

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060683.D
 Acq On : 24 Mar 2020 19:24
 Operator : JC/MD
 Sample : L2011-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:59:18 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

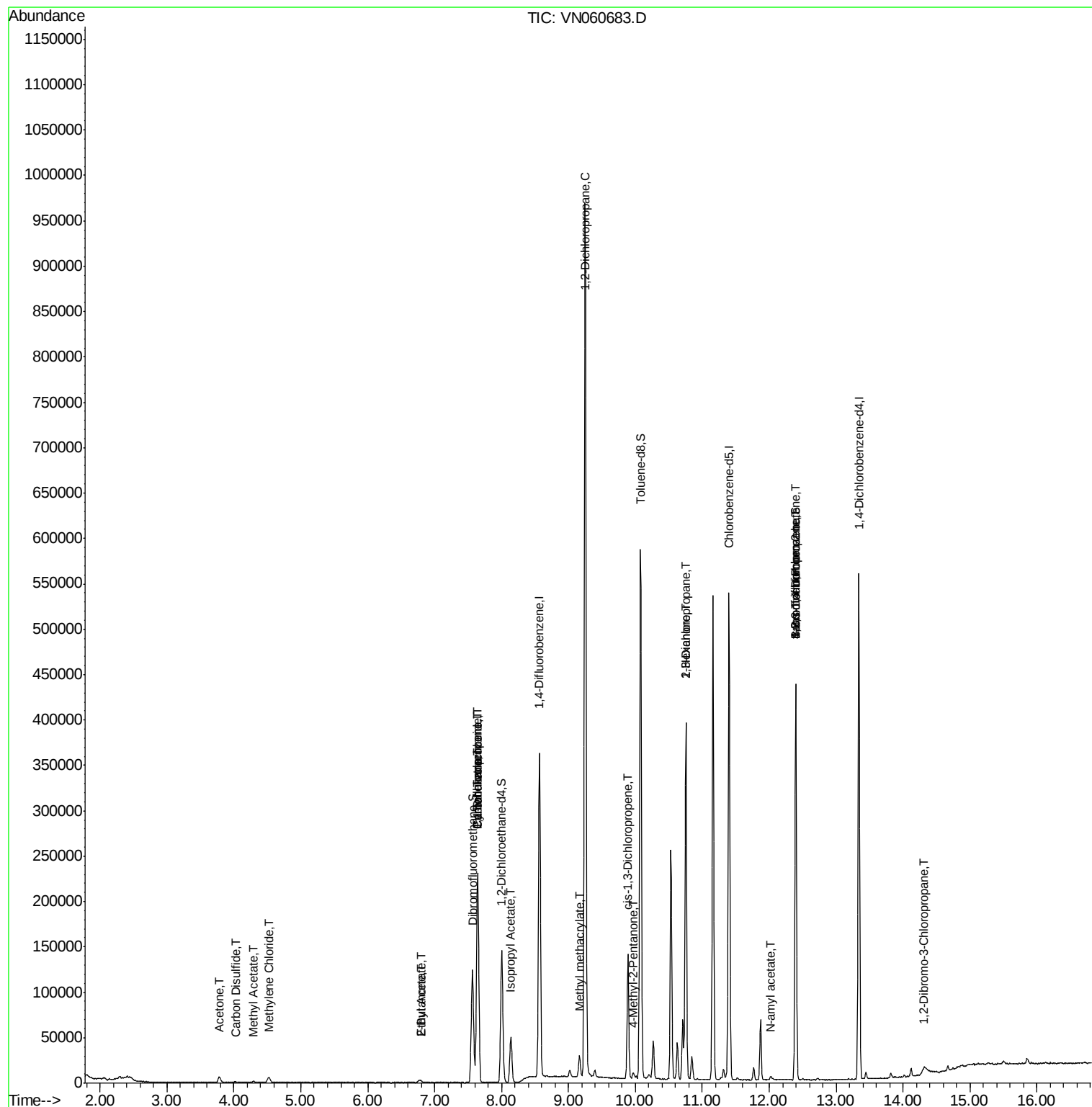
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	317671	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	302927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145243	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	124936	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
35) Dibromofluoromethane	7.56	113	95581	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
50) Toluene-d8	10.08	98	395604	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.40	95	151357	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	10938	11.824	ug/l	99
17) Carbon Disulfide	4.03	76	1570	0.251	ug/l #	75
18) Methyl Acetate	4.29	43	2782	1.068	ug/l #	66
20) Methylene Chloride	4.52	84	4620	2.030	ug/l	99
25) 2-Butanone	6.81	43	2399	1.603	ug/l #	89
31) Cyclohexane	7.64	56	3979	0.946	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14803	4.812	ug/l #	49
37) Ethyl Acetate	6.81	43	2399	0.722	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18277	6.630	ug/l #	16
43) Isopropyl Acetate	8.14	43	60391	11.017	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1135	0.463	ug/l #	43
48) Methyl methacrylate	9.16	41	3524	1.444	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5159	1.654	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	23801	6.136	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4024	1.075	ug/l #	42
59) 2-Hexanone	10.75	43	57148	25.434	ug/l #	52
71) Bromoform	12.40	173	770	2.092	ug/l #	1
74) N-amyl acetate	12.02	43	2431	0.483	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	76632	24.451	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	76632	62.799	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.30	75	508	0.470	ug/l #	3

(#) = 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: VN060683.D

Acq: 24 Mar 2020 19:24

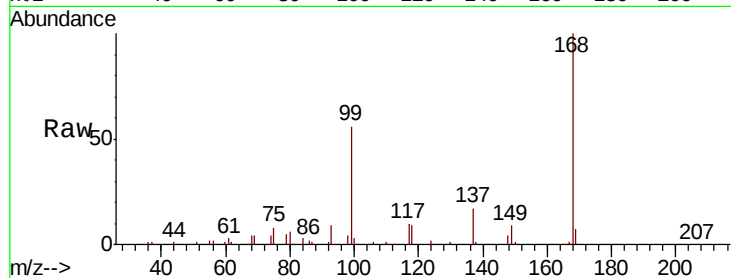
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 190237

Ion Ratio Lower Upper

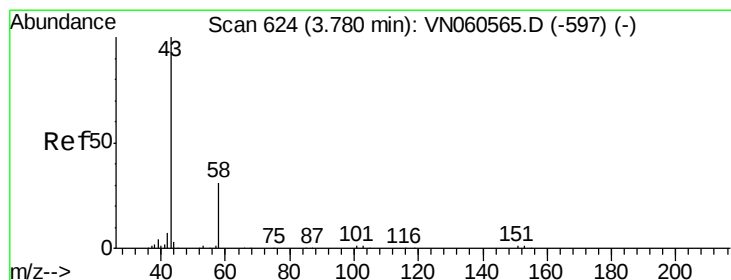
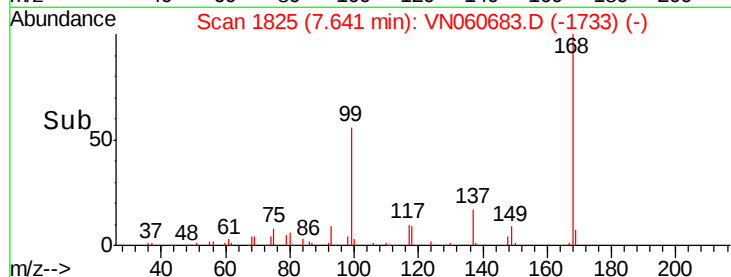
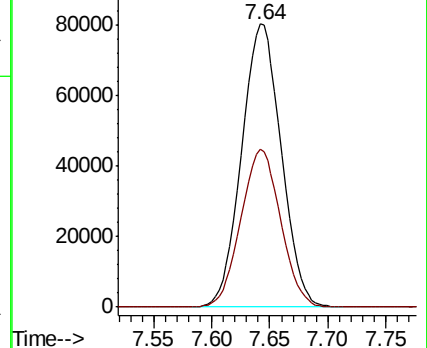
168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 11.824 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060683.D

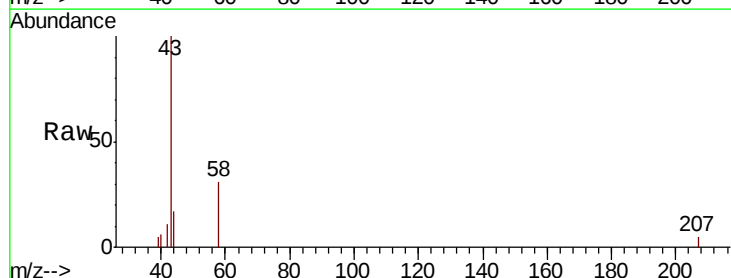
Acq: 24 Mar 2020 19:24

Tgt Ion: 43 Resp: 10938

Ion Ratio Lower Upper

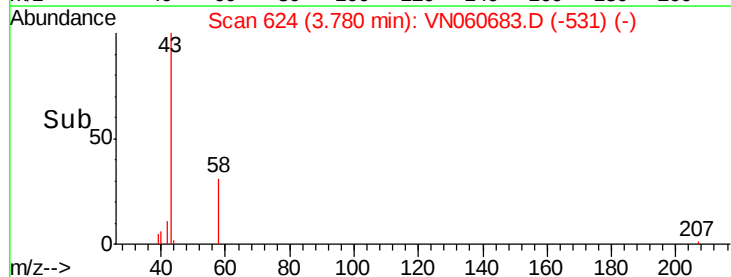
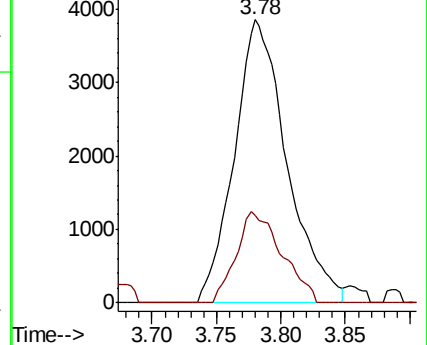
43 100

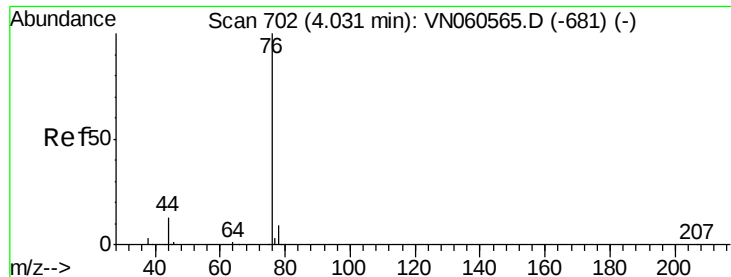
58 31.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.251 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

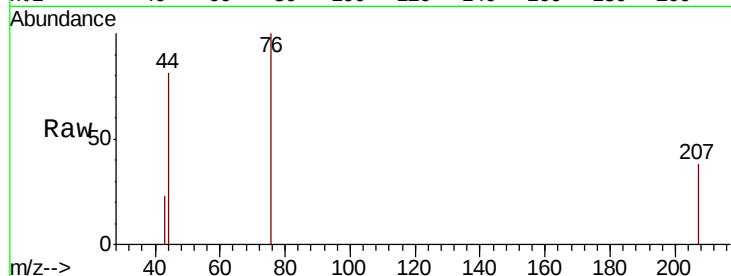
ClientSampleId :

Tot Ion: 76 Resp: 1570

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

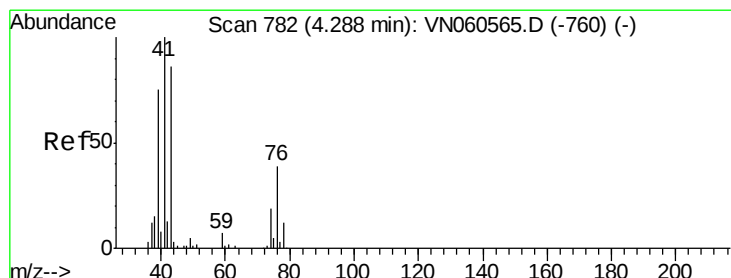
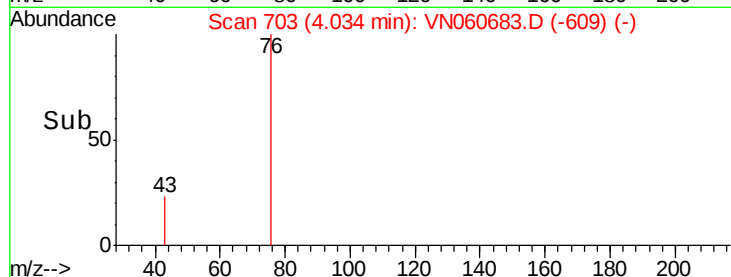
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.068 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.00 min

Lab File: VN060683.D

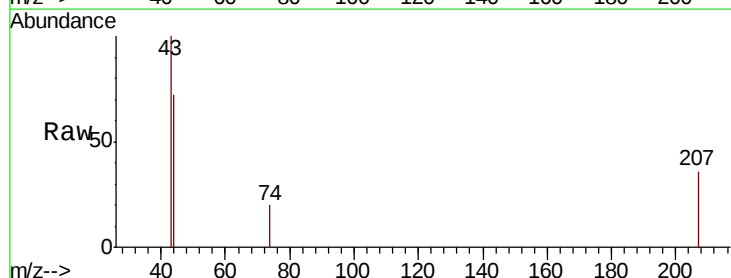
Acq: 24 Mar 2020 19:24

Tgt Ion: 43 Resp: 2782

Ion Ratio Lower Upper

43 100

74 5.6 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1000

800

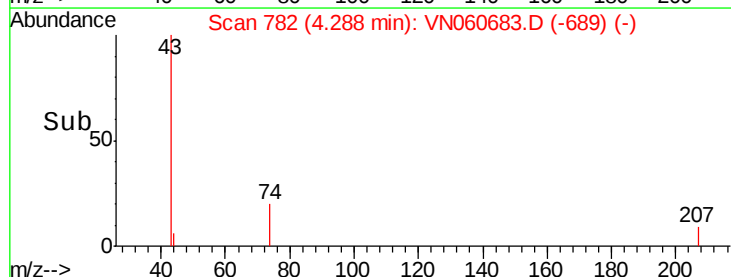
600

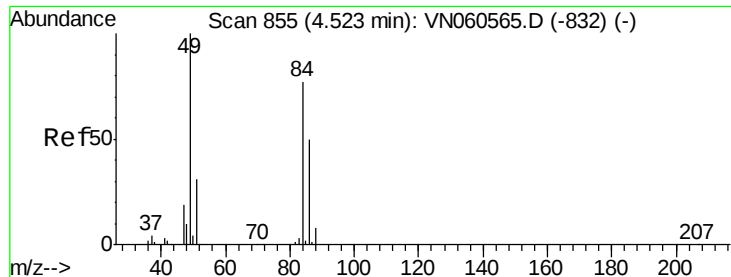
400

200

0

Time-->

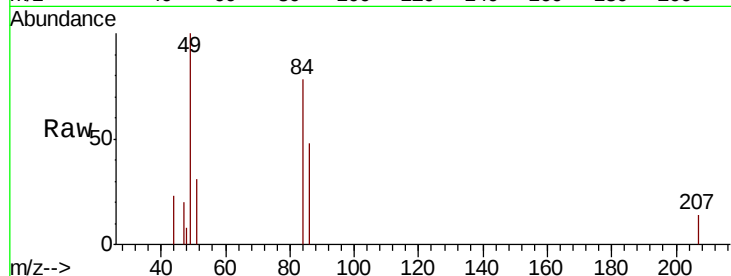




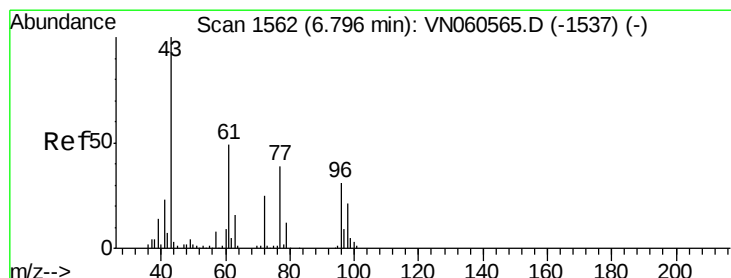
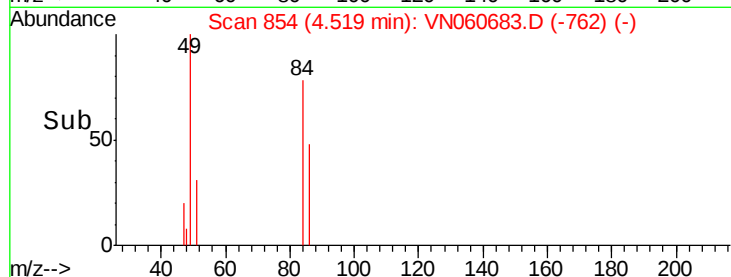
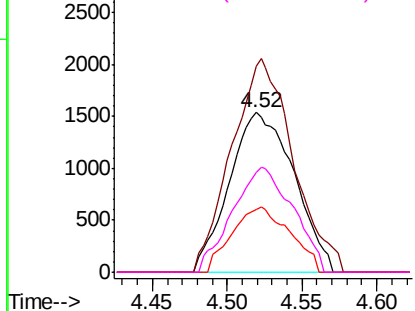
#20
Methvlene Chloride
Concen: 2.030 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	4620
Ion	Ratio	Lower	Upper
84	100		
49	128.6	103.3	154.9
51	39.3	31.6	47.4
86	62.3	52.0	78.0

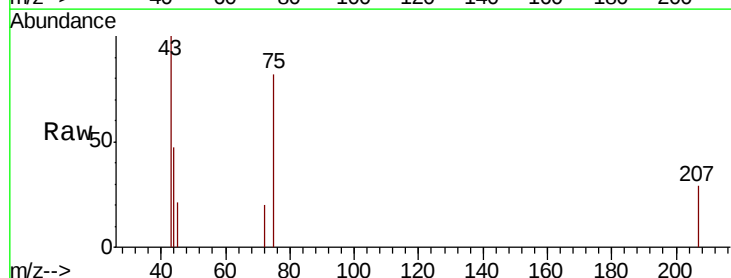


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

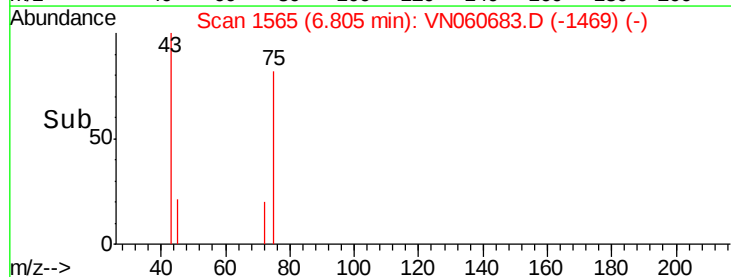
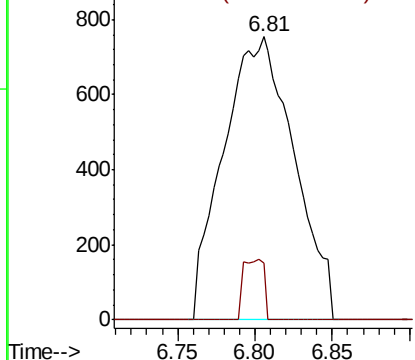


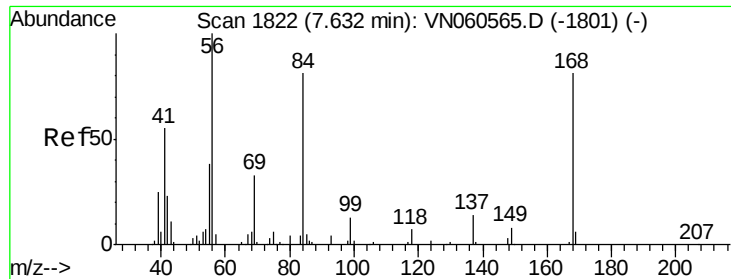
#25
2-Butanone
Concen: 1.603 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Tgt Ion:	43	Resp:	2399
Ion	Ratio	Lower	Upper
43	100		
72	20.0	20.4	30.6#



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

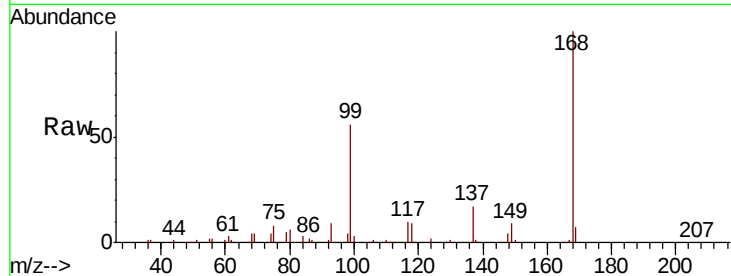




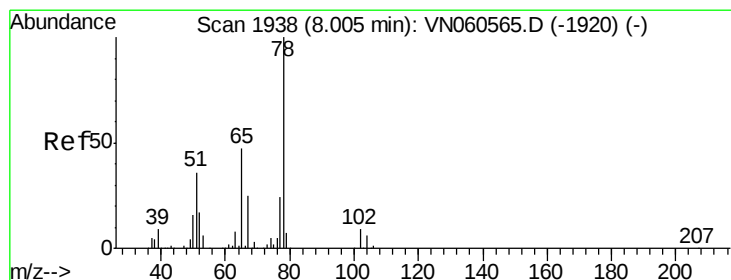
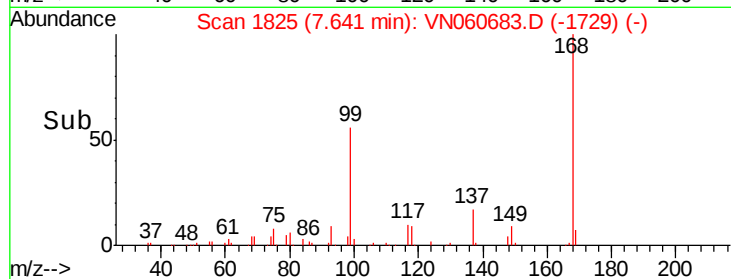
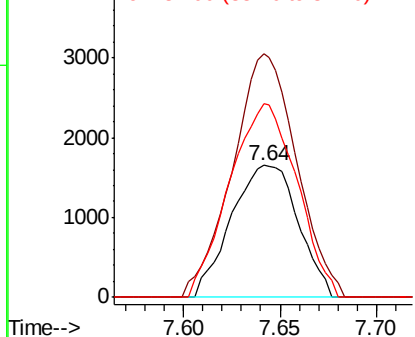
#31
Cyclohexane
Concen: 0.946 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3979
Ion Ratio Lower Upper
56 100
69 173.5 26.6 40.0#
84 147.5 64.3 96.5#

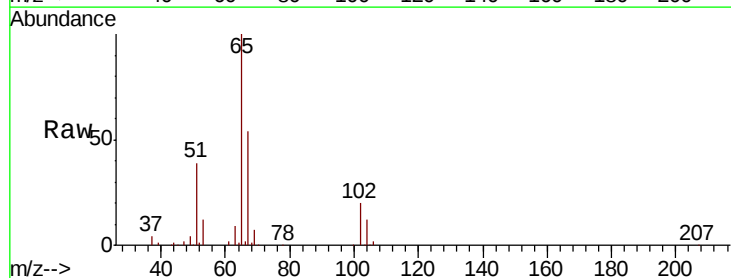


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

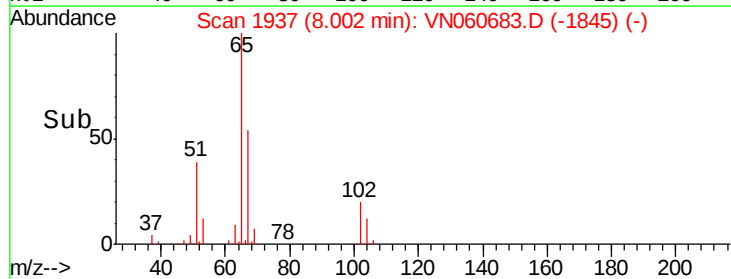
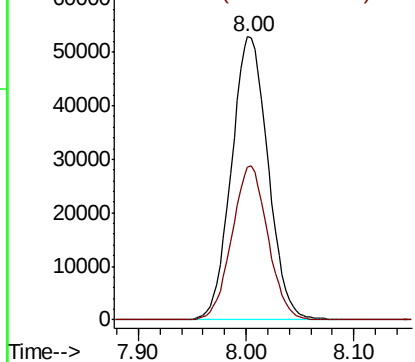


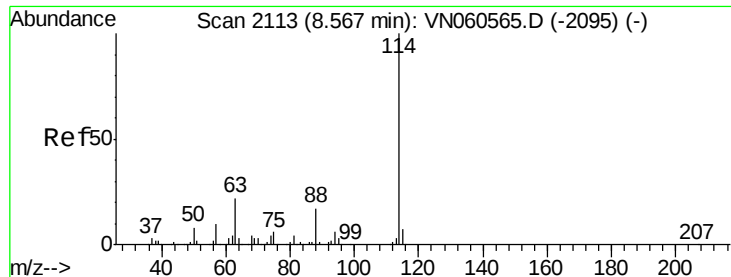
#33
1,2-Dichloroethane-d4
Concen: 47.840 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Tgt Ion: 65 Resp: 124936
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

ClientSampleId :

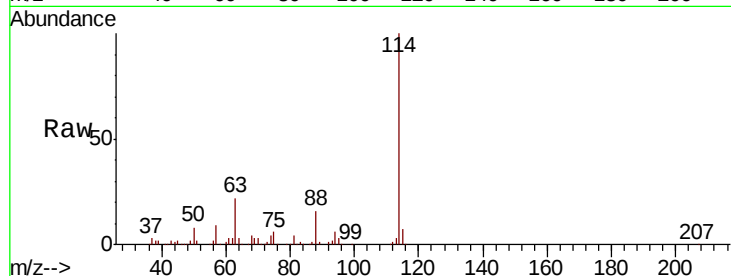
Tot Ion:114 Resp: 317671

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

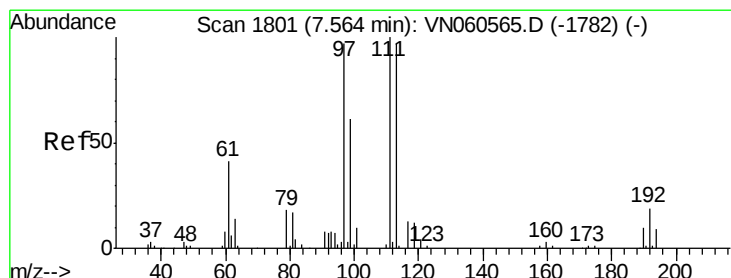
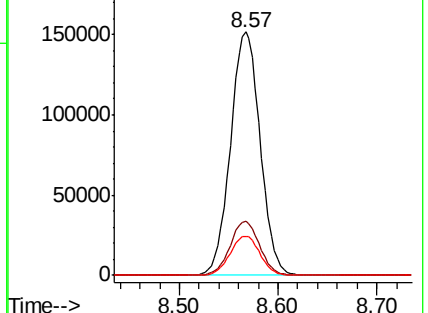
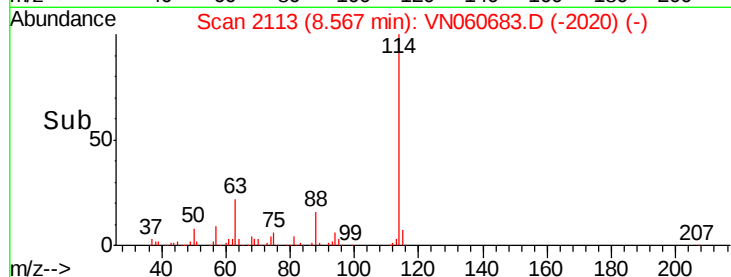
88 16.2 0.0 33.0



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: 49.760 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

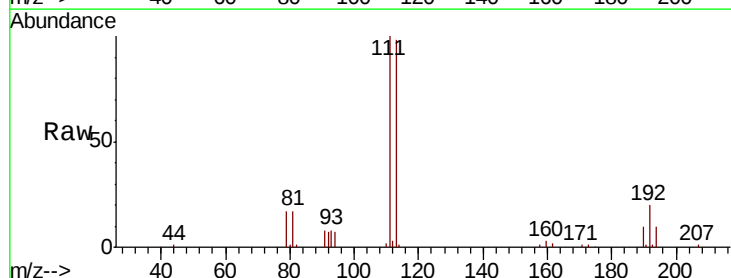
Tgt Ion:113 Resp: 95581

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

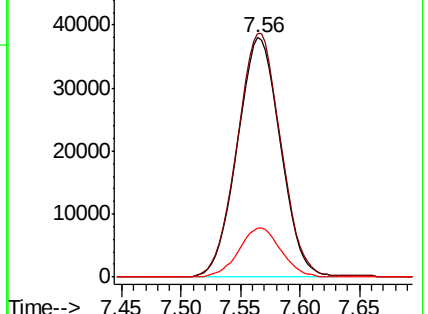
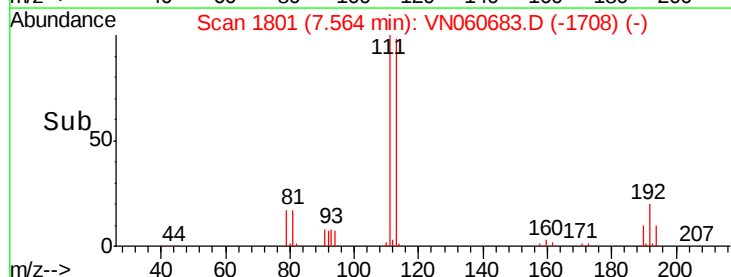
192 20.1 15.8 23.8

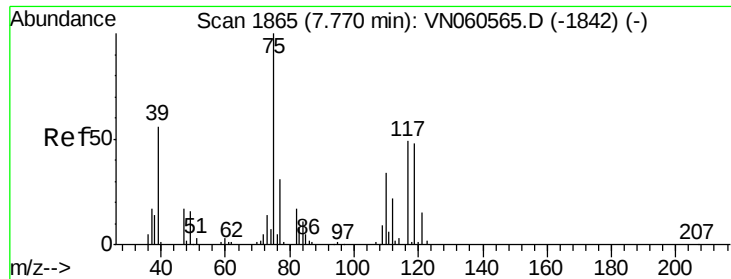


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

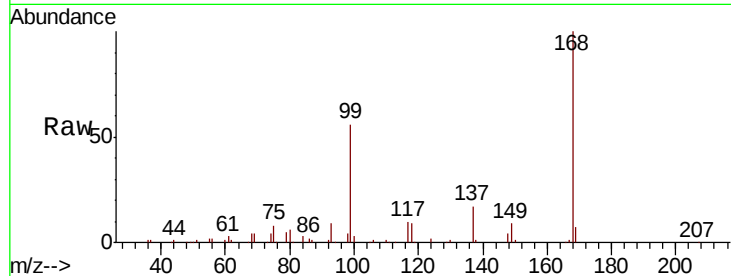




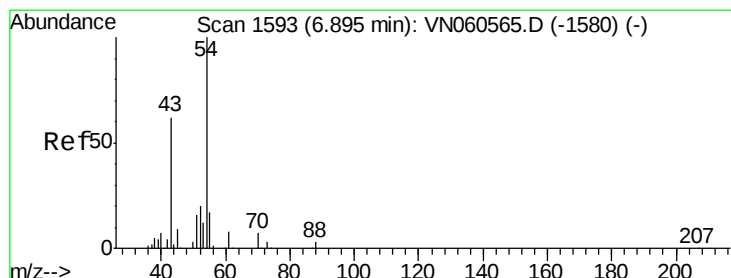
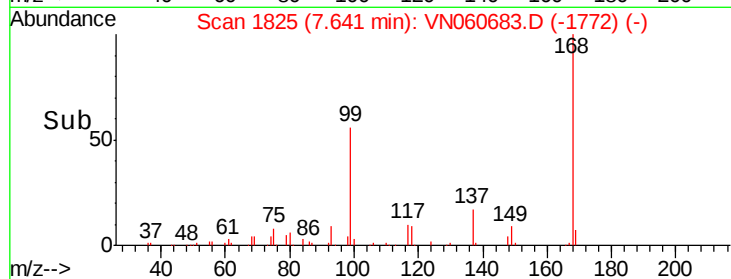
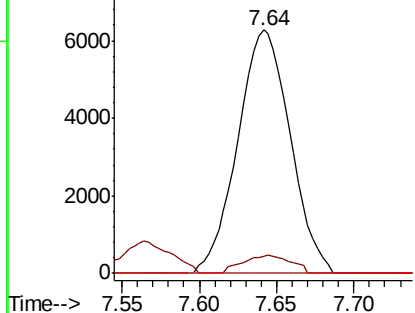
#36
 1,1-Dichloropropene
 Concen: 4.812 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060683.D
 Acq: 24 Mar 2020 19:24

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.8	16.9	50.6#
77	0.0	24.6	36.8#

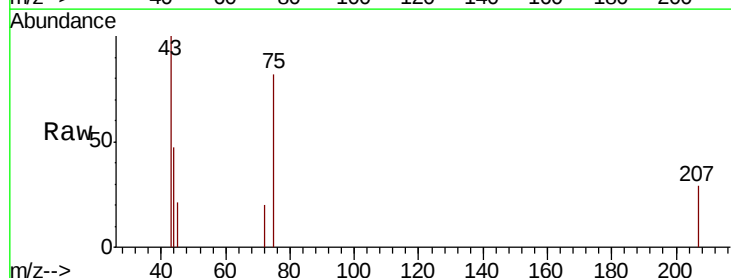


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

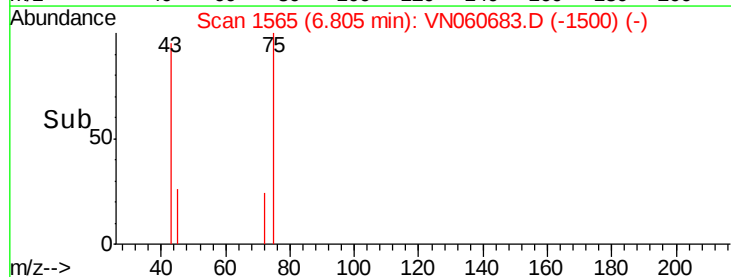
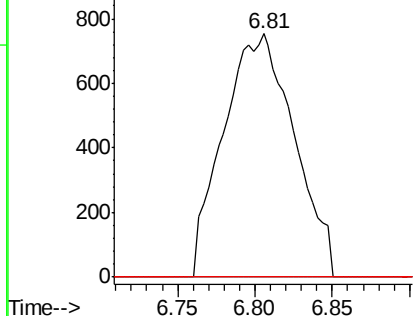


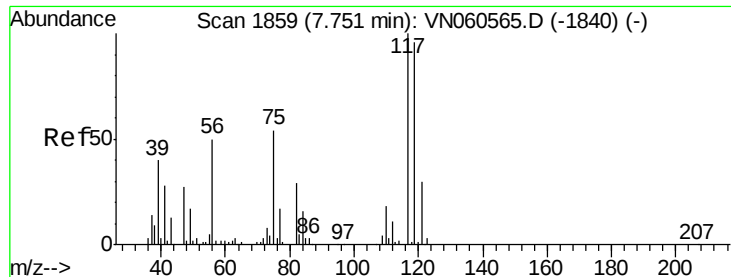
#37
 Ethyl Acetate
 Concen: 0.722 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.09 min
 Lab File: VN060683.D
 Acq: 24 Mar 2020 19:24

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



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.630 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

ClientSampled :

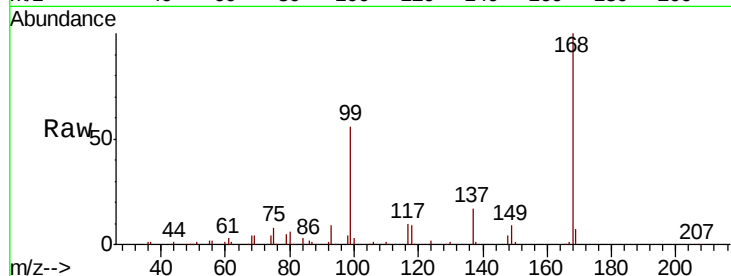
Tot Ion:117 Resp: 18277

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

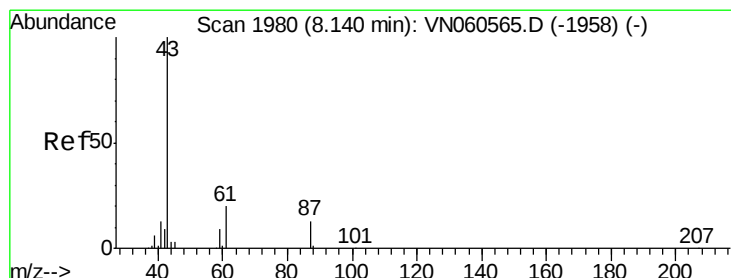
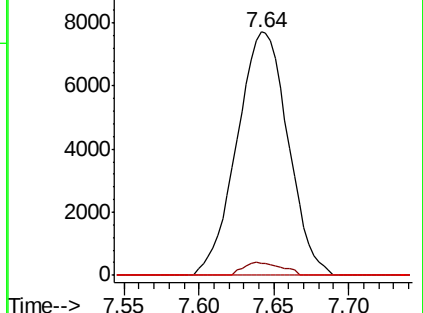
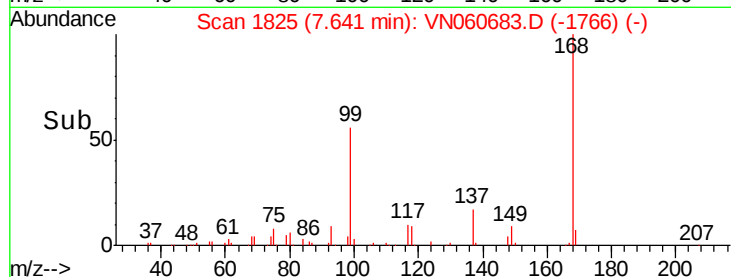
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.017 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

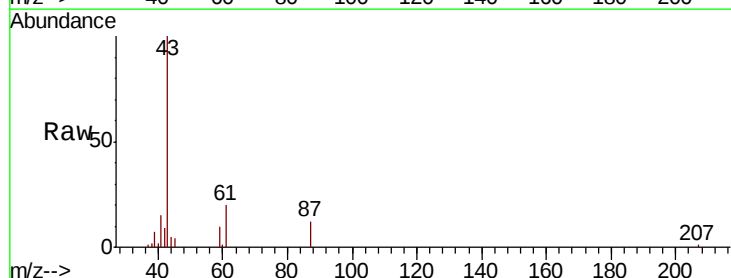
Tgt Ion: 43 Resp: 60391

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

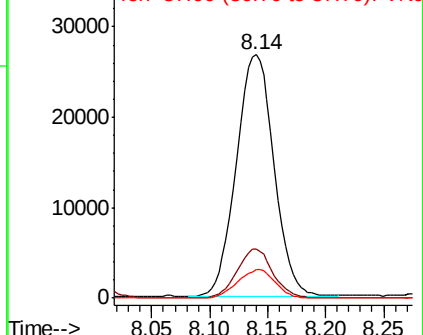
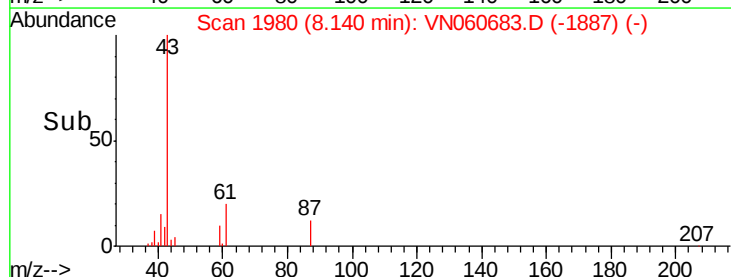
87 11.6 9.8 14.8

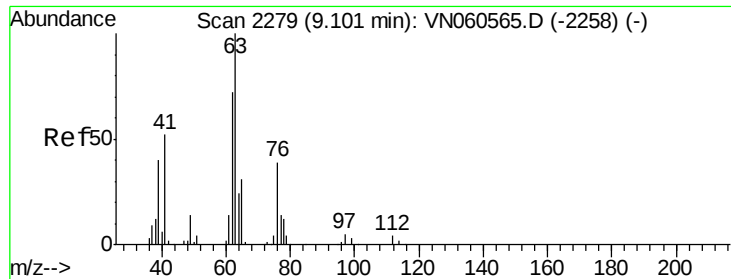


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

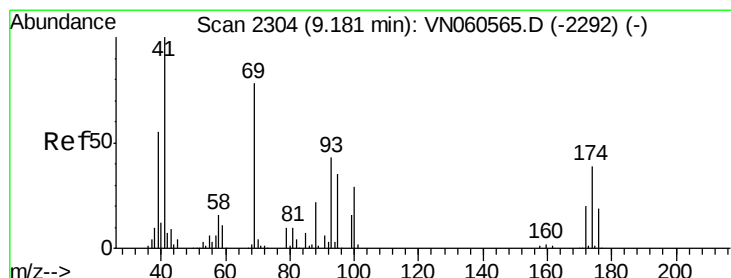
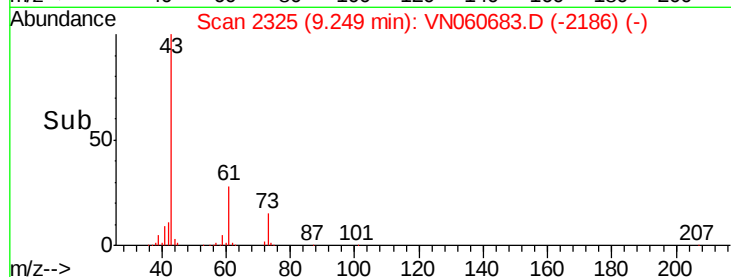
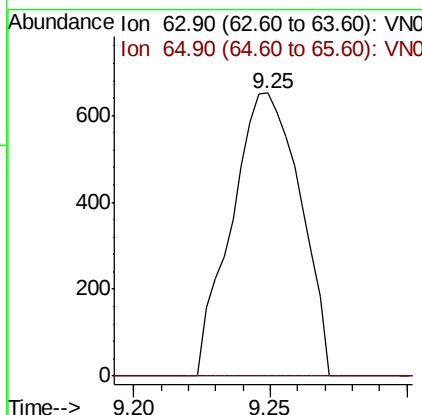
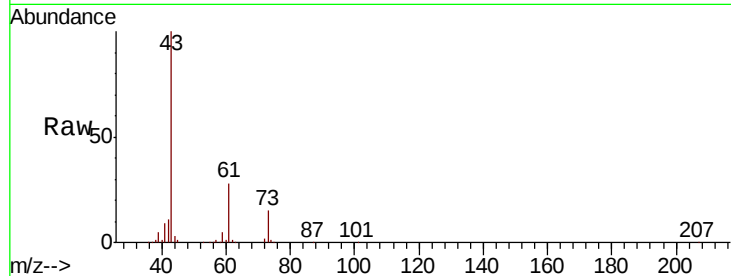




#45
 1,2-Dichloropropane
 Concen: 0.463 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060683.D
 Acq: 24 Mar 2020 19:24

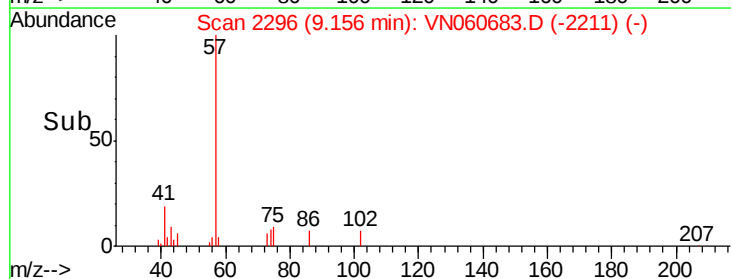
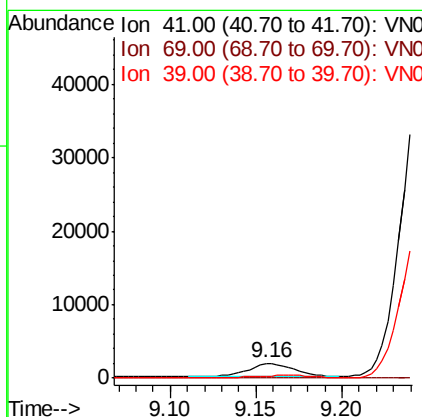
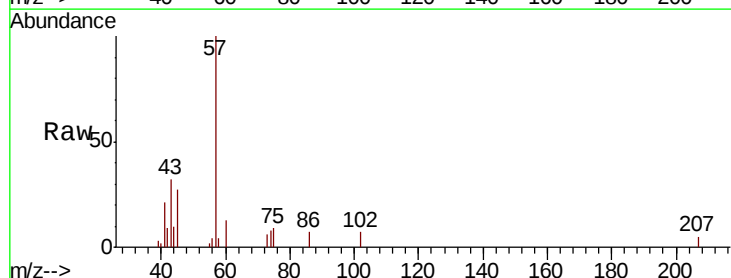
Instrument :
 MSVOA_N
 ClientSampleId :

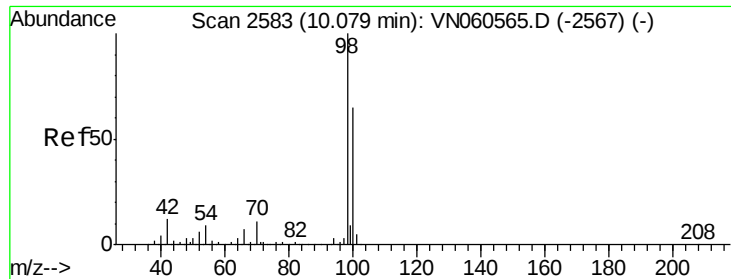
Tot Ion: 63 Resp: 1135
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.444 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.03 min
 Lab File: VN060683.D
 Acq: 24 Mar 2020 19:24

Tgt Ion: 41 Resp: 3524
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#





#50

Toluene-d8

Concen: 50.421 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

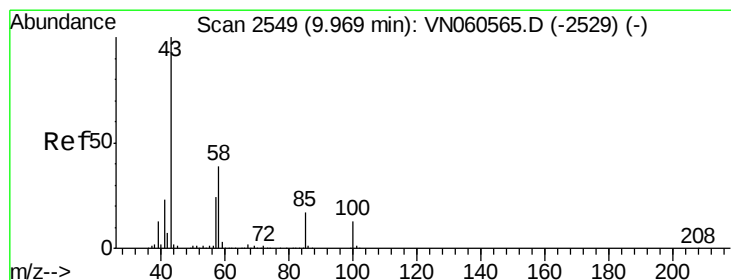
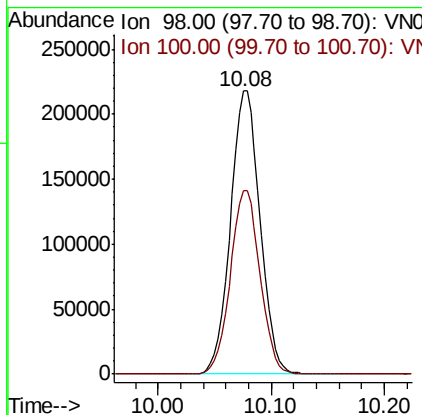
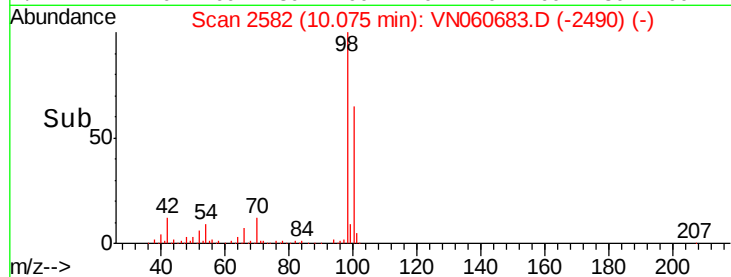
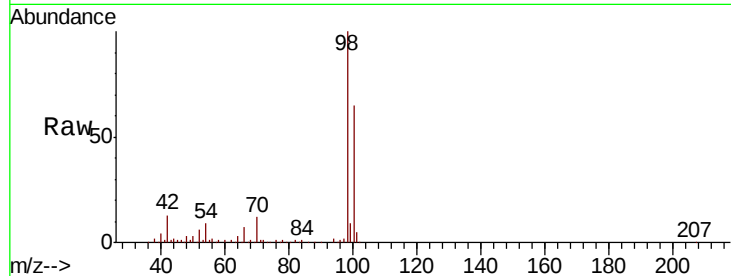
ClientSampleId :

Tot Ion: 98 Resp: 395604

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.654 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060683.D

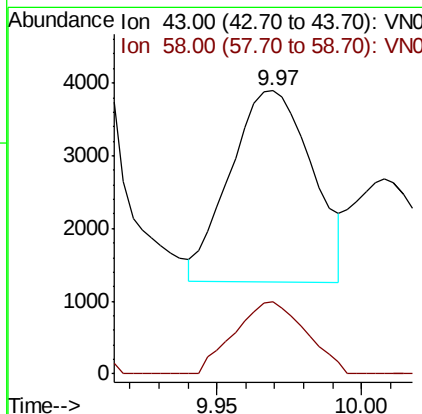
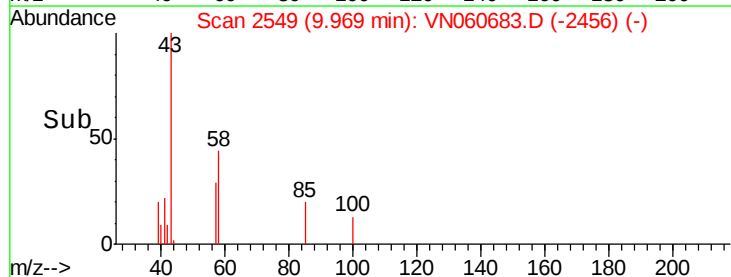
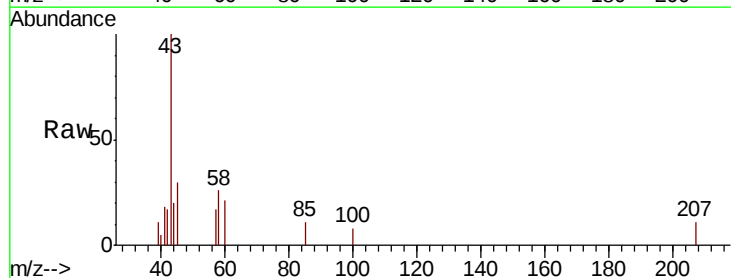
Acq: 24 Mar 2020 19:24

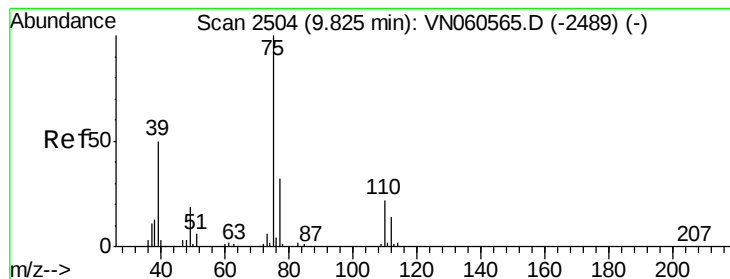
Tgt Ion: 43 Resp: 5159

Ion Ratio Lower Upper

43 100

58 33.0 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 6.136 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

ClientSampleId :

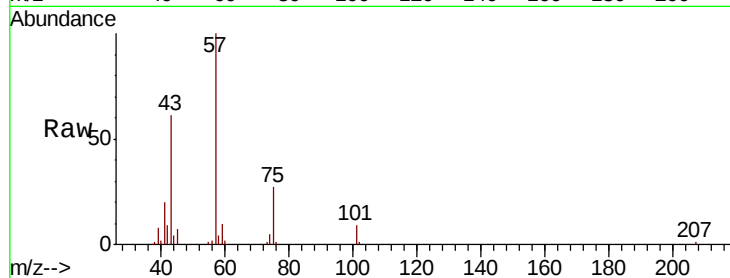
Tot Ion: 75 Resp: 23801

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

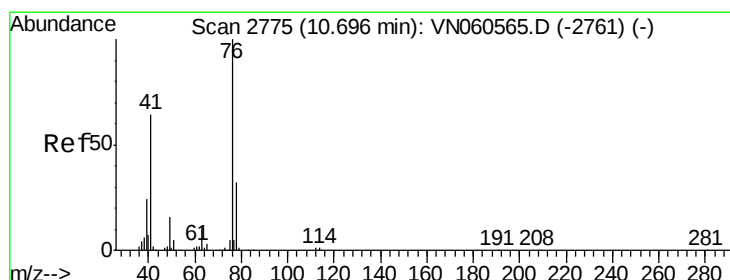
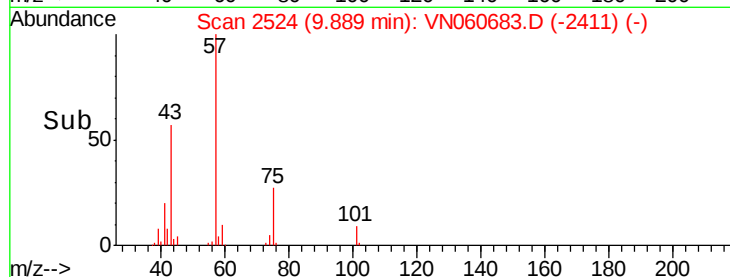
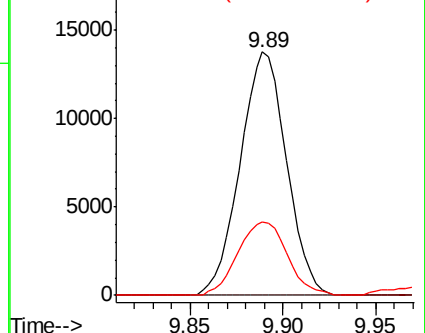
39 30.2 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060565.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060565.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 1.075 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060683.D

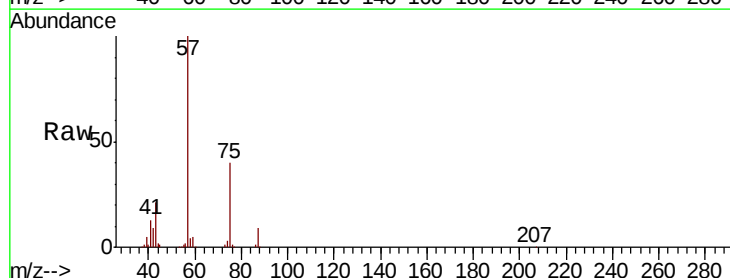
Acq: 24 Mar 2020 19:24

Tgt Ion: 76 Resp: 4024

Ion Ratio Lower Upper

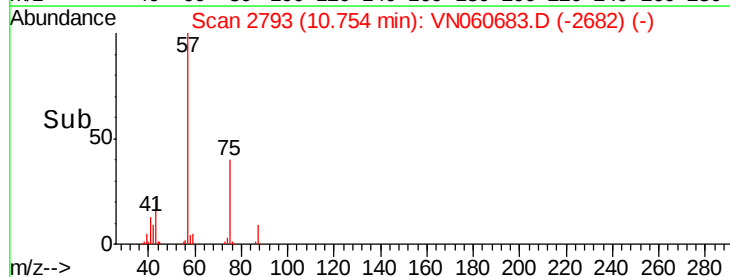
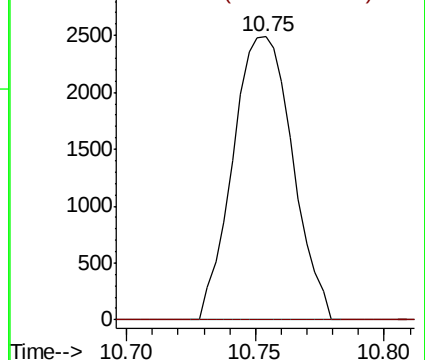
76 100

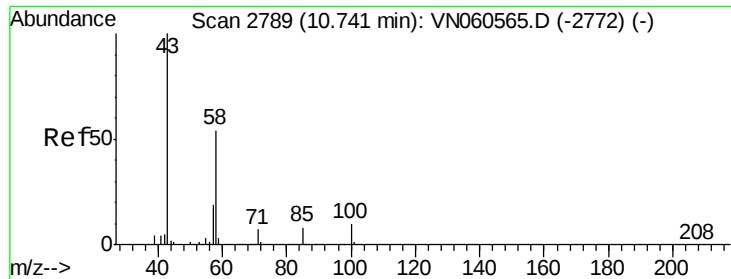
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060565.D (-2761) (-)

Ion 77.90 (77.60 to 78.60): VN060565.D (-2761) (-)

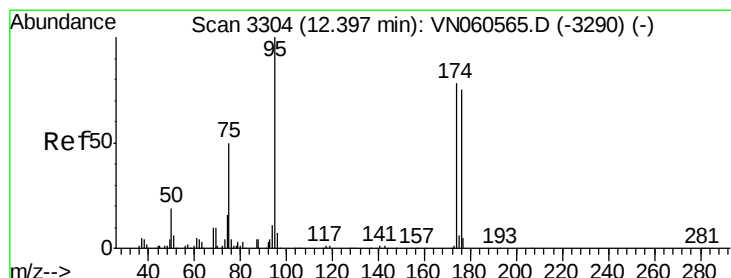
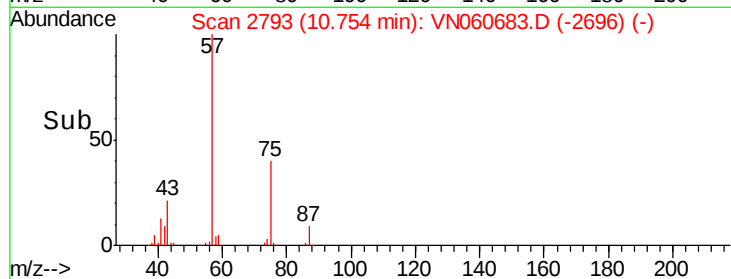
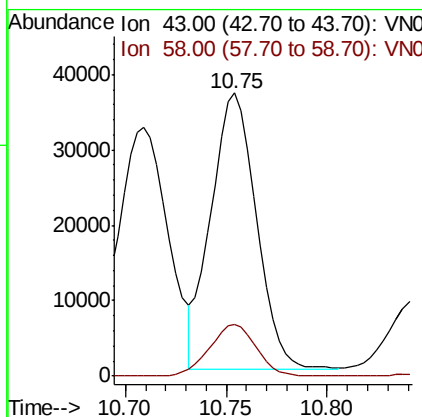
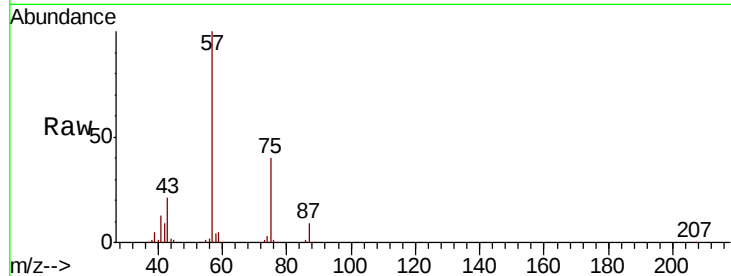




#59
2-Hexanone
Concen: 25.434 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

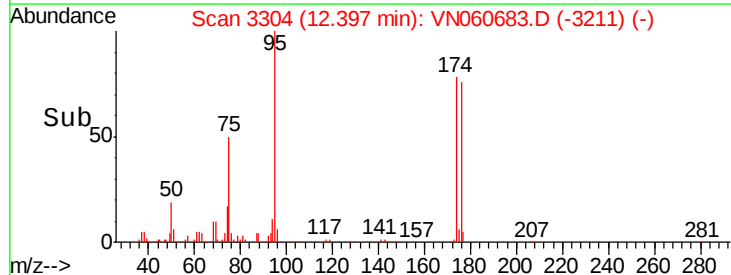
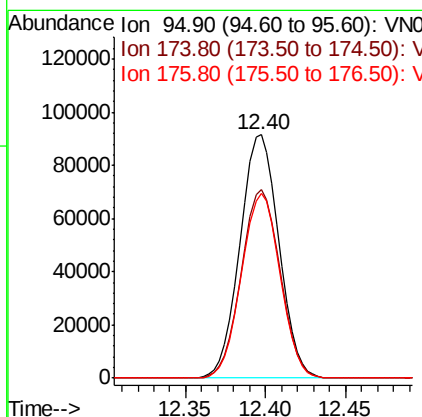
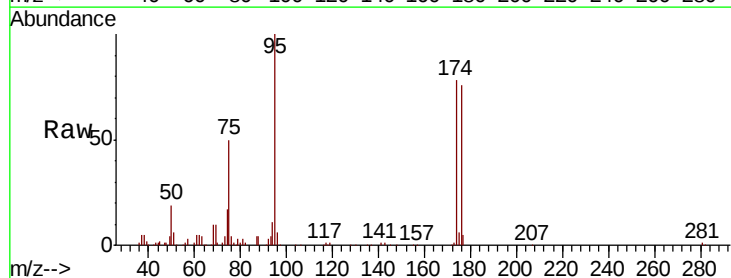
Instrument :
MSVOA_N
ClientSampled :

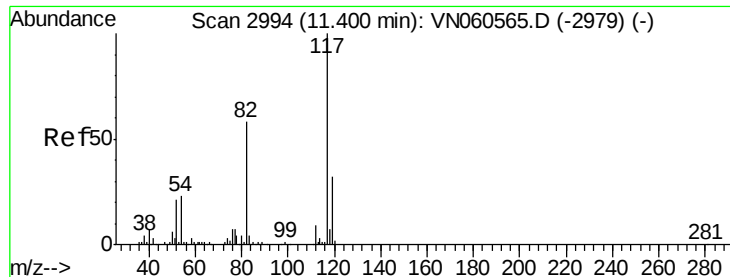
Tot Ion: 43 Resp: 57148
Ion Ratio Lower Upper
43 100
58 19.2 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.638 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Tgt Ion: 95 Resp: 151357
Ion Ratio Lower Upper
95 100
174 77.7 0.0 157.6
176 75.7 0.0 150.6

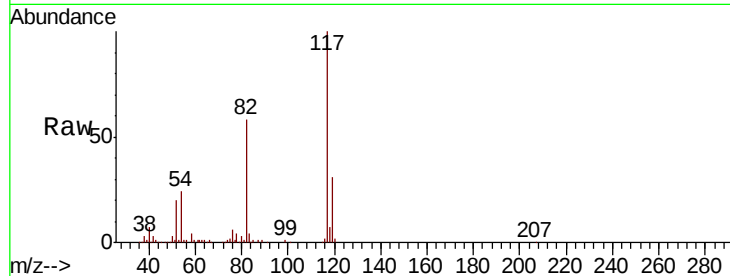




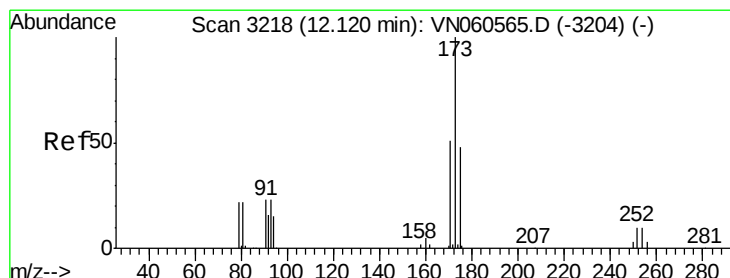
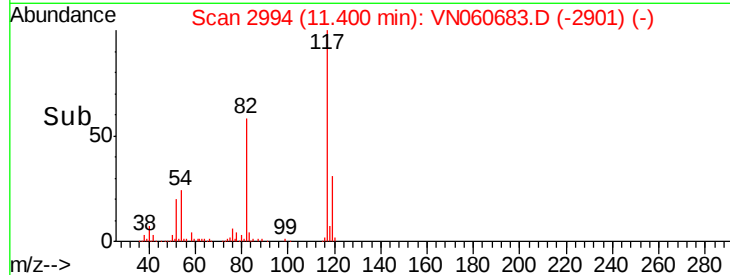
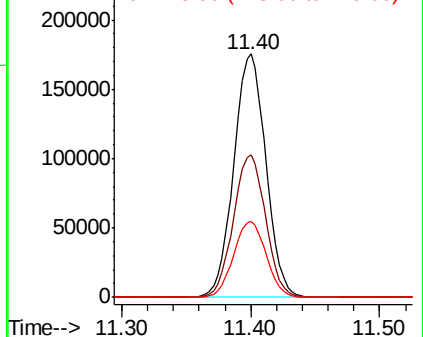
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 302927
Ion Ratio Lower Upper
117 100
82 58.4 46.7 70.1
119 31.2 25.5 38.3

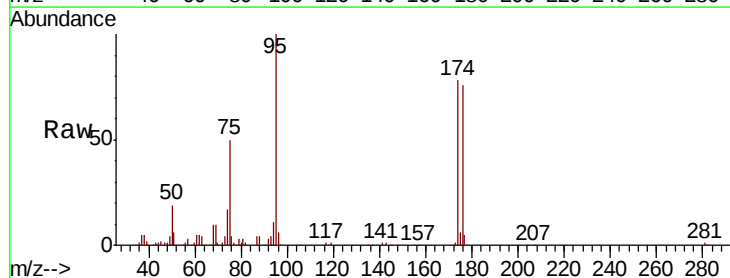


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

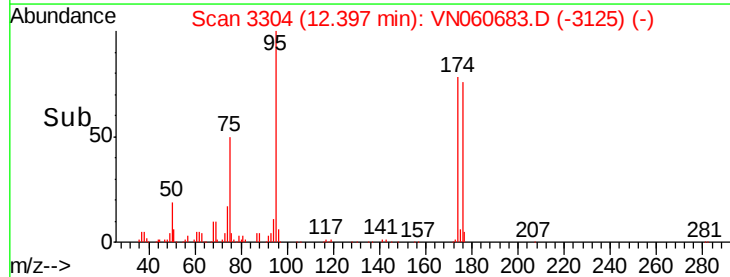
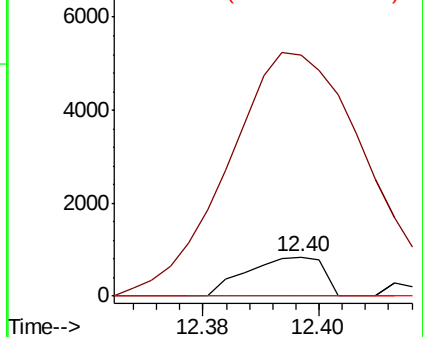


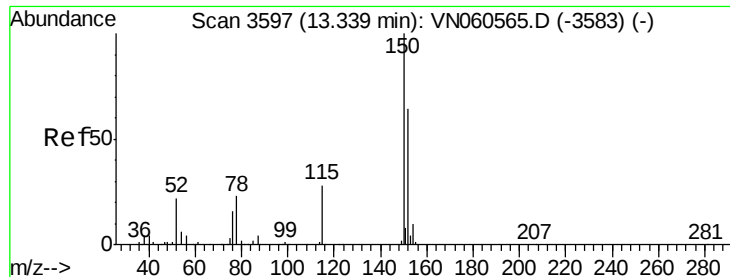
#71
Bromoform
Concen: 2.092 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060683.D
Acq: 24 Mar 2020 19:24

Tgt Ion:173 Resp: 770
Ion Ratio Lower Upper
173 100
175 962.6 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: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

ClientSampleId :

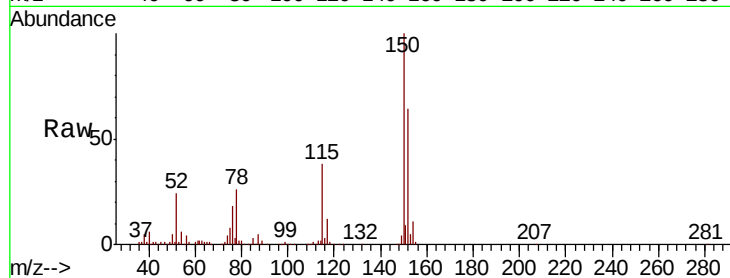
Tot Ion:152 Resp: 145243

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

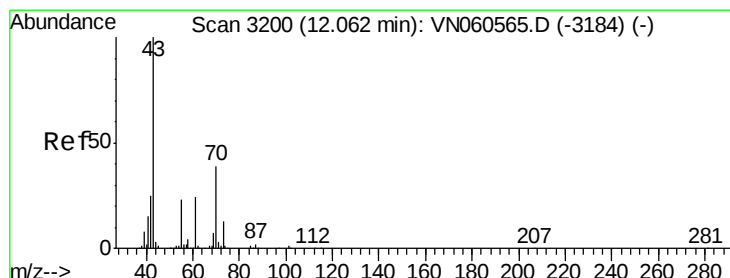
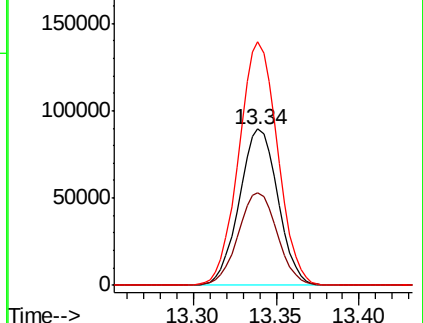
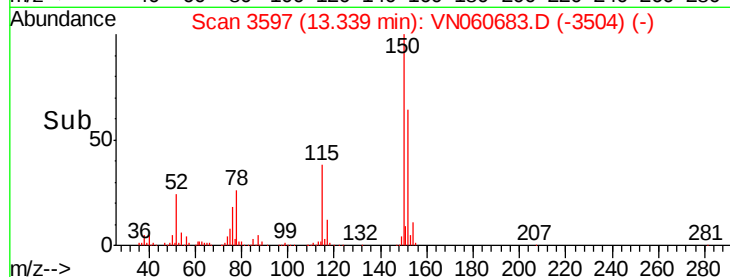
150 156.3 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.483 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Tgt Ion: 43 Resp: 2431

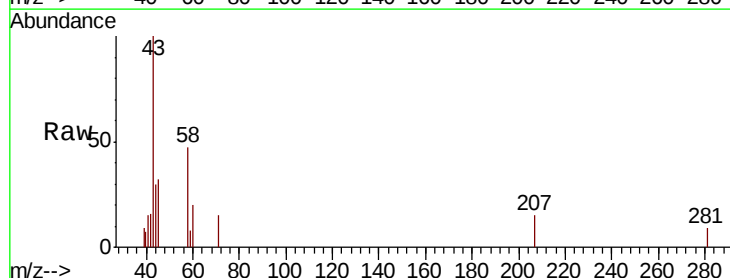
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

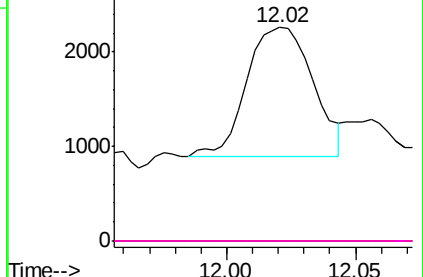
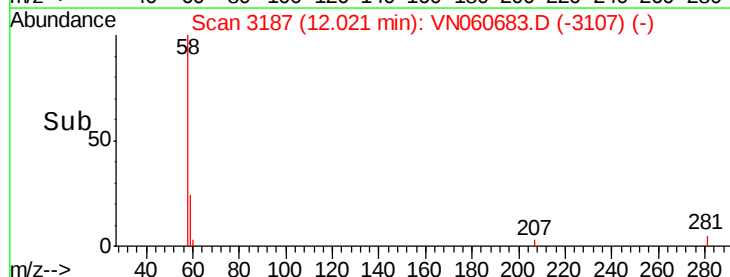


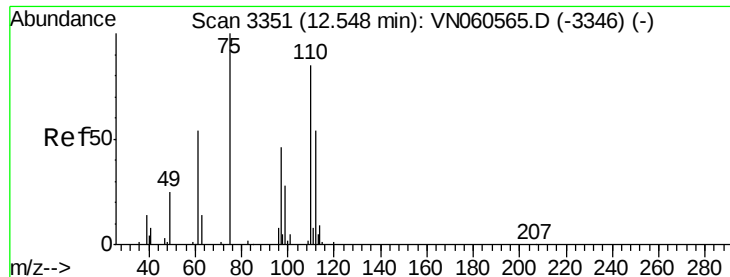
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

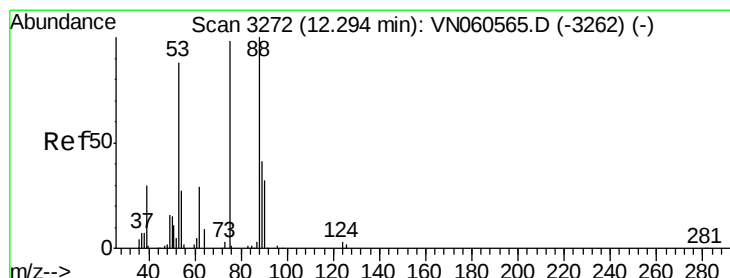
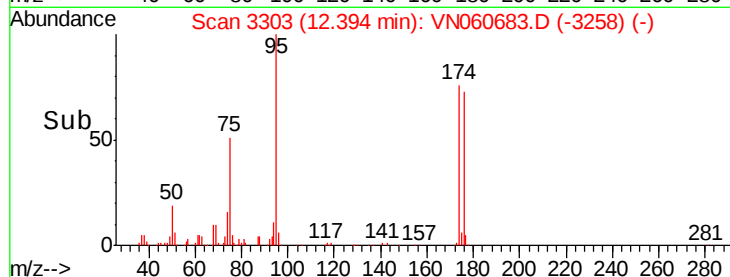
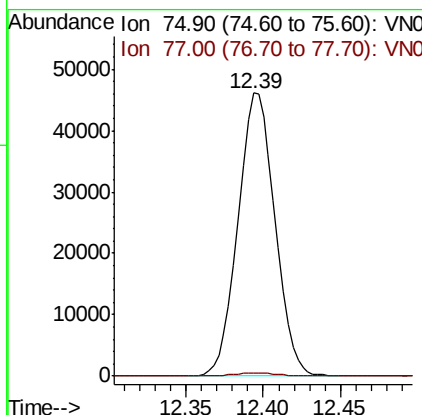
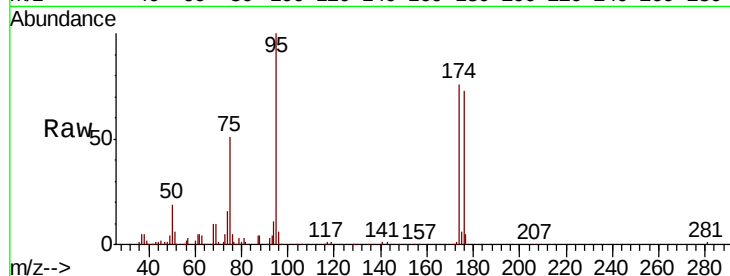




#76
 1,2,3-Trichloropropane
 Concen: 24.451 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.15 min
 Lab File: VN060683.D
 Acq: 24 Mar 2020 19:24

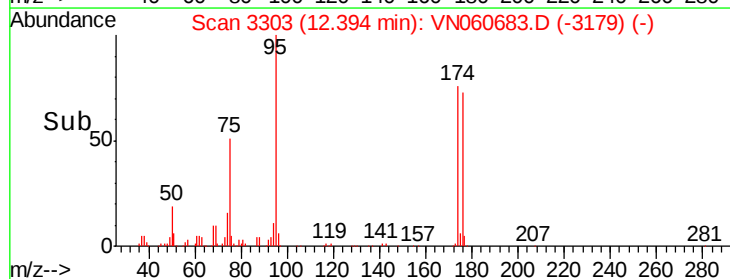
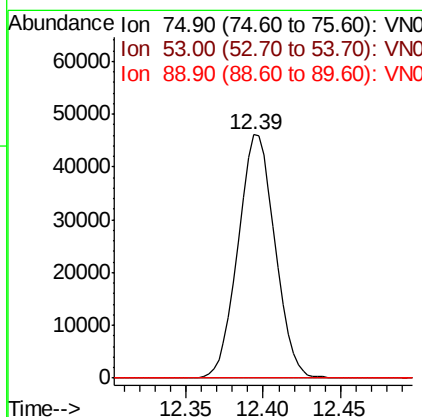
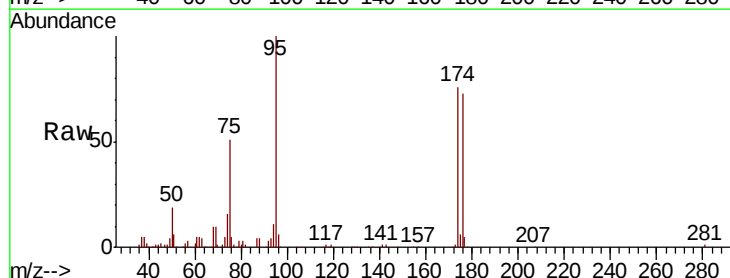
Instrument :
 MSVOA_N
 ClientSampled :

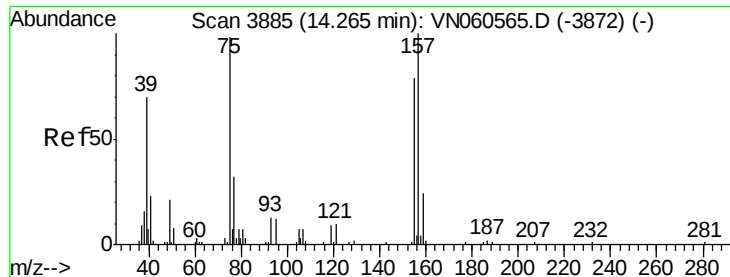
Tot Ion: 75 Resp: 76632
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.799 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. 0.10 min
 Lab File: VN060683.D
 Acq: 24 Mar 2020 19:24

Tgt Ion: 75 Resp: 76632
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.470 ug/l

RT: 14.30 min Scan# 3895

Delta R.T. 0.03 min

Lab File: VN060683.D

Acq: 24 Mar 2020 19:24

Instrument :

MSVOA_N

ClientSampleId :

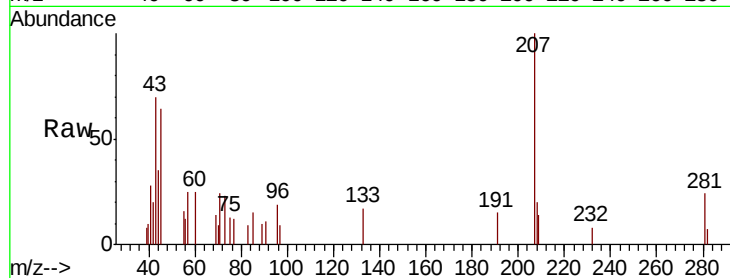
Tot Ion: 75 Resp: 508

Ion Ratio Lower Upper

75 100

155 0.0 40.7 122.1#

157 0.0 51.5 154.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060683.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060683.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060683.D (-3791) (-)

