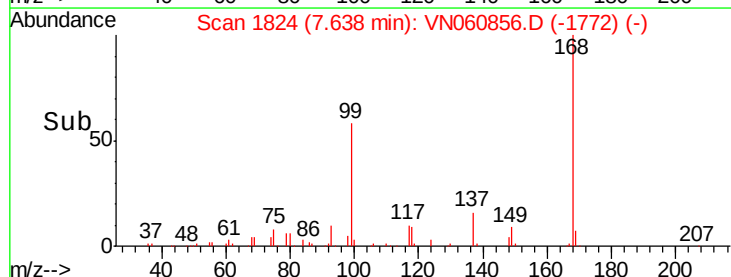
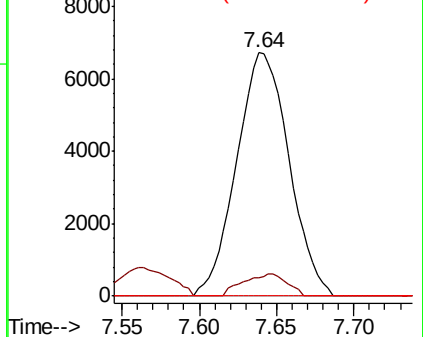
75 100

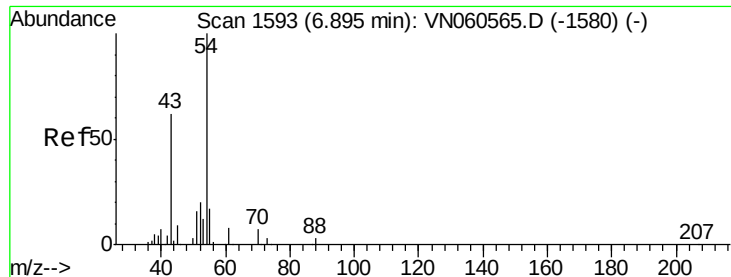
110 7.6 16.9 50.6#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0

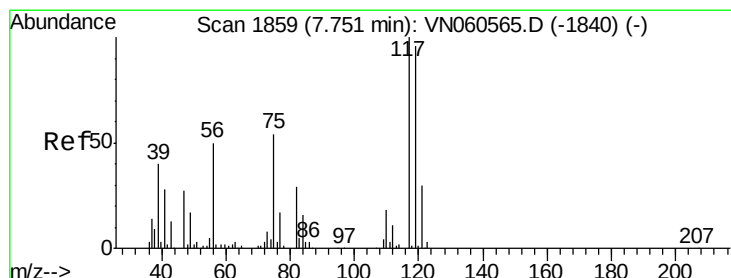
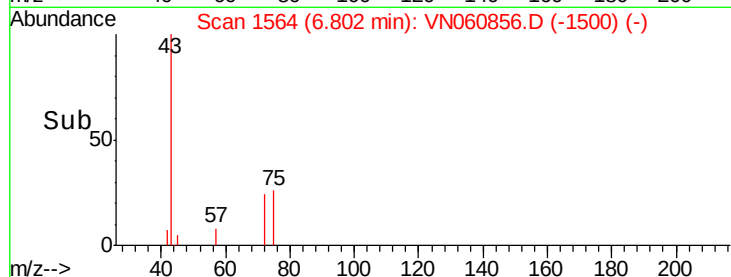
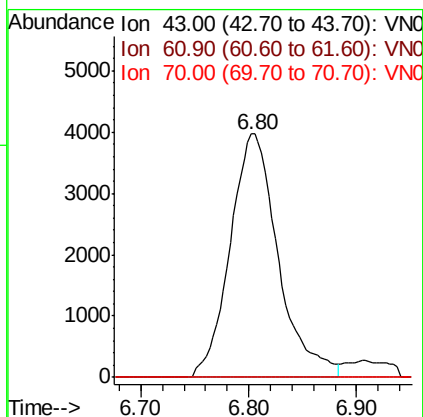
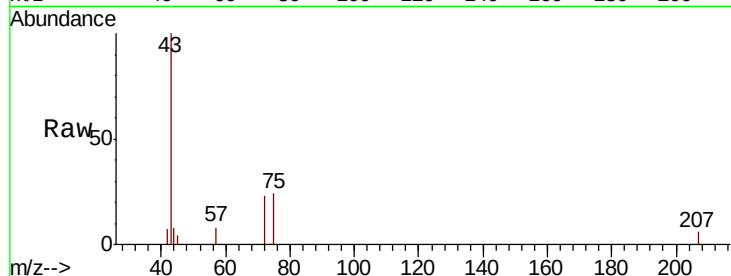




#37
Ethyl Acetate
Concen: 3.551 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

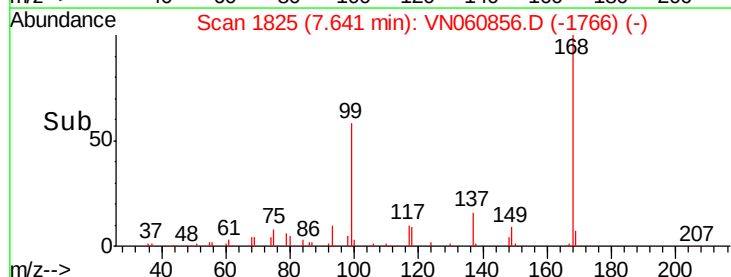
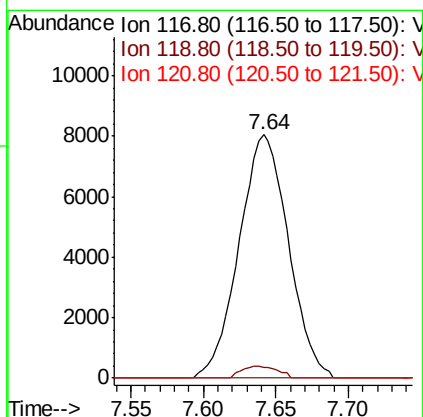
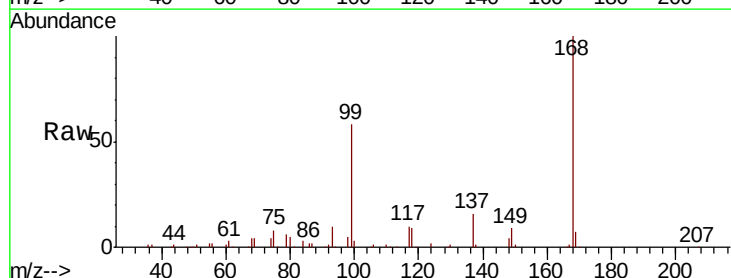
Instrument :
MSVOA_N
ClientSampled :
T-2

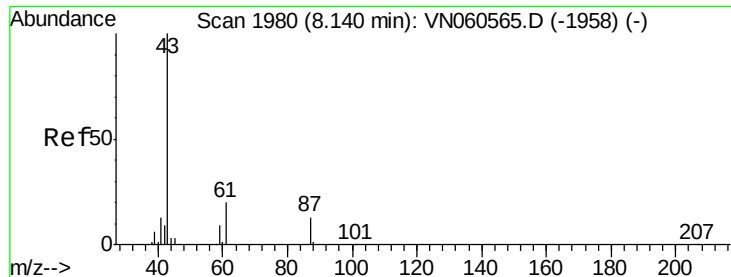
Tot Ion: 43 Resp: 12328
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.619 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Tgt Ion: 117 Resp: 19060
Ion Ratio Lower Upper
117 100
119 4.6 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 9.096 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :

MSVOA_N

ClientSampled :

T-2

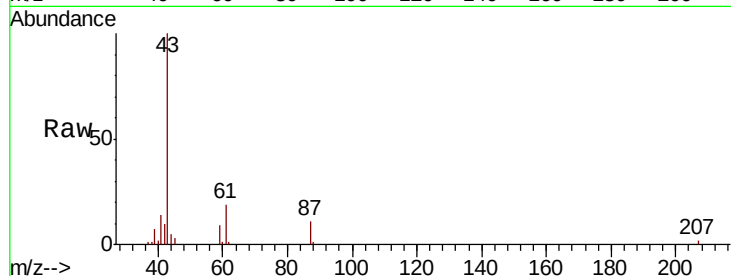
Tot Ion: 43 Resp: 52075

Ion Ratio Lower Upper

43 100

61 19.2 20.7 31.1#

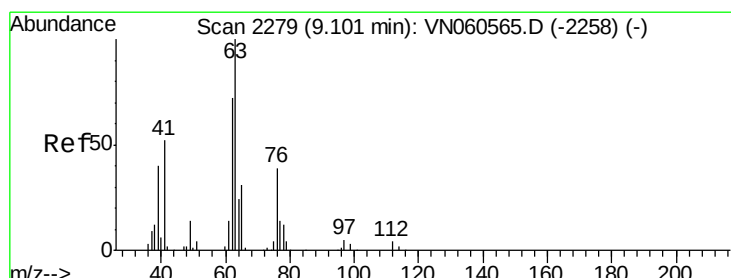
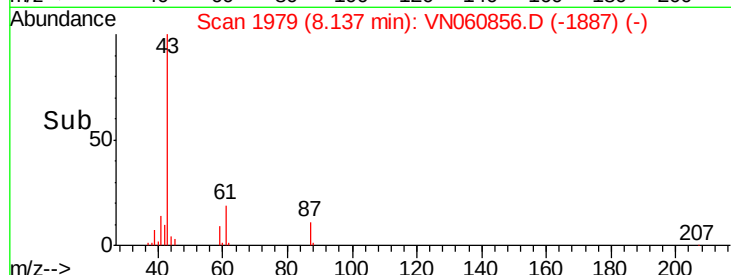
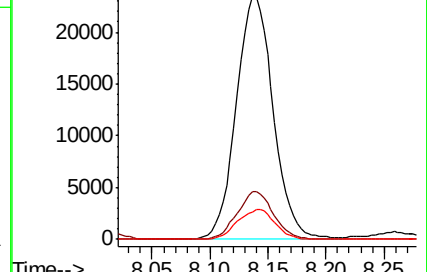
87 12.2 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060856.D (-1979) (-)

Ion 61.00 (60.70 to 61.70): VN060856.D (-1979) (-)

Ion 87.00 (86.70 to 87.70): VN060856.D (-1979) (-)



#45

1,2-Dichloropropane

Concen: 0.246 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060856.D

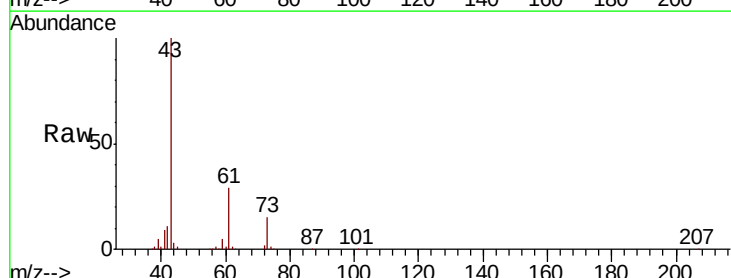
Acq: 6 Apr 2020 17:05

Tgt Ion: 63 Resp: 630

Ion Ratio Lower Upper

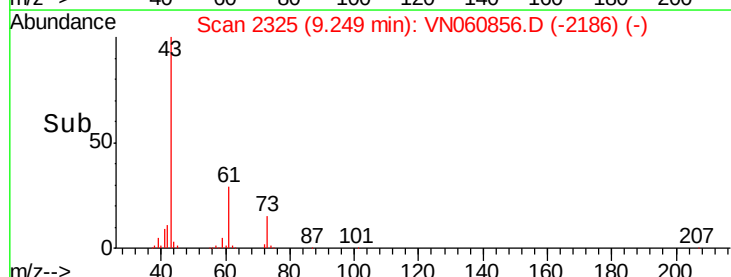
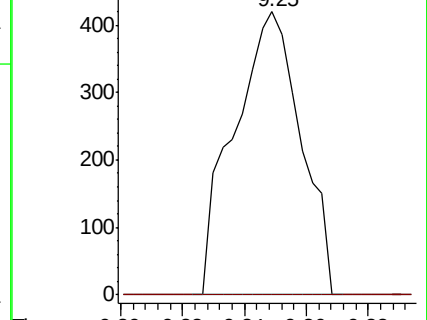
63 100

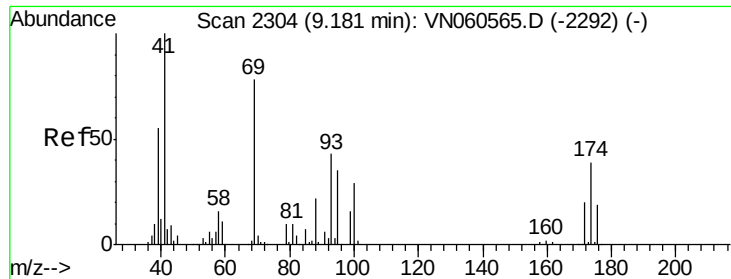
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060856.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060856.D (-2325) (-)

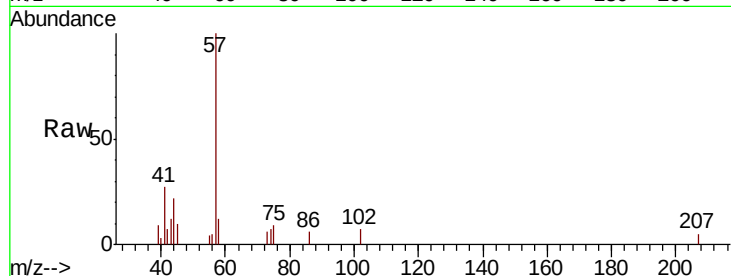




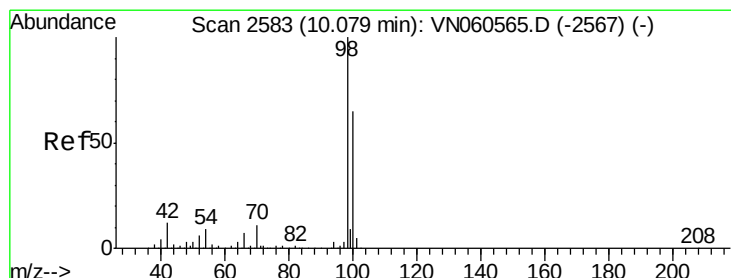
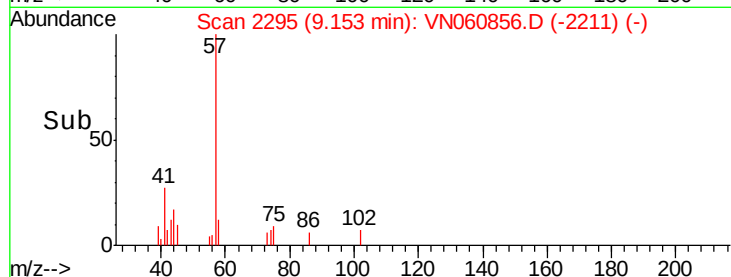
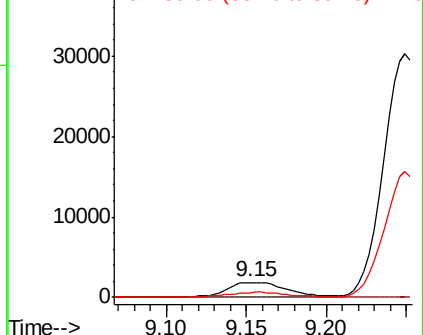
#48
Methvl methacrylate
Concen: 1.879 ug/l
RT: 9.15 min Scan# 2295
Delta R.T. -0.03 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Instrument :
MSVOA_N
ClientSampled :
T-2

Tot Ion: 41 Resp: 4789
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 32.5 44.0 66.0#

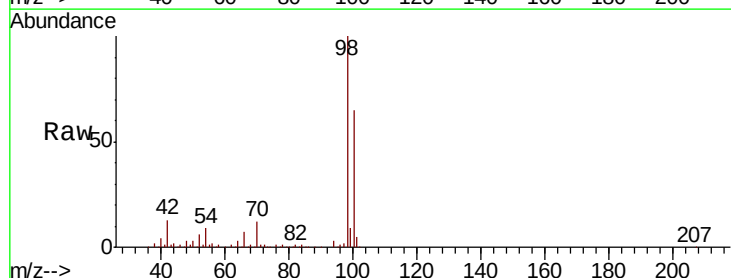


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

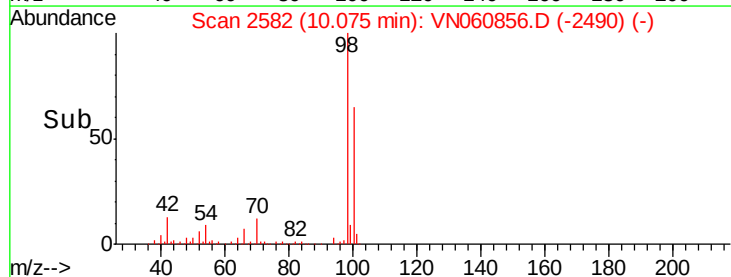
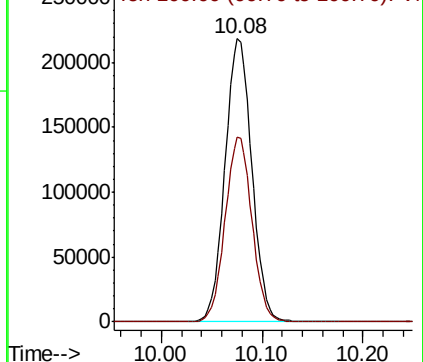


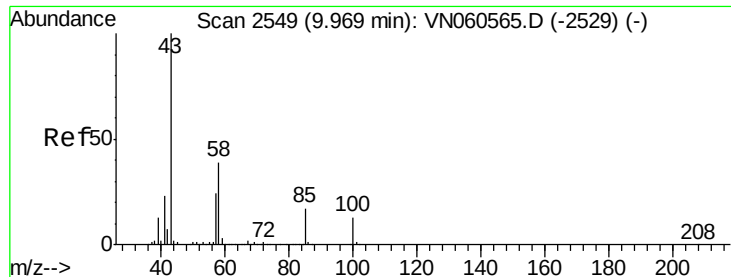
#50
Toluene-d8
Concen: 49.542 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Tgt Ion: 98 Resp: 405978
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

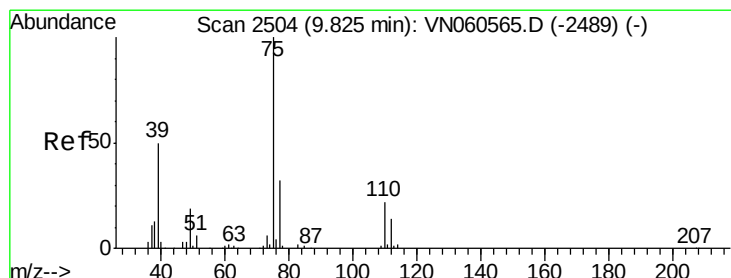
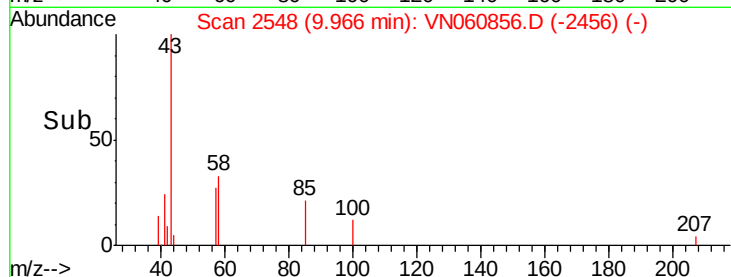
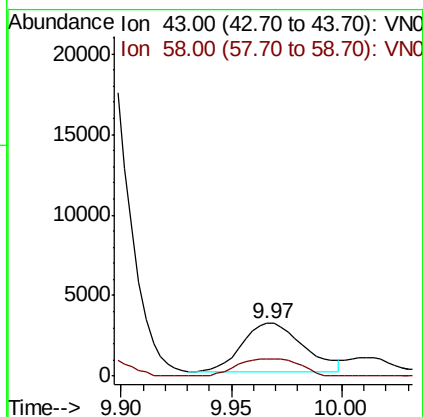
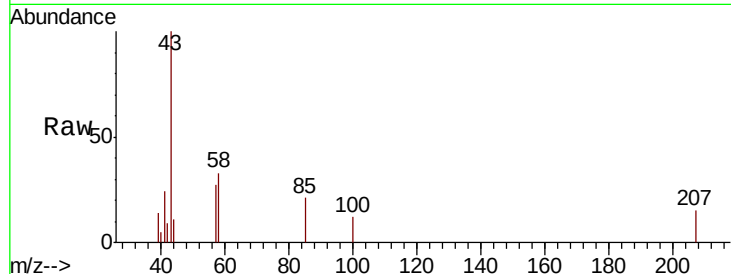




#51
 4-Methyl-2-Pentanone
 Concen: 1.834 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060856.D
 Acq: 6 Apr 2020 17:05

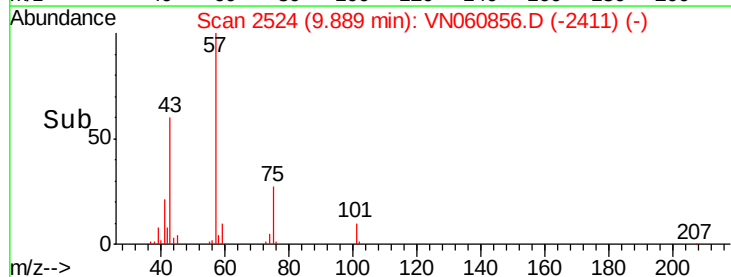
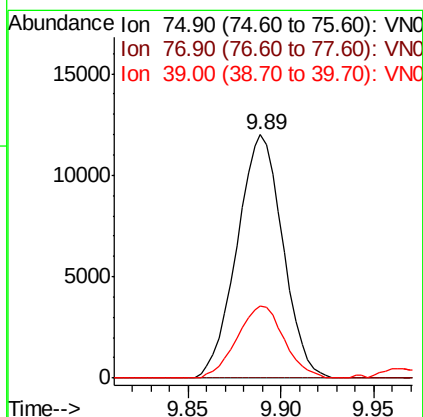
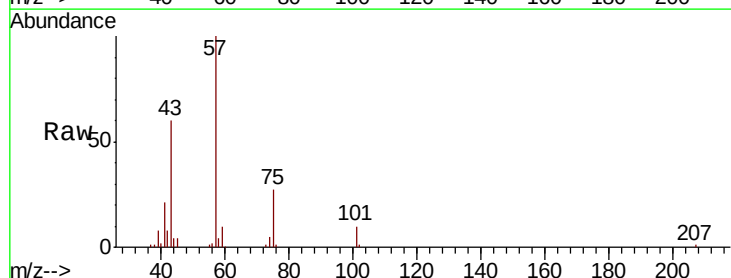
Instrument :
 MSVOA_N
 ClientSampled :
 T-2

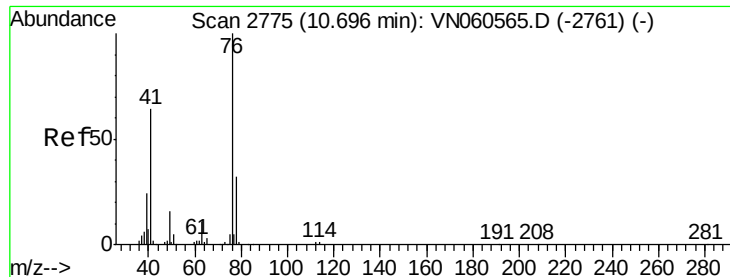
Tot Ion: 43 Resp: 5976
 Ion Ratio Lower Upper
 43 100
 58 35.7 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.082 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060856.D
 Acq: 6 Apr 2020 17:05

Tgt Ion: 75 Resp: 20588
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 29.7 40.2 60.4#

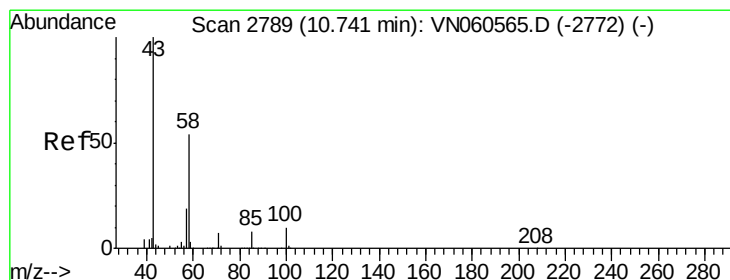
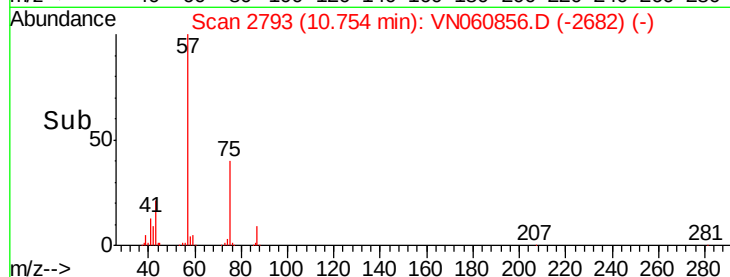
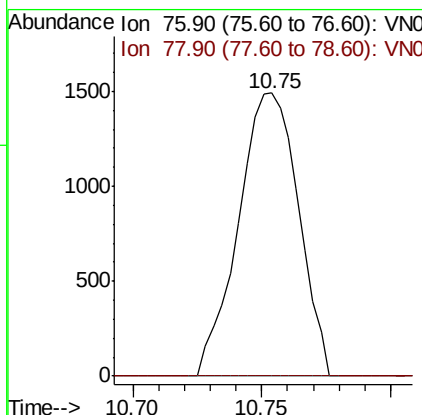
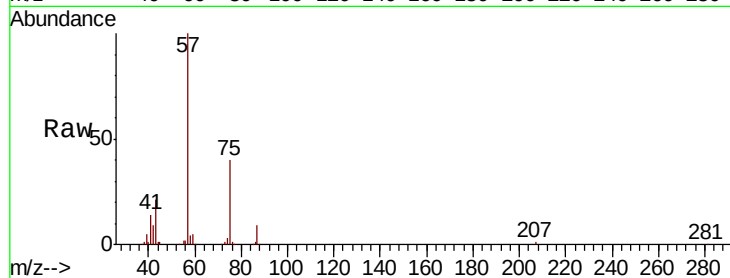




#57
 1,3-Dichloropropane
 Concen: 0.620 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060856.D
 Acq: 6 Apr 2020 17:05

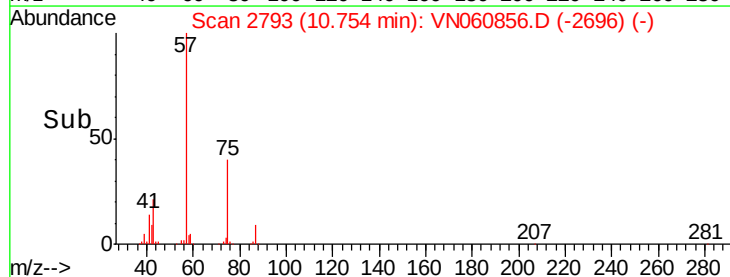
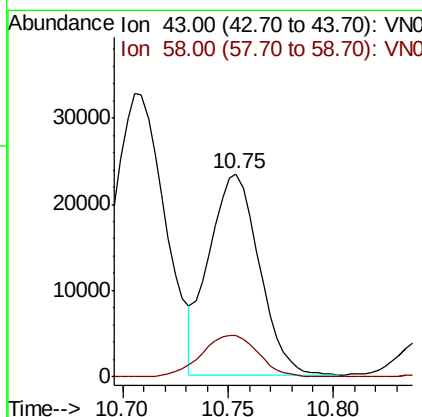
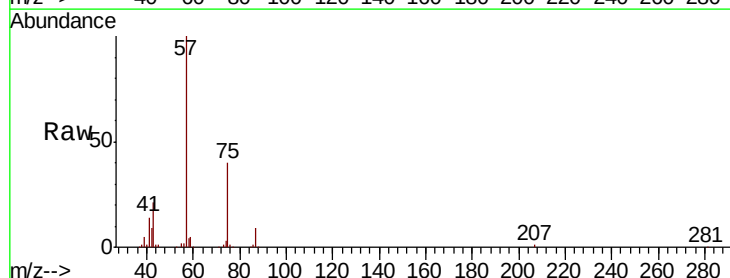
Instrument :
 MSVOA_N
 ClientSampled :
 T-2

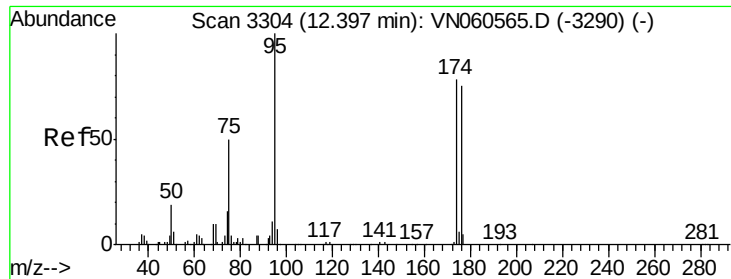
Tot Ion: 76 Resp: 2424
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 16.434 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060856.D
 Acq: 6 Apr 2020 17:05

Tgt Ion: 43 Resp: 38566
 Ion Ratio Lower Upper
 43 100
 58 23.3 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.890 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

T-2

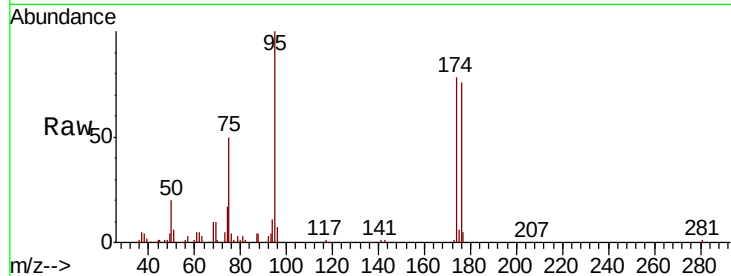
Tot Ion: 95 Resp: 152833

Ion Ratio Lower Upper

95 100

174 78.2 0.0 157.6

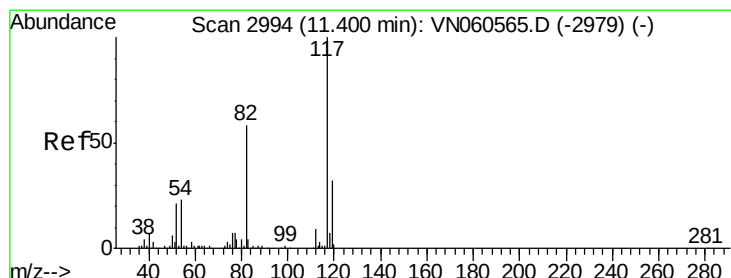
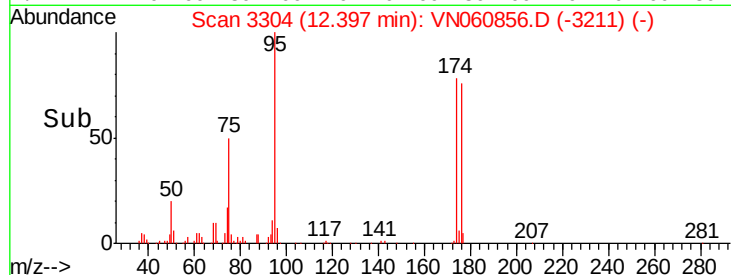
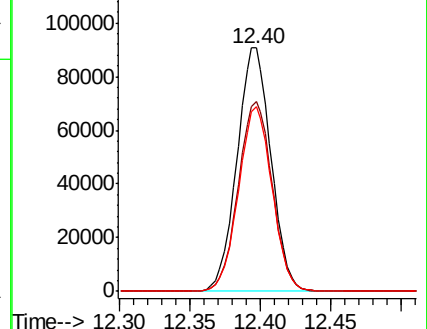
176 75.3 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060856.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060856.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060856.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

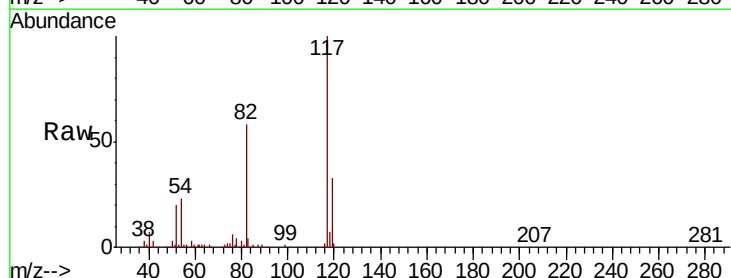
Tgt Ion: 117 Resp: 311236

Ion Ratio Lower Upper

117 100

82 58.1 46.7 70.1

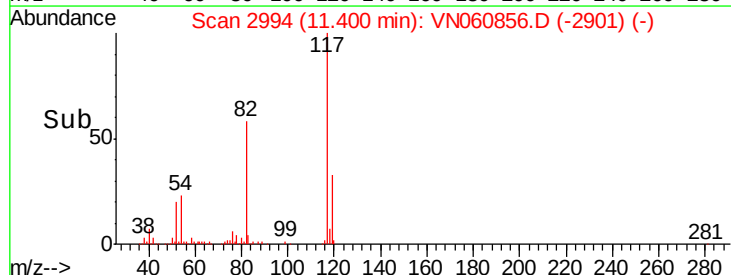
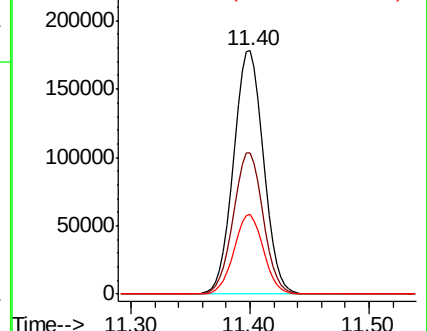
119 32.7 25.5 38.3

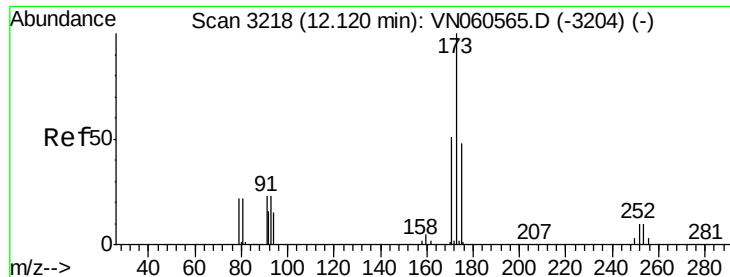


Abundance Ion 116.90 (116.60 to 117.60): VN060856.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060856.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060856.D (-2979) (-)





#71

Bromoform

Concen: 2.065 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :

MSVOA_N

ClientSampled :

T-2

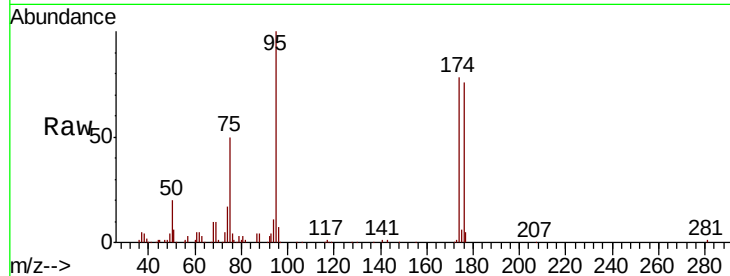
Tot Ion:173 Resp: 739

Ion Ratio Lower Upper

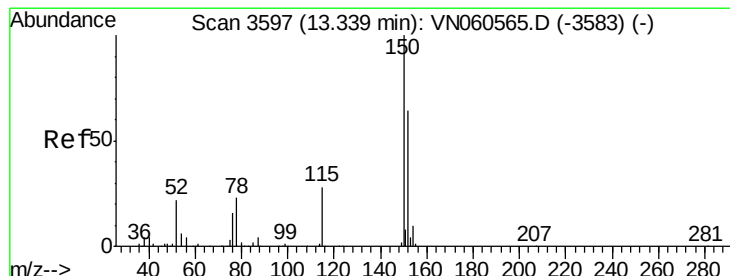
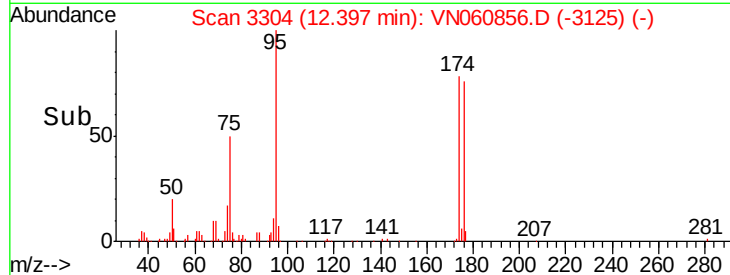
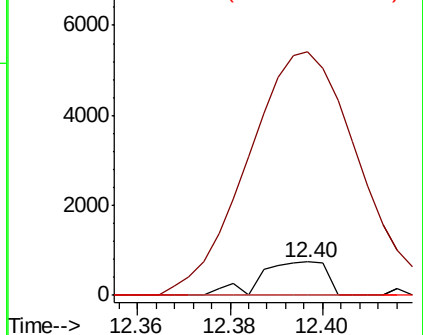
173 100

175 1055.1 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: VN060856.D

Acq: 6 Apr 2020 17:05

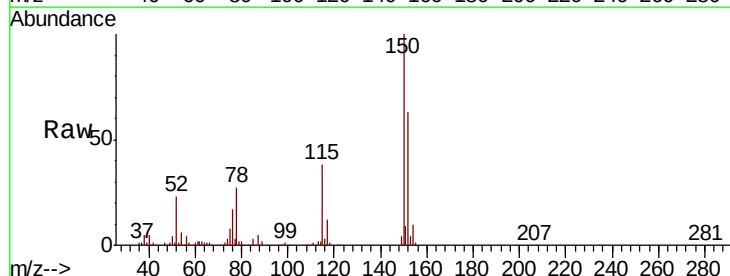
Tgt Ion:152 Resp: 141470

Ion Ratio Lower Upper

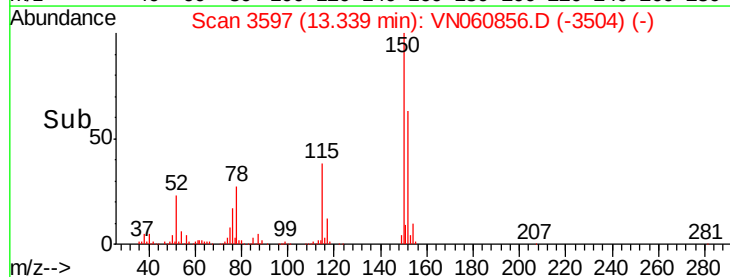
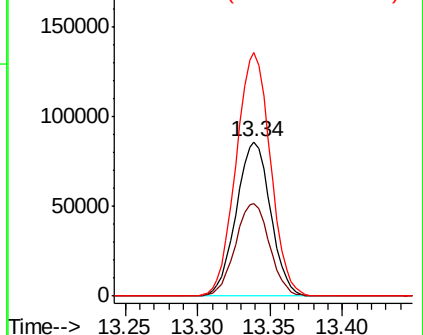
152 100

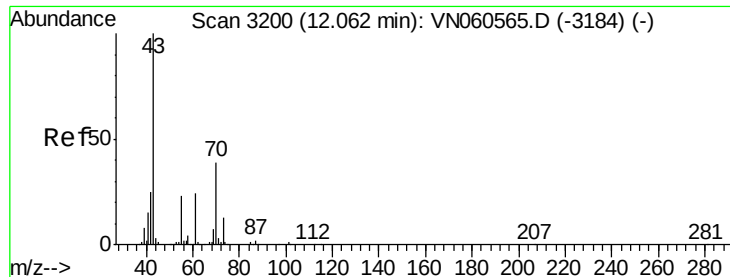
115 60.1 30.2 90.6

150 158.4 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

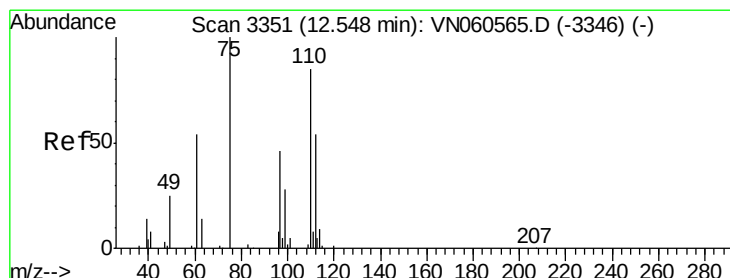
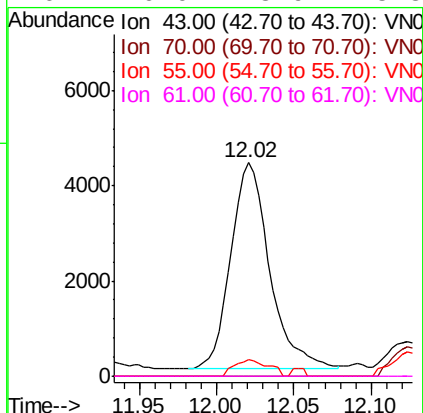
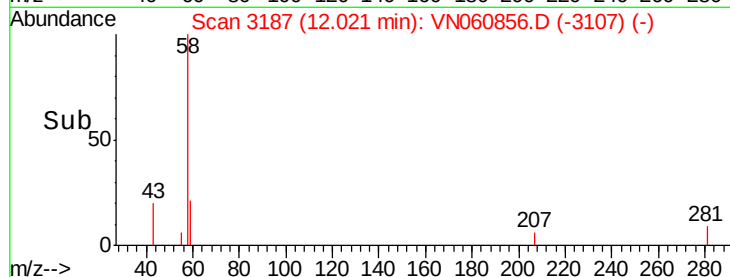
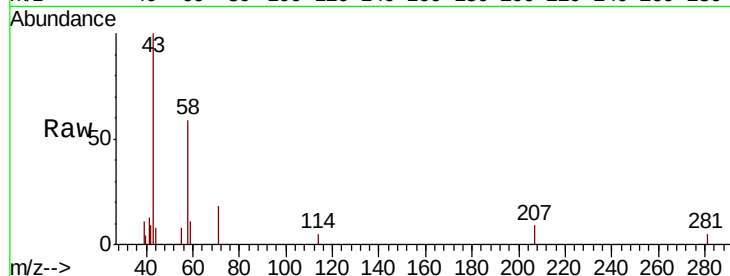




#74
N-amyl acetate
Concen: 1.535 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

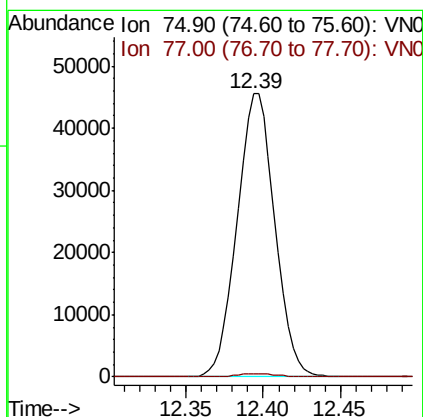
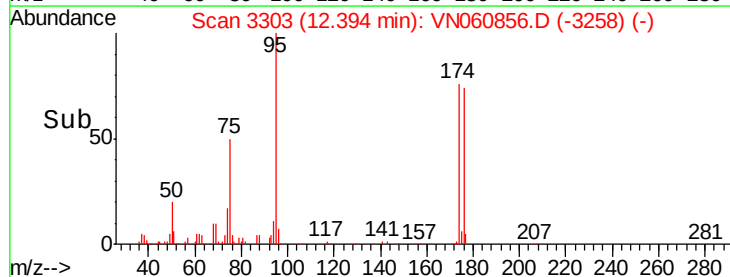
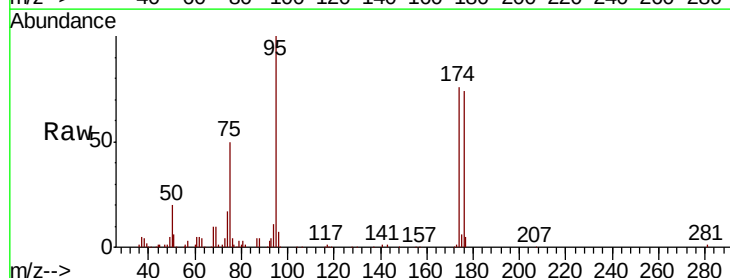
Instrument :
MSVOA_N
ClientSampleId :
T-2

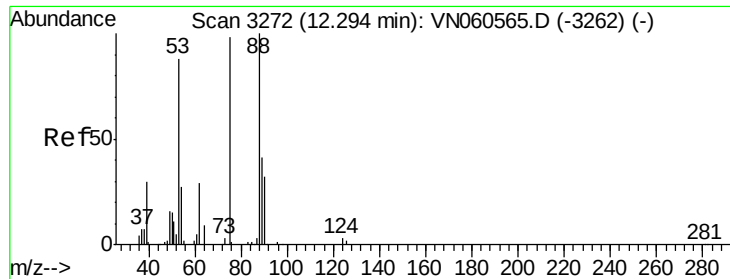
Tot Ion: 43 Resp: 7529
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 7.0 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 25.268 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.15 min
Lab File: VN060856.D
Acq: 6 Apr 2020 17:05

Tgt Ion: 75 Resp: 77135
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 64.897 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060856.D

Acq: 6 Apr 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

T-2

Tot Ion: 75 Resp: 77135

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

