

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060965.D
 Acq On : 15 Apr 2020 16:37
 Operator : JC/MD
 Sample : L2245-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:35:31 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

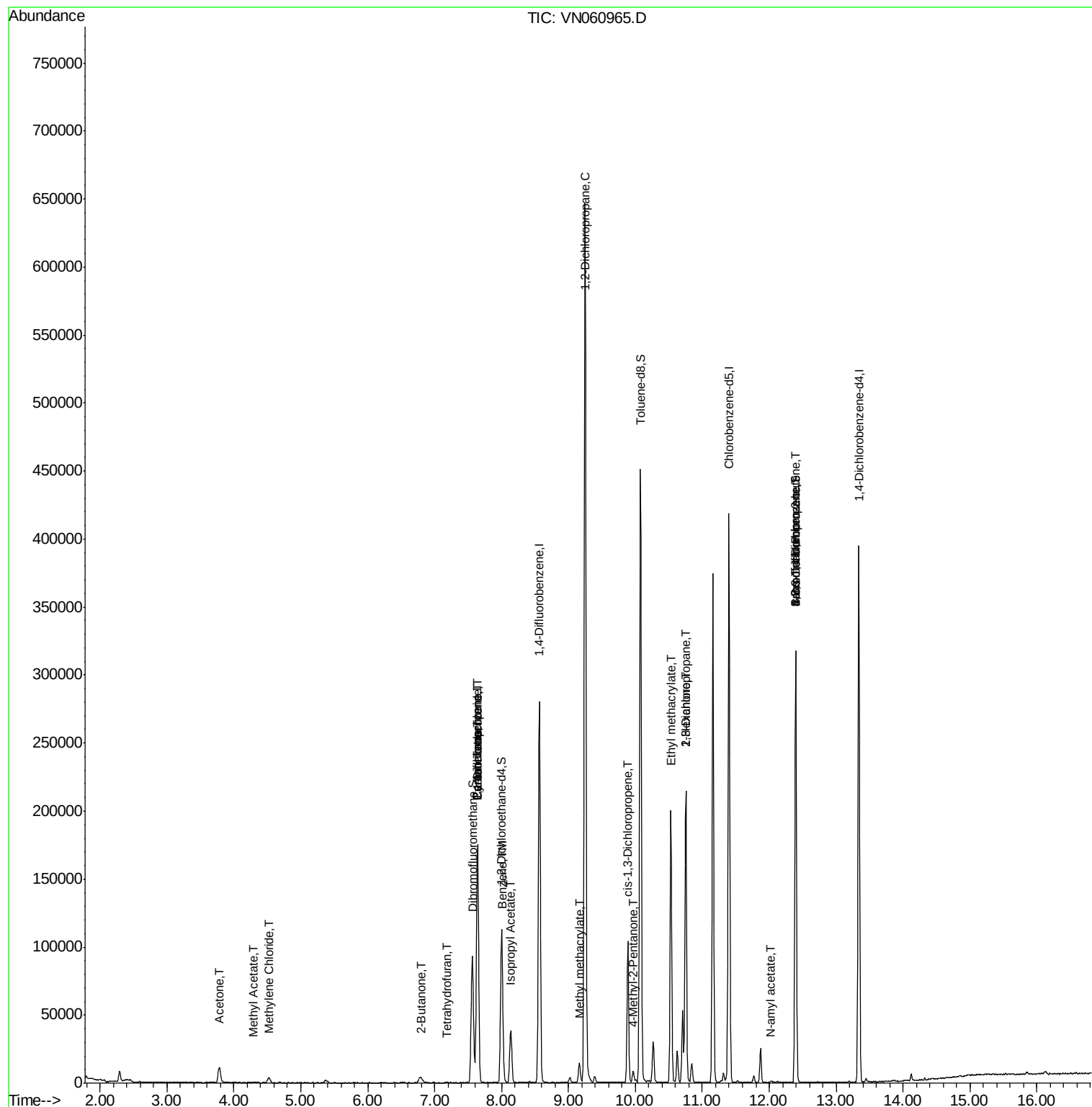
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	142397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	243018	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	230148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	103305	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	96865	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
35) Dibromofluoromethane	7.56	113	72760	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
50) Toluene-d8	10.08	98	304569	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	
62) 4-Bromofluorobenzene	12.40	95	114112	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	21179	30.587	ug/l	95
18) Methyl Acetate	4.29	43	1480	0.759	ug/l #	54
20) Methylene Chloride	4.52	84	3026	1.777	ug/l	95
25) 2-Butanone	6.81	43	6713	5.991	ug/l	95
29) Tetrahydrofuran	7.18	42	231	0.291	ug/l #	35
31) Cyclohexane	7.64	56	2936	0.933	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11483	4.880	ug/l #	46
38) Carbon Tetrachloride	7.64	117	14000	6.638	ug/l #	16
40) Benzene	8.02	78	2586	0.364	ug/l	100
43) Isopropyl Acetate	8.14	43	47272	11.273	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	667	0.356	ug/l #	43
48) Methyl methacrylate	9.15	41	2583	1.384	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5697	2.387	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	17949	6.049	ug/l #	63
56) Ethyl methacrylate	10.53	69	538	0.209	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	2102	0.734	ug/l #	42
59) 2-Hexanone	10.75	43	32198	18.732	ug/l #	52
71) Bromoform	12.40	173	440	1.990	ug/l #	1
74) N-amyl acetate	12.02	43	1198	0.334	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	57758	25.911	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	57758	66.547	ug/l #	13

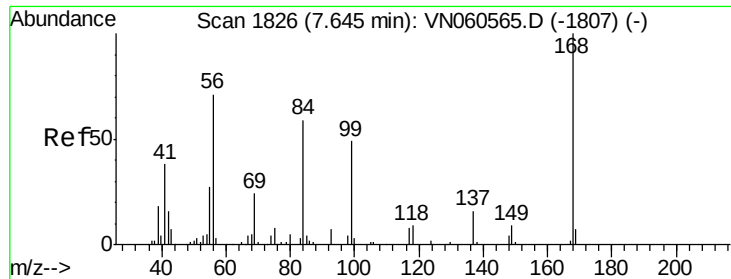
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

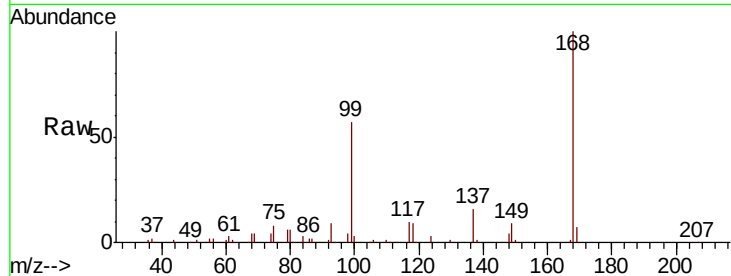
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 142397

Ion Ratio Lower Upper

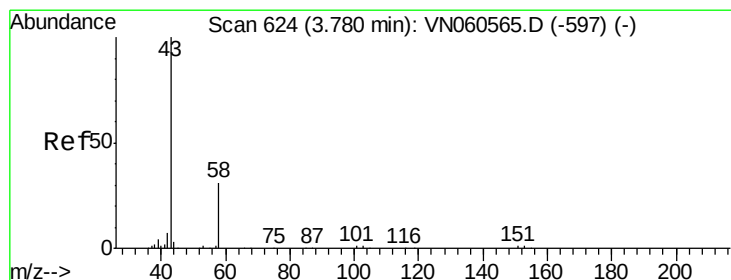
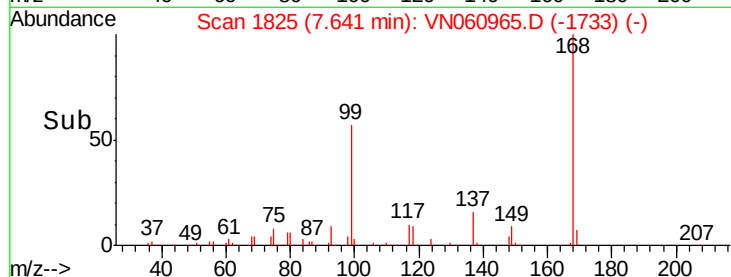
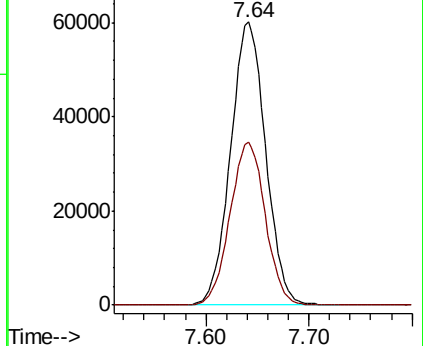
168 100

99 57.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 30.587 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060965.D

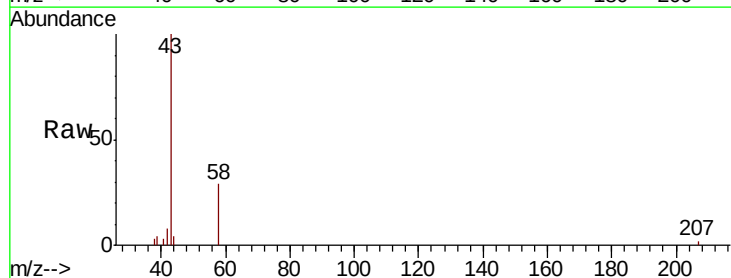
Acq: 15 Apr 2020 16:37

Tgt Ion: 43 Resp: 21179

Ion Ratio Lower Upper

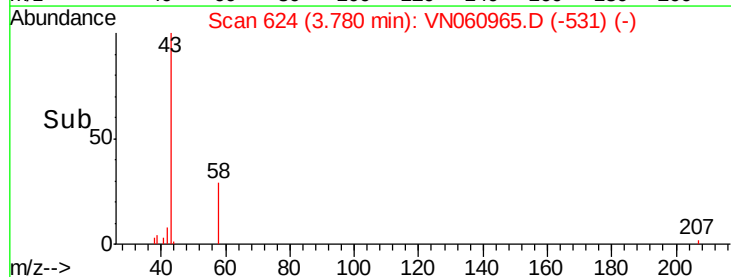
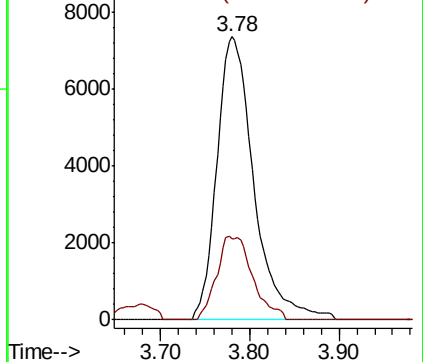
43 100

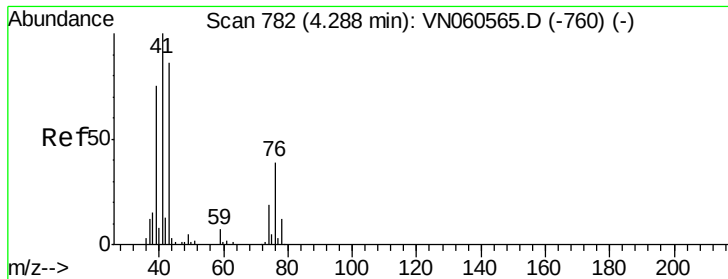
58 28.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

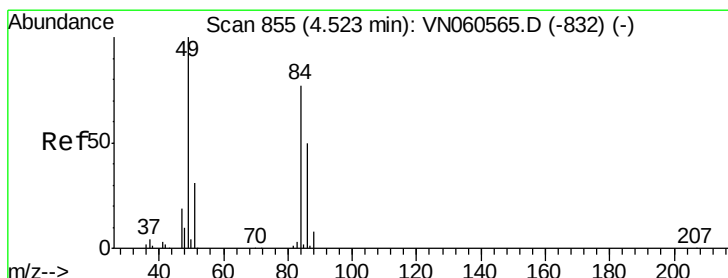
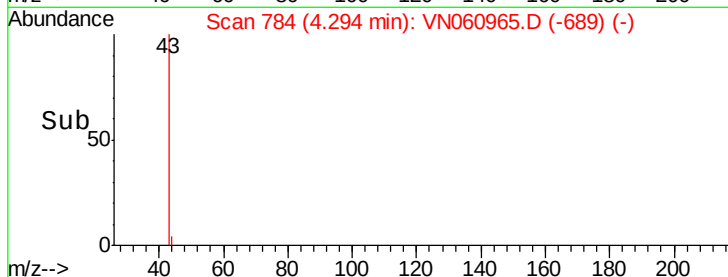
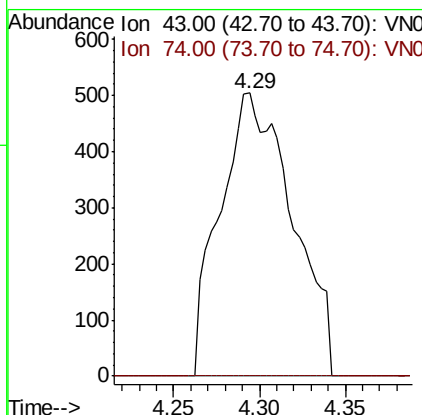
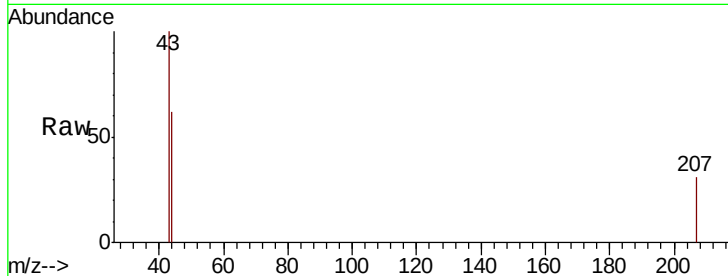




#18
Methyl Acetate
Concen: 0.759 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060965.D
Acq: 15 Apr 2020 16:37

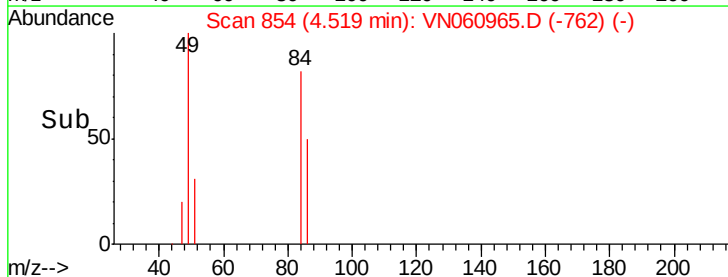
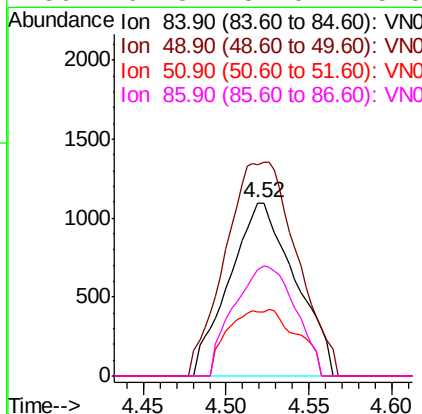
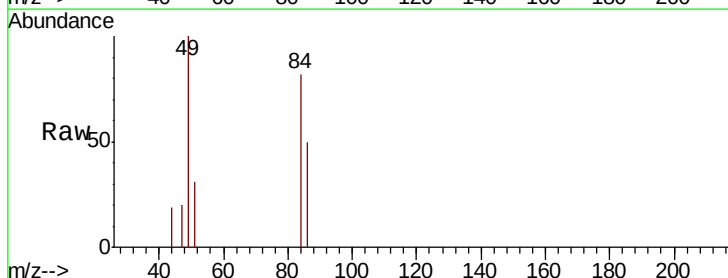
Instrument :
MSVOA_N
ClientSampleId :

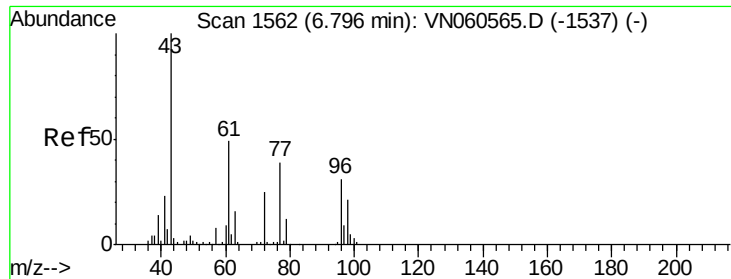
Tot Ion: 43 Resp: 1480
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.777 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060965.D
Acq: 15 Apr 2020 16:37

Tgt Ion: 84 Resp: 3026
Ion Ratio Lower Upper
84 100
49 122.1 103.3 154.9
51 37.3 31.6 47.4
86 61.3 52.0 78.0





#25

2-Butanone

Concen: 5.991 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

Instrument :

MSVOA_N

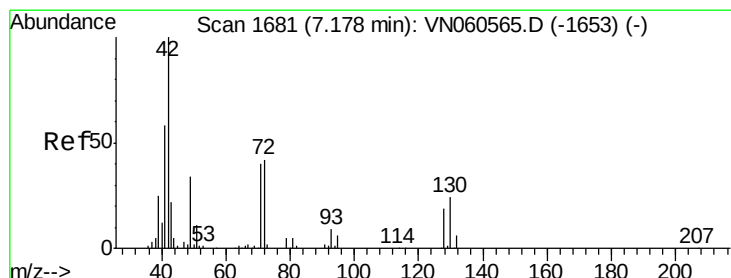
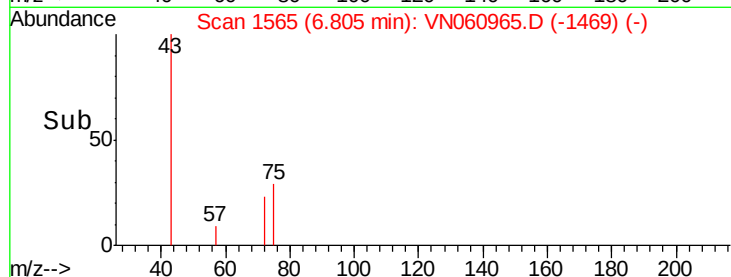
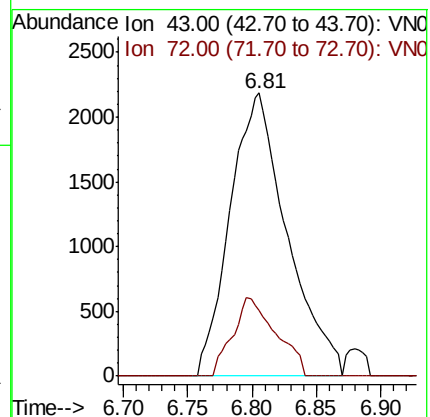
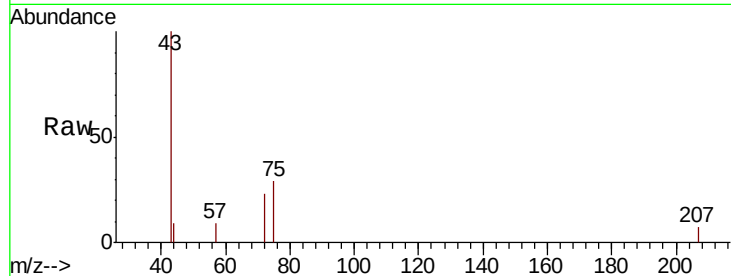
ClientSampleId :

Tot Ion: 43 Resp: 6713

Ion Ratio Lower Upper

43 100

72 23.1 20.4 30.6



#29

Tetrahydrofuran

Concen: 0.291 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

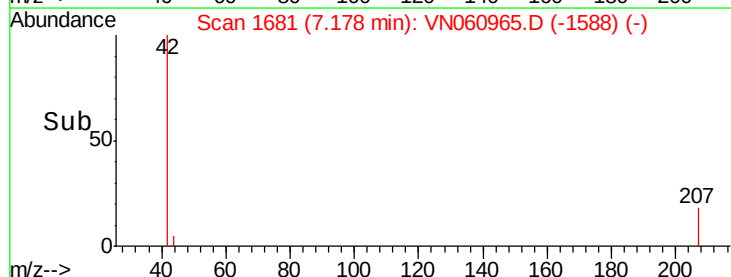
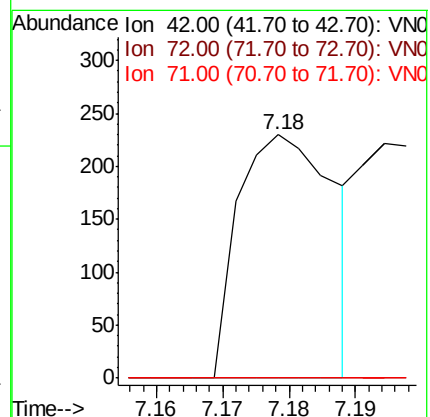
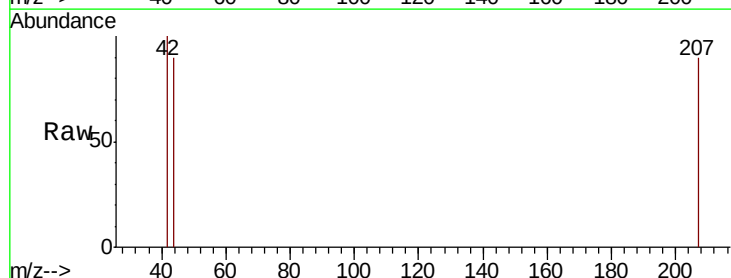
Tgt Ion: 42 Resp: 231

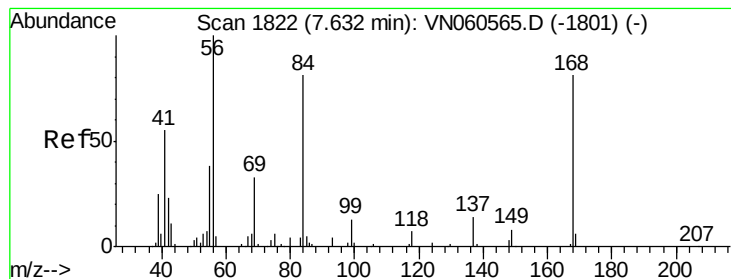
Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 0.933 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

Instrument :

MSVOA_N

ClientSampled :

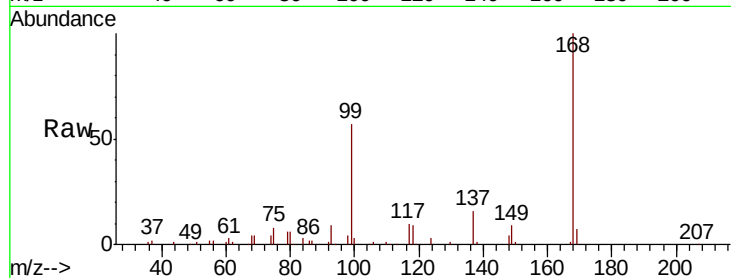
Tot Ion: 56 Resp: 2936

Ion Ratio Lower Upper

56 100

69 180.8 26.6 40.0#

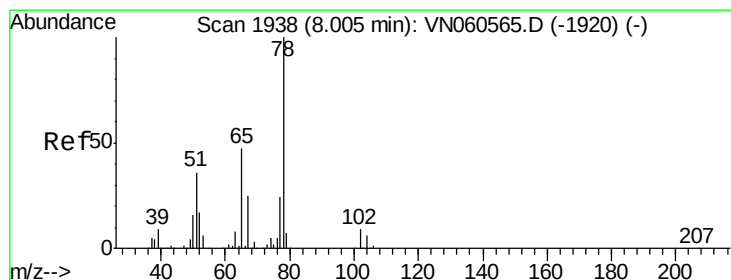
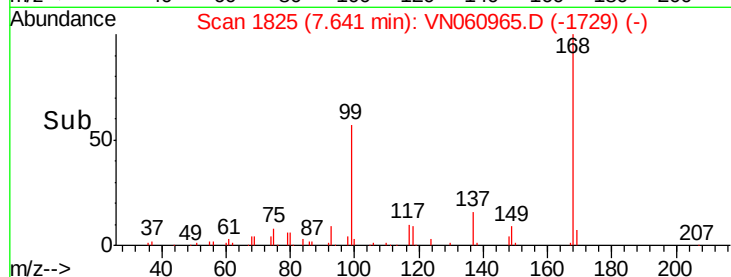
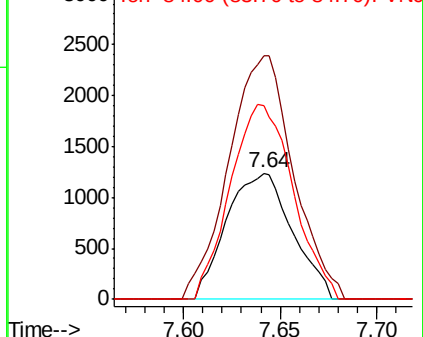
84 153.3 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060965.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN060965.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN060965.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.553 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060965.D

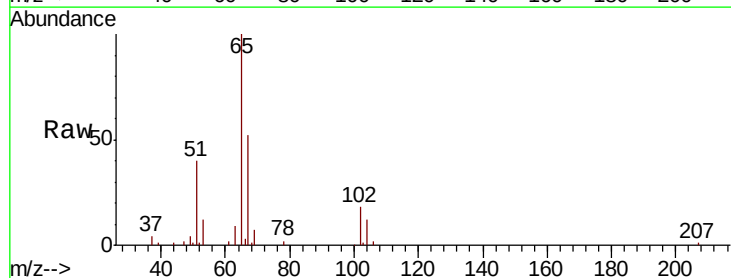
Acq: 15 Apr 2020 16:37

Tgt Ion: 65 Resp: 96865

Ion Ratio Lower Upper

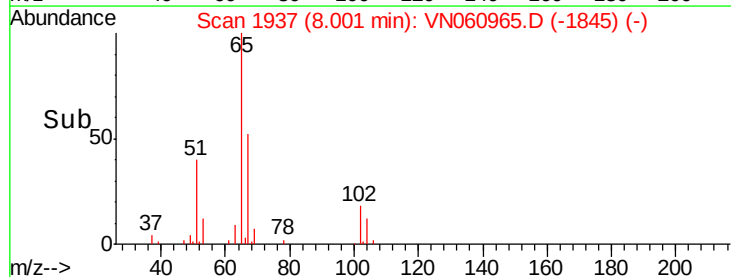
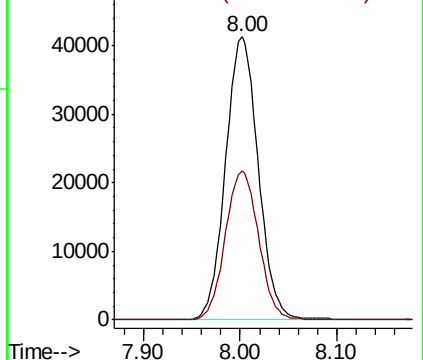
65 100

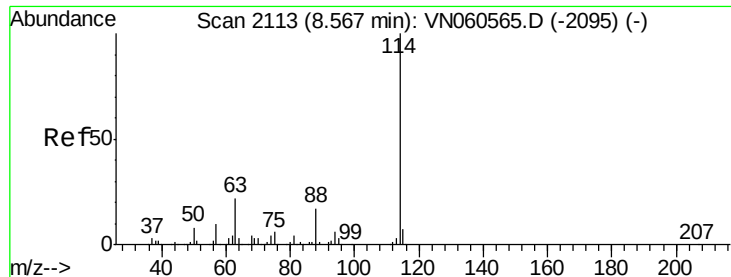
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060965.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060965.D (-1845) (-)

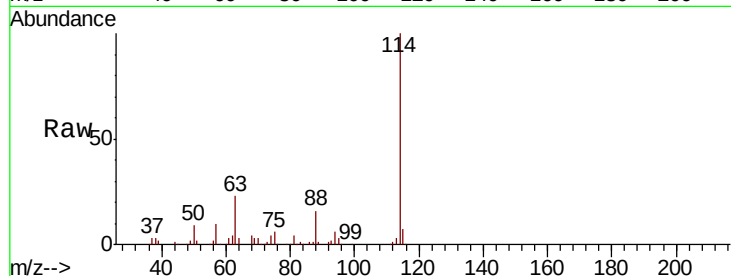




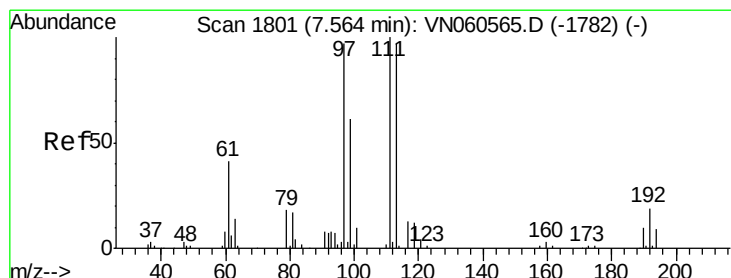
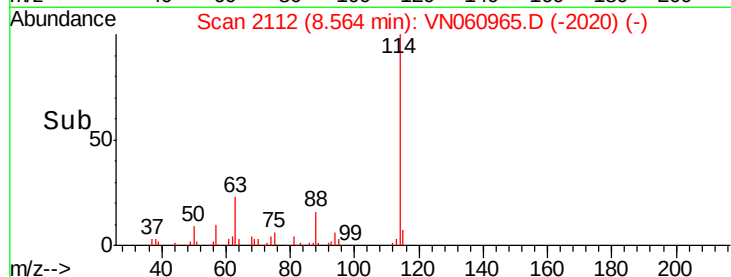
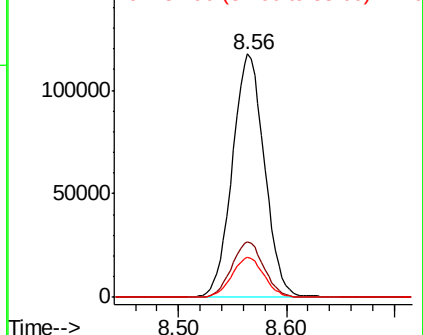
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	43.8
88	16.4	0.0	33.0

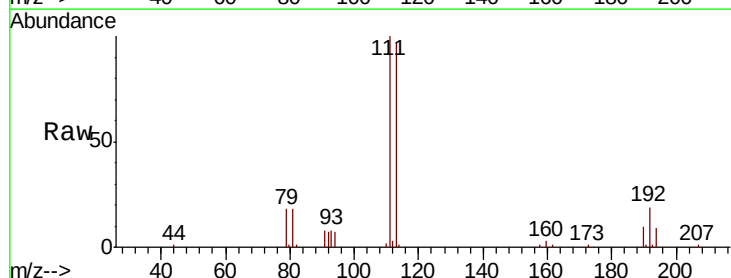


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

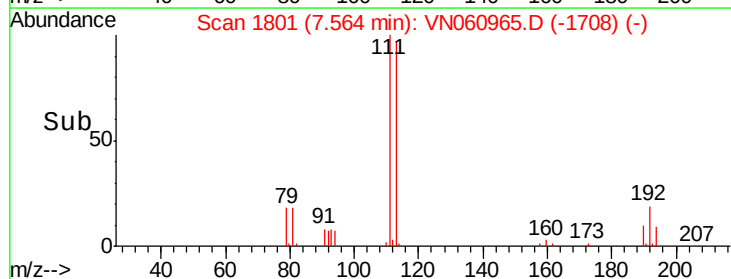
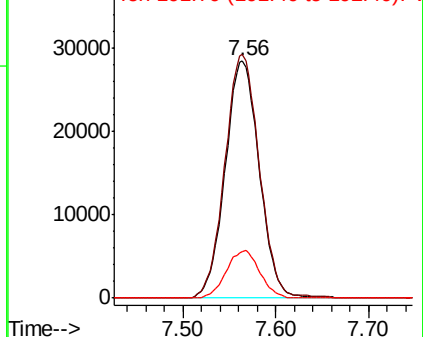


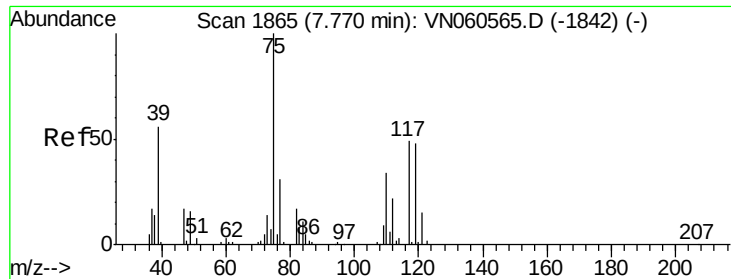
#35
 Dibromofluoromethane
 Concen: 49.515 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	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

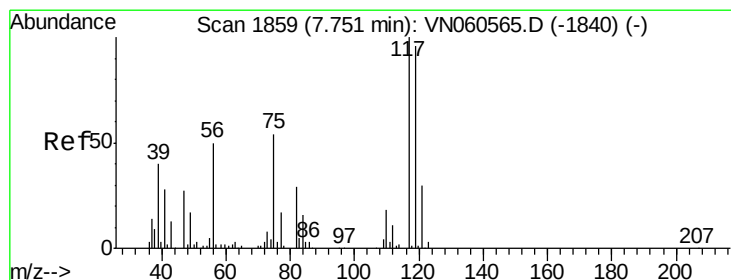
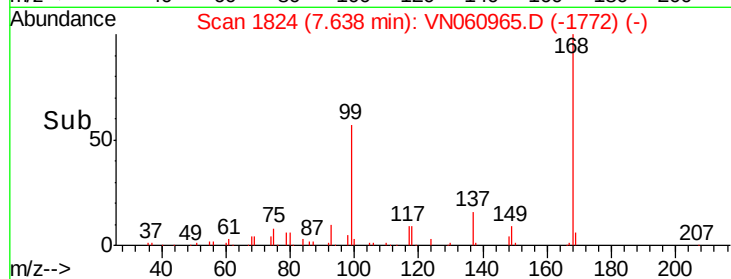
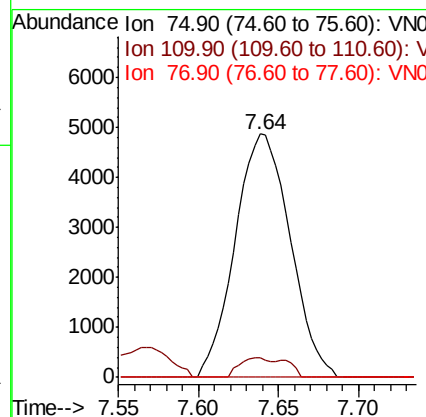
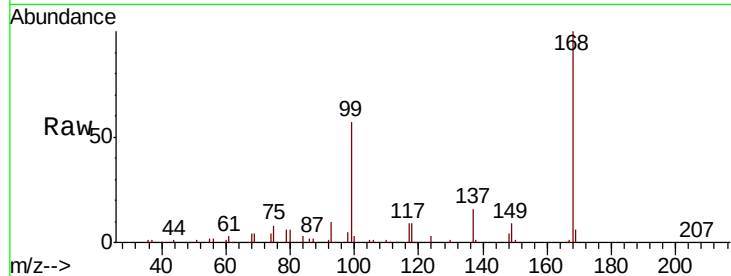




#36
 1,1-Dichloropropene
 Concen: 4.880 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

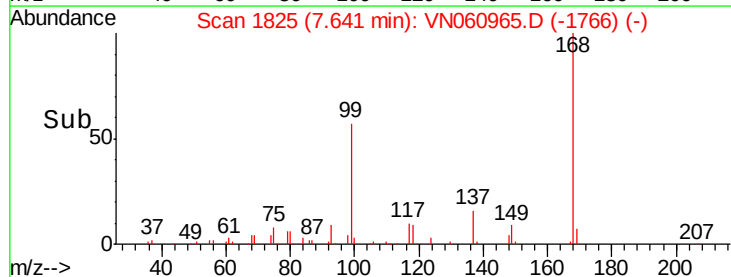
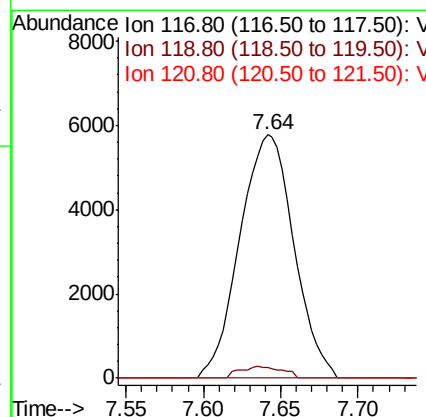
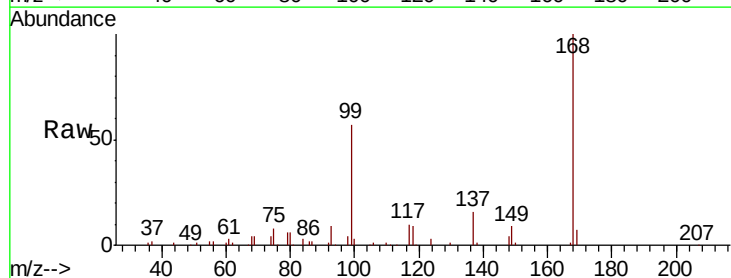
Instrument :
 MSVOA_N
 ClientSampled :

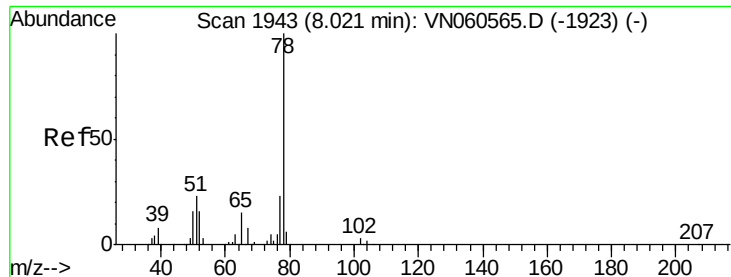
Tot Ion	75	Resp	11483
Ion Ratio	100	Lower	Upper
75	100		
110	4.3	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.638 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Tgt Ion	117	Resp	14000
Ion Ratio	100	Lower	Upper
117	100		
119	4.2	76.2	114.2#
121	0.0	23.7	35.5#





#40

Benzene

Concen: 0.364 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

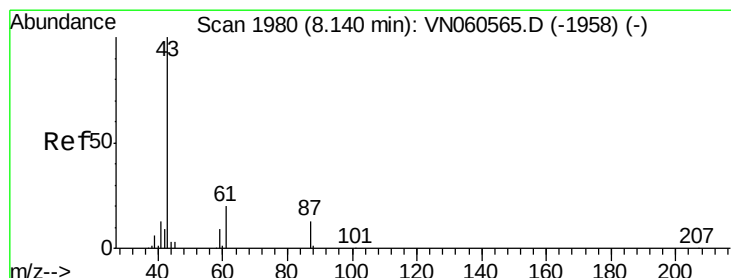
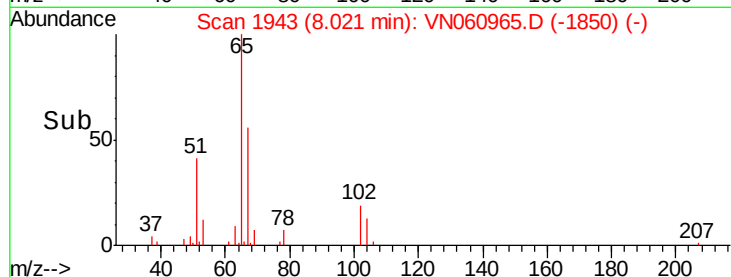
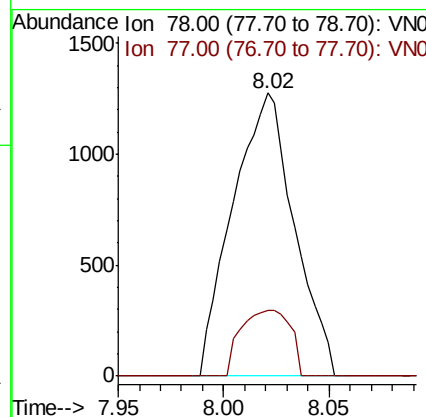
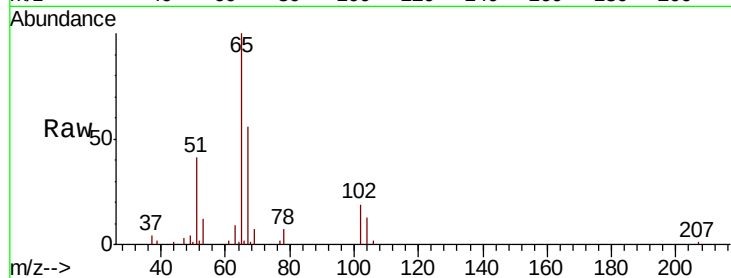
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 78 Resp: 2586

Ion Ratio Lower Upper

78 100

77 23.1 18.6 28.0



#43

Isopropyl Acetate

Concen: 11.273 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

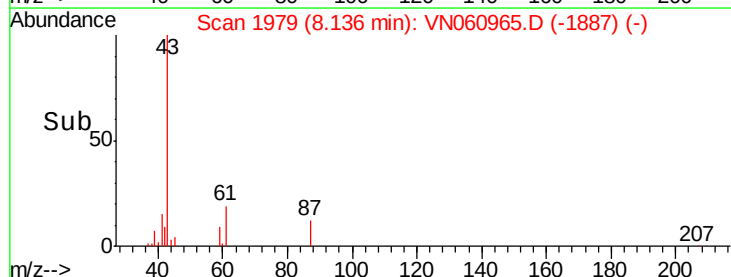
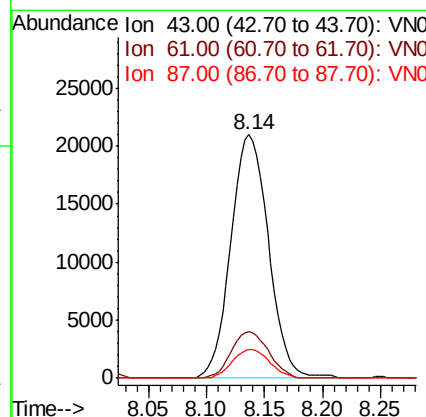
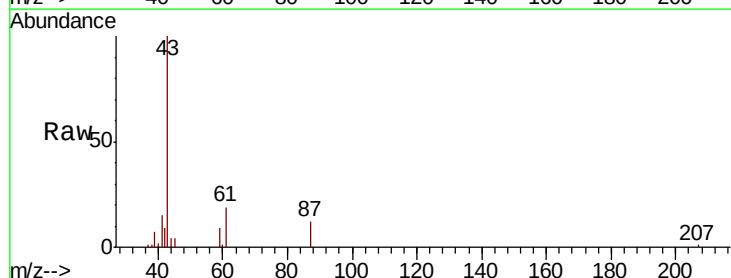
Tgt Ion: 43 Resp: 47272

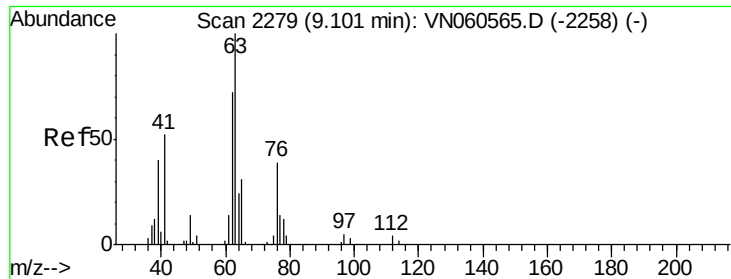
Ion Ratio Lower Upper

43 100

61 18.8 20.7 31.1#

87 11.6 9.8 14.8

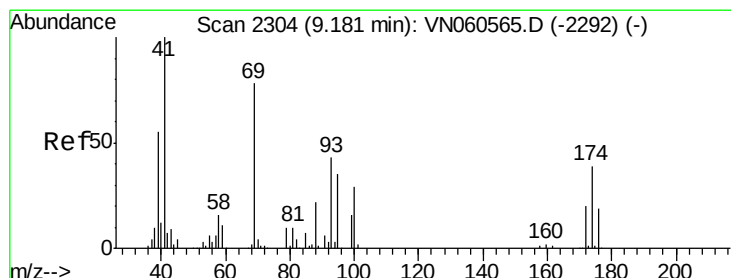
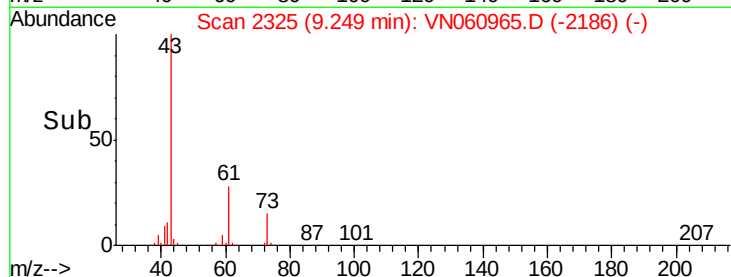
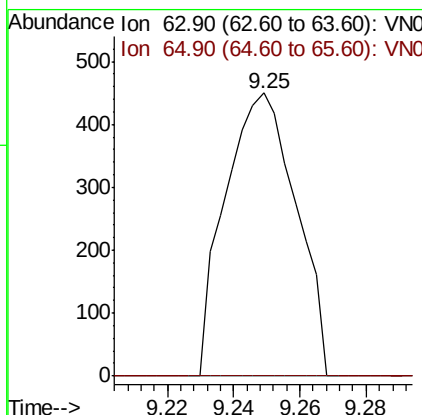
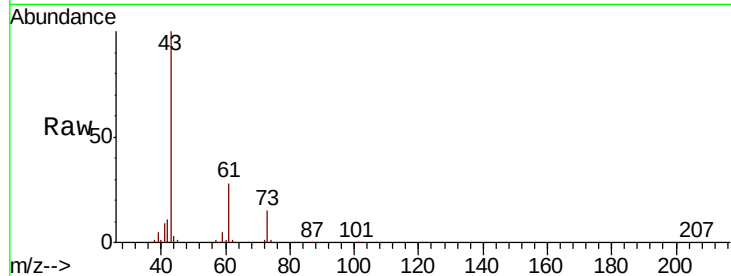




#45
 1,2-Dichloropropane
 Concen: 0.356 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

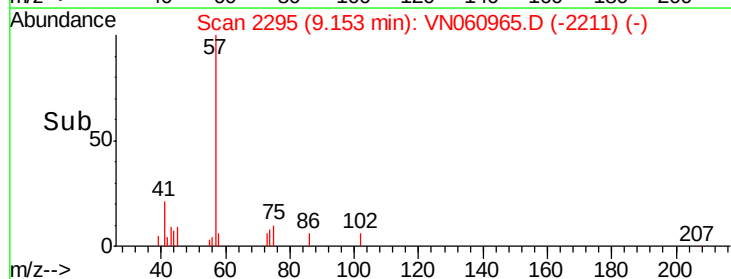
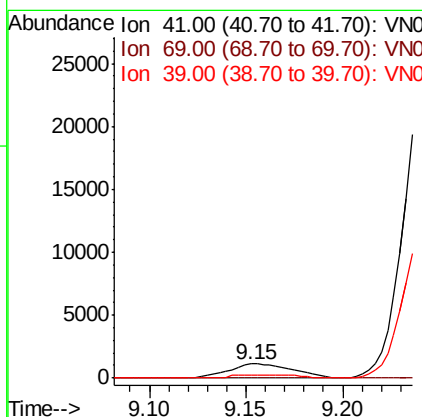
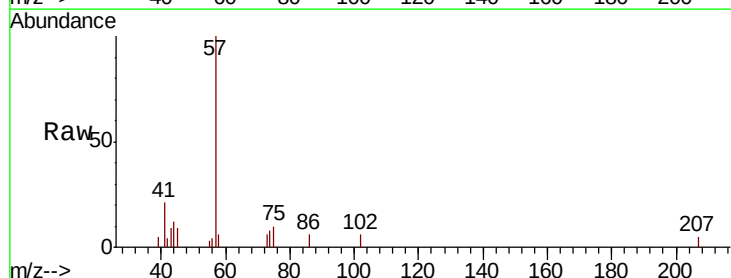
Instrument :
 MSVOA_N
 ClientSampled :

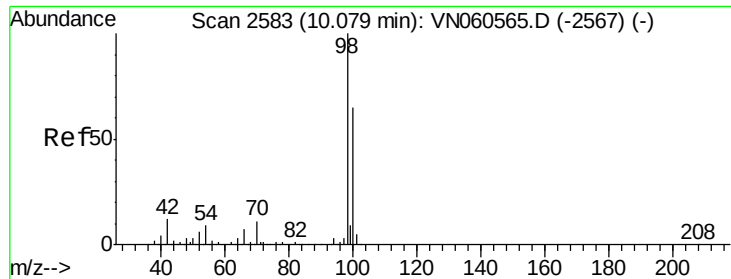
Tot Ion: 63 Resp: 667
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.384 ug/l
 RT: 9.15 min Scan# 2295
 Delta R.T. -0.03 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Tgt Ion: 41 Resp: 2583
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

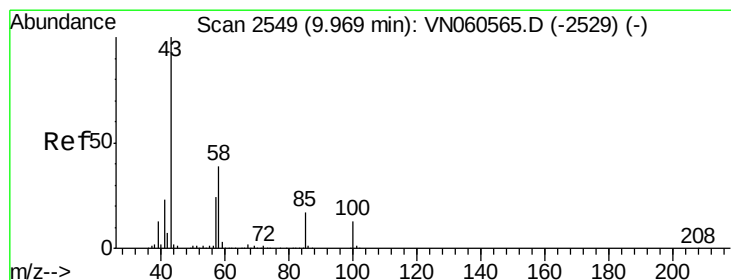
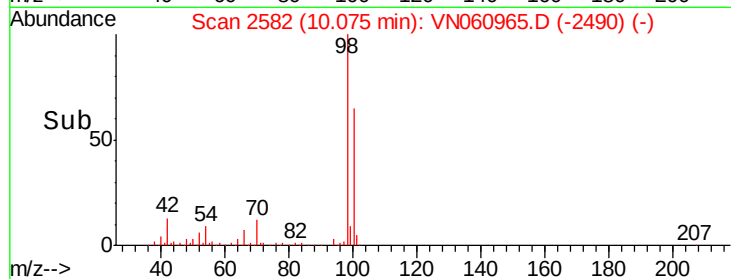
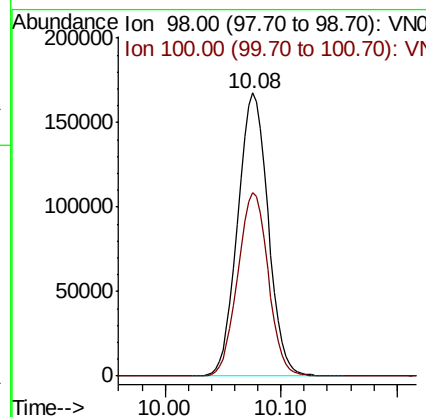
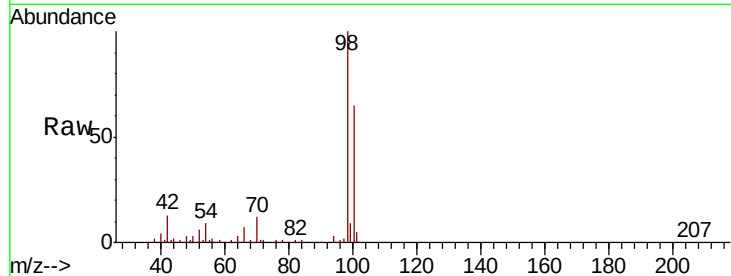




#50
Toluene-d8
Concen: 50.743 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060965.D
Acq: 15 Apr 2020 16:37

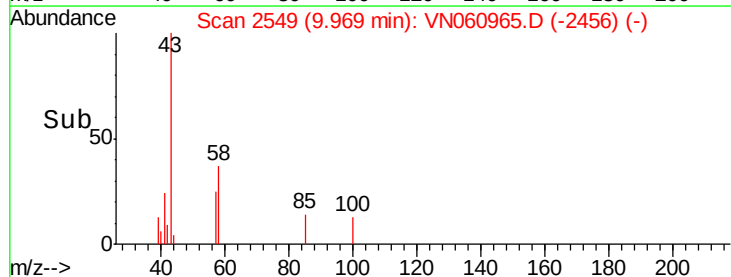
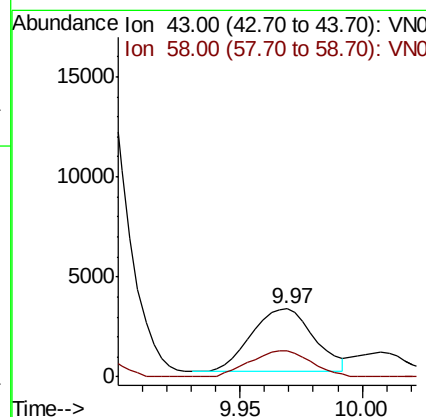
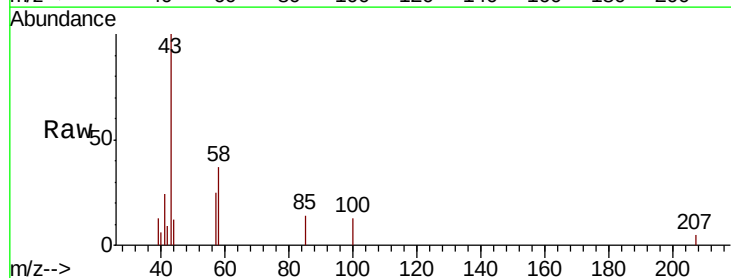
Instrument :
MSVOA_N
ClientSampled :

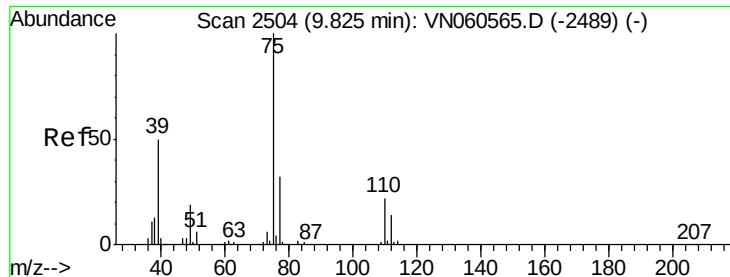
Tot Ion: 98 Resp: 304569
Ion Ratio Lower Upper
98 100
100 65.0 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 2.387 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060965.D
Acq: 15 Apr 2020 16:37

Tgt Ion: 43 Resp: 5697
Ion Ratio Lower Upper
43 100
58 39.7 30.8 46.2



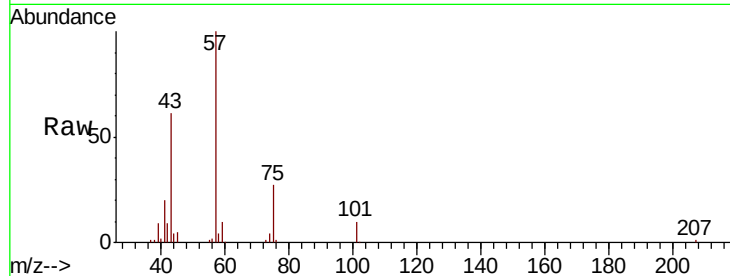


#54

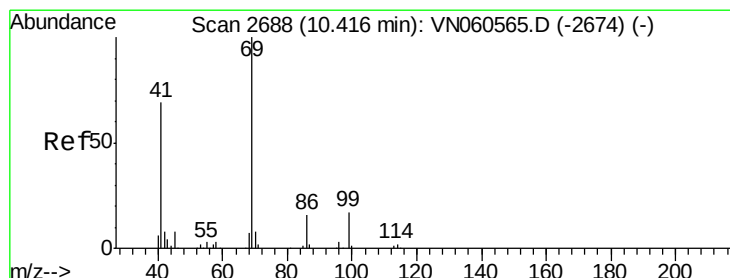
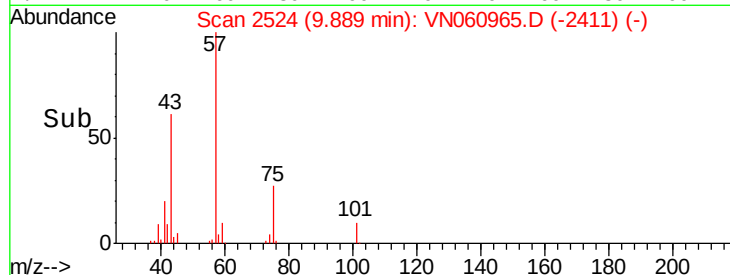
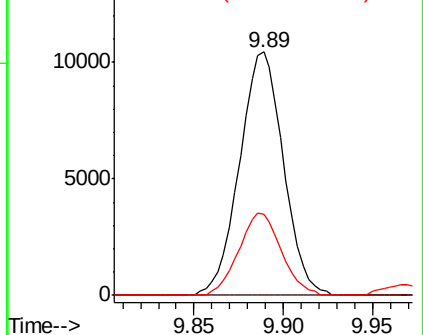
cis-1,3-Dichloropropene
 Concen: 6.049 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.4	38.0#
39	33.3	40.2	60.4#



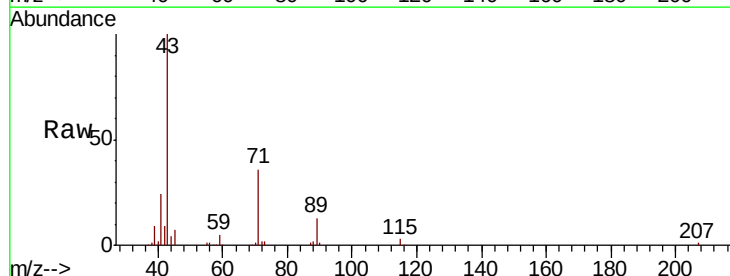
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



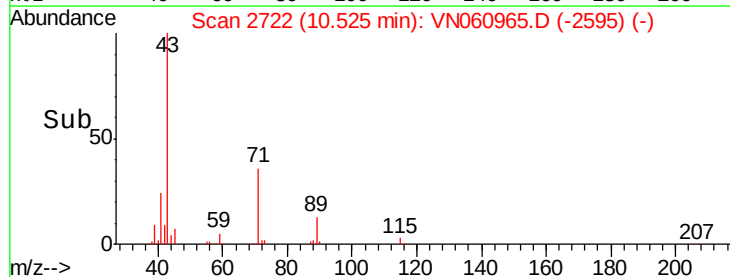
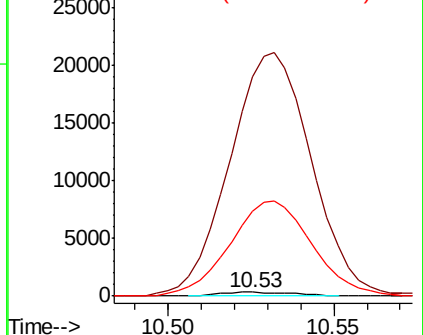
#56

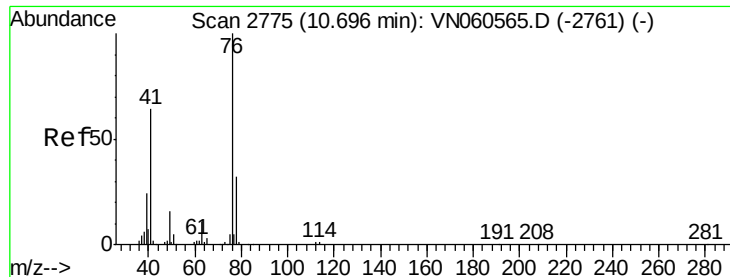
Ethyl methacrylate
 Concen: 0.209 ug/l
 RT: 10.53 min Scan# 2722
 Delta R.T. 0.11 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Tgt Ion	Ratio	Lower	Upper
69	100		
41	6763.6	55.4	83.2#
39	2642.2	29.4	44.0#



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





#57

1,3-Dichloropropane

Concen: 0.734 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

Instrument :

MSVOA_N

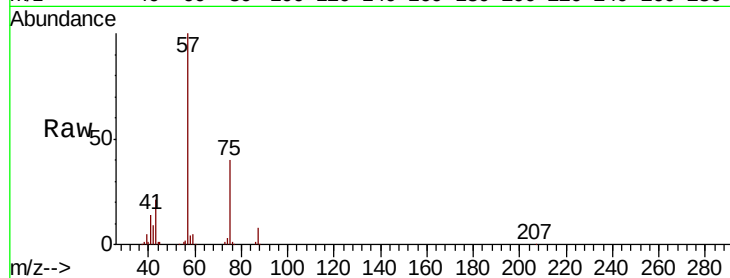
ClientSampleId :

Tot Ion: 76 Resp: 2102

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

10.75

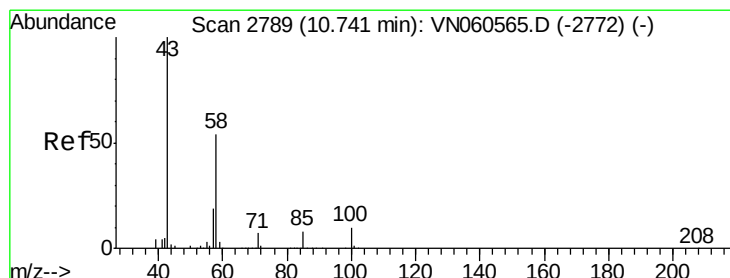
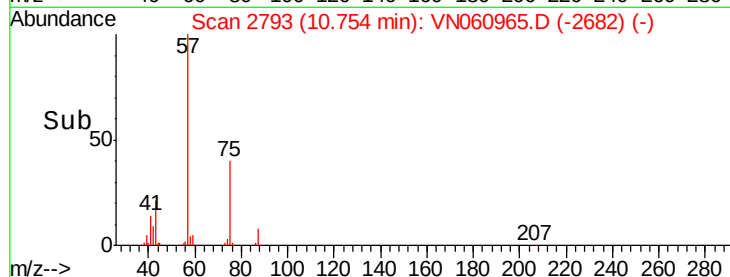
1500

1000

500

0

Time--> 10.70 10.75



#59

2-Hexanone

Concen: 18.732 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN060965.D

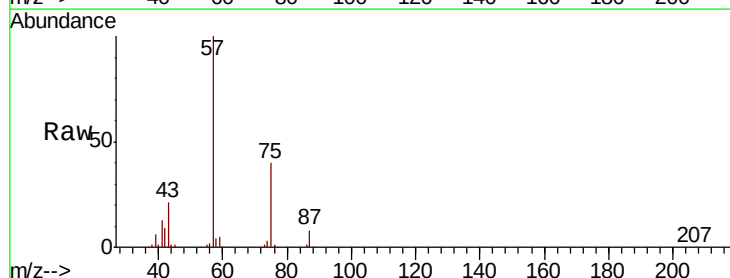
Acq: 15 Apr 2020 16:37

Tgt Ion: 43 Resp: 32198

Ion Ratio Lower Upper

43 100

58 19.1 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

30000

25000

20000

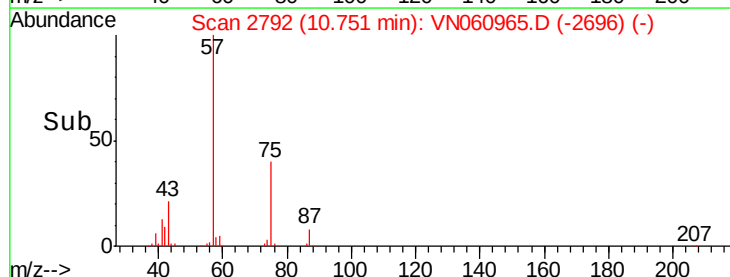
15000

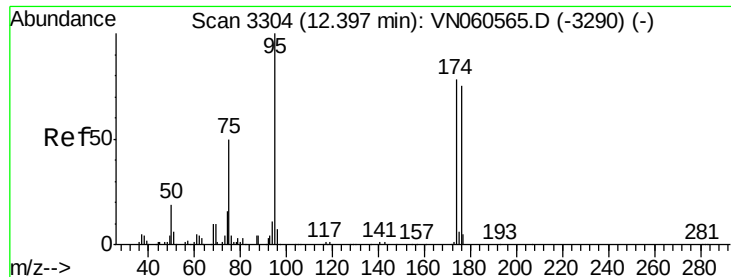
10000

5000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 51.876 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

Instrument :

MSVOA_N

ClientSampled :

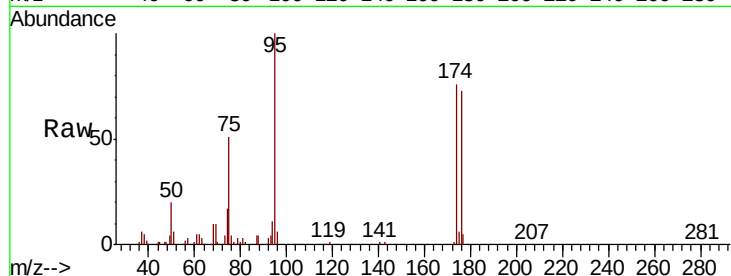
Tot Ion: 95 Resp: 114112

Ion Ratio Lower Upper

95 100

174 76.0 0.0 157.6

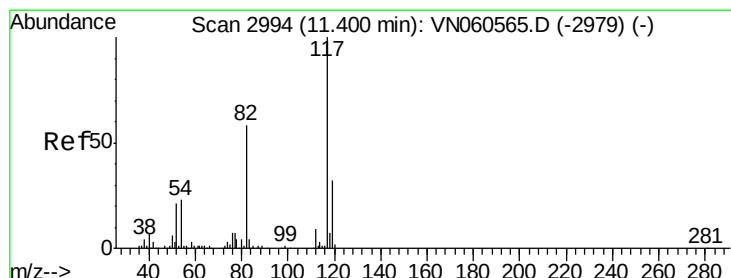
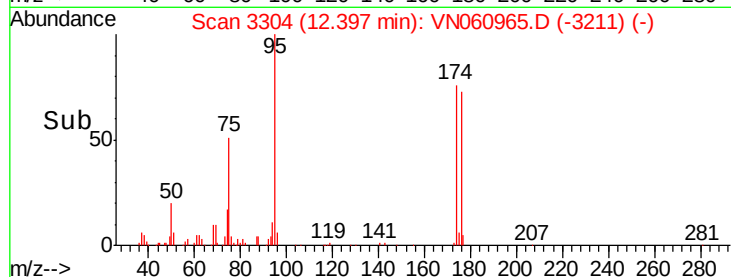
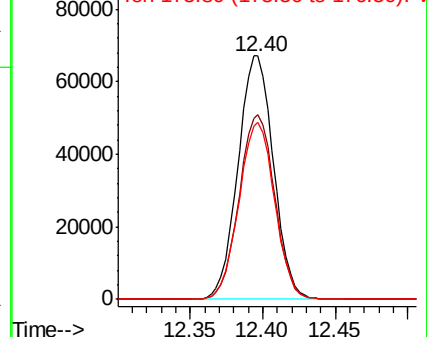
176 73.1 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060965.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060965.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060965.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. -0.00 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

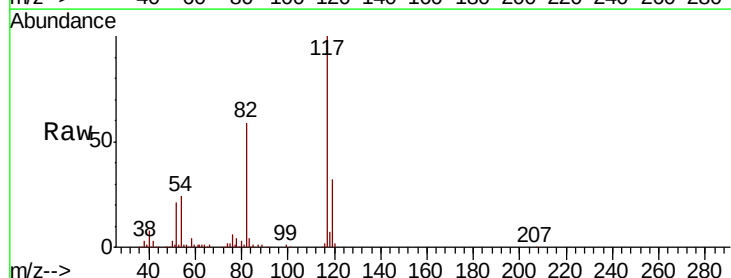
Tgt Ion: 117 Resp: 230148

Ion Ratio Lower Upper

117 100

82 59.3 46.7 70.1

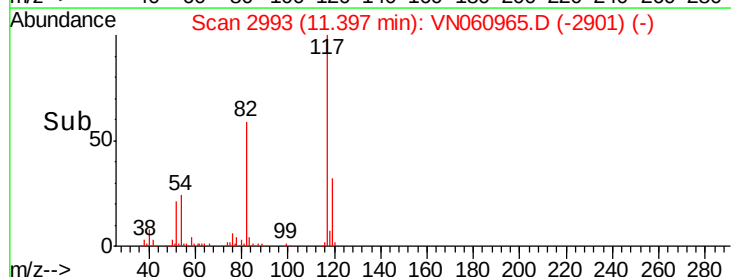
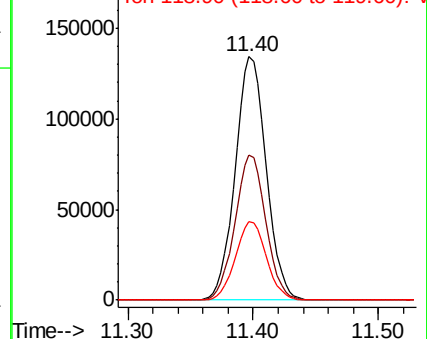
119 32.0 25.5 38.3

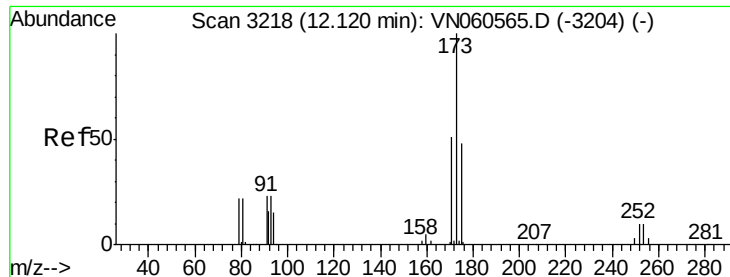


Abundance Ion 116.90 (116.60 to 117.60): VN060965.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060965.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060965.D (-2979) (-)





#71

Bromoform

Concen: 1.990 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

Instrument :

MSVOA_N

ClientSampled :

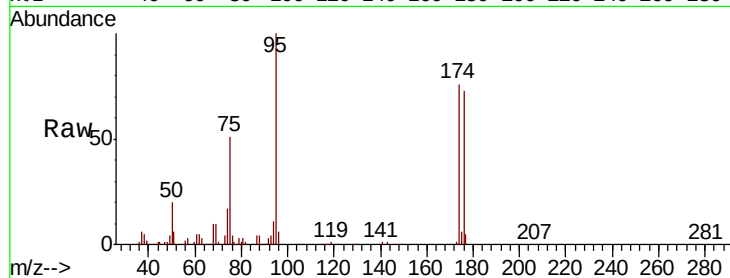
Tot Ion:173 Resp: 440

Ion Ratio Lower Upper

173 100

175 1275.9 24.1 72.4#

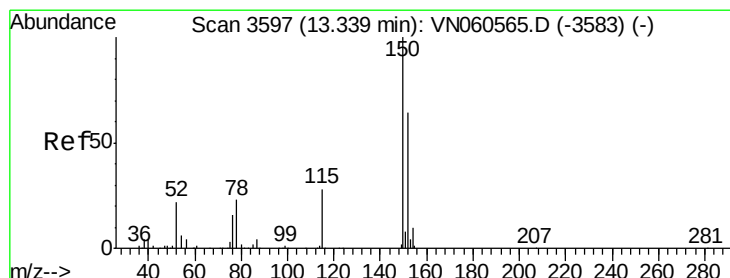
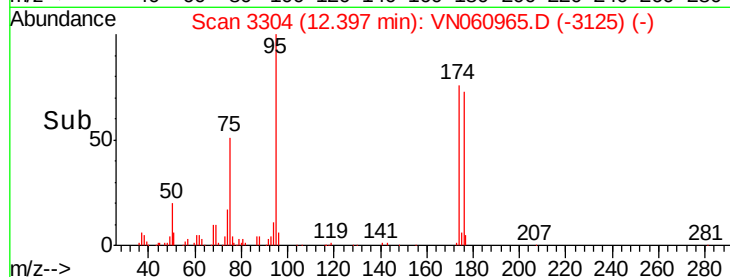
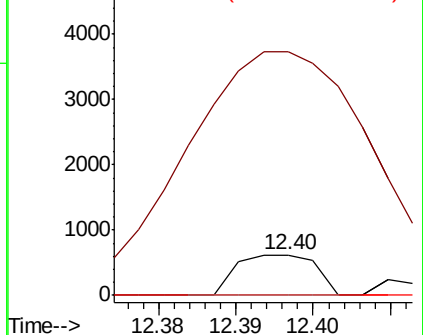
254 0.0 0.0 0.0



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: VN060965.D

Acq: 15 Apr 2020 16:37

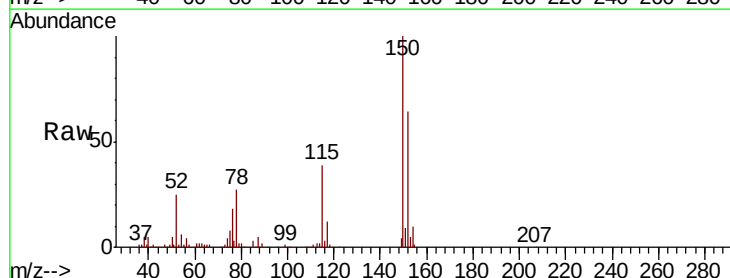
Tgt Ion:152 Resp: 103305

Ion Ratio Lower Upper

152 100

115 60.7 30.2 90.6

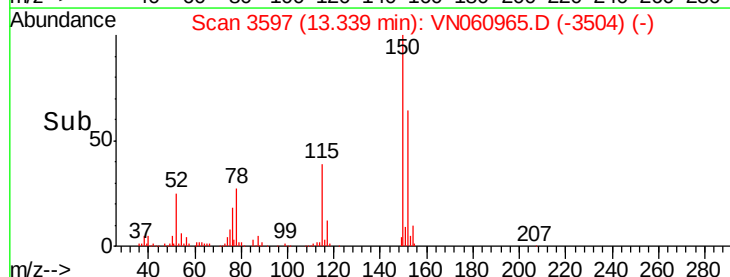
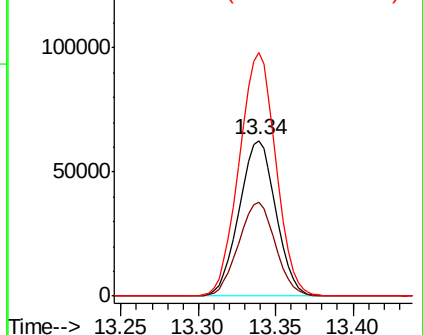
150 156.9 0.0 350.2

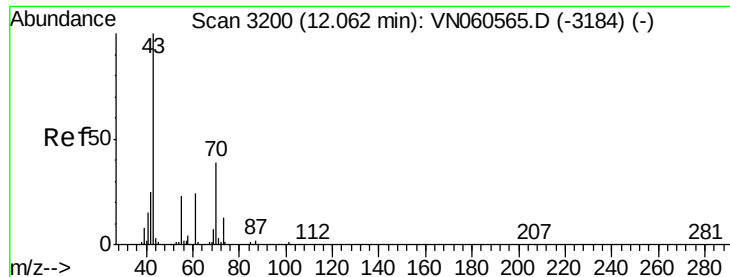


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.334 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.05 min

Lab File: VN060965.D

Acq: 15 Apr 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1198

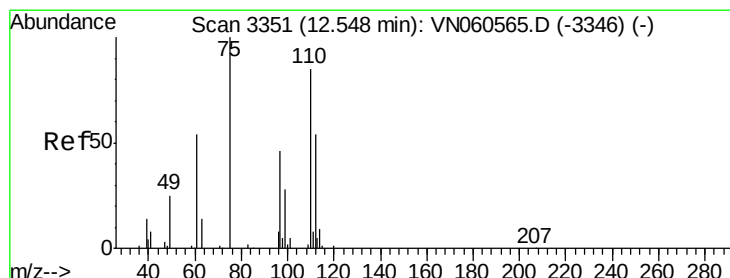
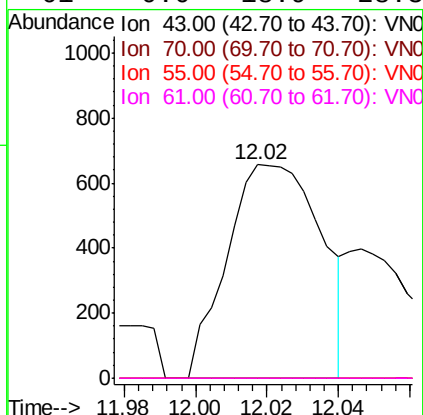
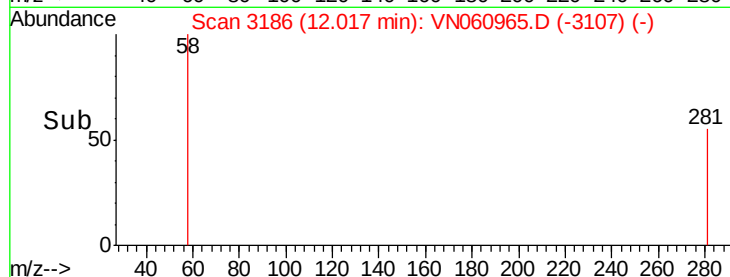
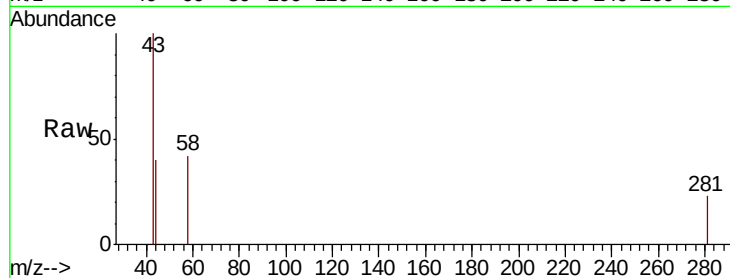
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#



#76

1,2,3-Trichloropropane

Concen: 25.911 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060965.D

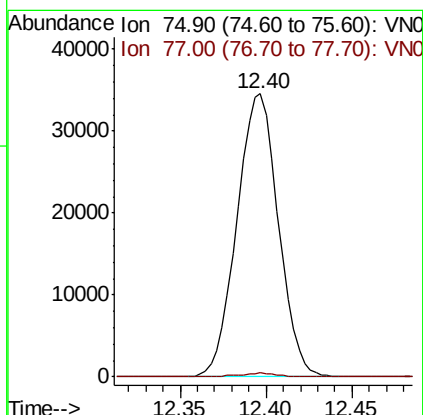
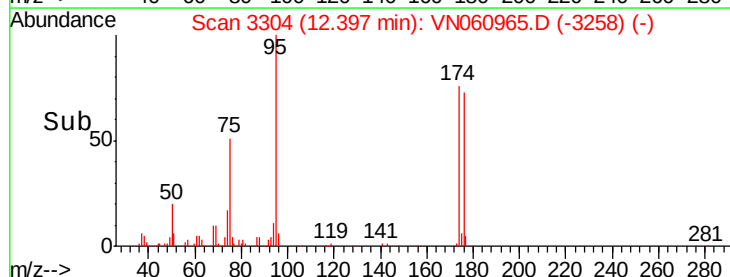
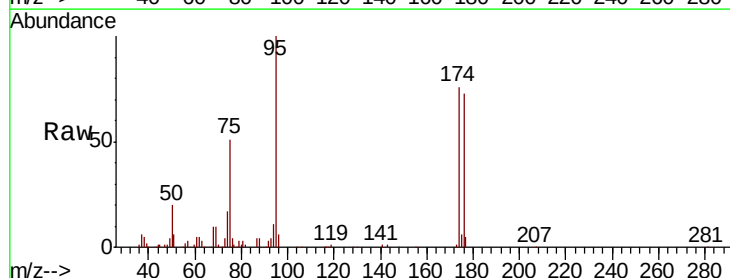
Acq: 15 Apr 2020 16:37

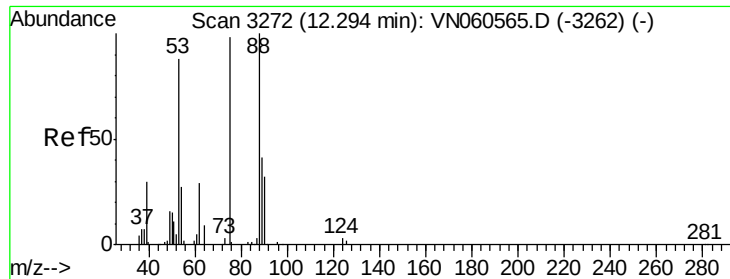
Tgt Ion: 75 Resp: 57758

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.547 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060965.D
 Acq: 15 Apr 2020 16:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 57758
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

