

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060962.D
 Acq On : 15 Apr 2020 15:29
 Operator : JC/MD
 Sample : L2245-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:34:44 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	141056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	239470	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	225763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	99681	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	95048	49.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.18%	
35) Dibromofluoromethane	7.56	113	72051	49.76	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.52%	
50) Toluene-d8	10.08	98	300406	50.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.58%	
62) 4-Bromofluorobenzene	12.40	95	111705	51.53	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.06%	

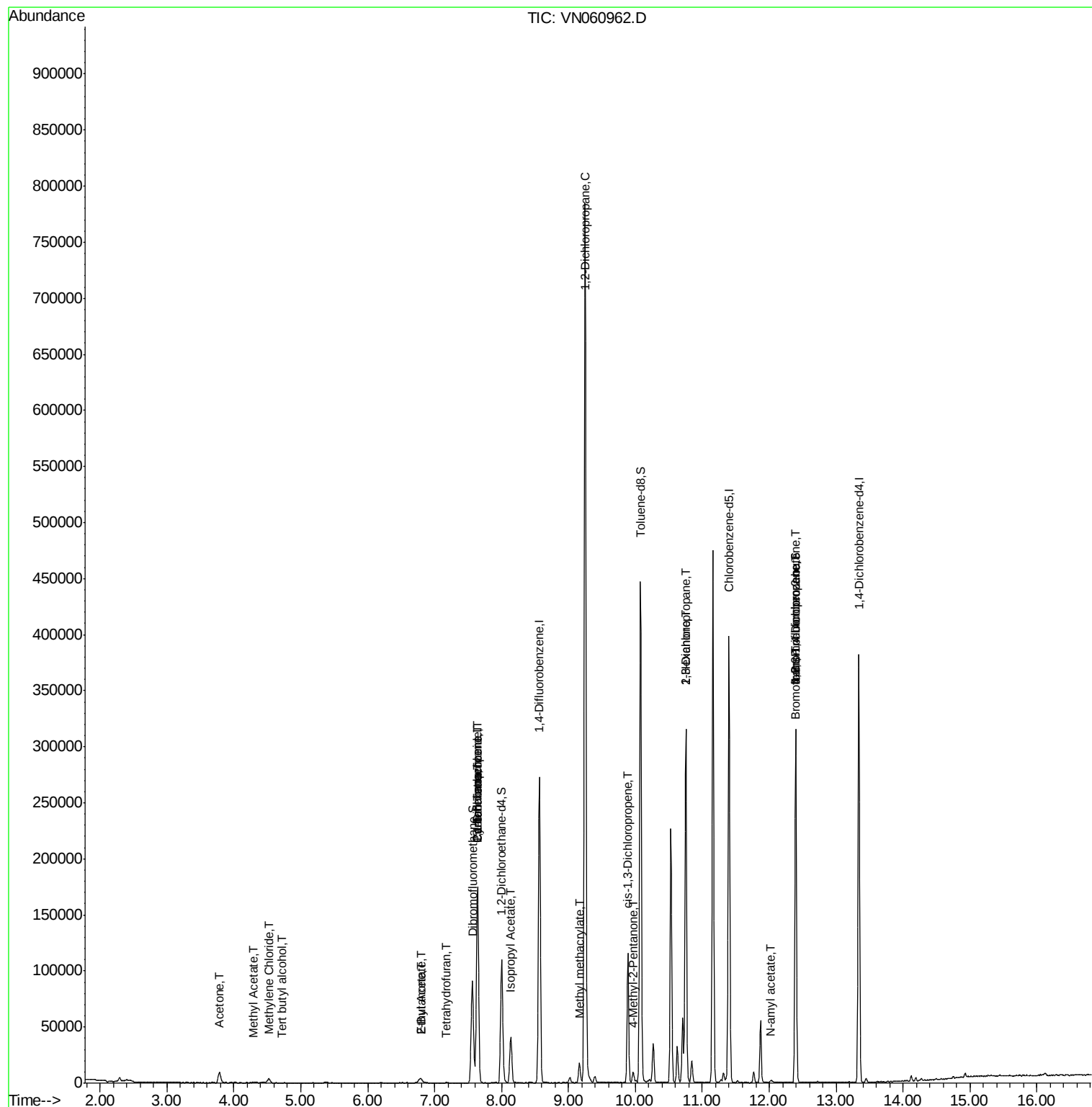
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	93	0.327	ug/l #	72
16) Acetone	3.78	43	17226	25.114	ug/l	98
18) Methyl Acetate	4.29	43	1401	0.726	ug/l #	54
20) Methylene Chloride	4.52	84	2857	1.693	ug/l	95
25) 2-Butanone	6.81	43	5277	4.754	ug/l	98
29) Tetrahydrofuran	7.18	42	239	0.304	ug/l #	35
31) Cyclohexane	7.64	56	3115	0.999	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11131	4.800	ug/l #	49
37) Ethyl Acetate	6.81	43	5277	2.106	ug/l #	70
38) Carbon Tetrachloride	7.64	117	13991	6.732	ug/l #	16
43) Isopropyl Acetate	8.14	43	49644	12.014	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	930	0.504	ug/l #	43
48) Methyl methacrylate	9.16	41	2550	1.386	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	6368	2.708	ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	20569	7.034	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3140	1.113	ug/l #	42
59) 2-Hexanone	10.75	43	46365	27.373	ug/l #	53
71) Bromoform	12.38	173	40	1.709	ug/l #	29
74) N-amyl acetate	12.02	43	2823	0.817	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	56367	26.206	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	56367	67.305	ug/l #	13

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
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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: VN060962.D

Acq: 15 Apr 2020 15:29

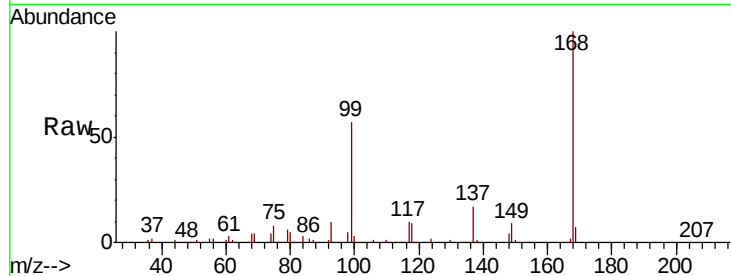
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 141056

Ion Ratio Lower Upper

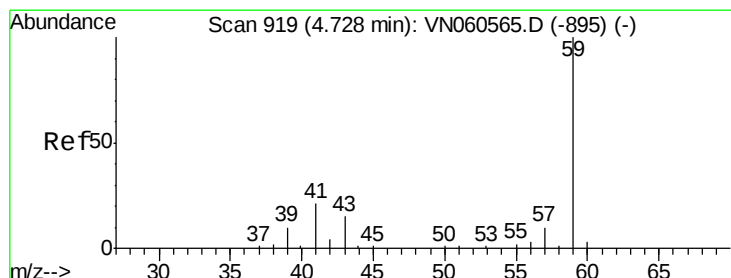
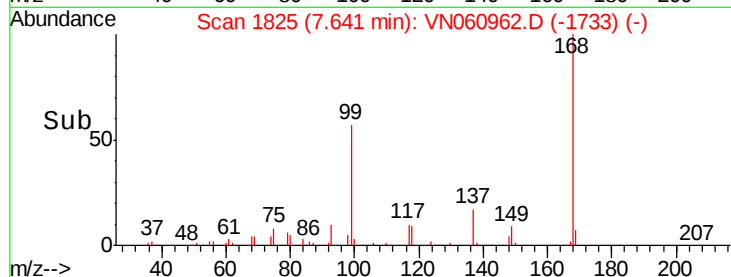
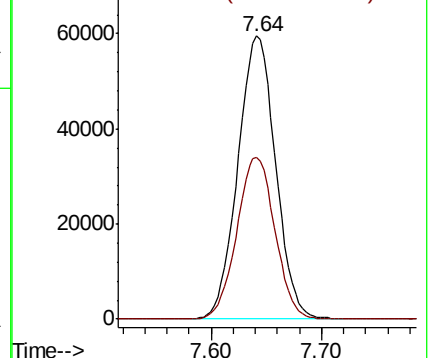
168 100

99 57.1 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: 0.327 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060962.D

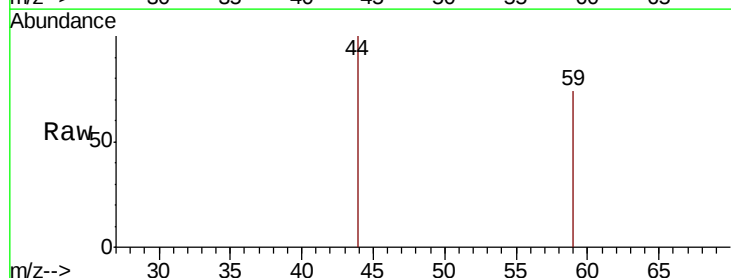
Acq: 15 Apr 2020 15:29

Tgt Ion: 59 Resp: 93

Ion Ratio Lower Upper

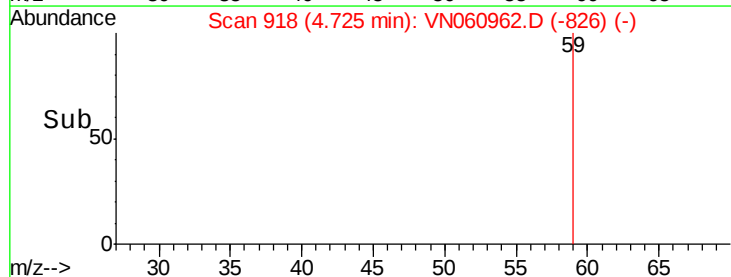
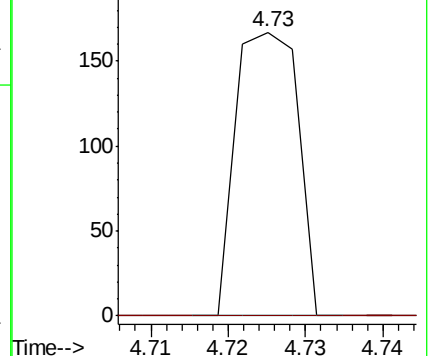
59 100

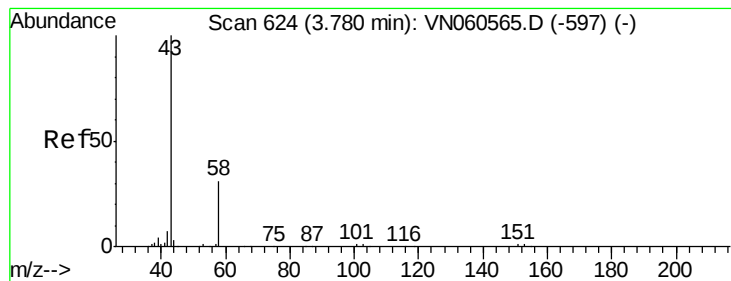
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 25.114 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

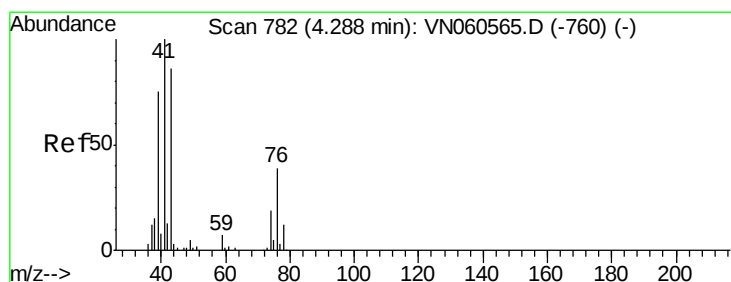
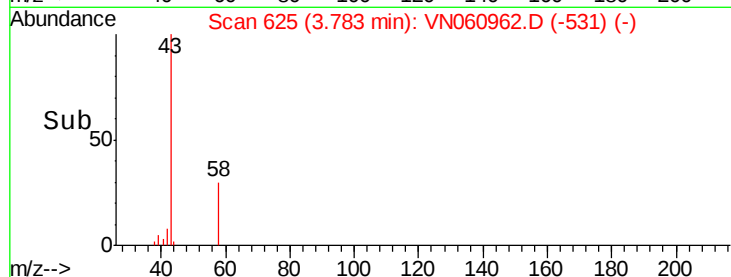
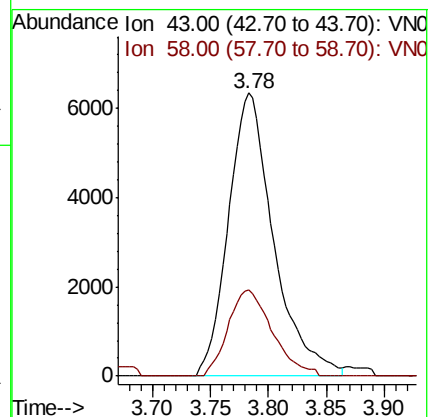
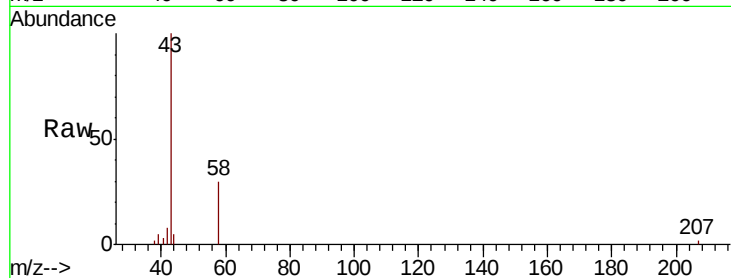
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 17226

Ion Ratio Lower Upper

43 100

58 30.3 25.1 37.7



#18

Methyl Acetate

Concen: 0.726 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060962.D

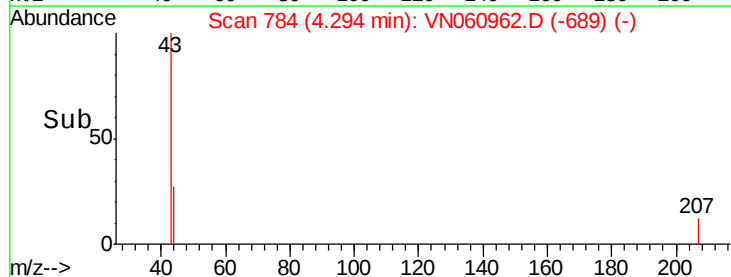
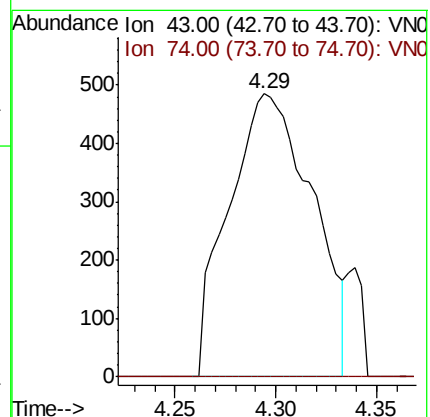
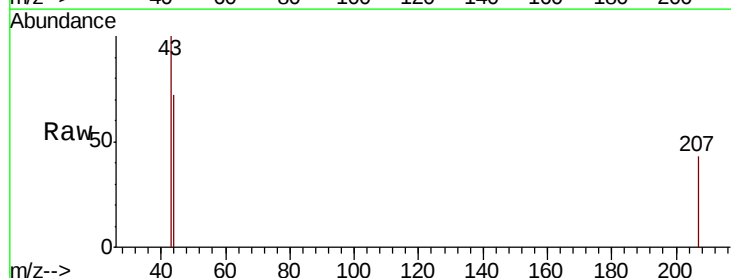
Acq: 15 Apr 2020 15:29

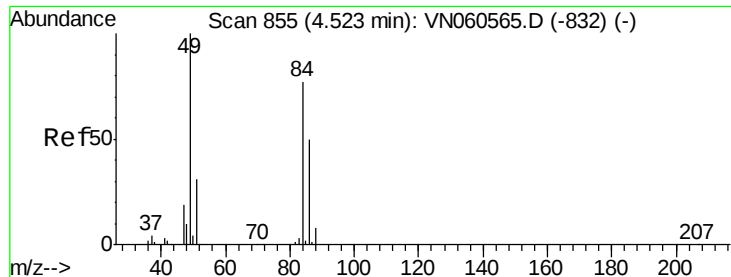
Tgt Ion: 43 Resp: 1401

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

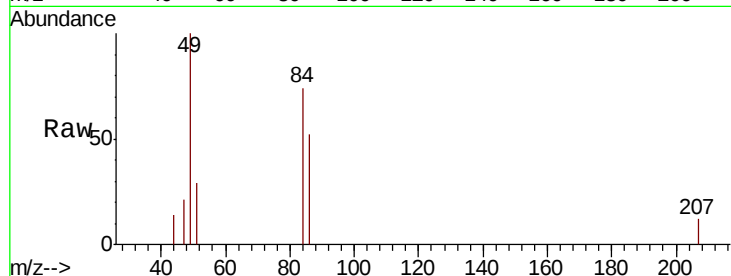




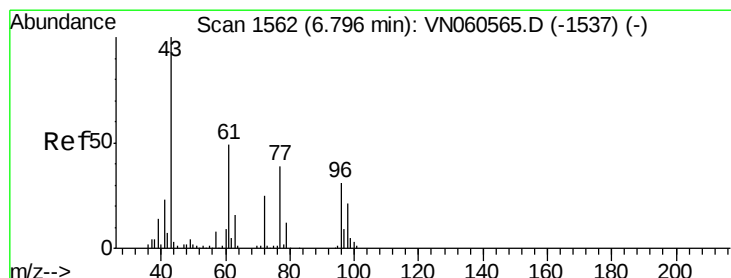
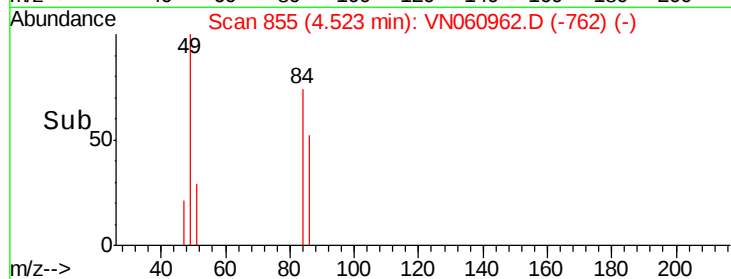
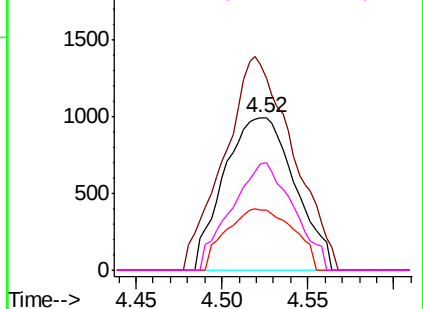
#20
Methvlene Chloride
Concen: 1.693 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84	Resp: 2857
Ion Ratio	Lower Upper
84 100	
49 135.7	103.3 154.9
51 39.8	31.6 47.4
86 70.0	52.0 78.0

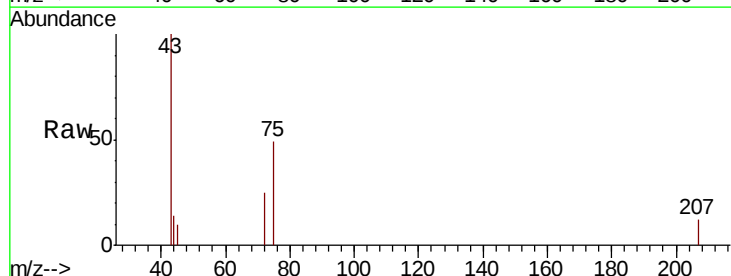


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

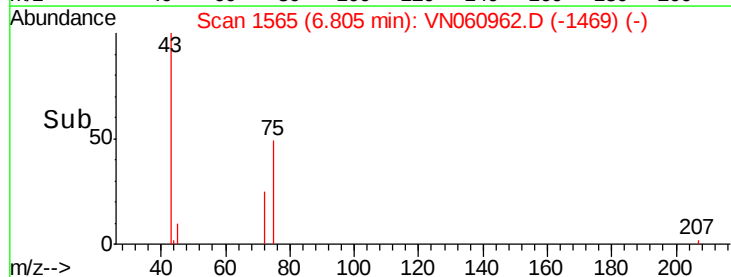
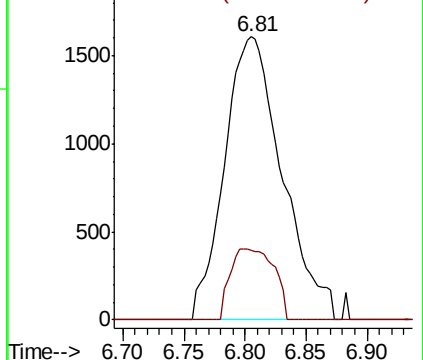


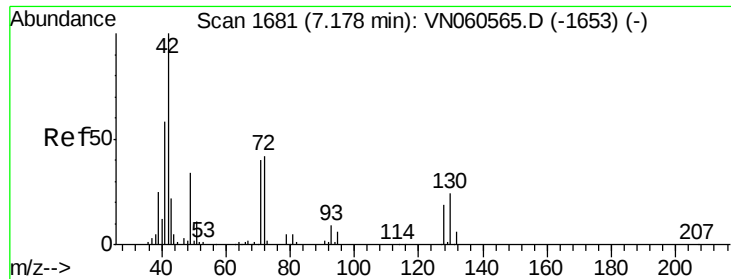
#25
2-Butanone
Concen: 4.754 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Tgt Ion: 43	Resp: 5277
Ion Ratio	Lower Upper
43 100	
72 24.6	20.4 30.6



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

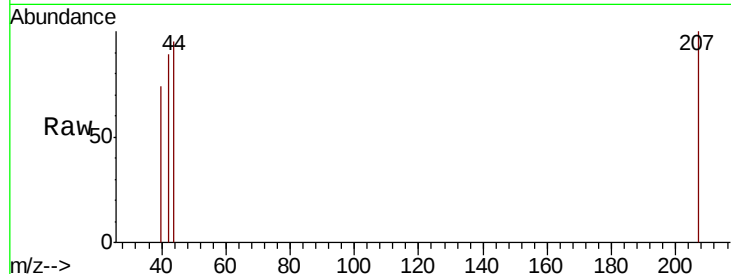




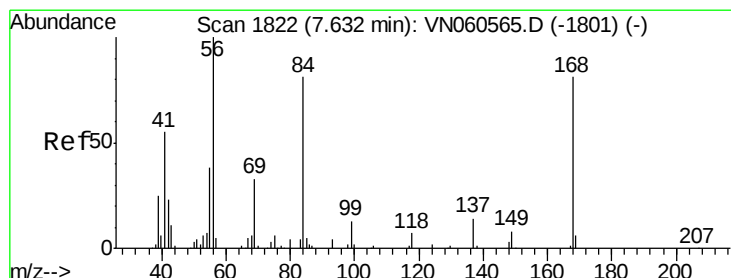
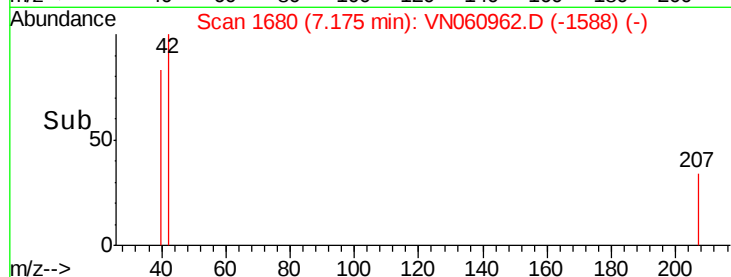
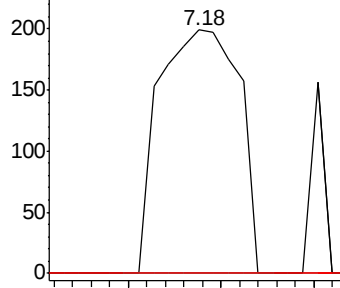
#29
Tetrahydrofuran
Concen: 0.304 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 239
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

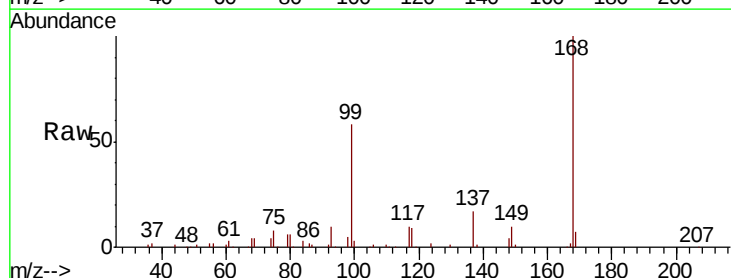


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

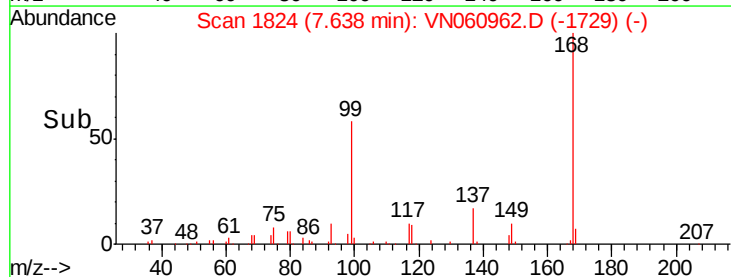
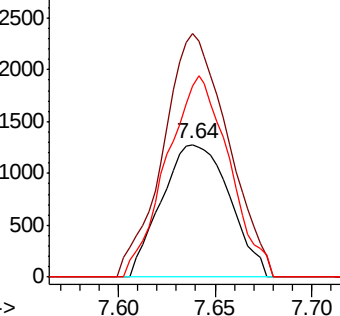


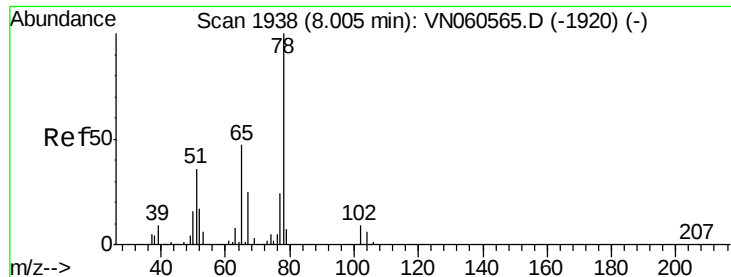
#31
Cyclohexane
Concen: 0.999 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Tgt Ion: 56 Resp: 3115
Ion Ratio Lower Upper
56 100
69 183.9 26.6 40.0#
84 144.8 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

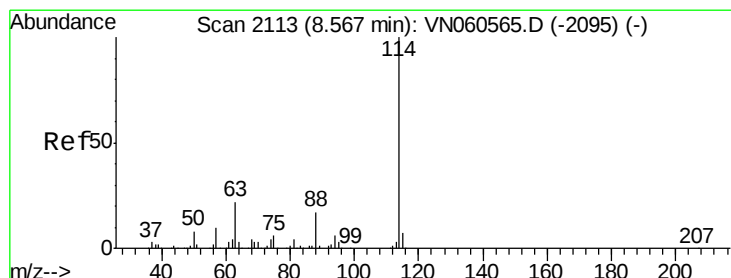
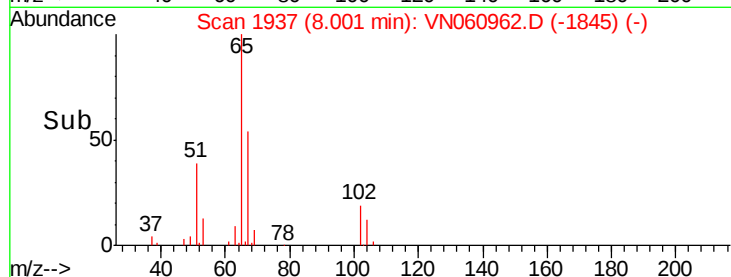
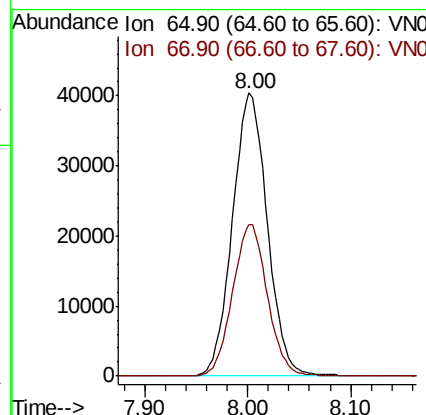
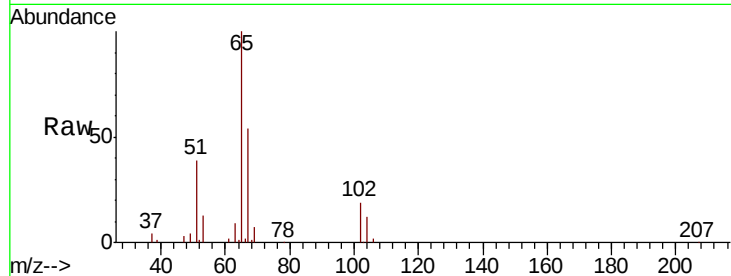




#33
 1,2-Dichloroethane-d4
 Concen: 49.085 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060962.D
 Acq: 15 Apr 2020 15:29

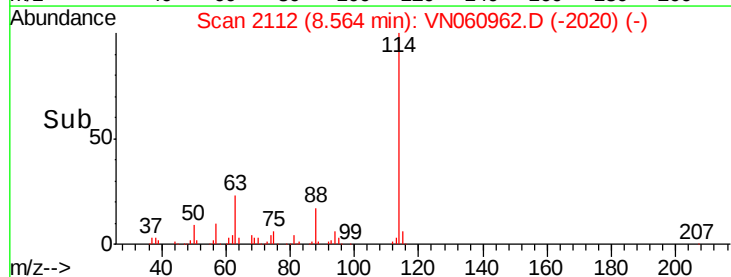
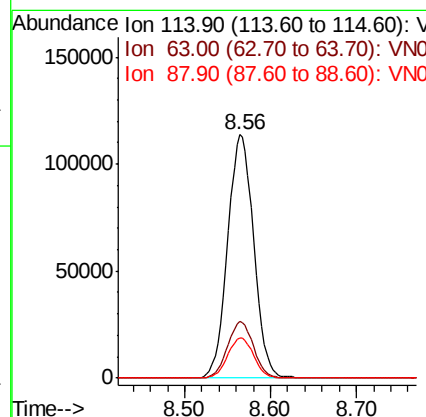
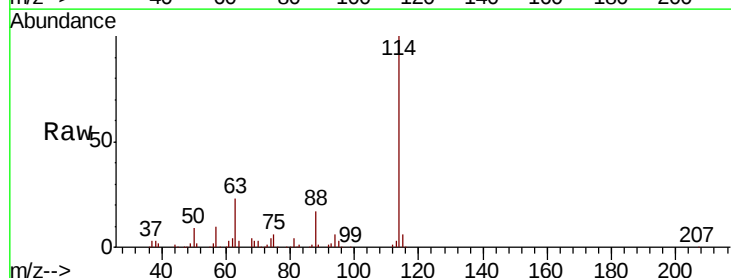
Instrument :
 MSVOA_N
 ClientSampleId :

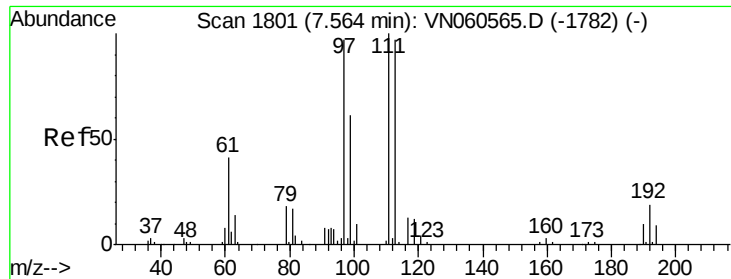
Tot Ion: 65 Resp: 95048
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060962.D
 Acq: 15 Apr 2020 15:29

Tgt Ion: 114 Resp: 239470
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 43.8
 88 16.6 0.0 33.0

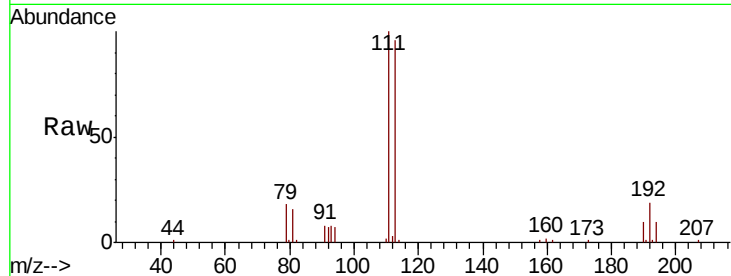




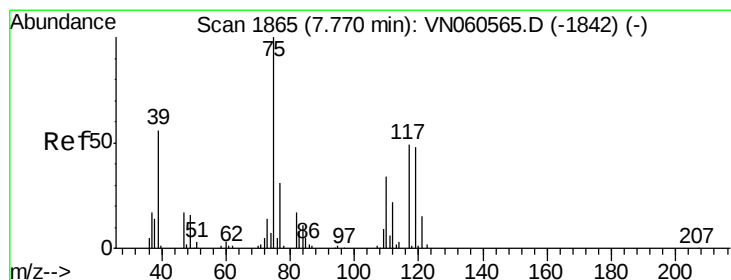
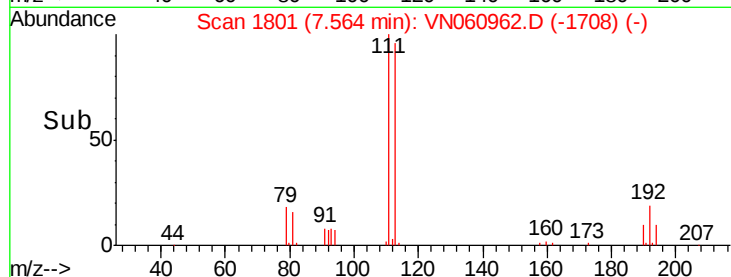
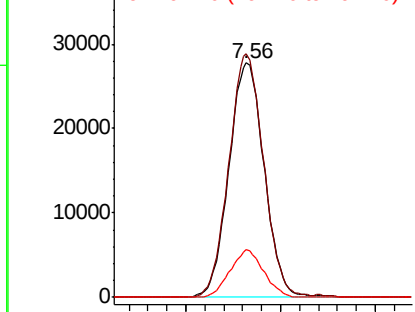
#35
 Dibromofluoromethane
 Concen: 49.759 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060962.D
 Acq: 15 Apr 2020 15:29

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 72051
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.9 124.3
 192 19.2 15.8 23.8

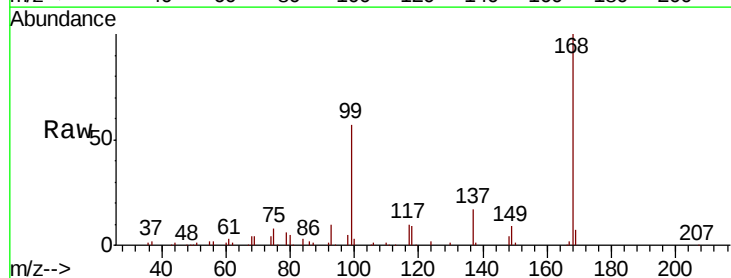


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

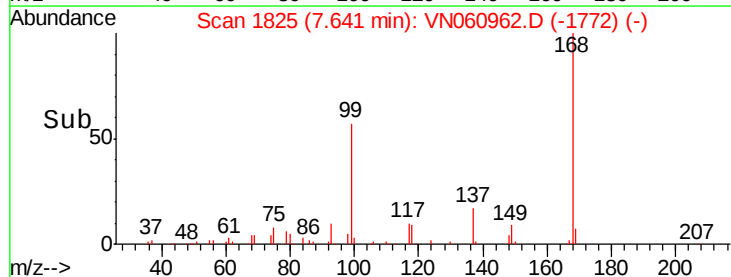
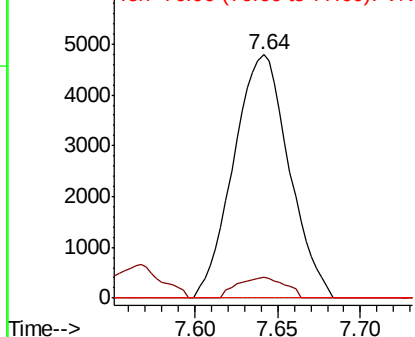


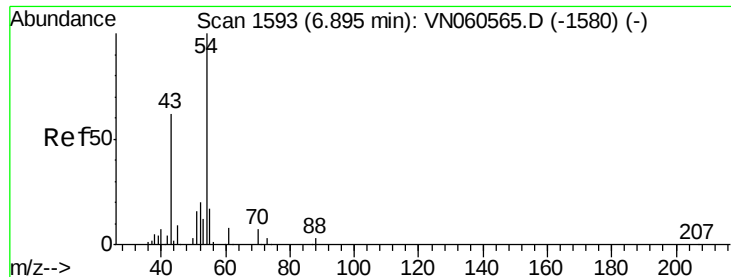
#36
 1,1-Dichloropropene
 Concen: 4.800 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060962.D
 Acq: 15 Apr 2020 15:29

Tgt Ion: 75 Resp: 11131
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.9 50.6#
 77 0.0 24.6 36.8#



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

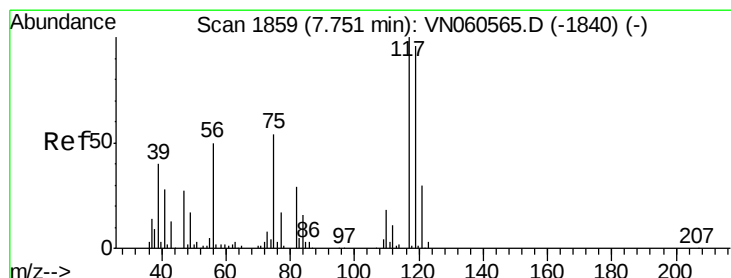
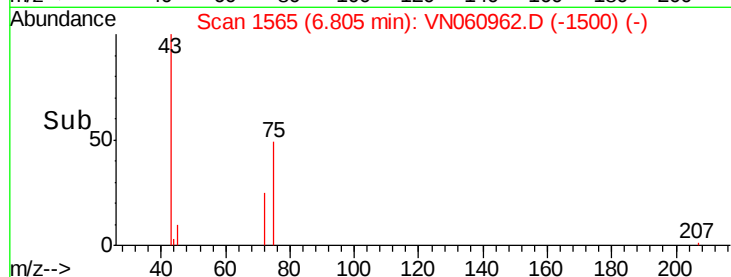
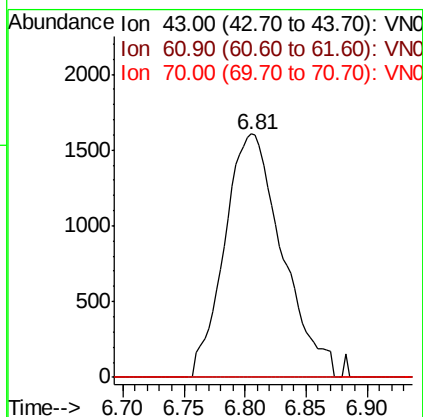
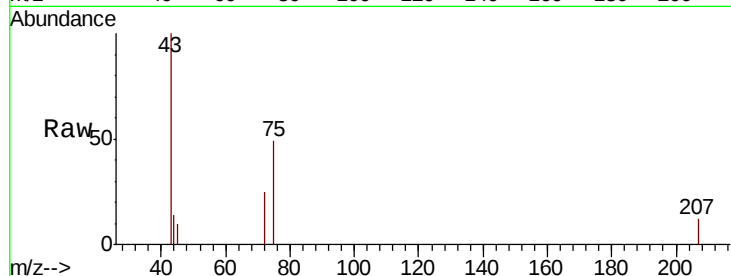




#37
Ethyl Acetate
Concen: 2.106 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

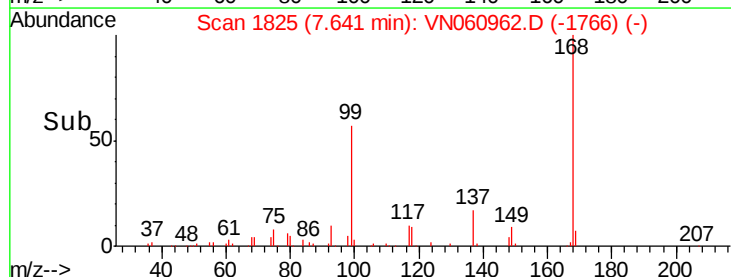
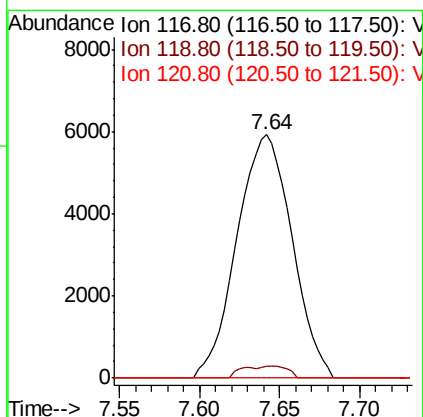
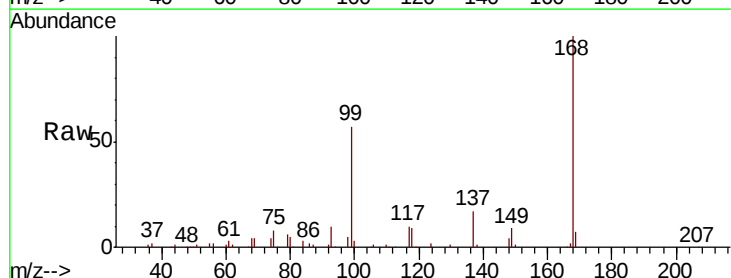
Instrument :
MSVOA_N
ClientSampled :

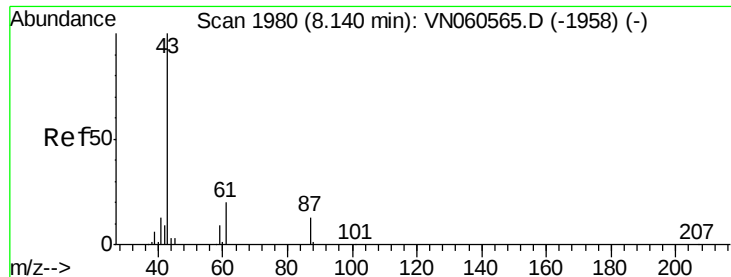
Tot Ion: 43 Resp: 5277
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.732 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Tgt Ion: 117 Resp: 13991
Ion Ratio Lower Upper
117 100
119 4.7 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 12.014 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampled :

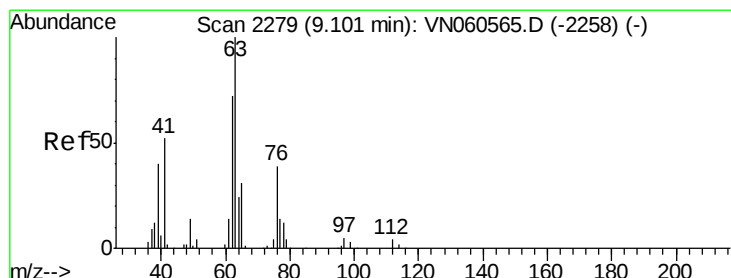
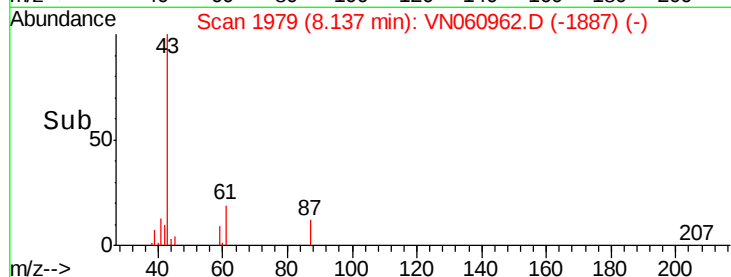
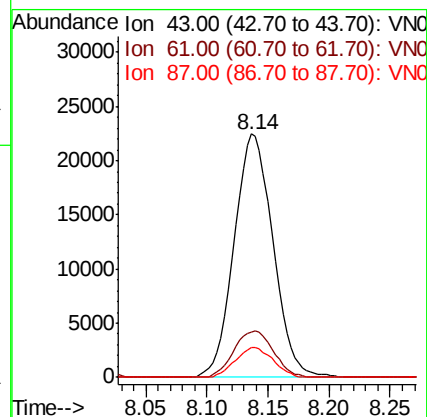
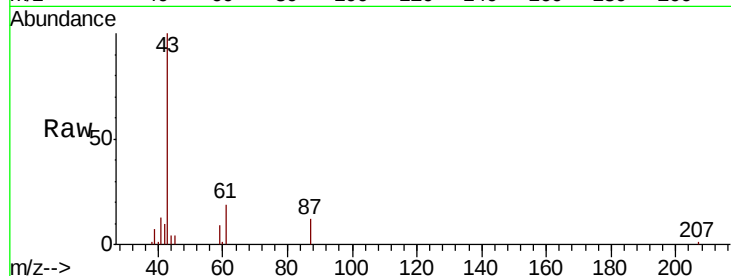
Tot Ion: 43 Resp: 49644

Ion Ratio Lower Upper

43 100

61 19.2 20.7 31.1#

87 11.7 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.504 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060962.D

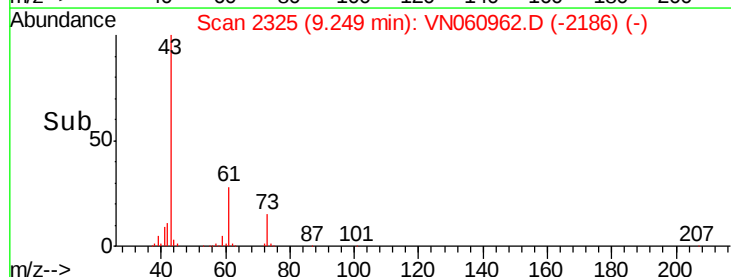
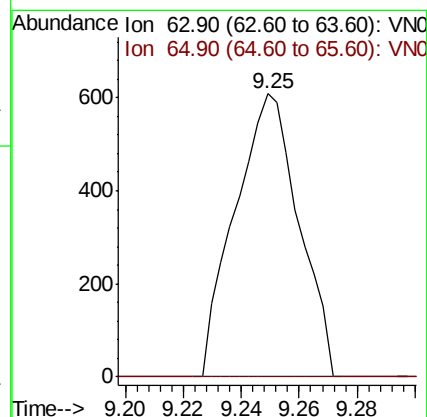
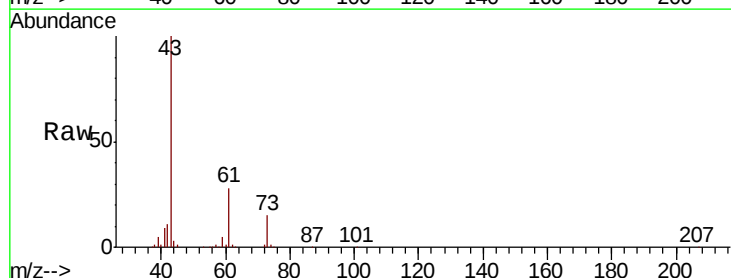
Acq: 15 Apr 2020 15:29

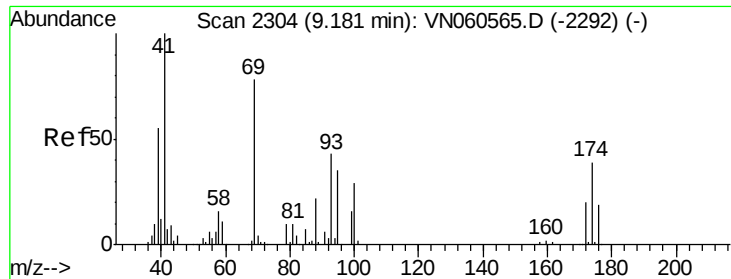
Tgt Ion: 63 Resp: 930

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

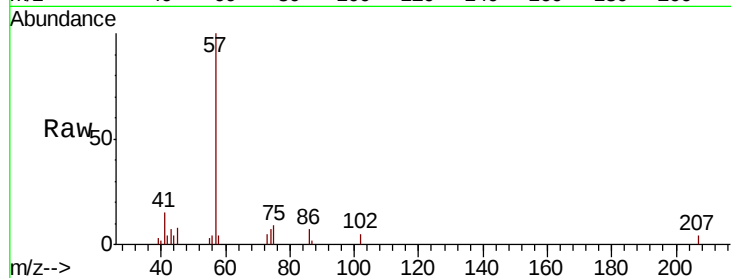




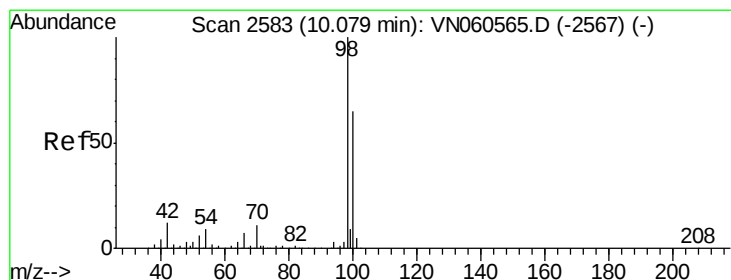
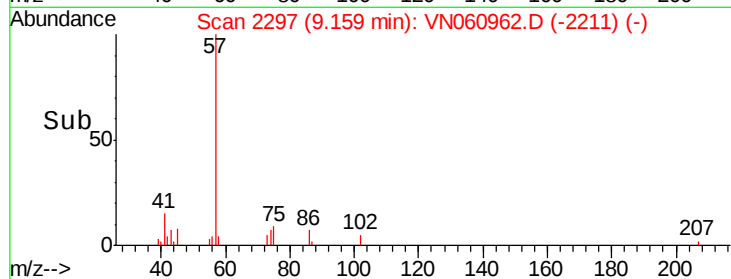
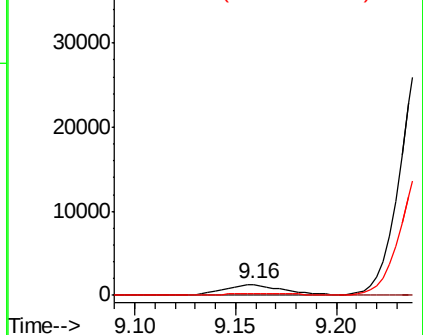
#48
Methvl methacrylate
Concen: 1.386 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2550
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

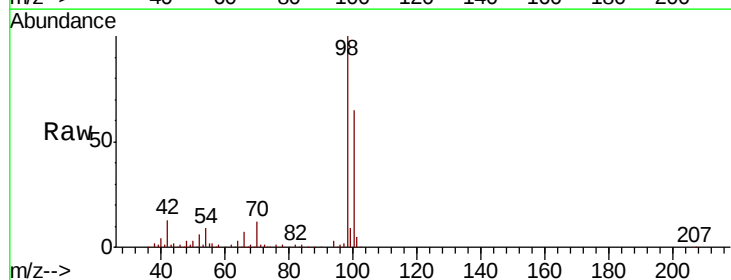


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

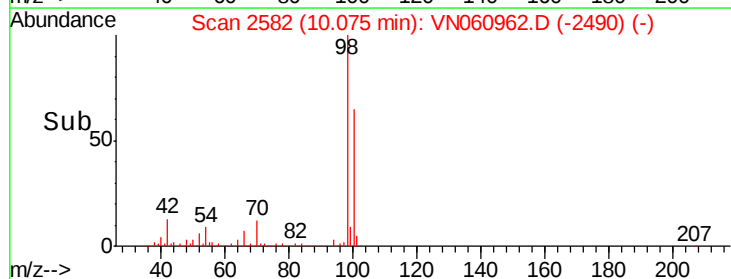
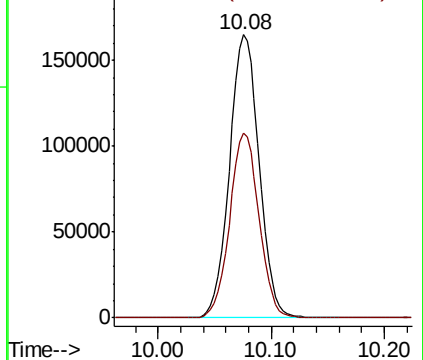


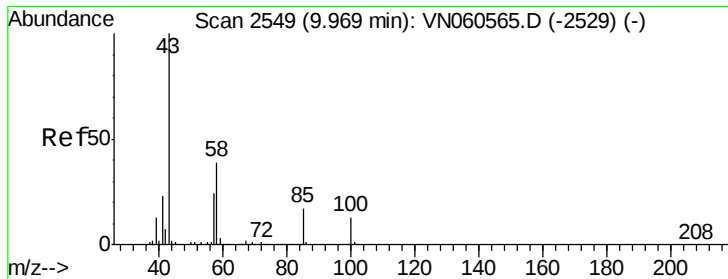
#50
Toluene-d8
Concen: 50.791 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060962.D
Acq: 15 Apr 2020 15:29

Tgt Ion: 98 Resp: 300406
Ion Ratio Lower Upper
98 100
100 64.5 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: 2.708 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

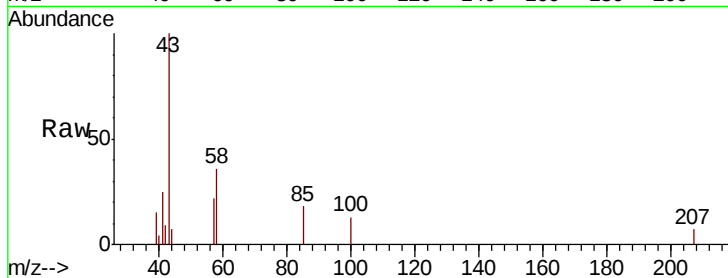
ClientSampled :

Tot Ion: 43 Resp: 6368

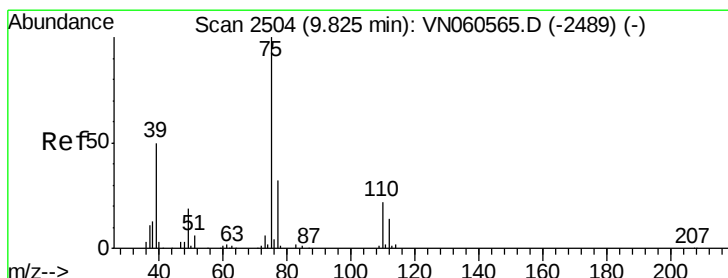
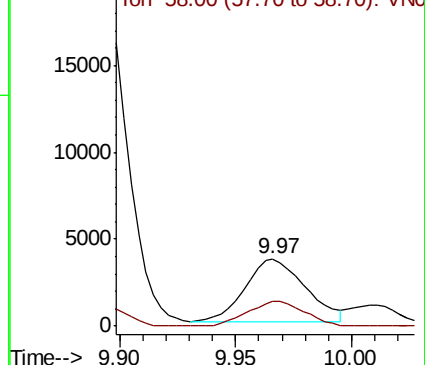
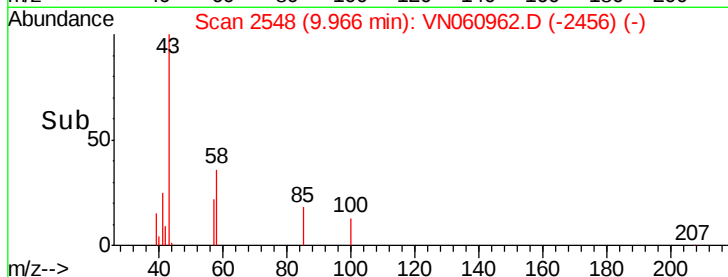
Ion Ratio Lower Upper

43 100

58 38.3 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060962.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.034 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

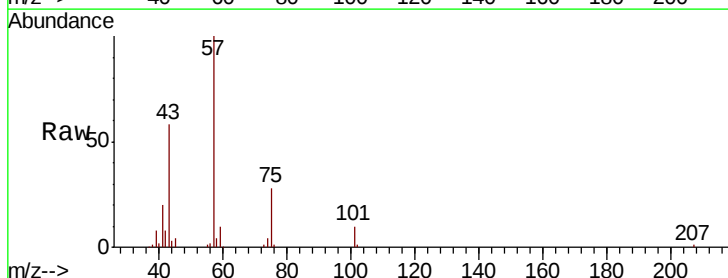
Tgt Ion: 75 Resp: 20569

Ion Ratio Lower Upper

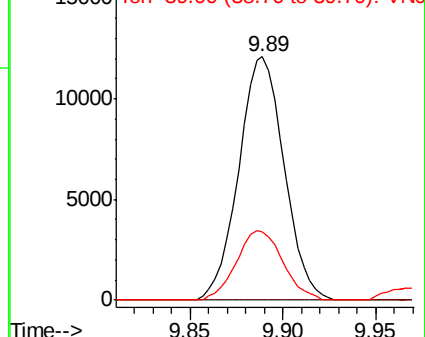
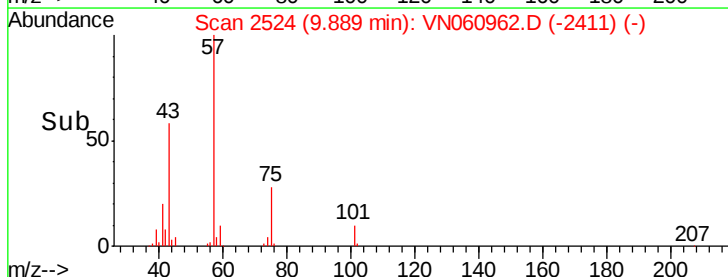
75 100

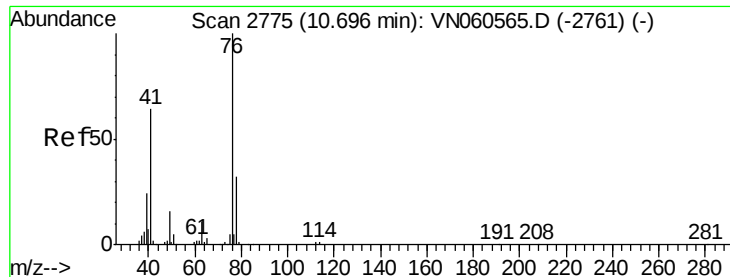
77 0.0 25.4 38.0#

39 28.2 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060962.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.113 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

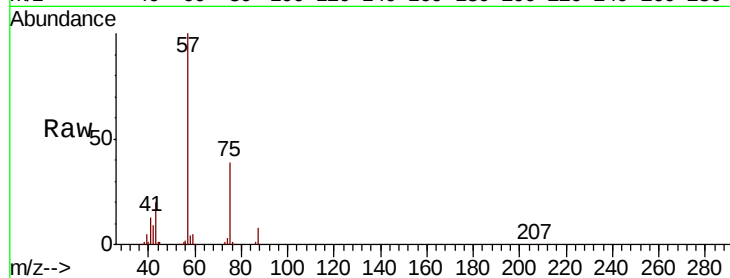
ClientSampled :

Tot Ion: 76 Resp: 3140

Ion Ratio Lower Upper

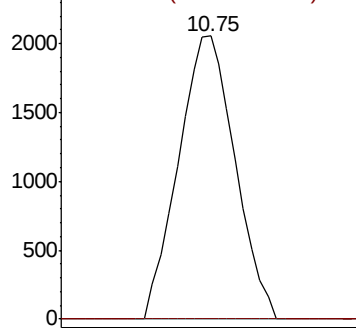
76 100

78 0.0 25.8 38.6#

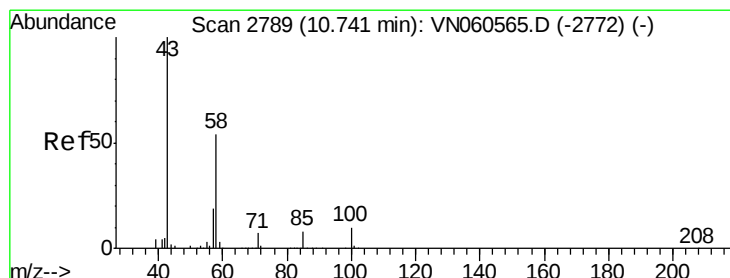
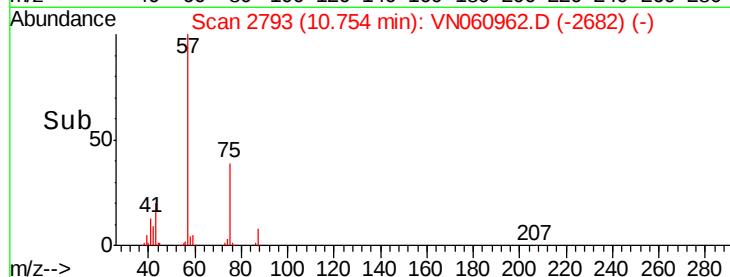


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 27.373 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060962.D

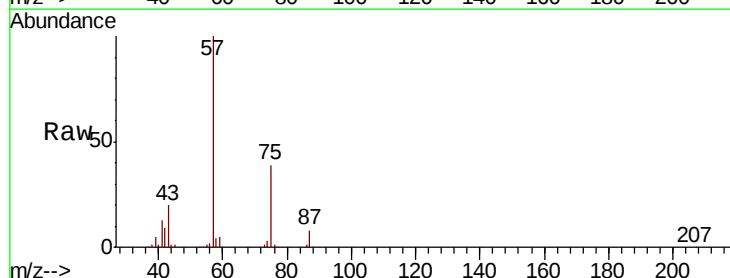
Acq: 15 Apr 2020 15:29

Tgt Ion: 43 Resp: 46365

Ion Ratio Lower Upper

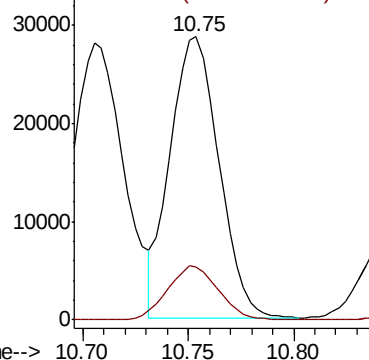
43 100

58 19.9 26.7 80.1#

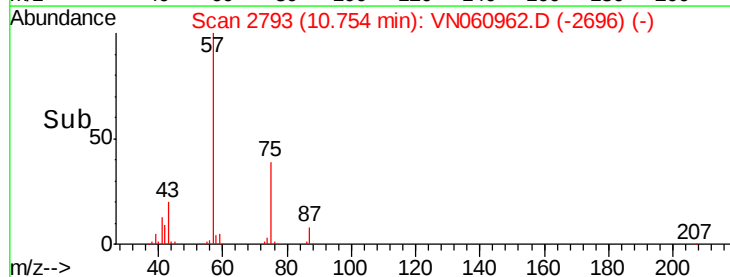


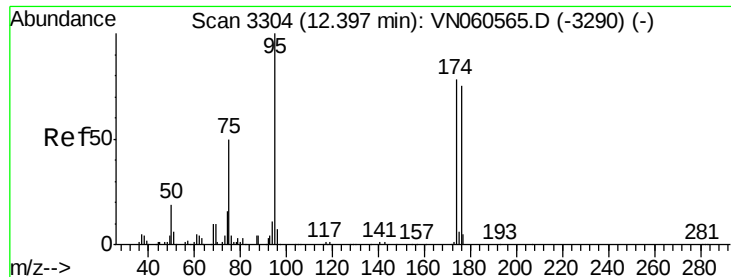
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 51.534 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

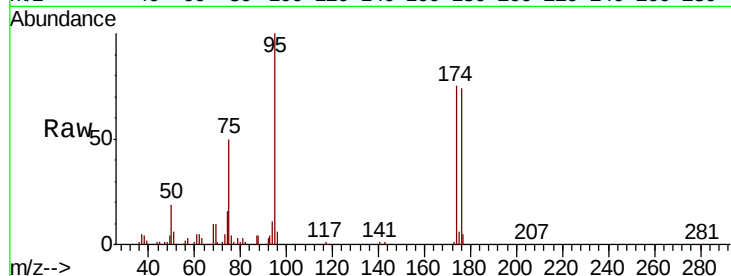
Tot Ion: 95 Resp: 111705

Ion Ratio Lower Upper

95 100

174 75.5 0.0 157.6

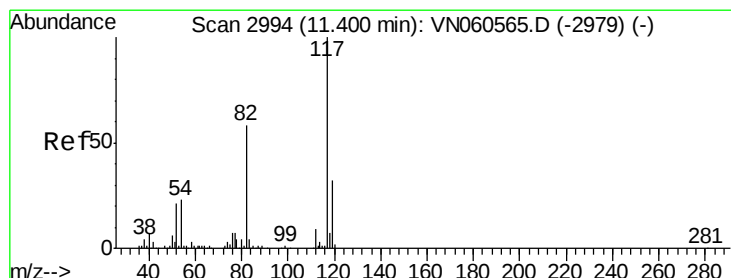
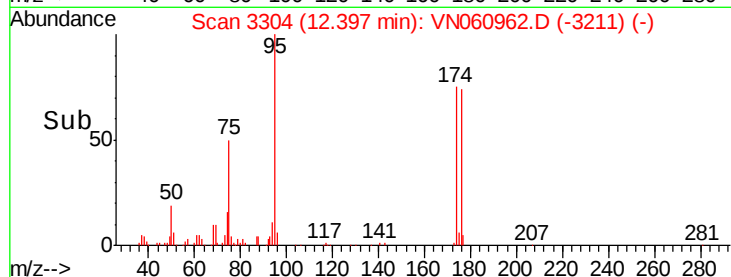
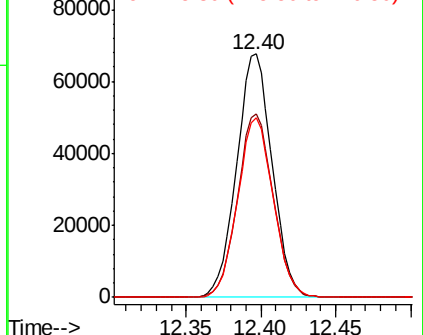
176 73.9 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060962.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060962.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060962.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. -0.00 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

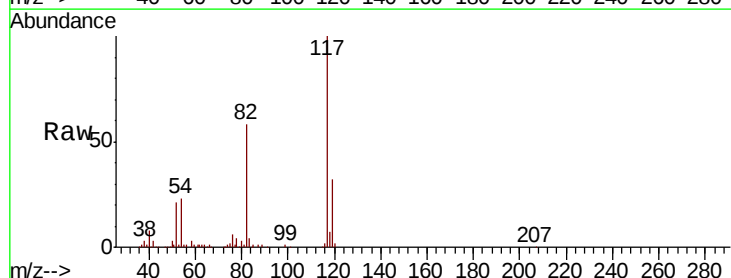
Tgt Ion: 117 Resp: 225763

Ion Ratio Lower Upper

117 100

82 58.2 46.7 70.1

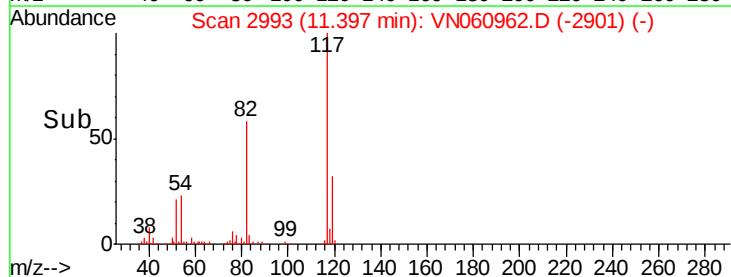
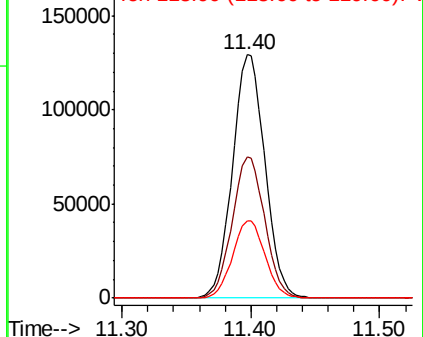
119 31.9 25.5 38.3

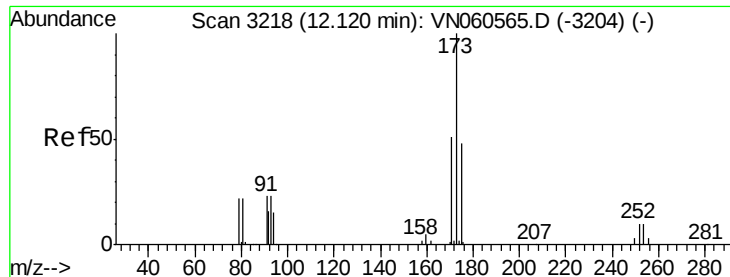


Abundance Ion 116.90 (116.60 to 117.60): VN060962.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060962.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060962.D (-2979) (-)





#71

Bromoform

Concen: 1.709 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.26 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

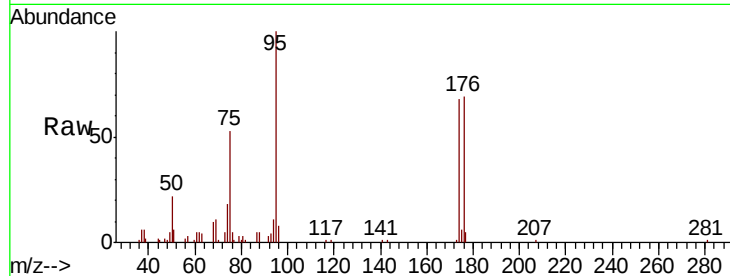
Tot Ion:173 Resp: 40

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

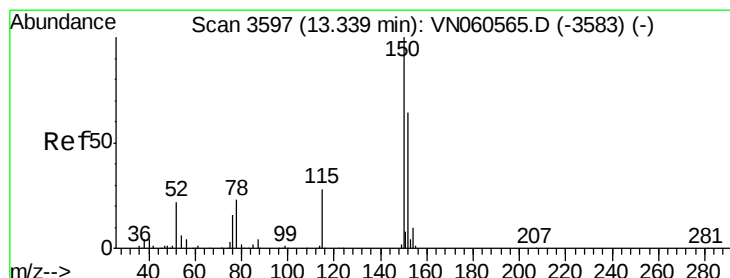
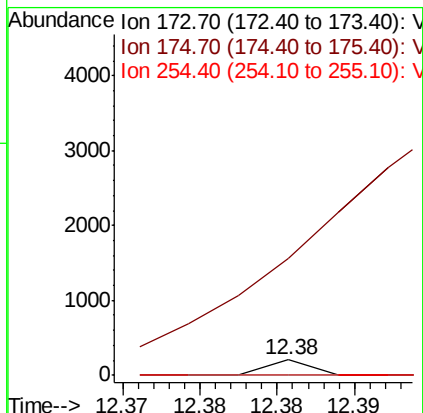
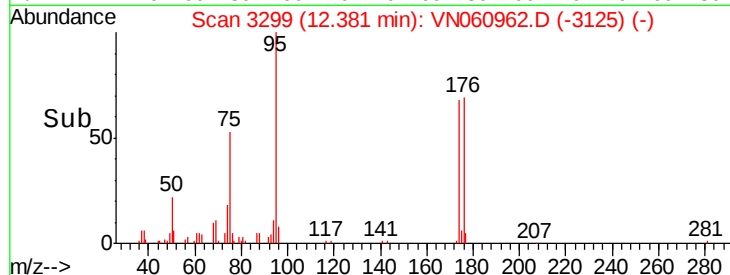
254 0.0 0.0 0.0



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: VN060962.D

Acq: 15 Apr 2020 15:29

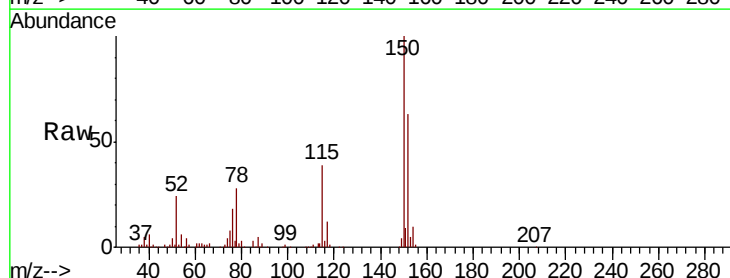
Tgt Ion:152 Resp: 99681

Ion Ratio Lower Upper

152 100

115 60.9 30.2 90.6

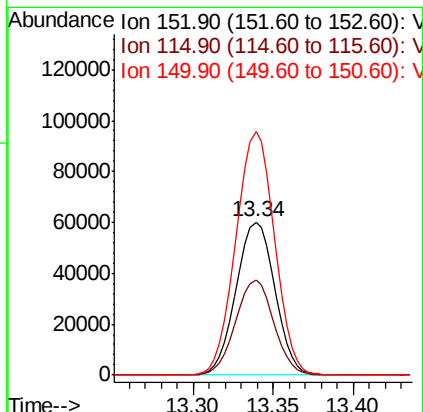
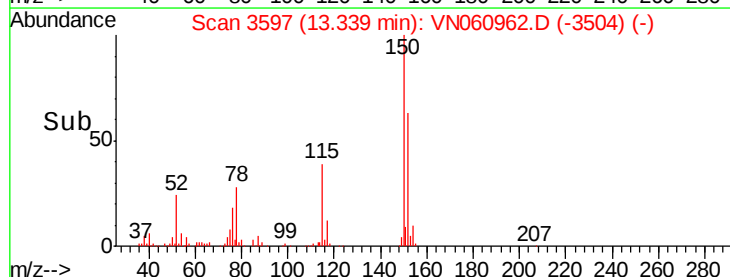
150 158.1 0.0 350.2

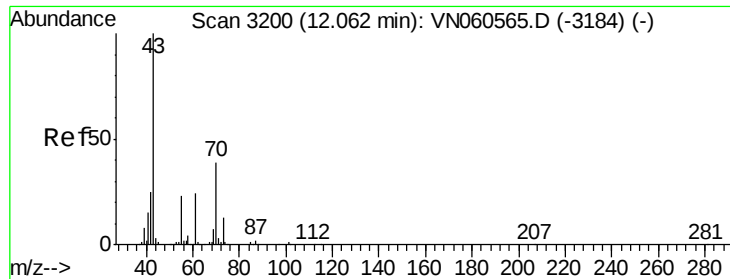


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.817 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2823

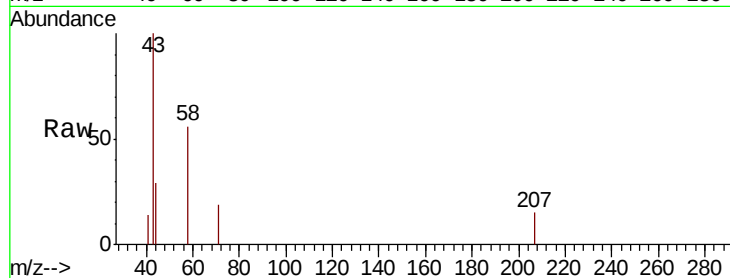
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

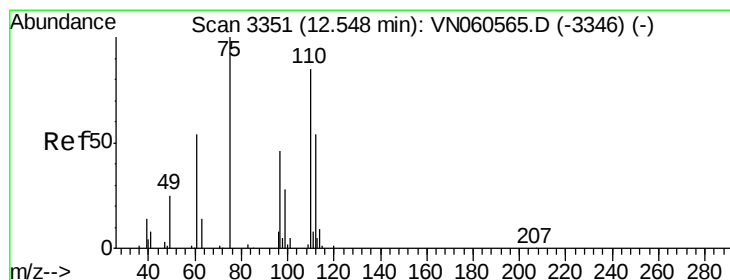
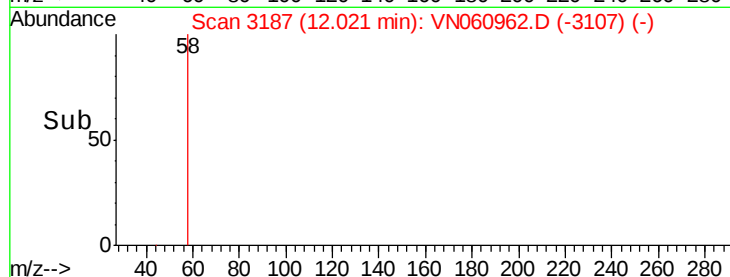
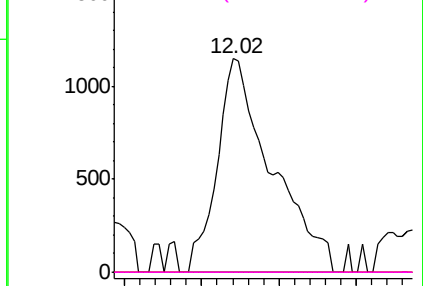


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 26.206 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060962.D

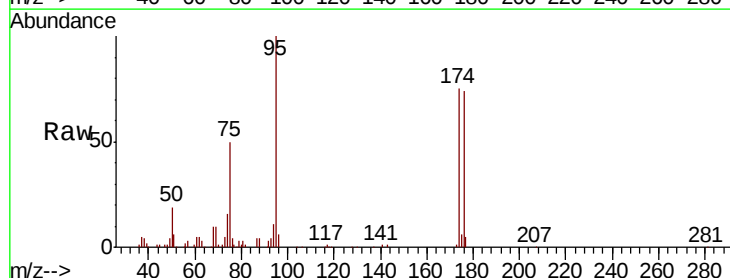
Acq: 15 Apr 2020 15:29

Tgt Ion: 75 Resp: 56367

Ion Ratio Lower Upper

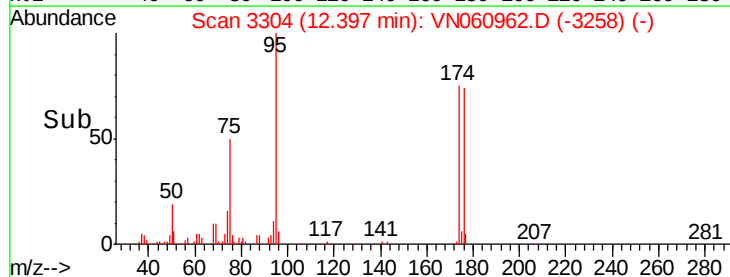
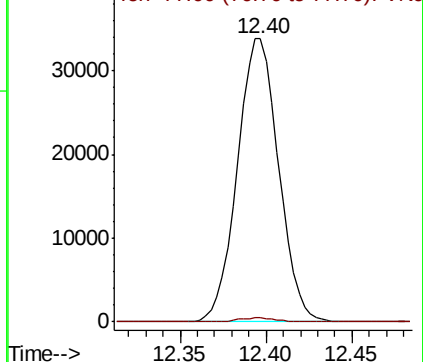
75 100

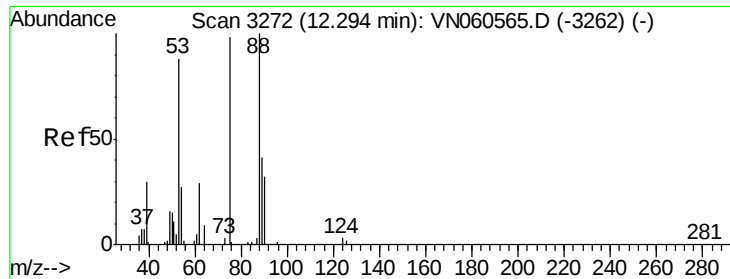
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.305 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060962.D

Acq: 15 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

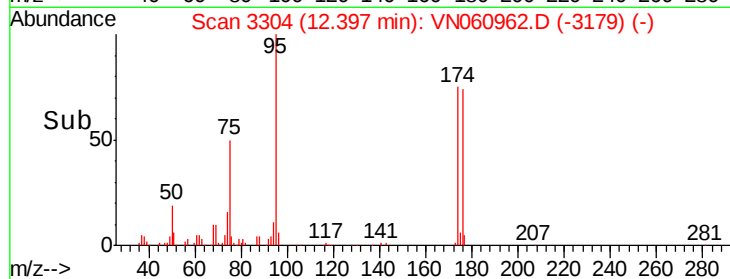
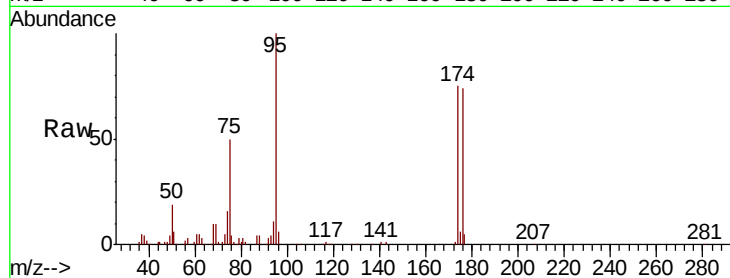
Tot Ion: 75 Resp: 56367

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

