

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060984.D
 Acq On : 16 Apr 2020 00:11
 Operator : JC/MD
 Sample : L2252-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:42:16 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	140640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	240520	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	226709	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	105418	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	96037	49.74	ug/l	0.00
Spiked Amount						
			Recovery	=	99.48%	
35) Dibromofluoromethane	7.56	113	71797	49.37	ug/l	0.00
Spiked Amount						
			Recovery	=	98.74%	
50) Toluene-d8	10.08	98	301487	50.75	ug/l	0.00
Spiked Amount						
			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.39	95	115529	53.07	ug/l	0.00
Spiked Amount						
			Recovery	=	106.14%	

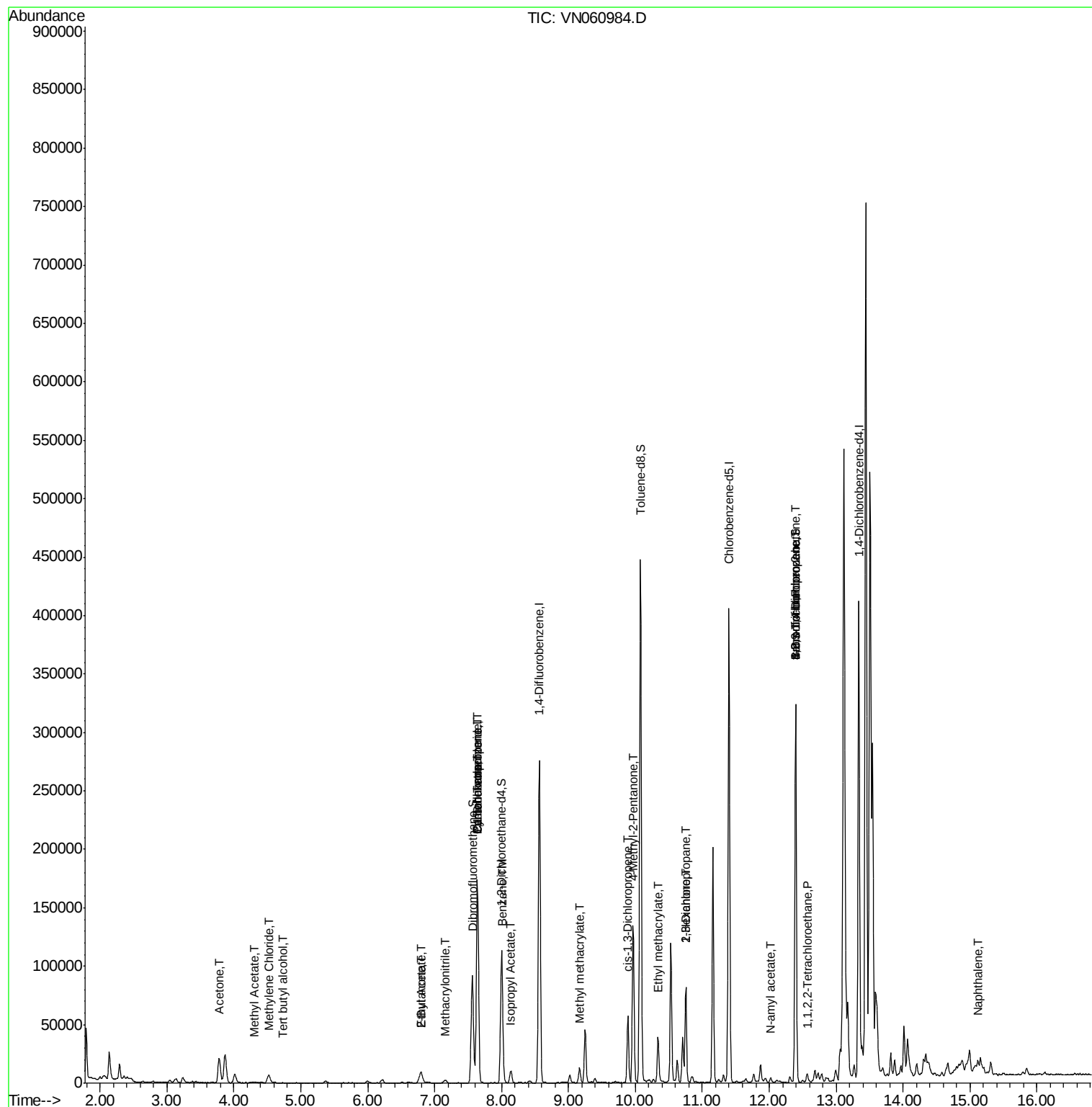
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	377	1.328	ug/l #	72
16) Acetone	3.78	43	37478	54.802	ug/l	100
18) Methyl Acetate	4.29	43	1863	0.968	ug/l #	54
20) Methylene Chloride	4.52	84	5256	3.124	ug/l	94
25) 2-Butanone	6.80	43	16020	14.476	ug/l	94
31) Cyclohexane	7.64	56	2991	0.962	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11411	4.900	ug/l #	48
37) Ethyl Acetate	6.80	43	16020	6.366	ug/l #	70
38) Carbon Tetrachloride	7.64	117	13593	6.512	ug/l #	16
40) Benzene	8.02	78	2394	0.341	ug/l	96
41) Methacrylonitrile	7.15	41	392	0.365	ug/l #	100
43) Isopropyl Acetate	8.14	43	13035	3.141	ug/l #	87
48) Methyl methacrylate	9.16	41	2590	1.402	ug/l #	28
51) 4-Methyl-2-Pentanone	9.97	43	96848	41.009	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	10144	3.454	ug/l #	62
56) Ethyl methacrylate	10.34	69	5997	2.355	ug/l #	54
57) 1,3-Dichloropropane	10.75	76	677	0.239	ug/l #	42
59) 2-Hexanone	10.75	43	13071	7.683	ug/l #	57
71) Bromoform	12.40	173	472	2.018	ug/l #	1
74) N-amyl acetate	12.02	43	2459	0.673	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.57	83	587	0.245	ug/l #	25
76) 1,2,3-Trichloropropane	12.39	75	58724	25.816	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	58724	66.303	ug/l #	13
95) Naphthalene	15.13	128	1545	0.260	ug/l #	72

(#) = 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: VN060984.D

Acq: 16 Apr 2020 00:11

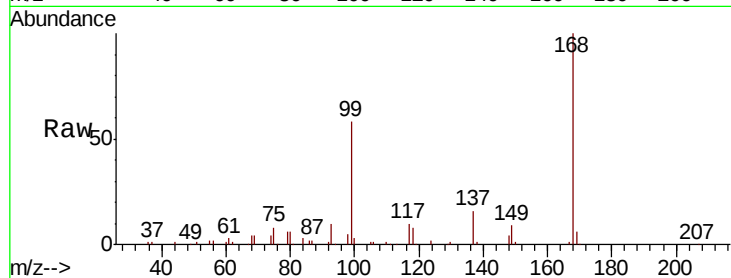
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 140640

Ion Ratio Lower Upper

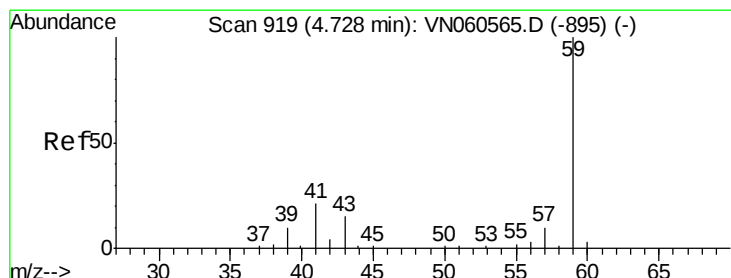
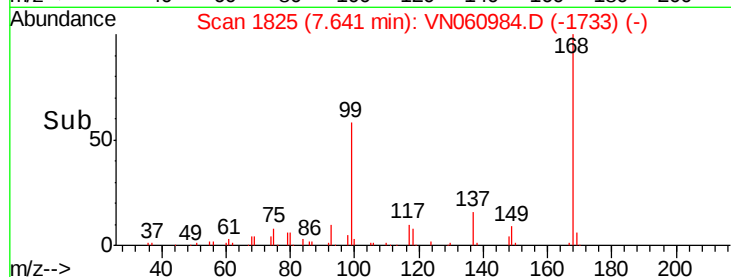
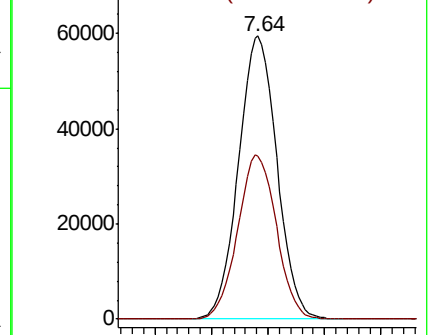
168 100

99 57.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 1.328 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060984.D

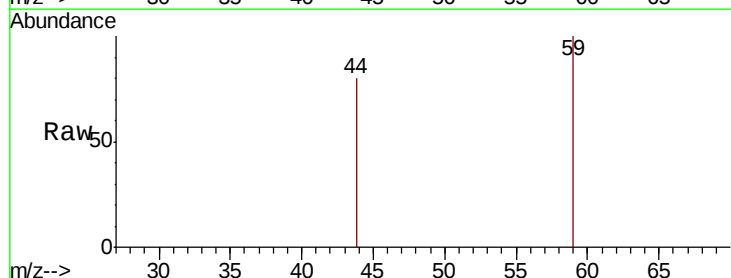
Acq: 16 Apr 2020 00:11

Tgt Ion: 59 Resp: 377

Ion Ratio Lower Upper

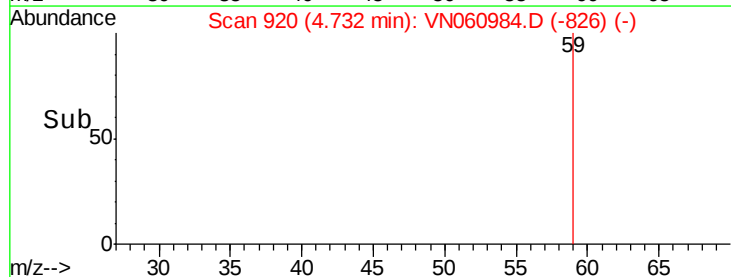
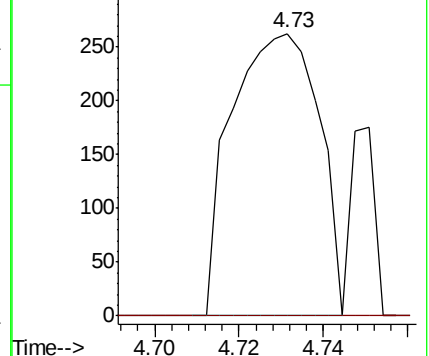
59 100

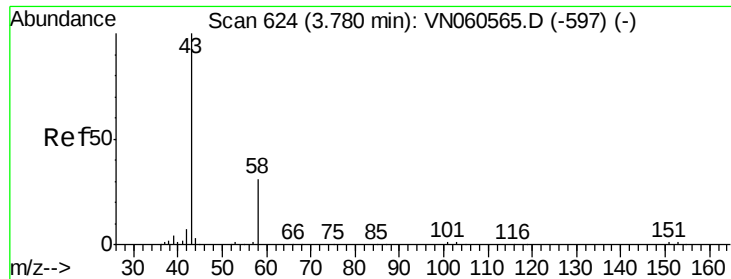
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

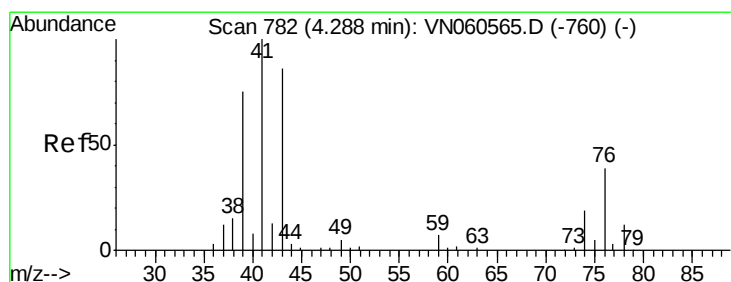
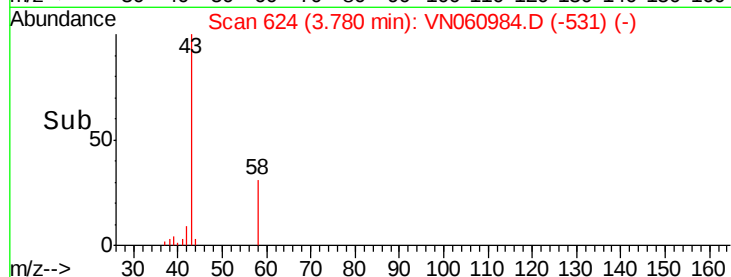
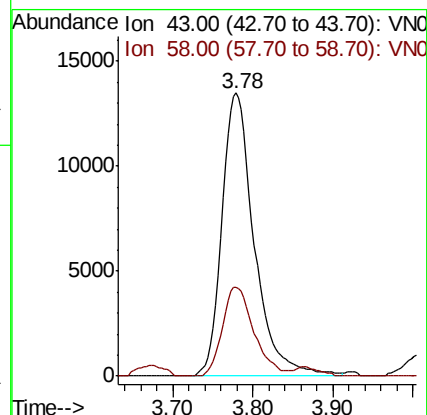
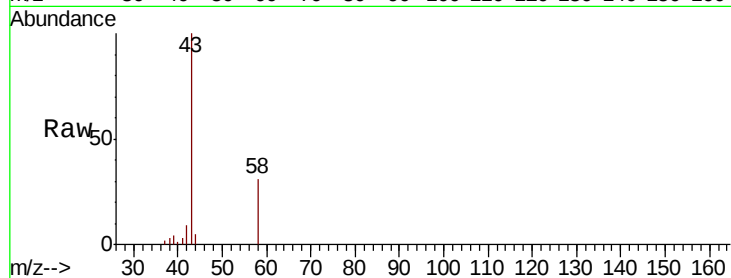




#16
Acetone
Concen: 54.802 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

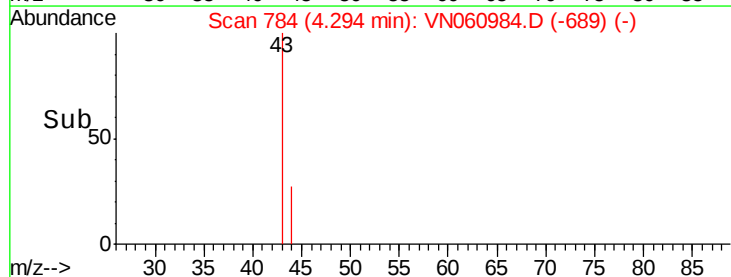
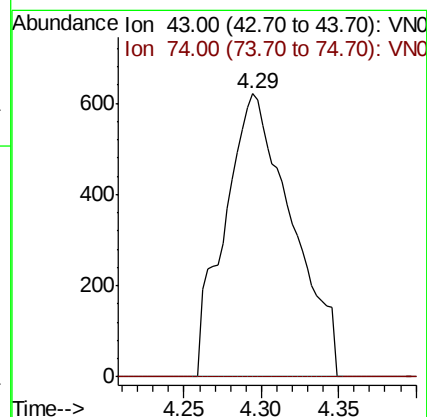
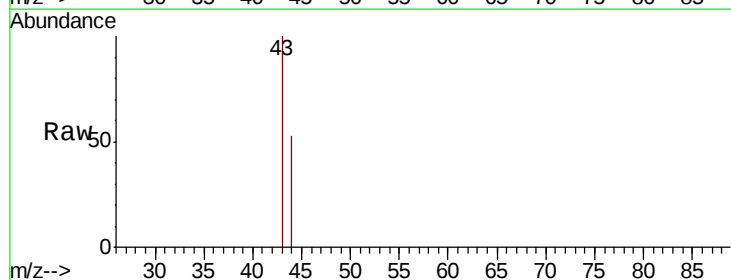
Instrument :
MSVOA_N
ClientSampled :

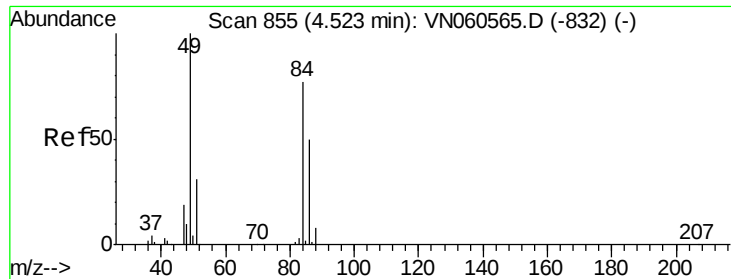
Tot Ion: 43 Resp: 37478
Ion Ratio Lower Upper
43 100
58 31.5 25.1 37.7



#18
Methyl Acetate
Concen: 0.968 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion: 43 Resp: 1863
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

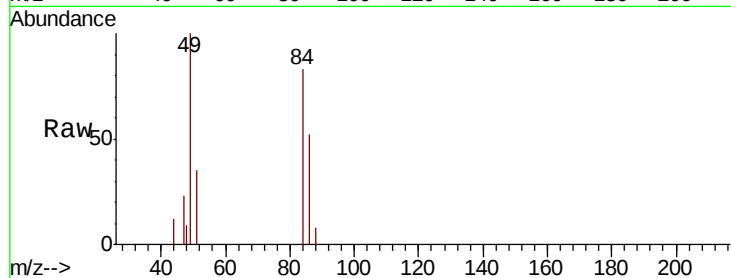




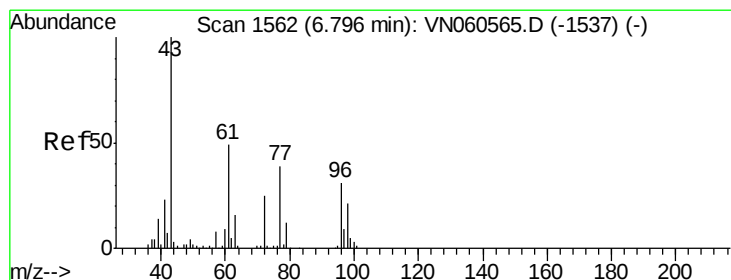
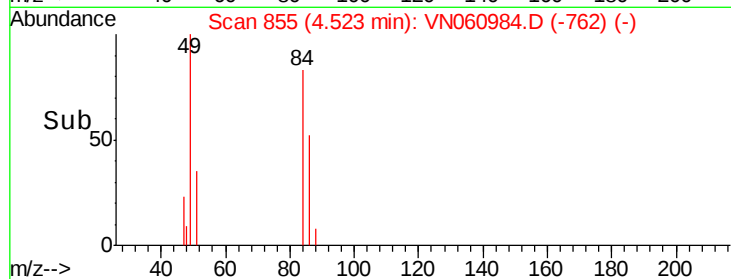
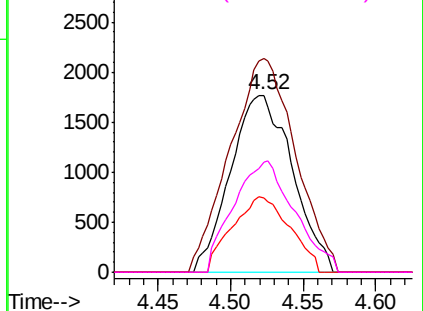
#20
Methvlene Chloride
Concen: 3.124 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	5256
Ion	Ratio	Lower	Upper
84	100		
49	120.5	103.3	154.9
51	41.9	31.6	47.4
86	62.1	52.0	78.0

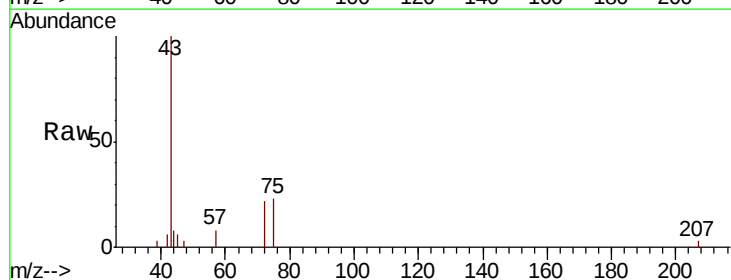


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

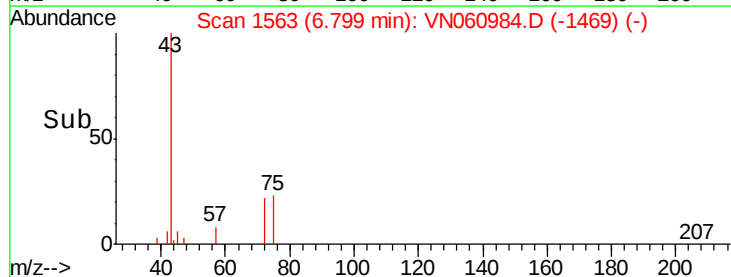
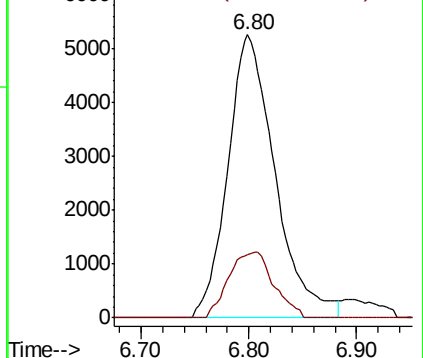


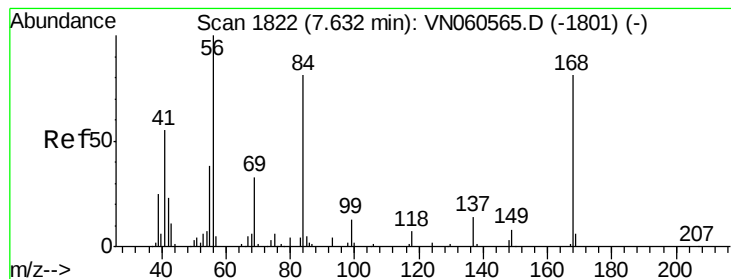
#25
2-Butanone
Concen: 14.476 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion:	43	Resp:	16020
Ion	Ratio	Lower	Upper
43	100		
72	22.3	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: 0.962 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060984.D

Acq: 16 Apr 2020 00:11

Instrument :

MSVOA_N

ClientSampleId :

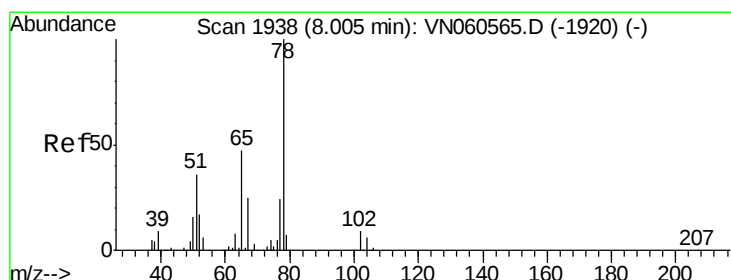
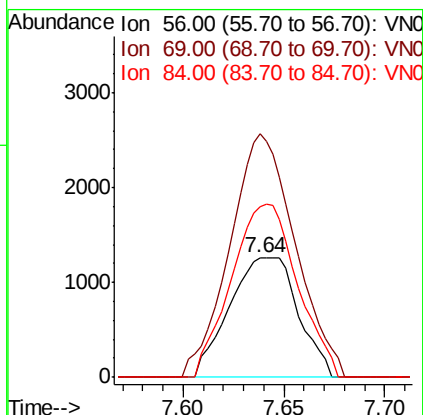
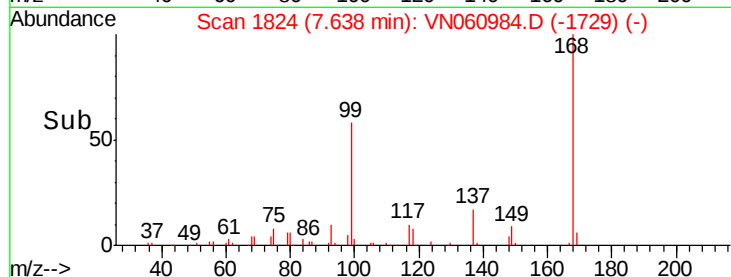
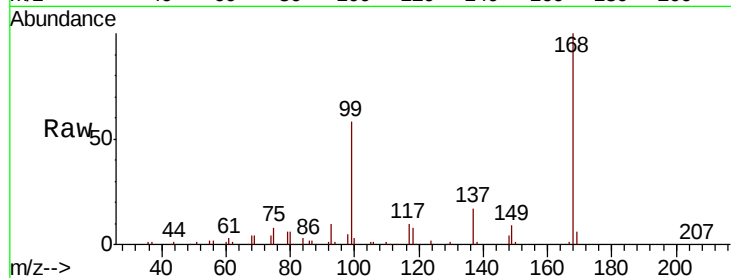
Tot Ion: 56 Resp: 2991

Ion Ratio Lower Upper

56 100

69 188.3 26.6 40.0#

84 142.5 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 49.743 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060984.D

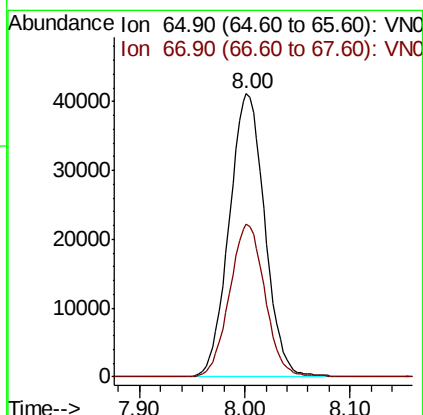
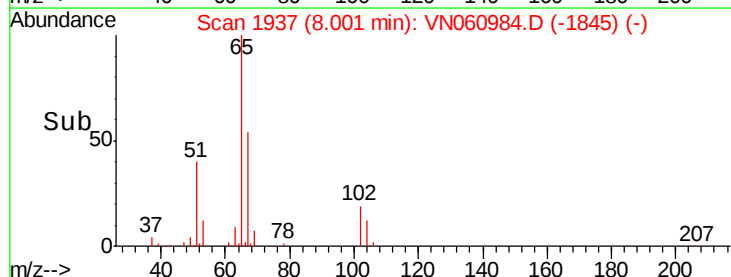
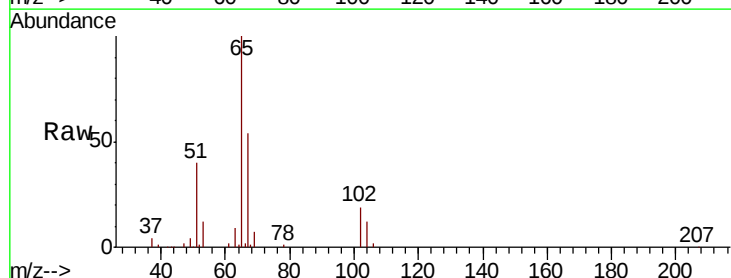
Acq: 16 Apr 2020 00:11

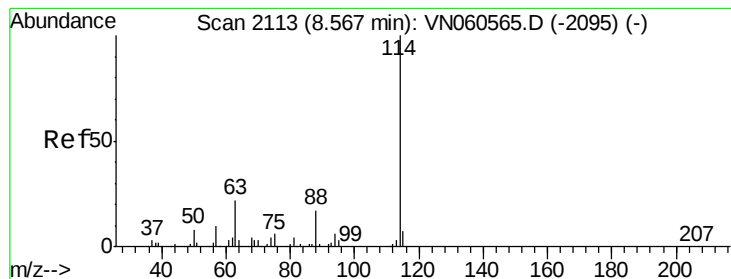
Tgt Ion: 65 Resp: 96037

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: VN060984.D

Acq: 16 Apr 2020 00:11

Instrument :

MSVOA_N

ClientSampleId :

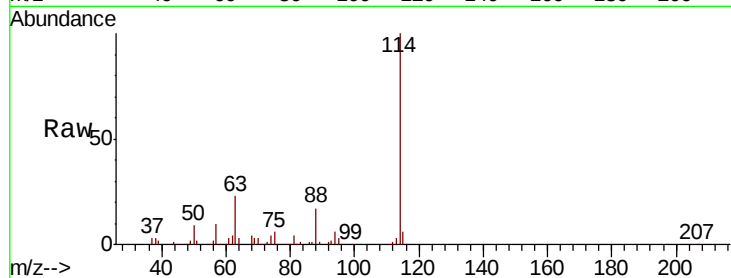
Tot Ion:114 Resp: 240520

Ion Ratio Lower Upper

114 100

63 23.0 0.0 43.8

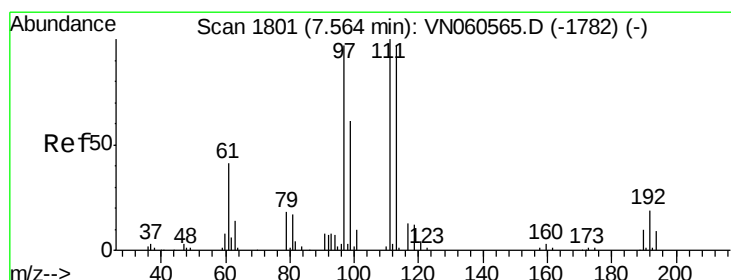
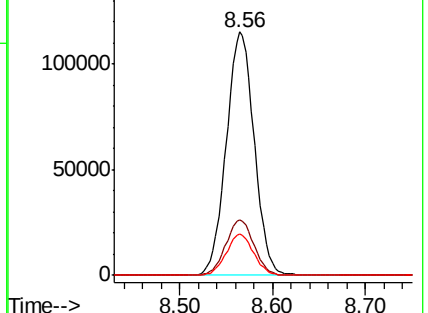
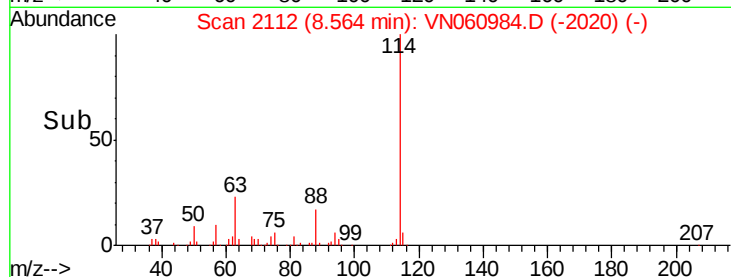
88 16.8 0.0 33.0



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: 49.367 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN060984.D

Acq: 16 Apr 2020 00:11

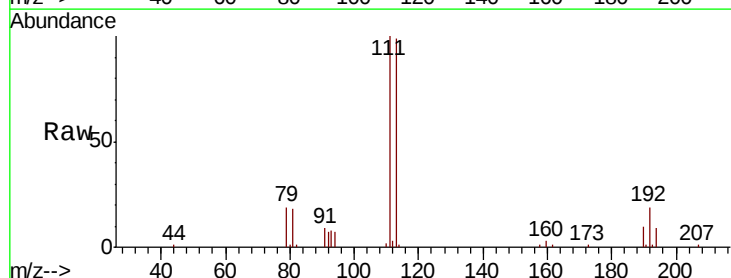
Tgt Ion:113 Resp: 71797

Ion Ratio Lower Upper

113 100

111 102.1 82.9 124.3

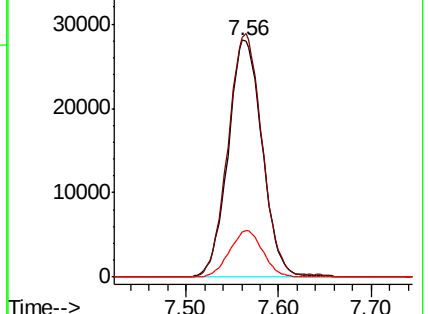
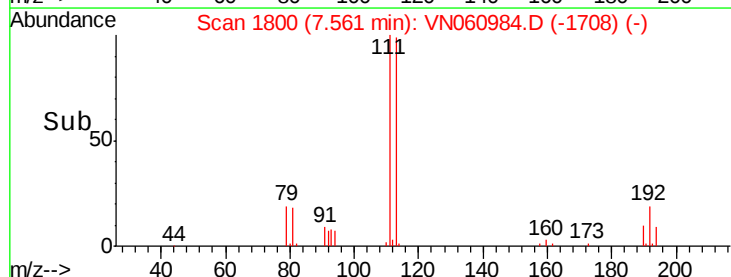
192 19.0 15.8 23.8

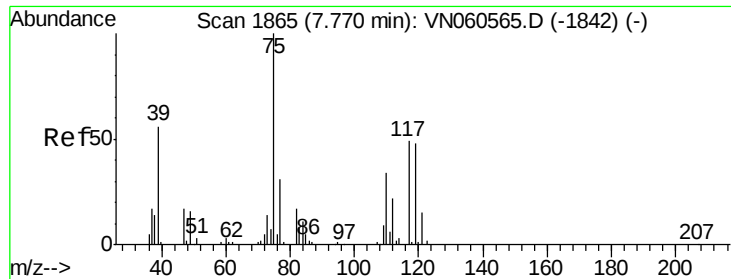


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

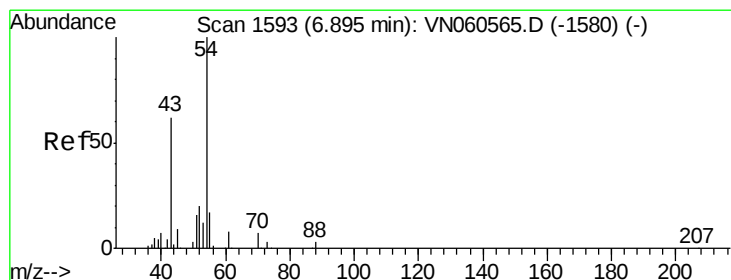
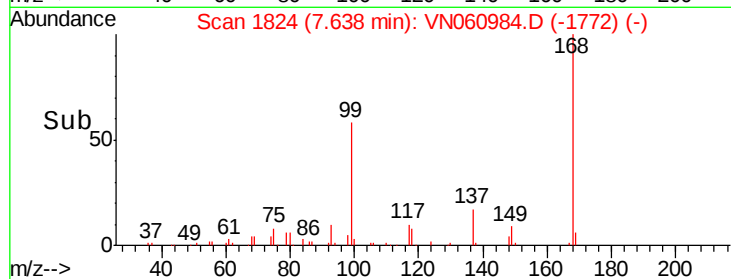
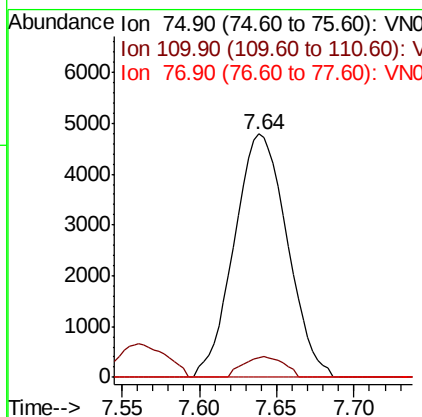
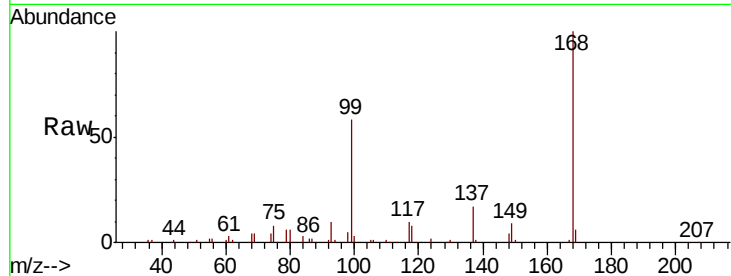




#36
 1,1-Dichloropropene
 Concen: 4.900 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060984.D
 Acq: 16 Apr 2020 00:11

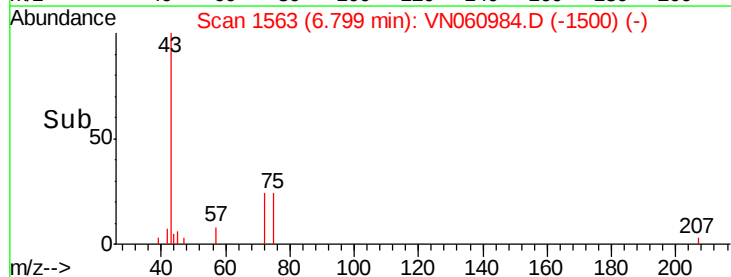
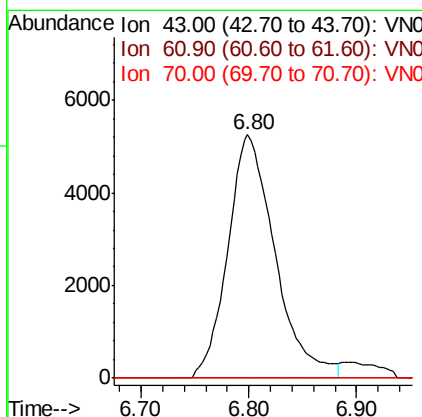
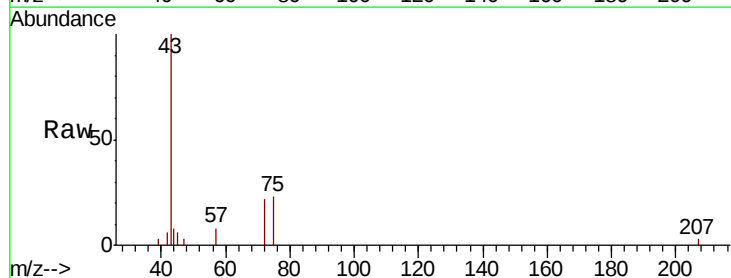
Instrument :
 MSVOA_N
 ClientSampled :

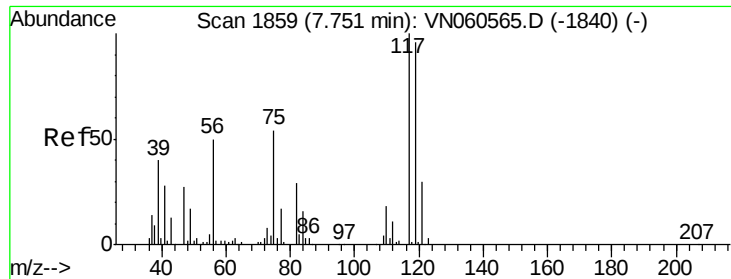
Tot Ion	75	Resp	11411
Ion Ratio	Lower	Upper	
75	100		
110	6.6	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 6.366 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VN060984.D
 Acq: 16 Apr 2020 00:11

Tgt Ion	43	Resp	16020
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#

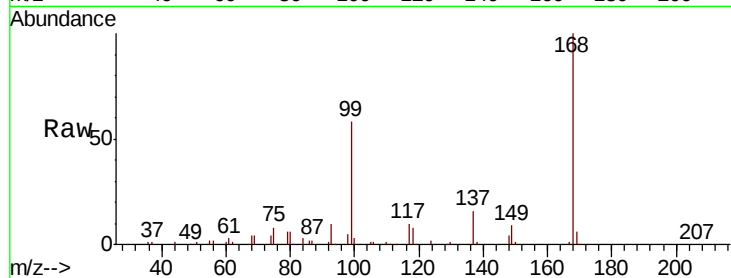




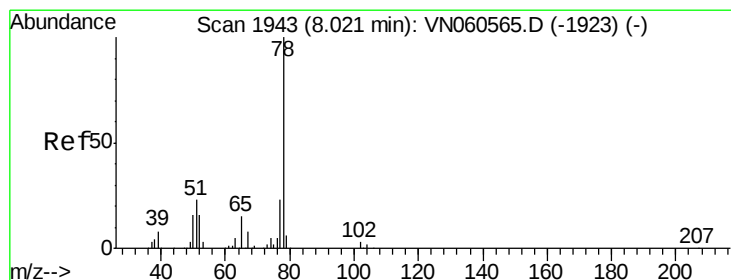
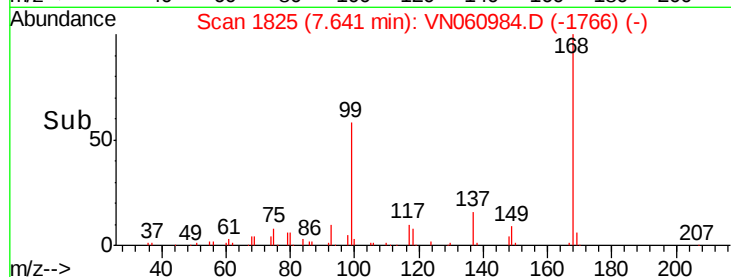
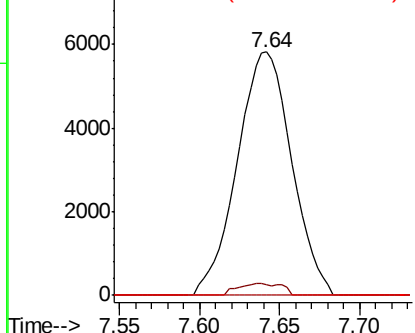
#38
Carbon Tetrachloride
Concen: 6.512 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 13593
Ion Ratio Lower Upper
117 100
119 4.2 76.2 114.2#
121 0.0 23.7 35.5#

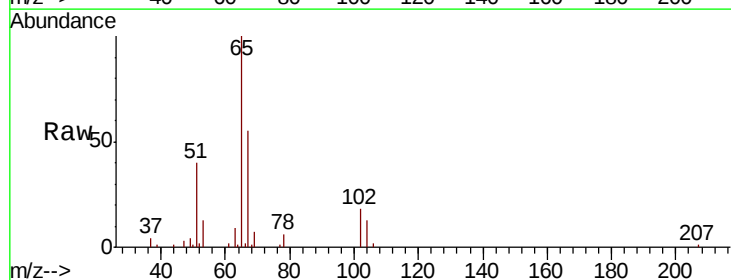


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

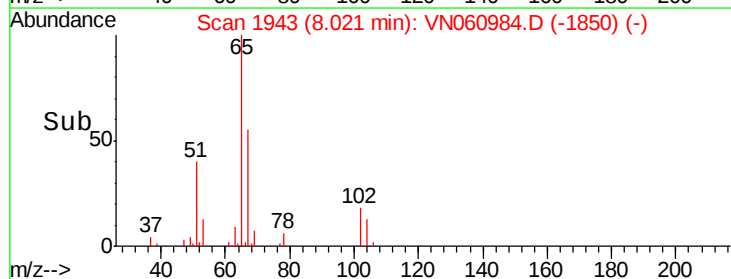
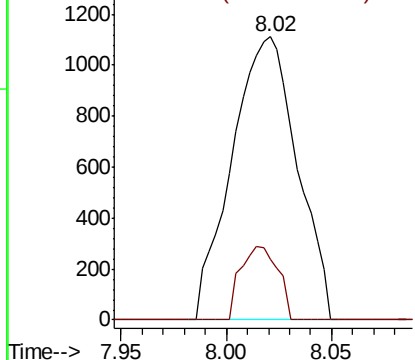


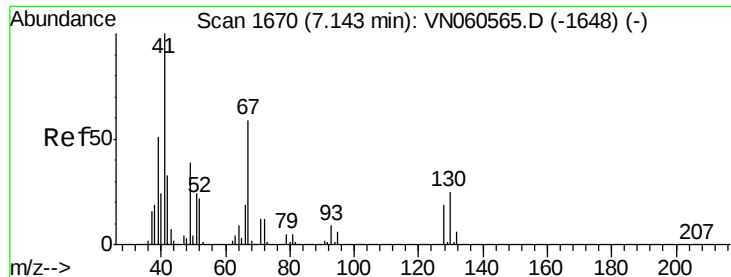
#40
Benzene
Concen: 0.341 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion: 78 Resp: 2394
Ion Ratio Lower Upper
78 100
77 21.4 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V

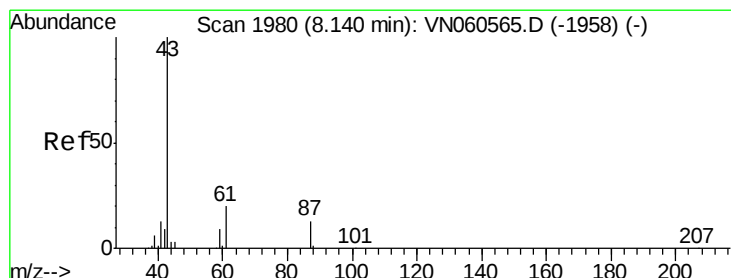
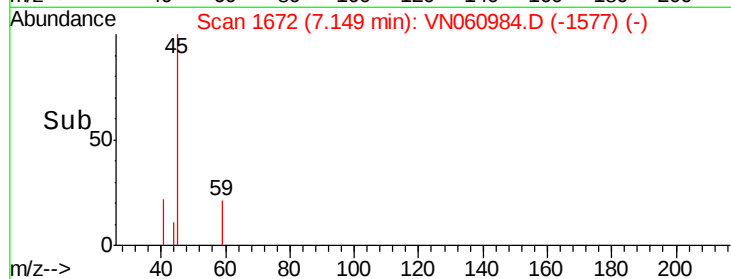
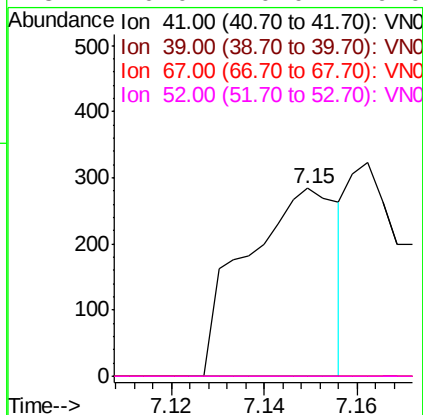
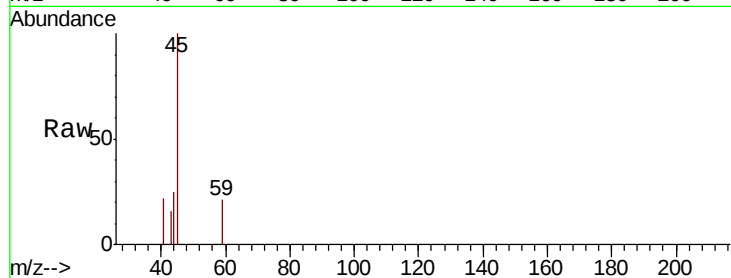




#41
Methacrylonitrile
Concen: 0.365 ug/l
RT: 7.15 min Scan# 1672
Delta R.T. 0.01 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

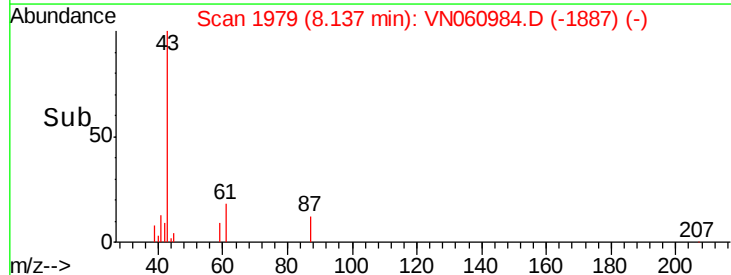
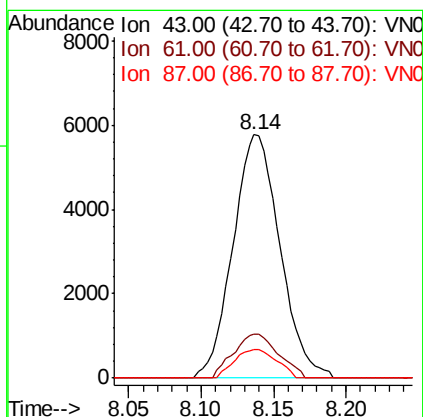
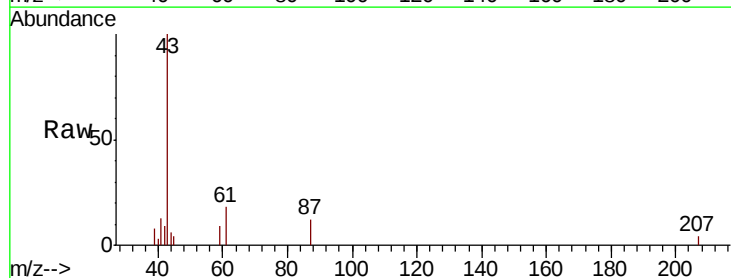
Instrument :
MSVOA_N
ClientSampleId :

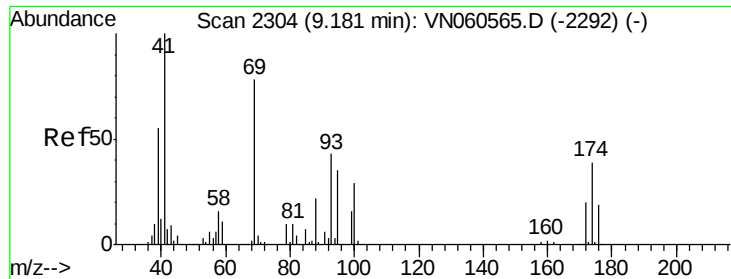
Tot Ion:	41	Resp:	392
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 3.141 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion:	43	Resp:	13035
Ion	Ratio	Lower	Upper
43	100		
61	17.3	20.7	31.1#
87	10.6	9.8	14.8

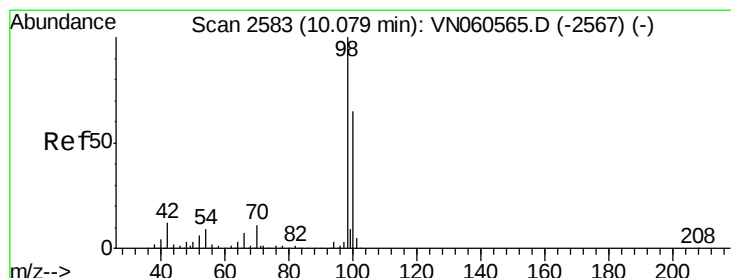
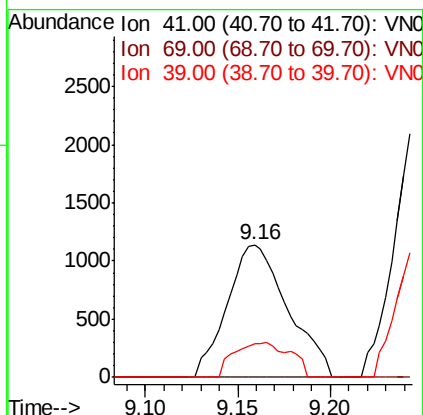
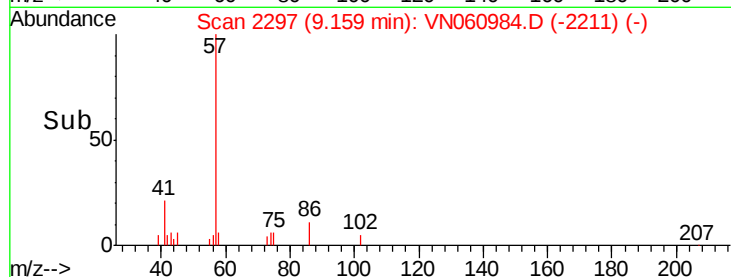
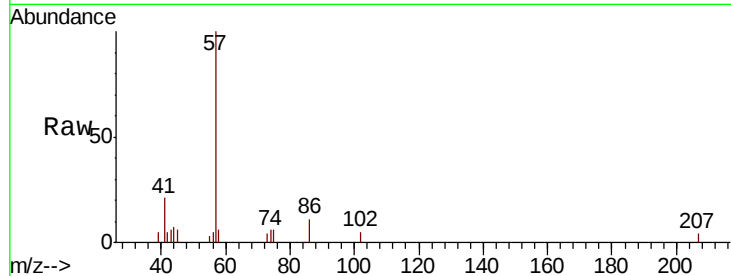




#48
Methvl methacrylate
Concen: 1.402 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

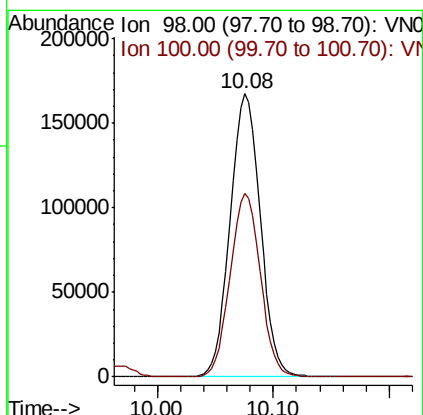
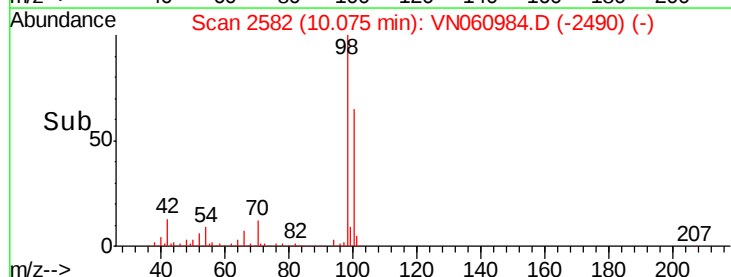
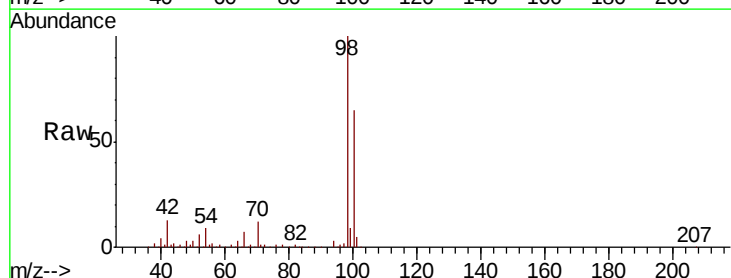
Instrument :
MSVOA_N
ClientSampled :

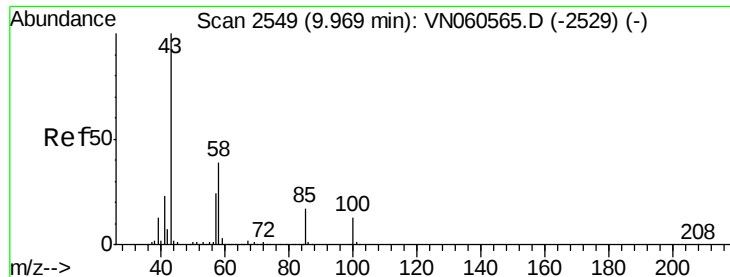
Tot Ion: 41 Resp: 2590
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 24.2 44.0 66.0#



#50
Toluene-d8
Concen: 50.752 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion: 98 Resp: 301487
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8

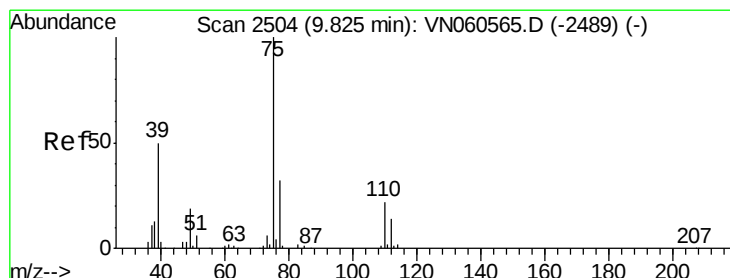
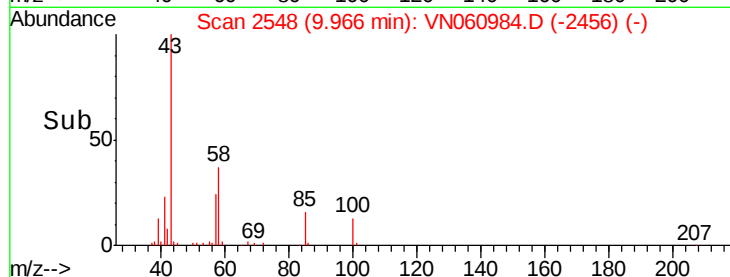
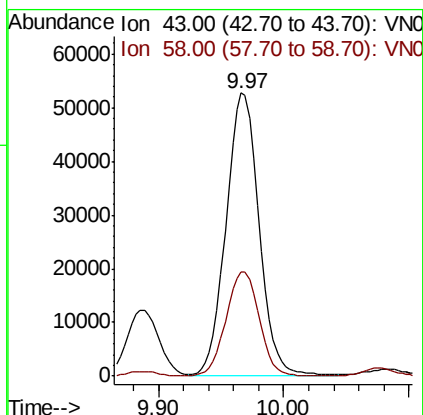
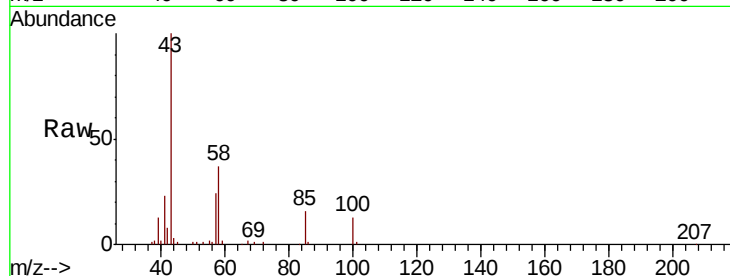




#51
4-Methyl-2-Pentanone
Concen: 41.009 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

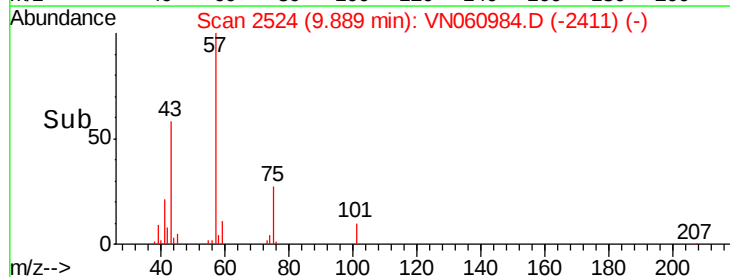
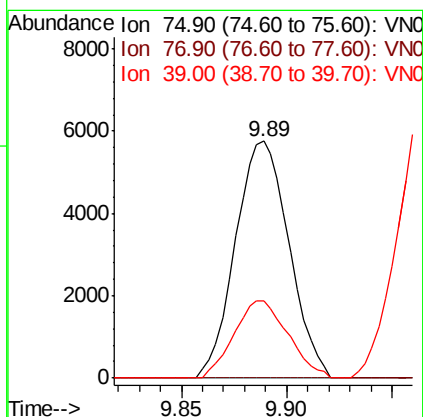
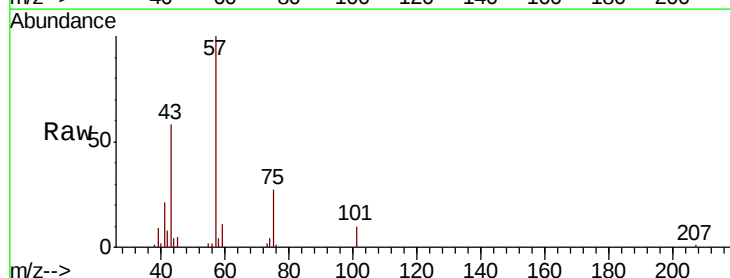
Instrument :
MSVOA_N
ClientSampled :

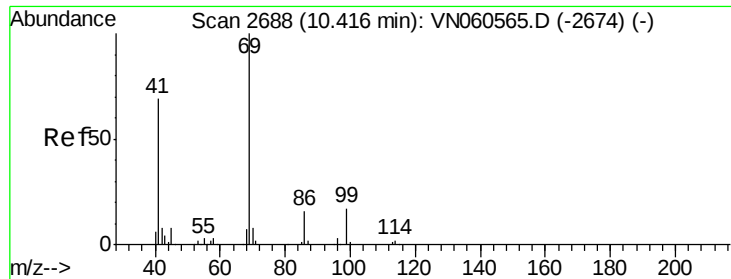
Tot Ion: 43 Resp: 96848
Ion Ratio Lower Upper
43 100
58 36.9 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 3.454 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion: 75 Resp: 10144
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 32.4 40.2 60.4#





#56

Ethyl methacrylate

Concen: 2.355 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060984.D

Acq: 16 Apr 2020 00:11

Instrument :

MSVOA_N

ClientSampleId :

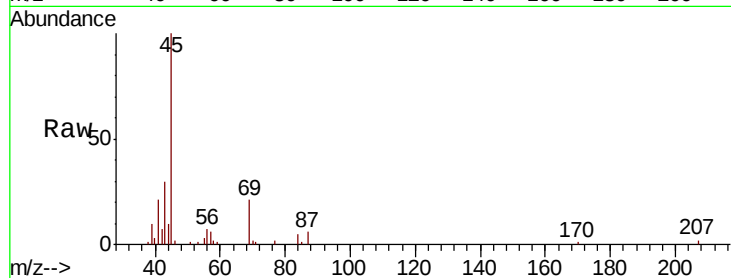
Tot Ion: 69 Resp: 5997

Ion Ratio Lower Upper

69 100

41 112.5 55.4 83.2#

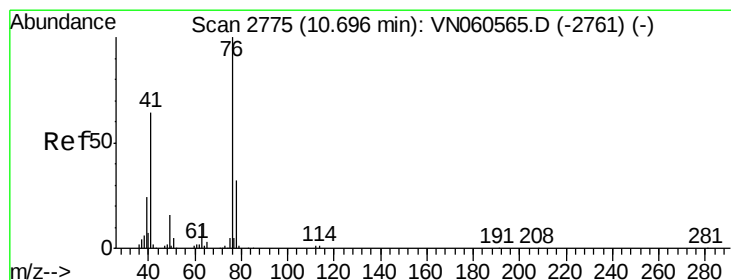
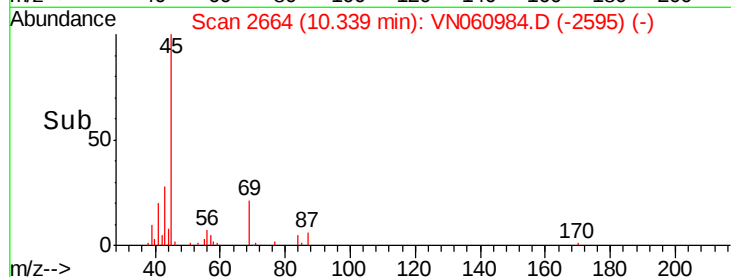
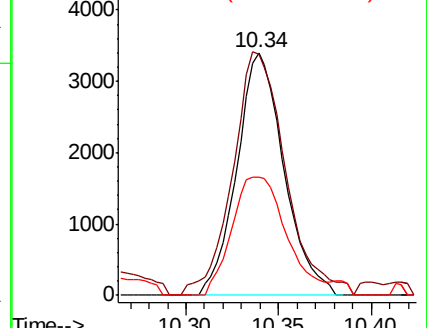
39 56.9 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN060984.D (-2664) (-)

Ion 41.00 (40.70 to 41.70): VN060984.D (-2664) (-)

Ion 39.00 (38.70 to 39.70): VN060984.D (-2664) (-)



#57

1,3-Dichloropropane

Concen: 0.239 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060984.D

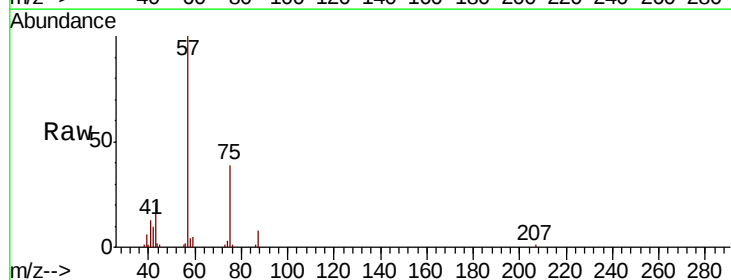
Acq: 16 Apr 2020 00:11

Tgt Ion: 76 Resp: 677

Ion Ratio Lower Upper

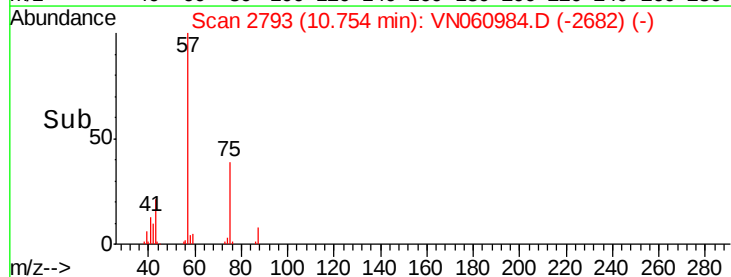
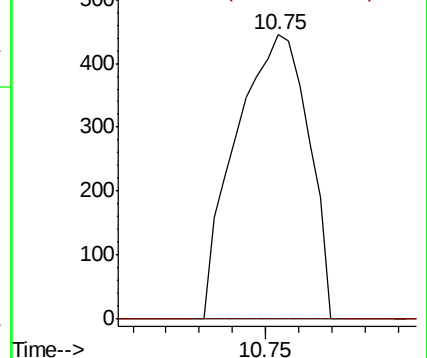
76 100

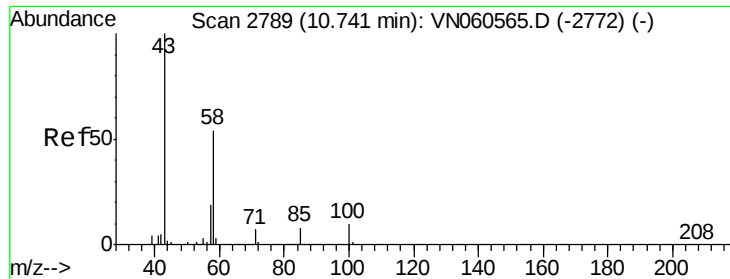
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060984.D (-2793) (-)

Ion 77.90 (77.60 to 78.60): VN060984.D (-2793) (-)

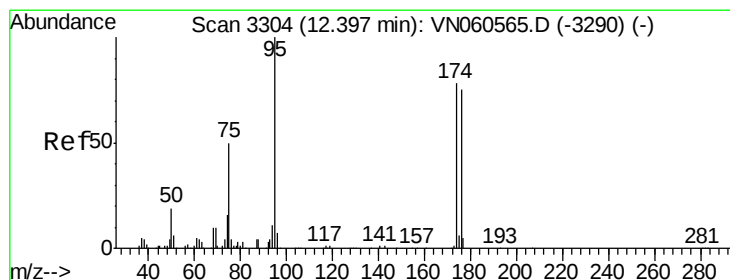
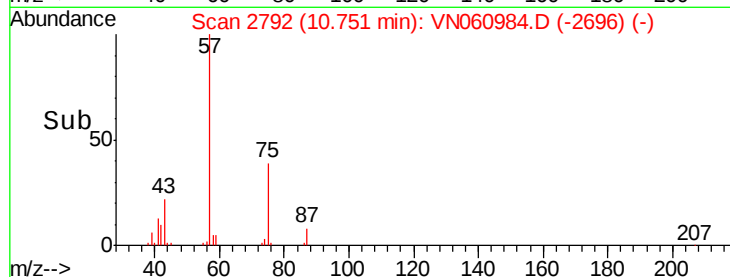
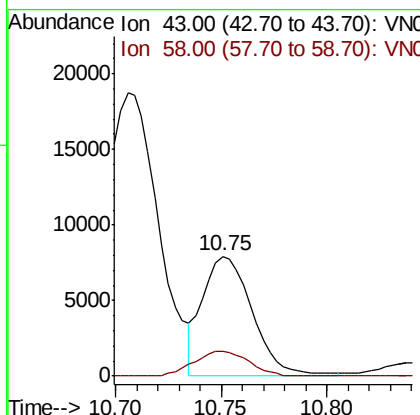
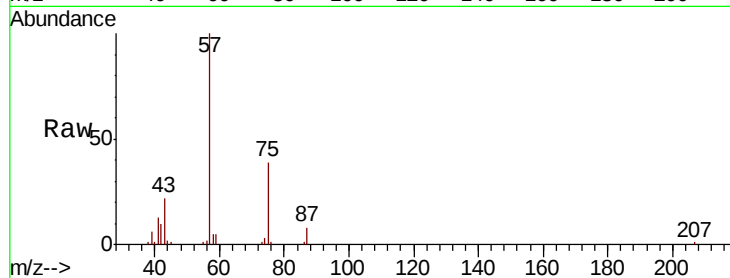




#59
2-Hexanone
Concen: 7.683 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

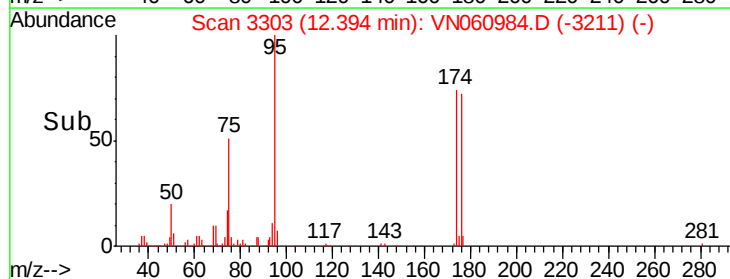
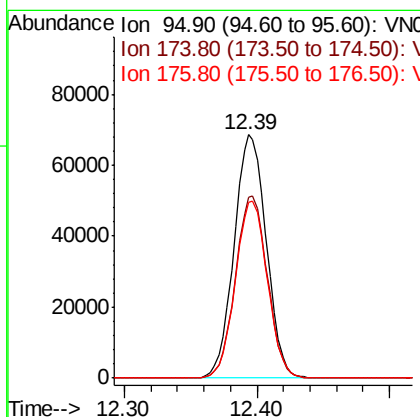
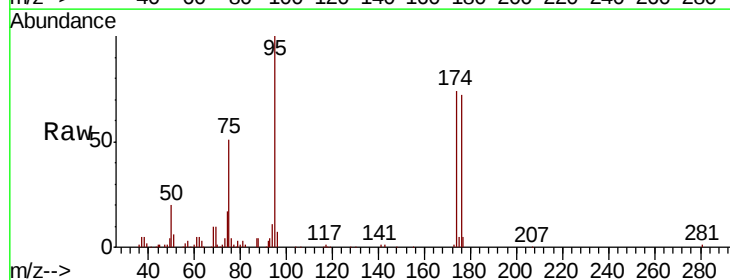
Instrument :
MSVOA_N
ClientSampled :

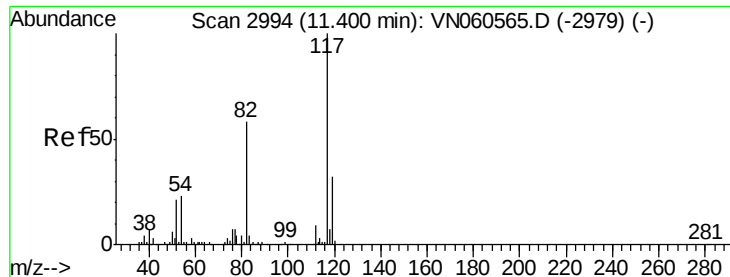
Tot Ion: 43 Resp: 13071
Ion Ratio Lower Upper
43 100
58 22.7 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 53.066 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion: 95 Resp: 115529
Ion Ratio Lower Upper
95 100
174 74.2 0.0 157.6
176 72.5 0.0 150.6

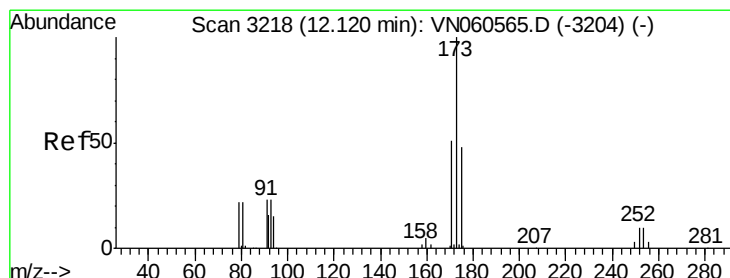
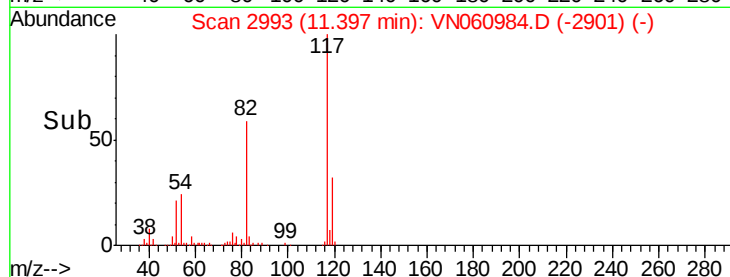
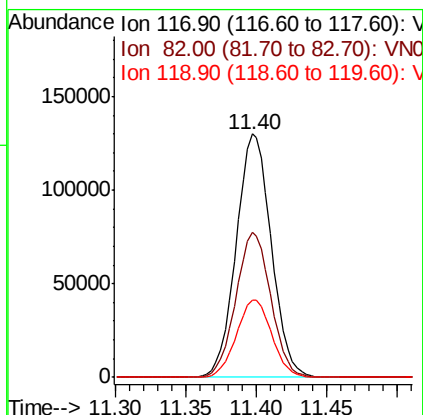
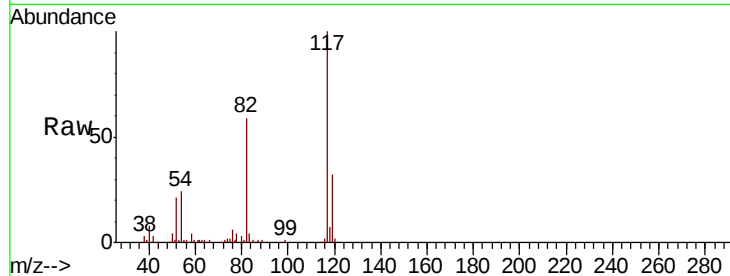




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

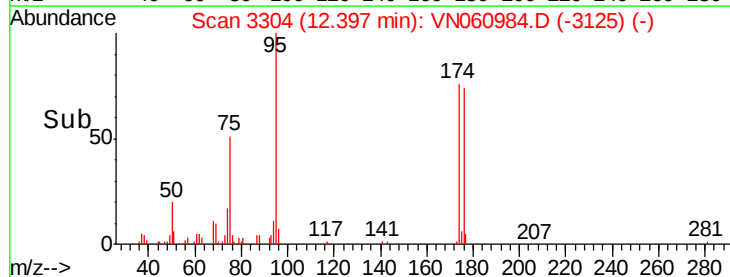
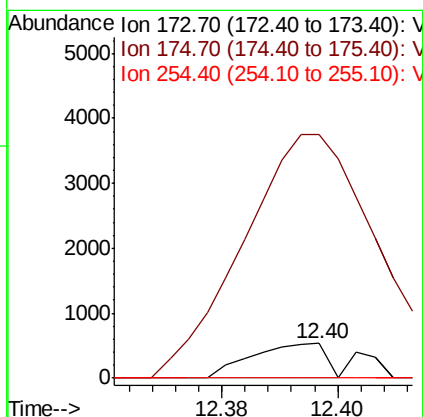
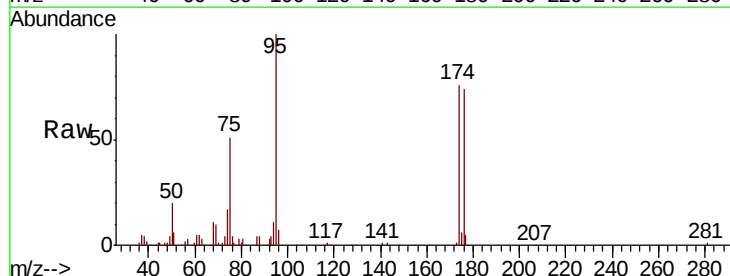
Instrument :
MSVOA_N
ClientSampled :

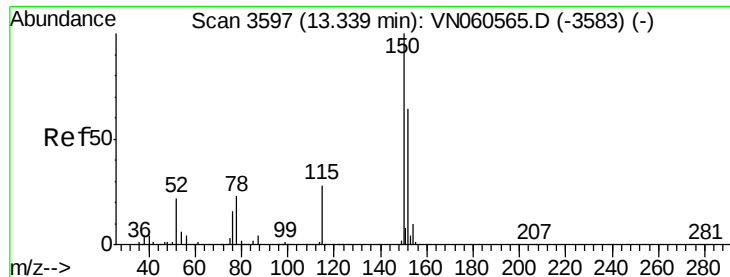
Tot Ion:117 Resp: 226709
Ion Ratio Lower Upper
117 100
82 59.3 46.7 70.1
119 31.8 25.5 38.3



#71
Bromoform
Concen: 2.018 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion:173 Resp: 472
Ion Ratio Lower Upper
173 100
175 1125.0 24.1 72.4#
254 0.0 0.0 0.0



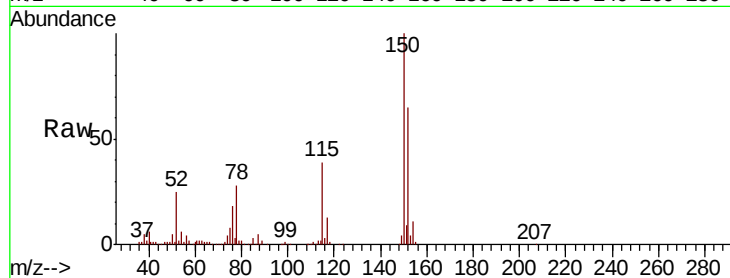


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.2	90.6
150	157.2	0.0	350.2

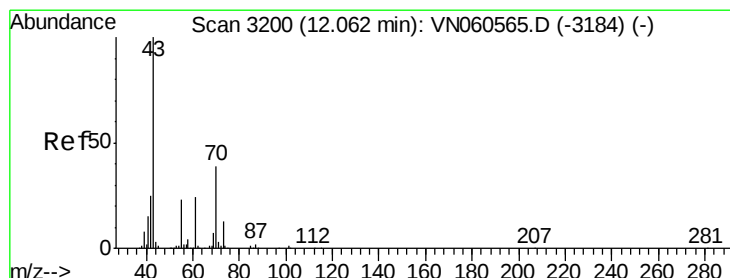
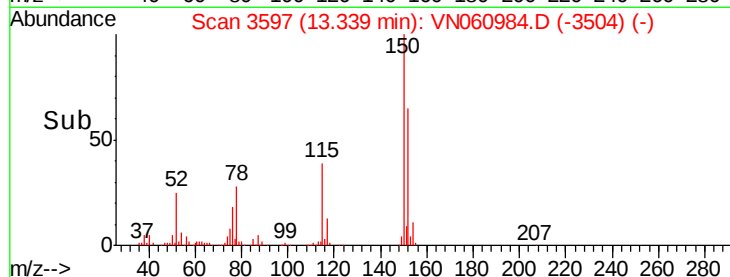
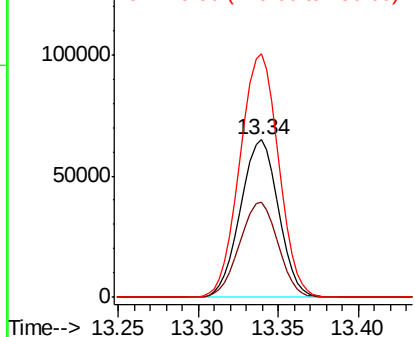


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

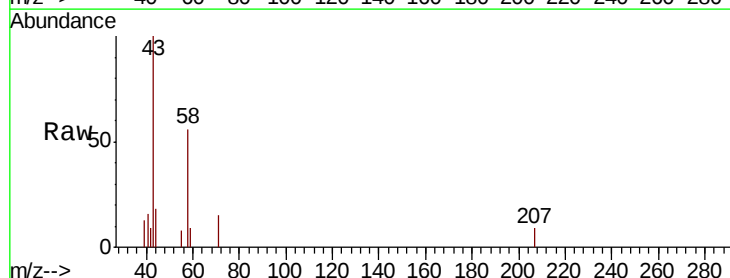
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.673 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.1	46.7#
55	3.8	18.6	27.8#
61	0.0	18.9	28.3#



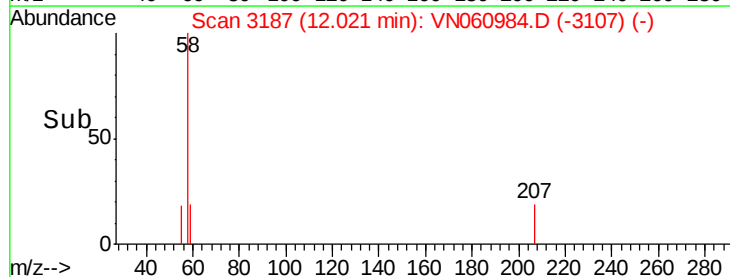
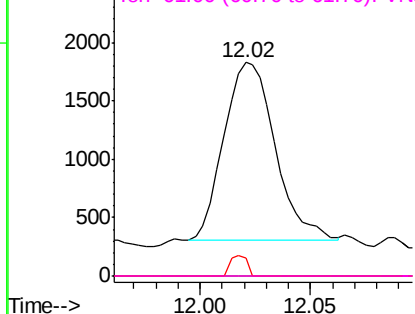
Abundance

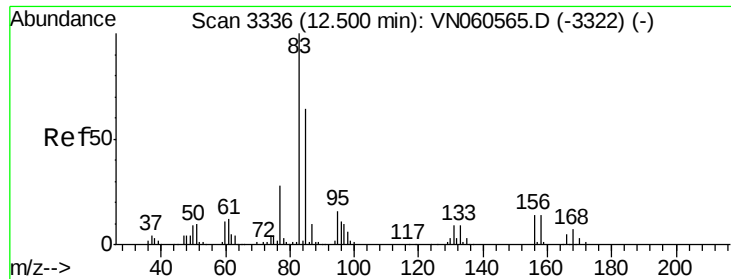
Ion 43.00 (42.70 to 43.70): VN0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 0.245 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.07 min

Lab File: VN060984.D

Acq: 16 Apr 2020 00:11

Instrument :

MSVOA_N

ClientSampleId :

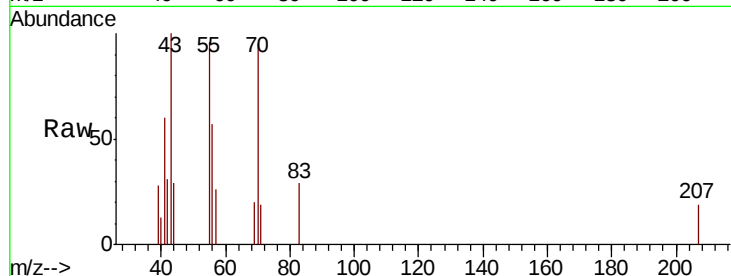
Tot Ion: 83 Resp: 587

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 32.5 97.4#

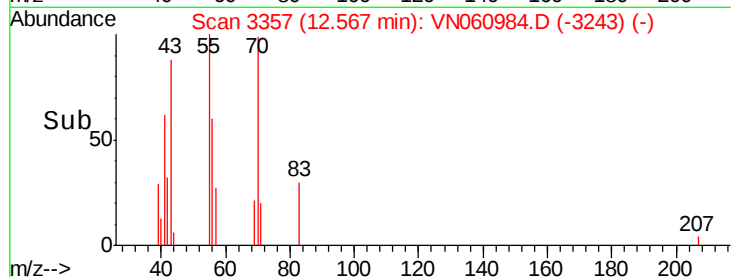


Abundance Ion 82.90 (82.60 to 83.60): VN060565.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN060565.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN060565.D (-3322) (-)

Time-->

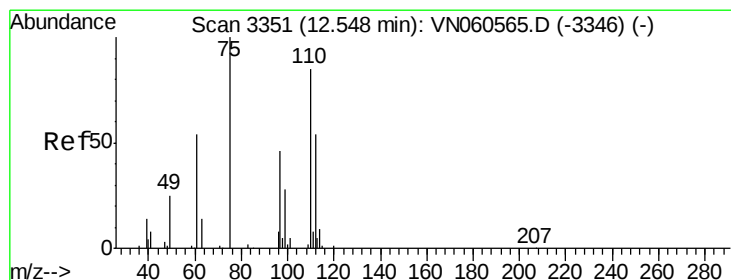


Abundance Ion 82.90 (82.60 to 83.60): VN060984.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN060984.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN060984.D (-3243) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 25.816 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060984.D

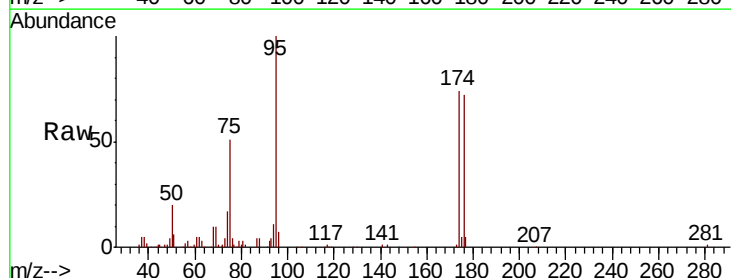
Acq: 16 Apr 2020 00:11

Tgt Ion: 75 Resp: 58724

Ion Ratio Lower Upper

75 100

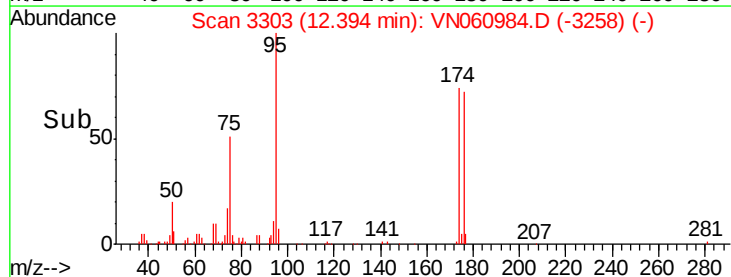
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060565.D (-3346) (-)

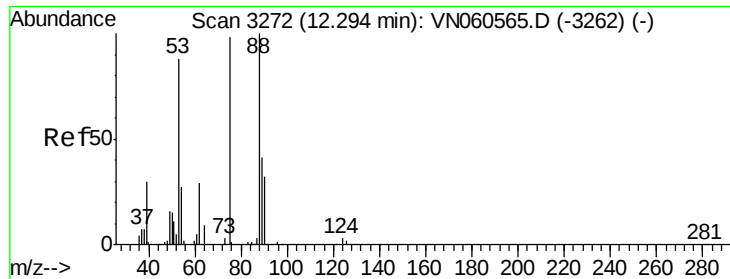
Time-->



Abundance Ion 74.90 (74.60 to 75.60): VN060984.D (-3258) (-)

Ion 77.00 (76.70 to 77.70): VN060984.D (-3258) (-)

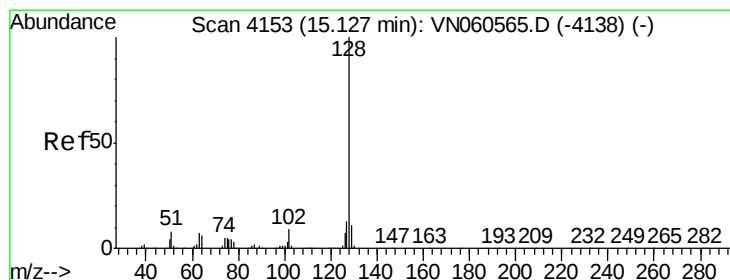
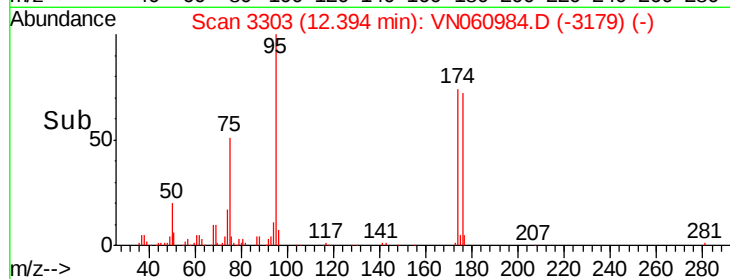
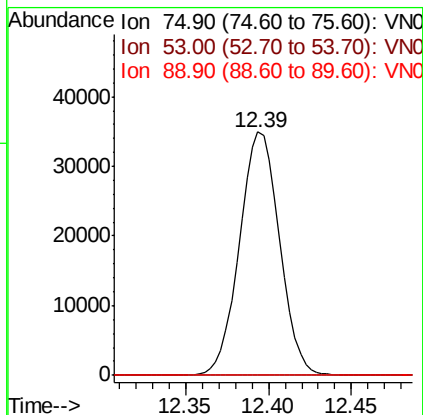
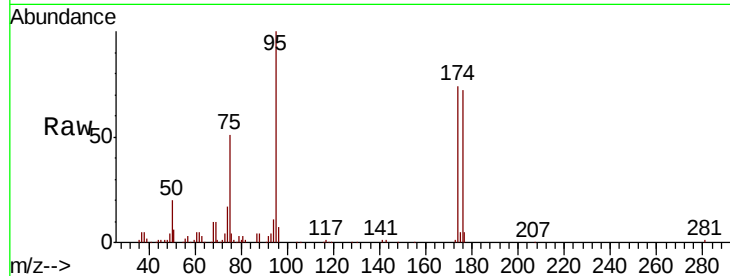
Time-->



#81
trans-1,4-Dichloro-2-butene
Concen: 66.303 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.10 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 58724
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#95
Naphthalene
Concen: 0.260 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN060984.D
Acq: 16 Apr 2020 00:11

Tgt Ion: 128 Resp: 1545
Ion Ratio Lower Upper
128 100
127 1.9 10.2 15.2#
129 0.0 8.8 13.2#

