

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060961.D
 Acq On : 15 Apr 2020 15:07
 Operator : JC/MD
 Sample : L2198-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

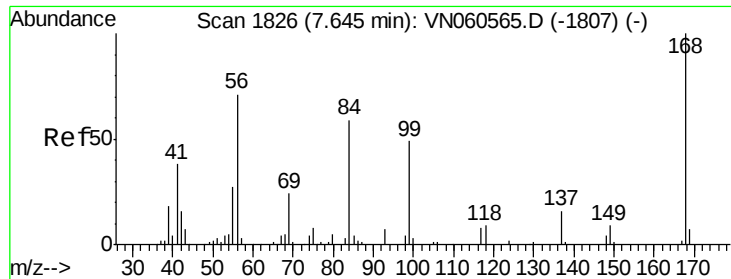
Quant Time: Apr 16 06:34:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	148093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	252635	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	240425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109426	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	99268	48.83	ug/l	0.00
Spiked Amount						
			Recovery	=	97.66%	
35) Dibromofluoromethane	7.56	113	74851	49.00	ug/l	0.00
Spiked Amount						
			Recovery	=	98.00%	
50) Toluene-d8	10.08	98	315304	50.53	ug/l	0.00
Spiked Amount						
			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.40	95	120874	52.86	ug/l	0.00
Spiked Amount						
			Recovery	=	105.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	12544	17.419	ug/l	97
18) Methyl Acetate	4.30	43	1840	0.908	ug/l #	54
20) Methylene Chloride	4.52	84	2856	1.612	ug/l	92
25) 2-Butanone	6.81	43	3709	3.183	ug/l #	87
29) Tetrahydrofuran	7.18	42	307	0.372	ug/l #	35
31) Cyclohexane	7.63	56	2948	0.900	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12001	4.906	ug/l #	49
37) Ethyl Acetate	6.81	43	3709	1.403	ug/l #	70
38) Carbon Tetrachloride	7.64	117	13959	6.367	ug/l #	16
43) Isopropyl Acetate	8.14	43	50398	11.561	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	888	0.456	ug/l #	43
48) Methyl methacrylate	9.16	41	2591	1.335	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	6654	2.682	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	20110	6.519	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3472	1.166	ug/l #	42
59) 2-Hexanone	10.75	43	51650	28.905	ug/l #	52
71) Bromoform	12.39	173	563	2.060	ug/l #	1
74) N-amyl acetate	12.02	43	2997	0.790	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60782	25.742	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	60782	66.113	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

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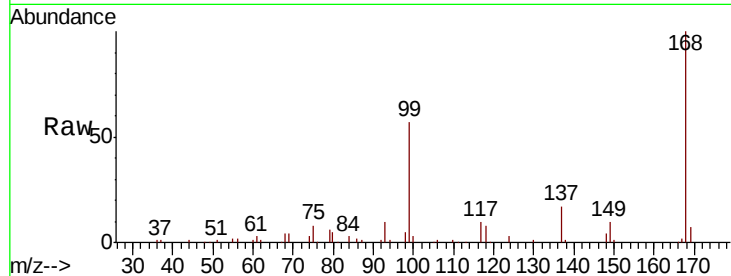
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 148093

Ion Ratio Lower Upper

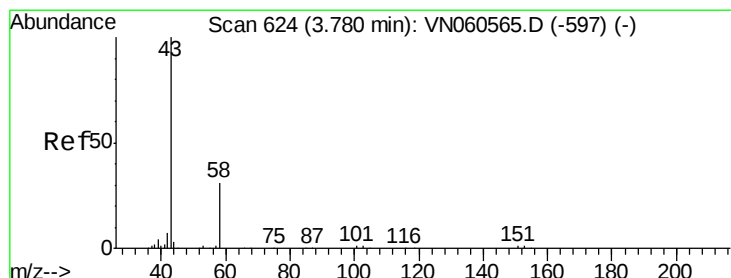
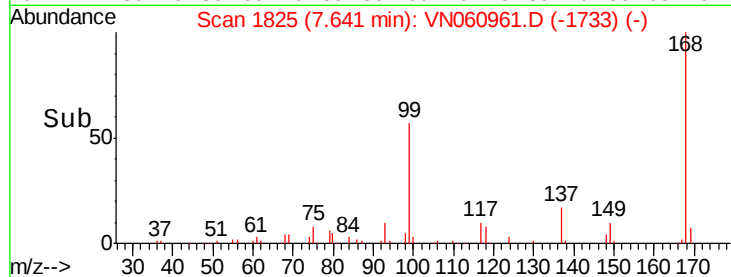
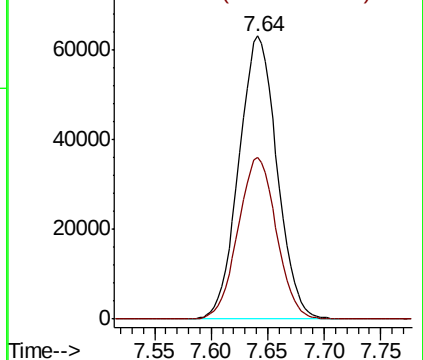
168 100

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): VN0



#16

Acetone

Concen: 17.419 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060961.D

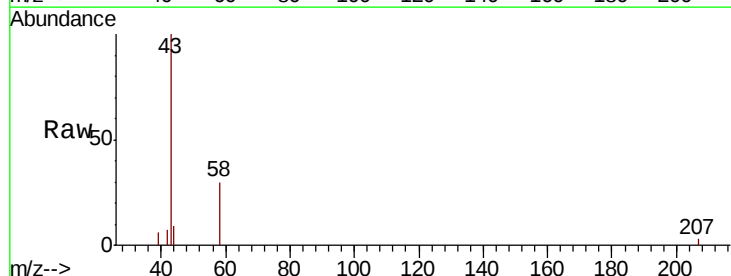
Acq: 15 Apr 2020 15:07

Tgt Ion: 43 Resp: 12544

Ion Ratio Lower Upper

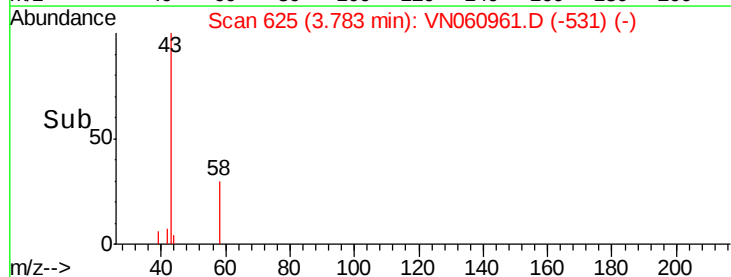
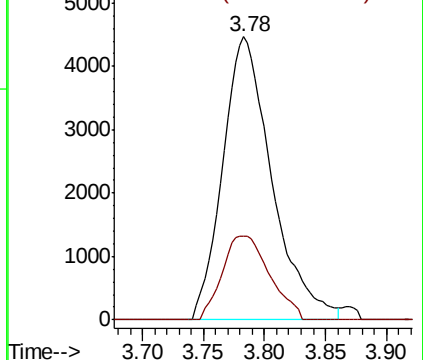
43 100

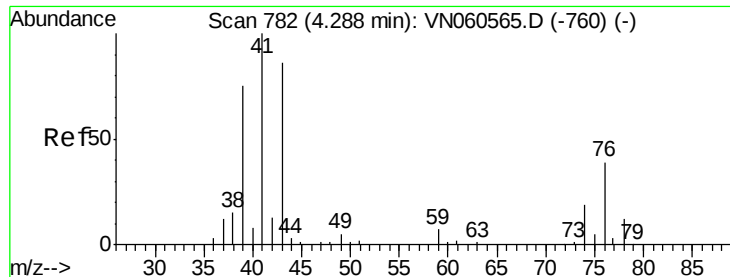
58 29.5 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

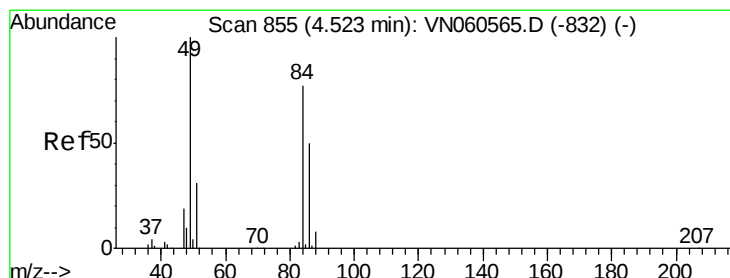
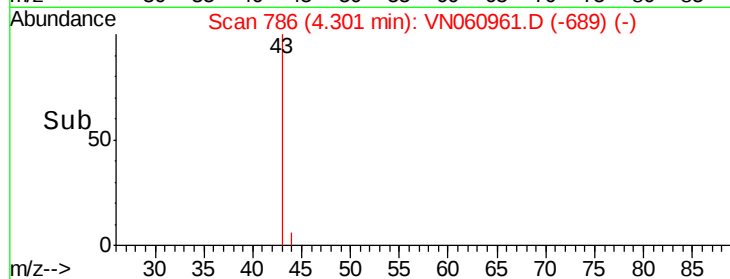
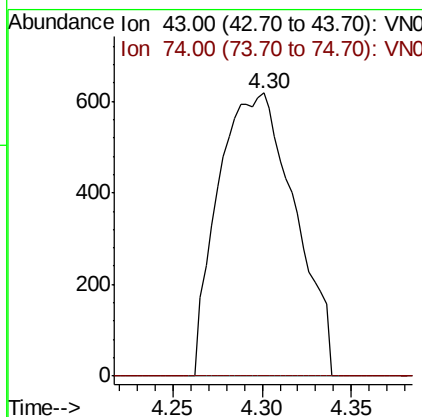
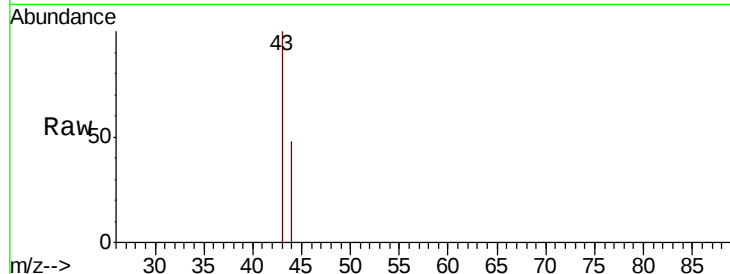




#18
Methyl Acetate
Concen: 0.908 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

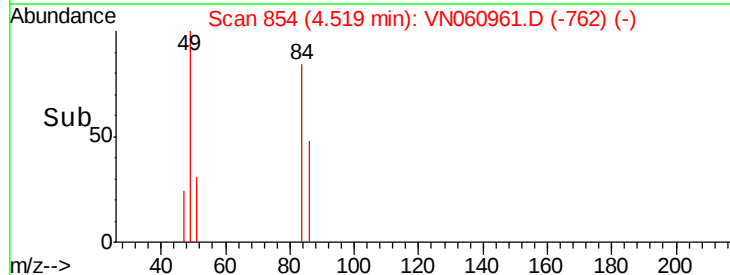
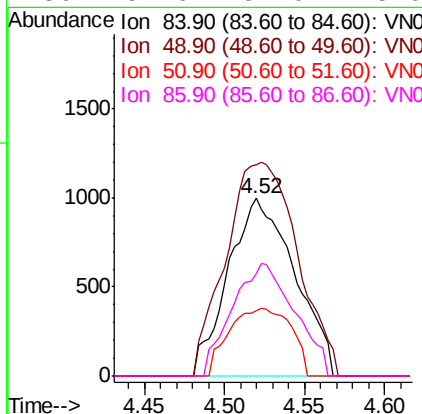
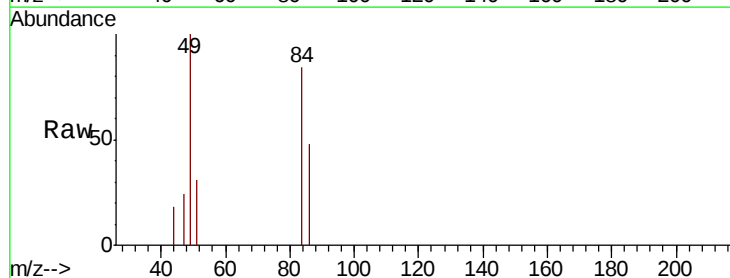
Instrument :
MSVOA_N
ClientSampleId :

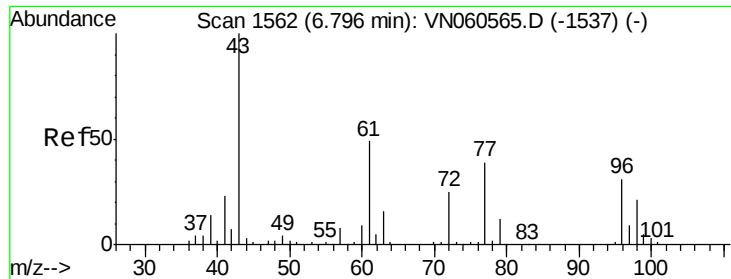
Tot Ion: 43 Resp: 1840
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.612 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion: 84 Resp: 2856
Ion Ratio Lower Upper
84 100
49 118.8 103.3 154.9
51 36.5 31.6 47.4
86 57.6 52.0 78.0

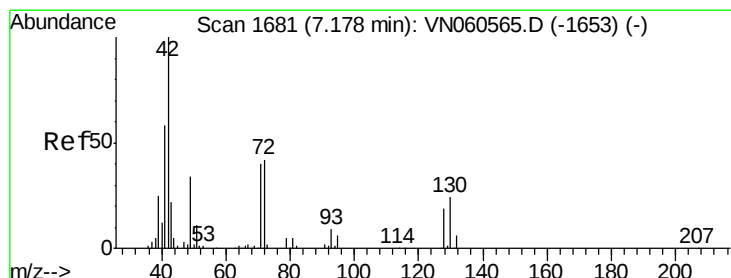
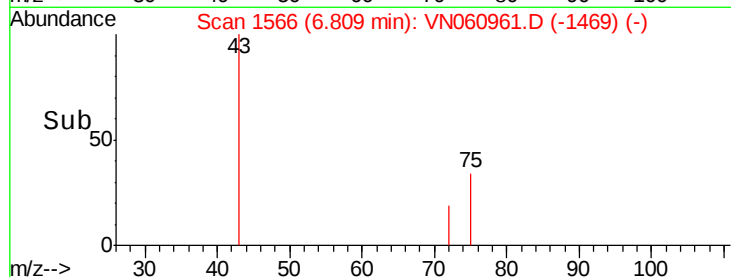
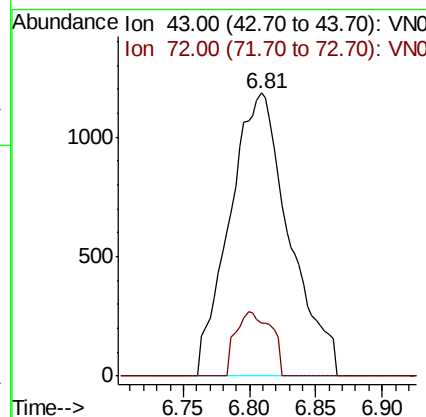
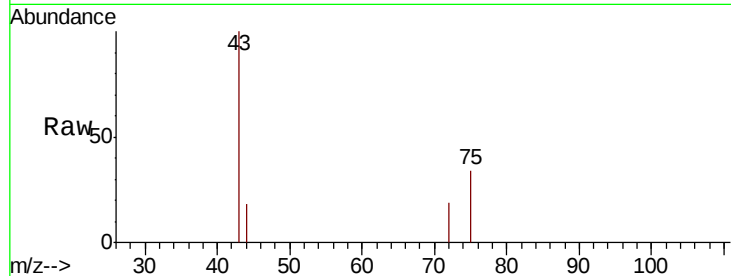




#25
2-Butanone
Concen: 3.183 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

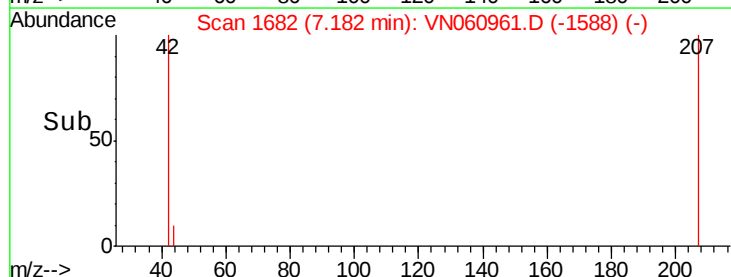
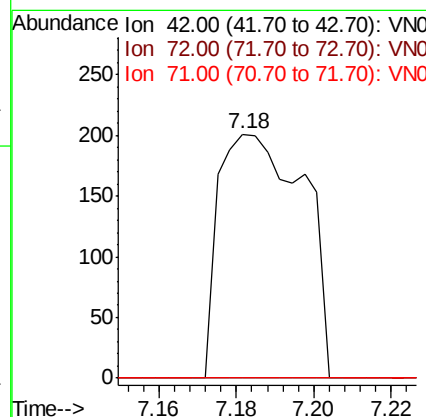
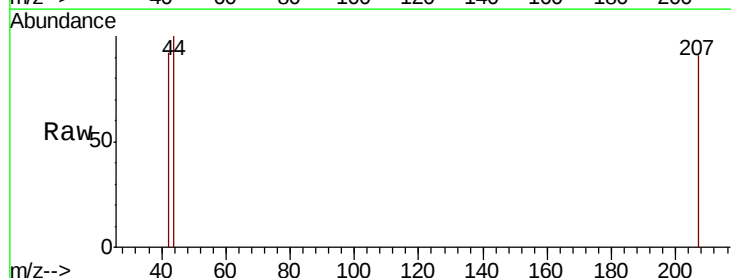
Instrument :
MSVOA_N
ClientSampled :

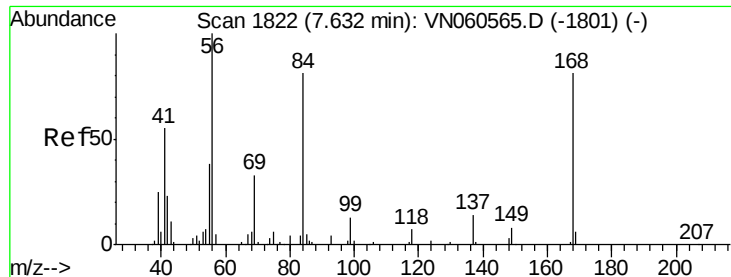
Tot Ion: 43 Resp: 3709
Ion Ratio Lower Upper
43 100
72 18.8 20.4 30.6#



#29
Tetrahydrofuran
Concen: 0.372 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion: 42 Resp: 307
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

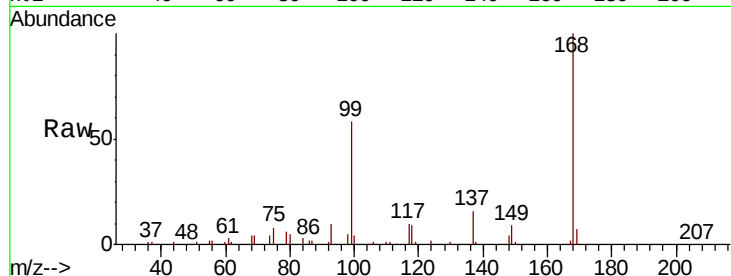




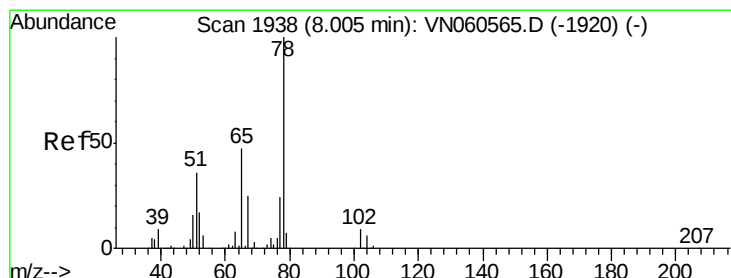
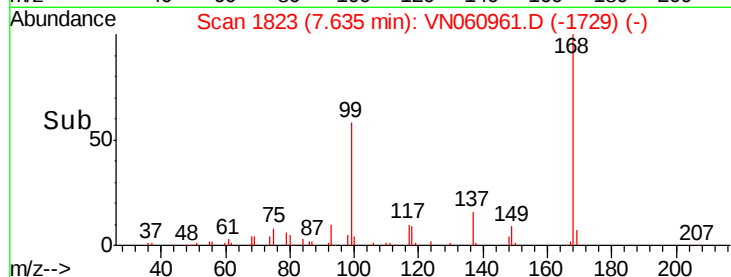
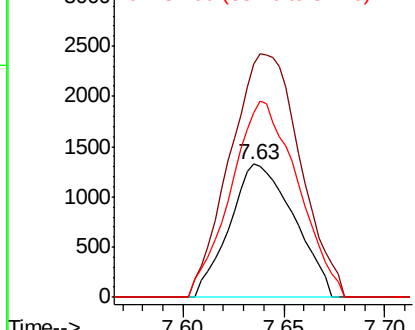
#31
Cyclohexane
Concen: 0.900 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 2948
Ion Ratio Lower Upper
56 100
69 175.8 26.6 40.0#
84 138.9 64.3 96.5#

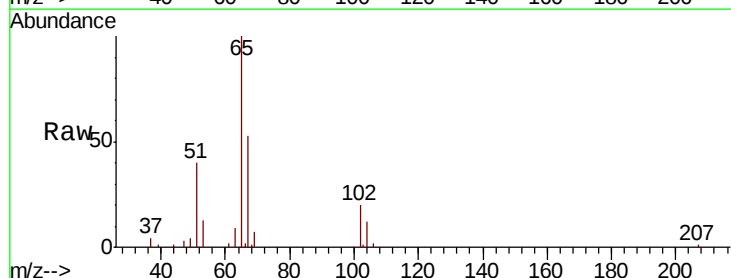


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

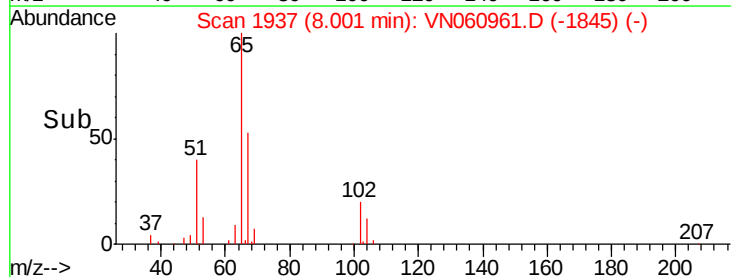
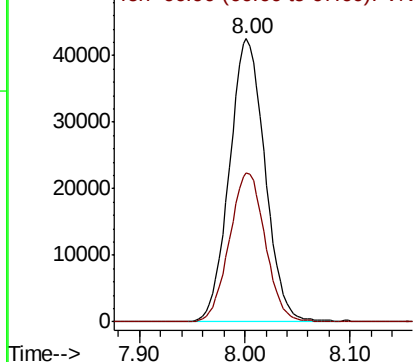


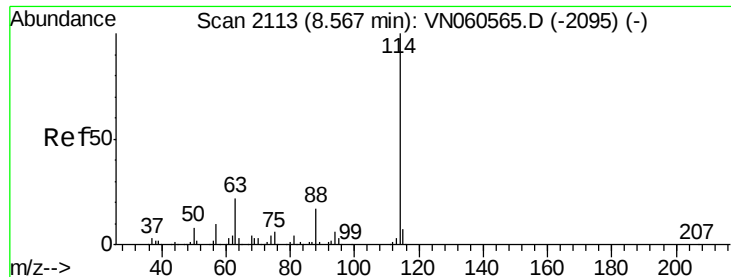
#33
1,2-Dichloroethane-d4
Concen: 48.829 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion: 65 Resp: 99268
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.6



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

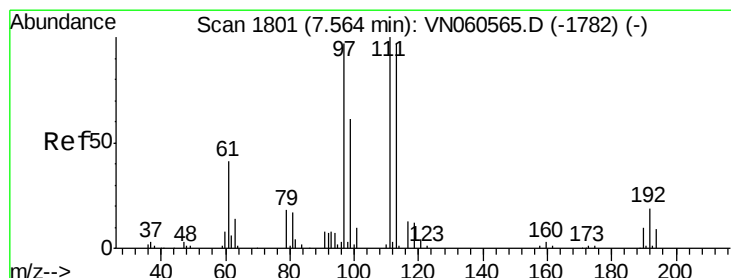
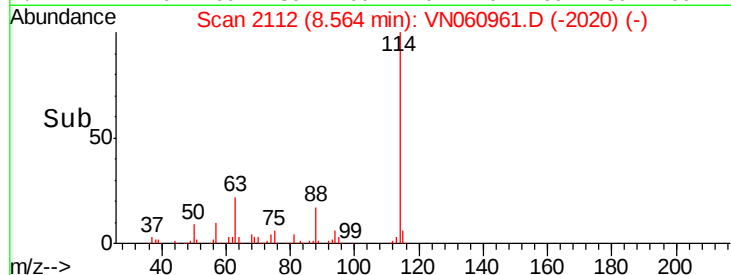
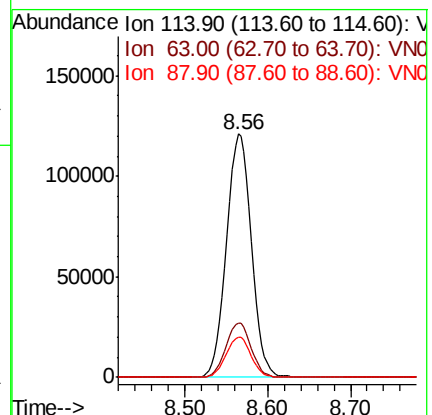
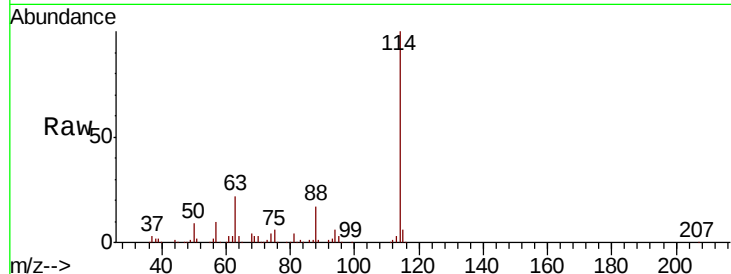




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060961.D
 Acq: 15 Apr 2020 15:07

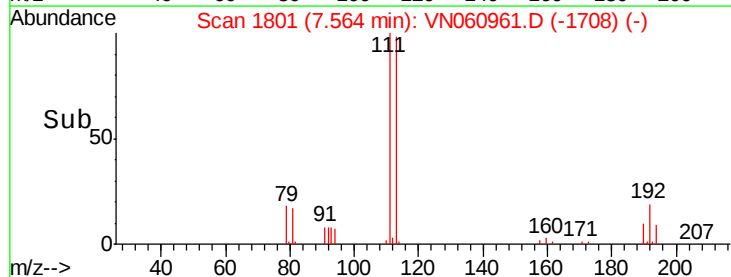
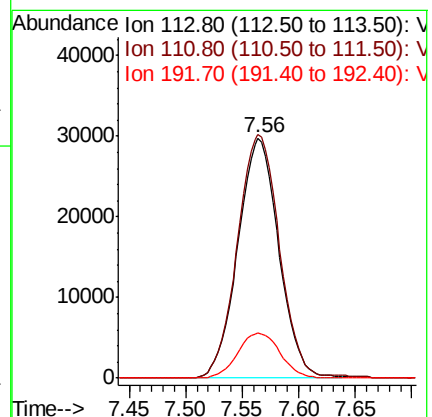
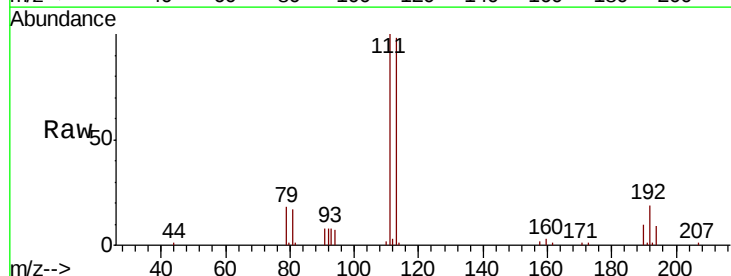
Instrument :
 MSVOA_N
 ClientSampleId :

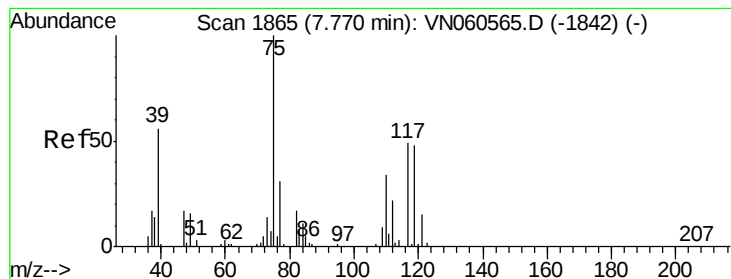
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	43.8
88	16.7	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 48.999 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060961.D
 Acq: 15 Apr 2020 15:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.9	124.3
192	19.4	15.8	23.8





#36

1,1-Dichloropropene

Concen: 4.906 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

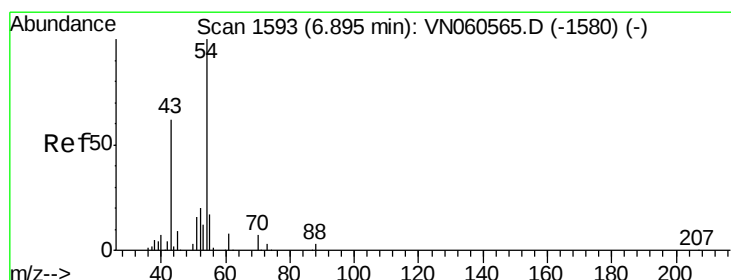
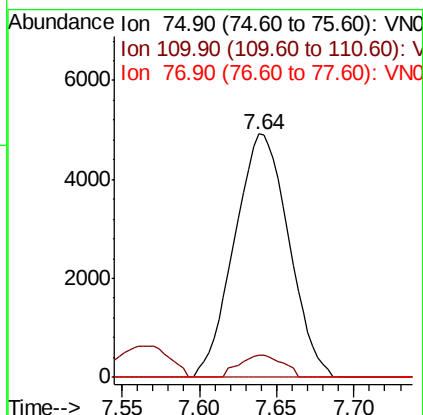
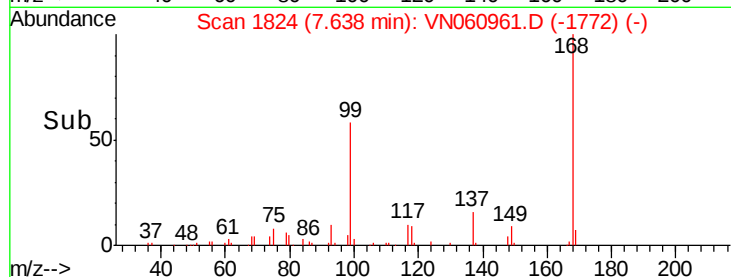
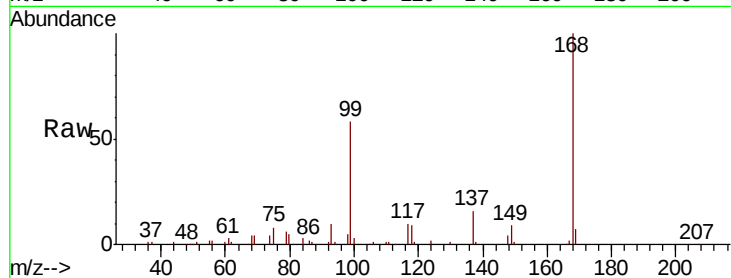
Tot Ion: 75 Resp: 12001

Ion Ratio Lower Upper

75 100

110 7.2 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 1.403 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

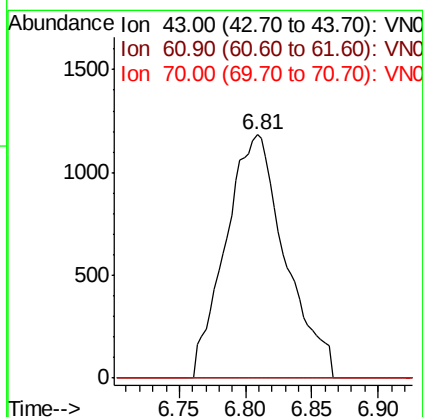
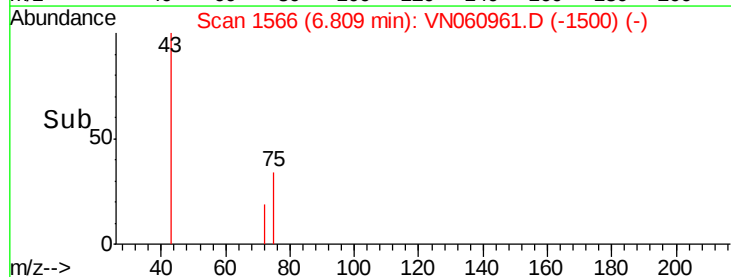
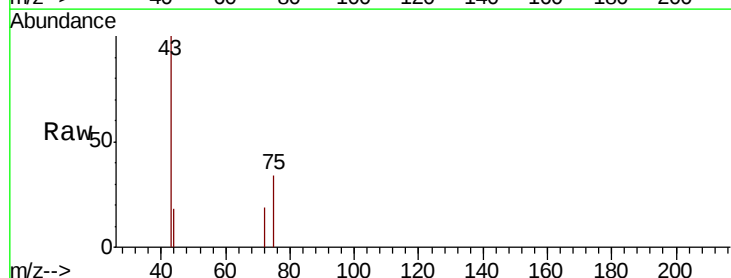
Tgt Ion: 43 Resp: 3709

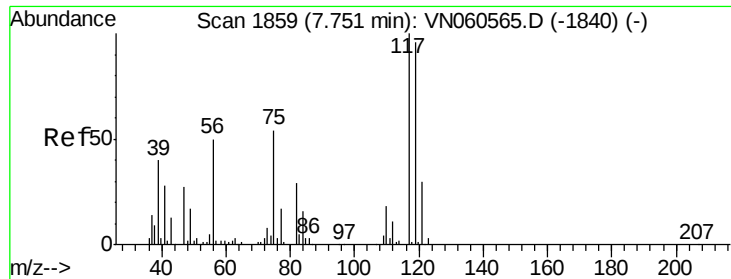
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#

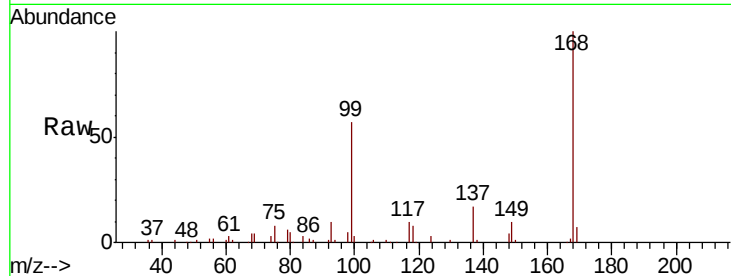




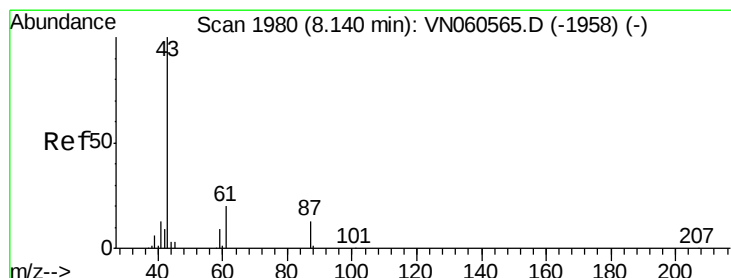
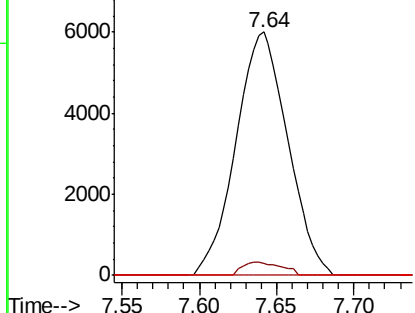
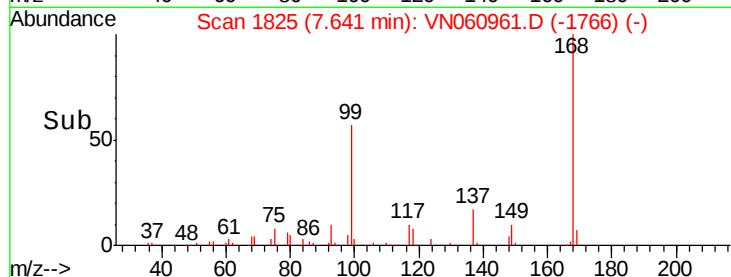
#38
Carbon Tetrachloride
Concen: 6.367 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 13959
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.2#
121 0.0 23.7 35.5#

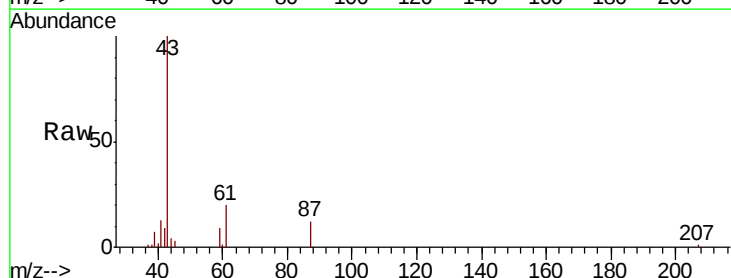


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

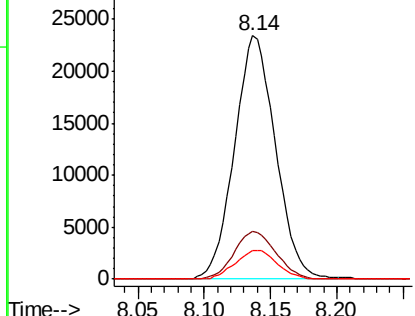
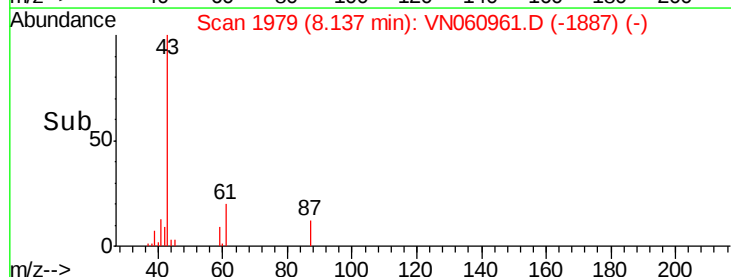


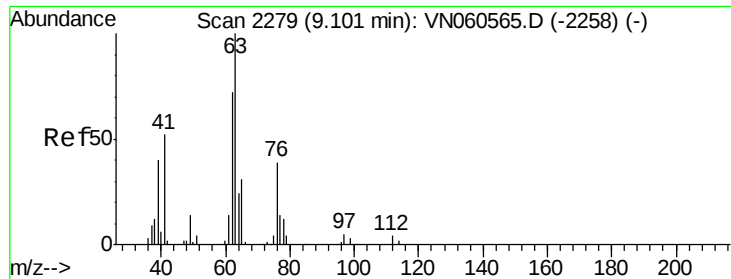
#43
Isopropyl Acetate
Concen: 11.561 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion: 43 Resp: 50398
Ion Ratio Lower Upper
43 100
61 19.9 20.7 31.1#
87 11.8 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.456 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

Instrument :

MSVOA_N

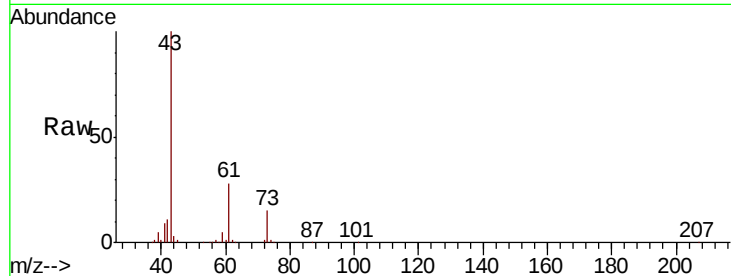
ClientSampleId :

Tot Ion: 63 Resp: 888

Ion Ratio Lower Upper

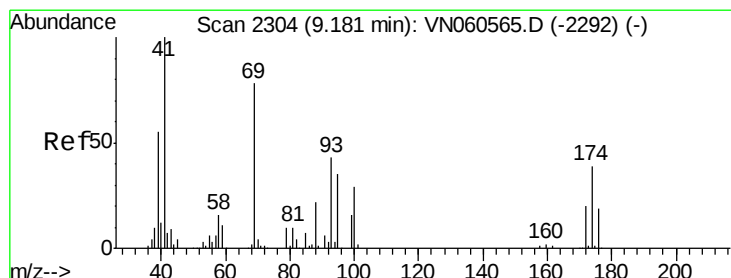
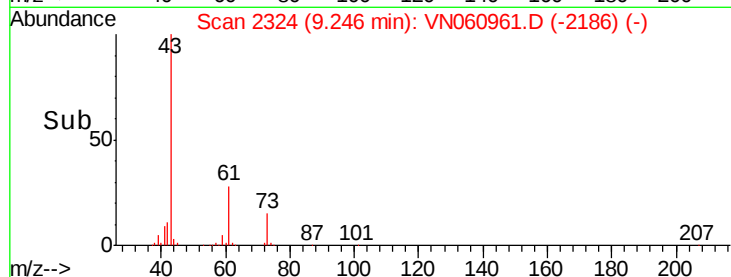
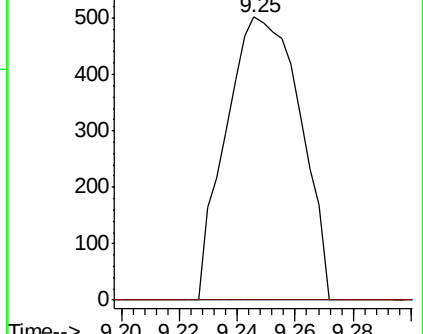
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.335 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

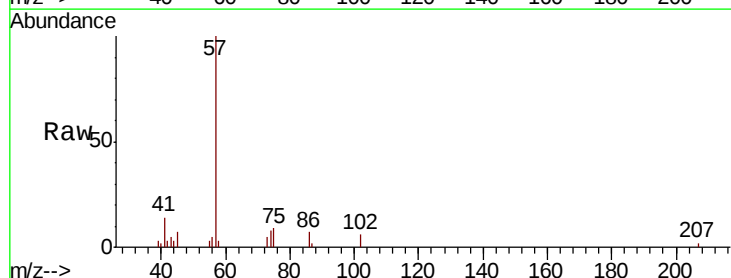
Tgt Ion: 41 Resp: 2591

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

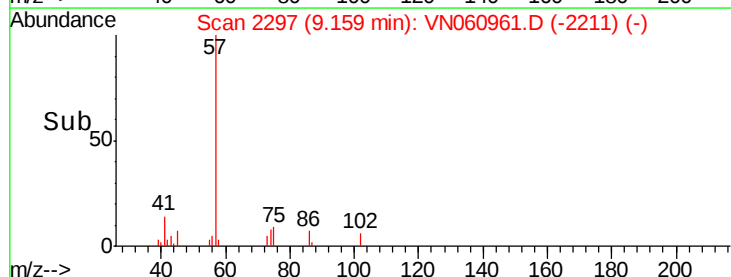
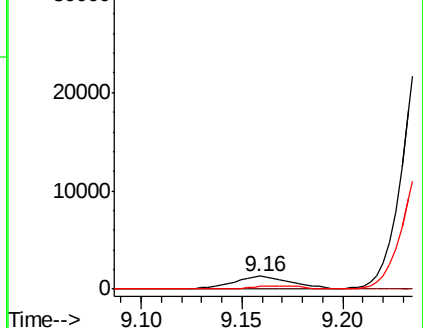
39 0.0 44.0 66.0#

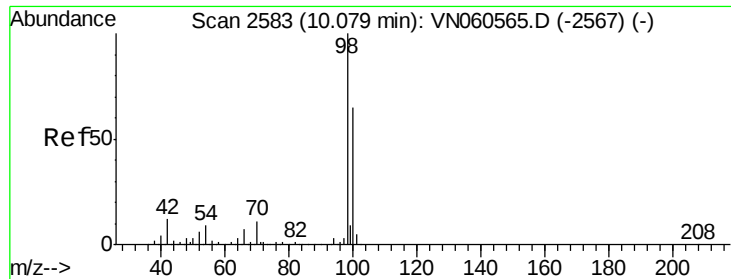


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

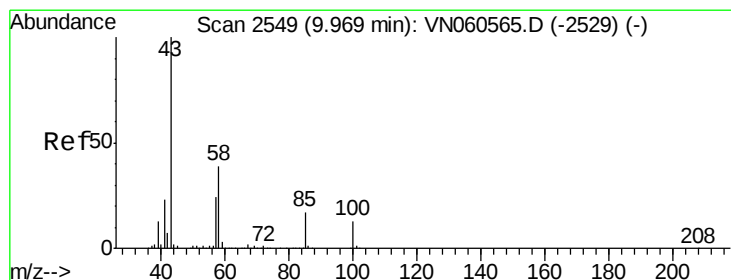
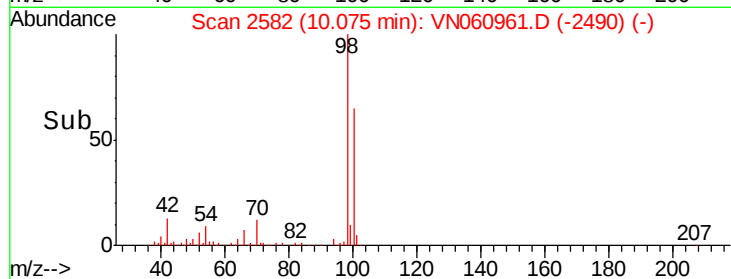
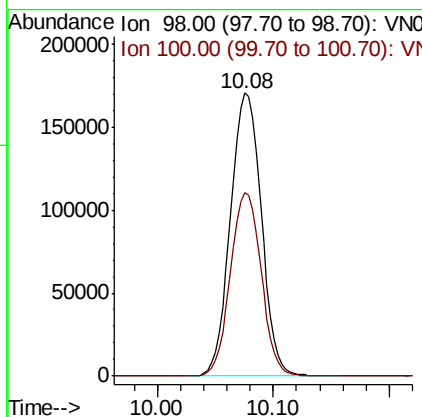
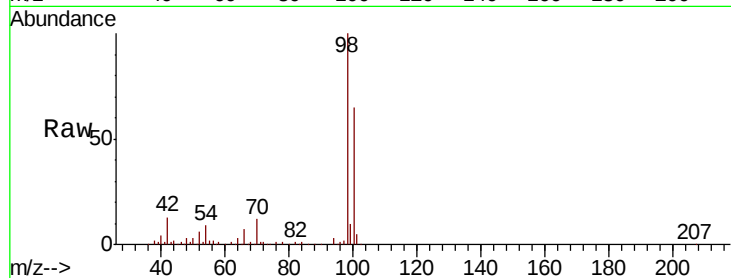




#50
Toluene-d8
Concen: 50.532 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

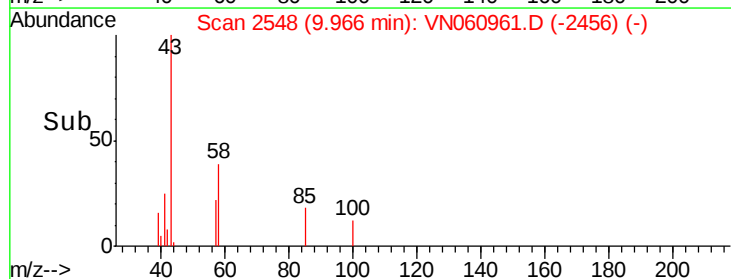
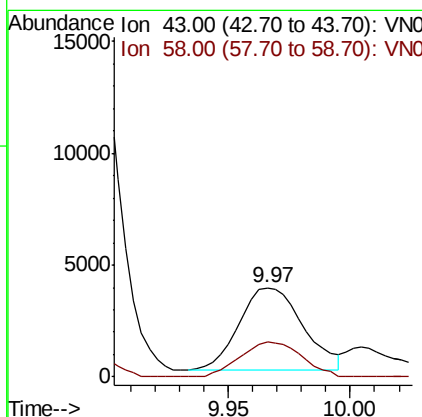
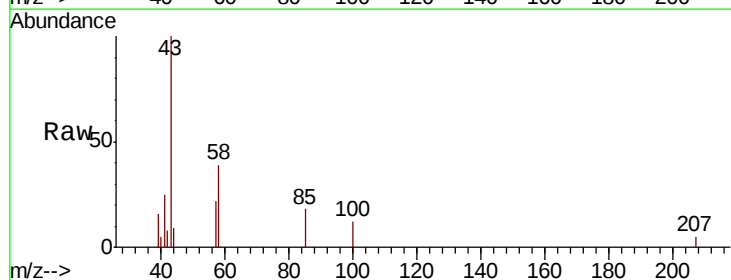
Instrument :
MSVOA_N
ClientSampleId :

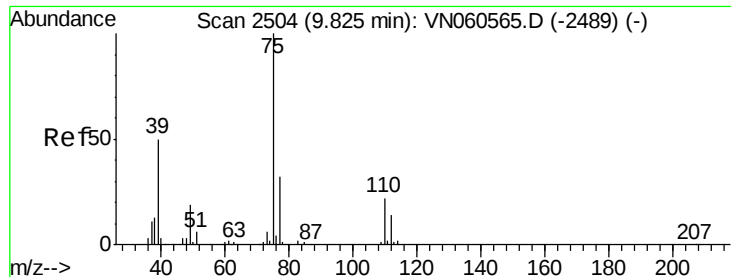
Tot Ion: 98 Resp: 315304
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 2.682 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion: 43 Resp: 6654
Ion Ratio Lower Upper
43 100
58 40.9 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 6.519 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

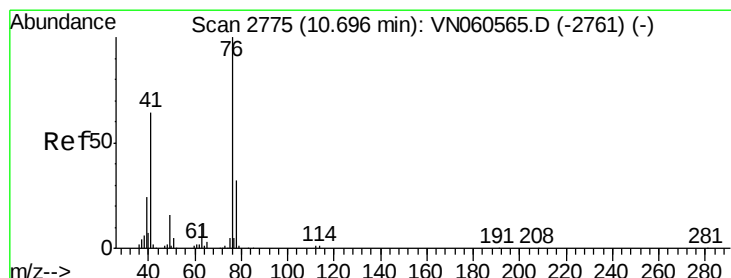
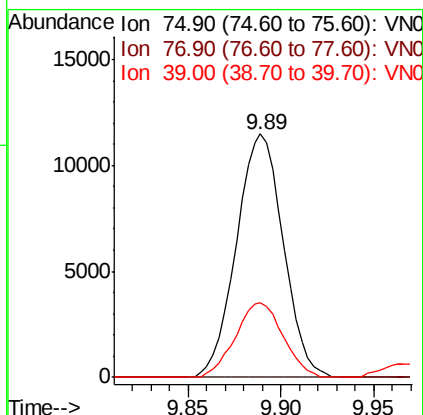
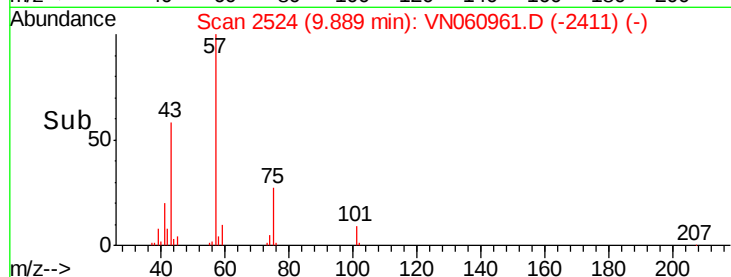
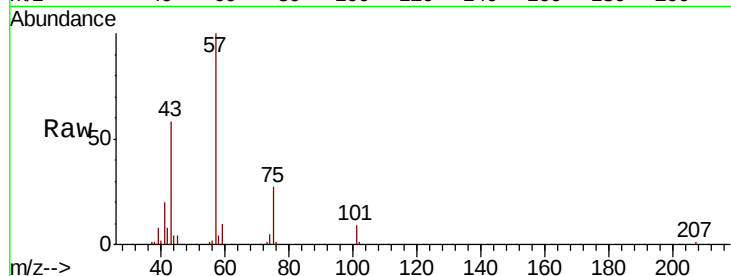
Tot Ion: 75 Resp: 20110

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.5 40.2 60.4#



#57

1,3-Dichloropropane

Concen: 1.166 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060961.D

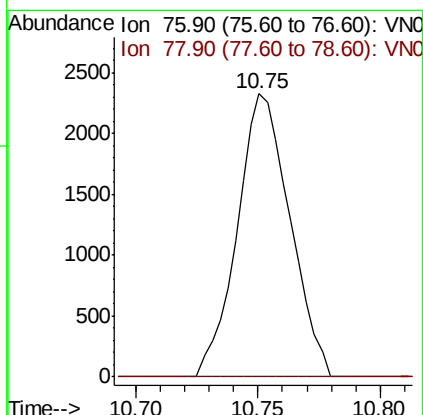
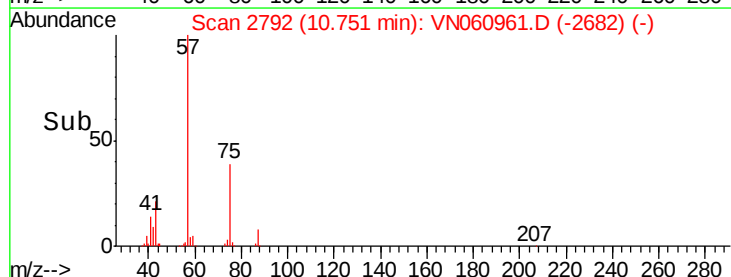
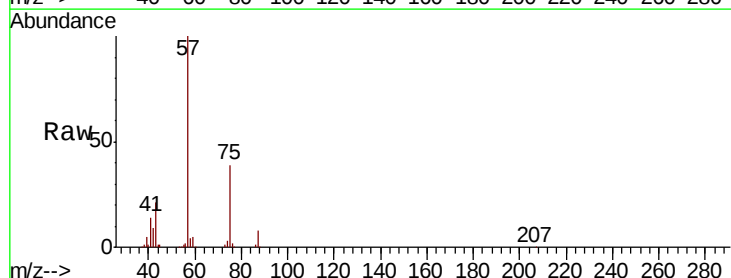
Acq: 15 Apr 2020 15:07

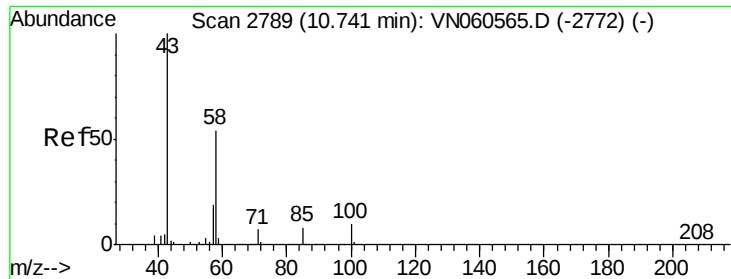
Tgt Ion: 76 Resp: 3472

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

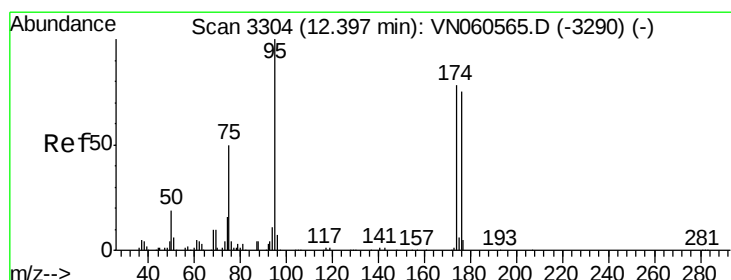
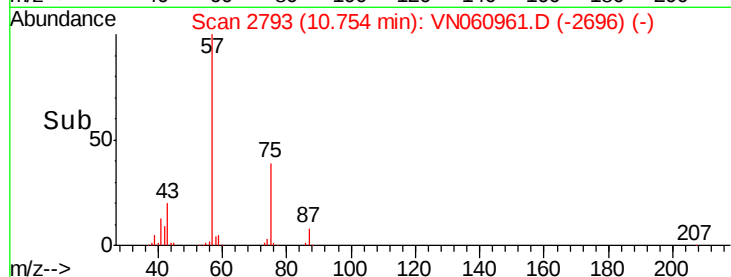
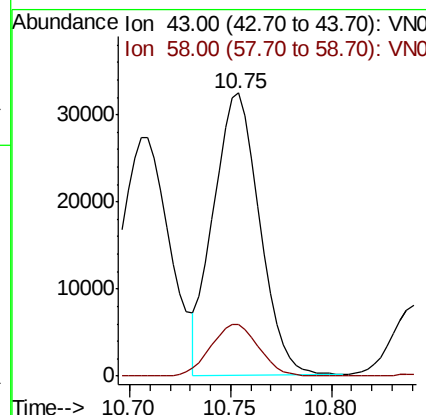
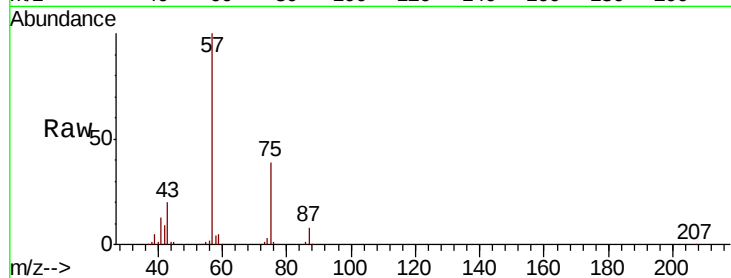




#59
2-Hexanone
Concen: 28.905 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

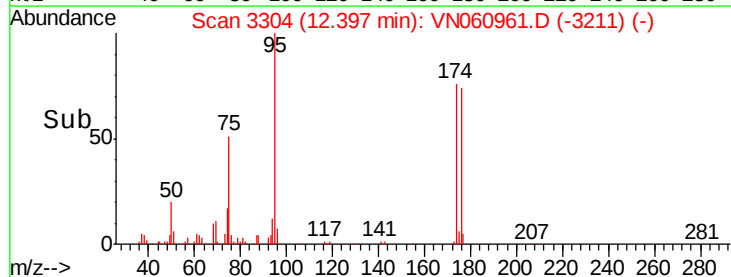
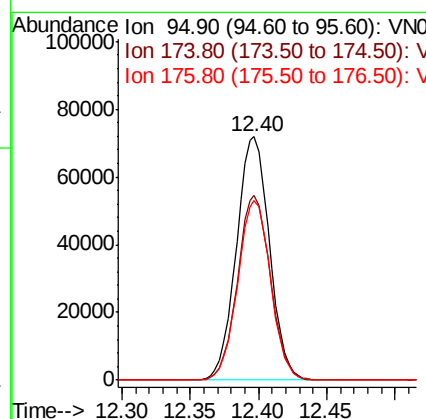
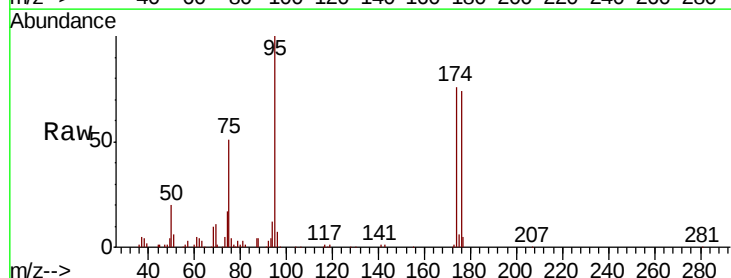
Instrument :
MSVOA_N
ClientSampled :

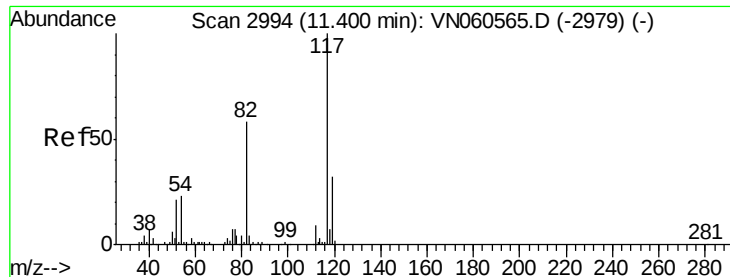
Tot Ion: 43 Resp: 51650
Ion Ratio Lower Upper
43 100
58 19.0 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.858 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion: 95 Resp: 120874
Ion Ratio Lower Upper
95 100
174 75.5 0.0 157.6
176 73.5 0.0 150.6

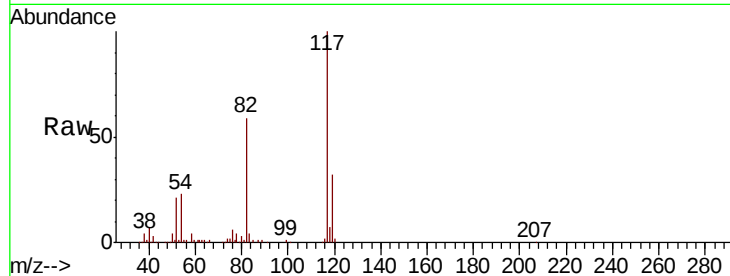




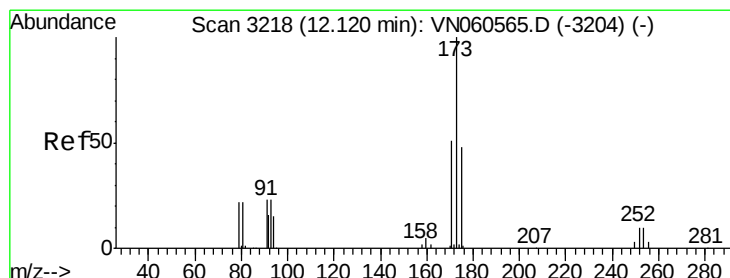
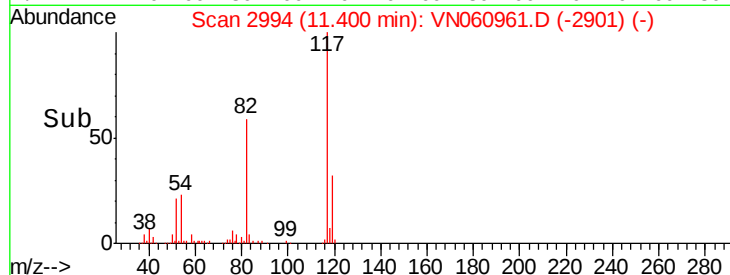
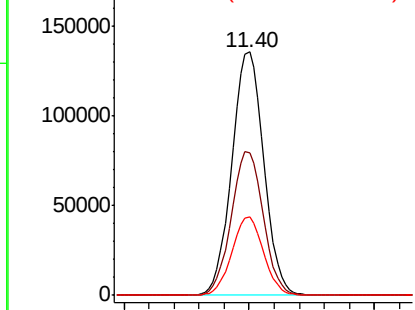
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 240425
Ion Ratio Lower Upper
117 100
82 58.7 46.7 70.1
119 32.0 25.5 38.3

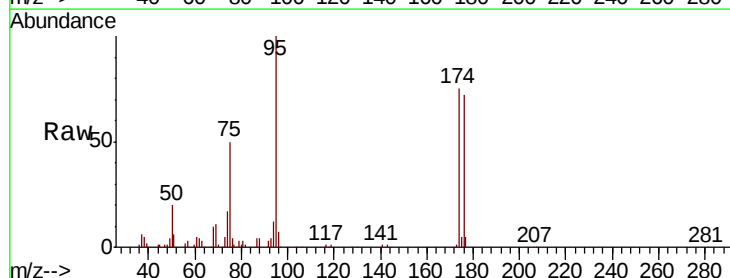


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

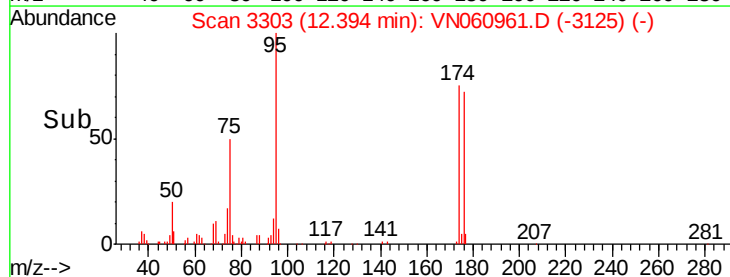
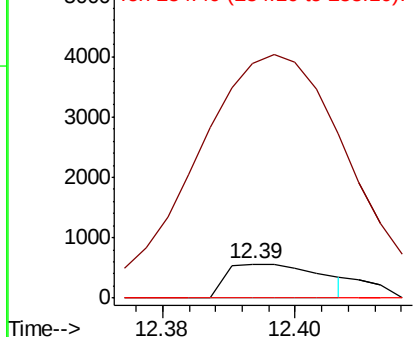


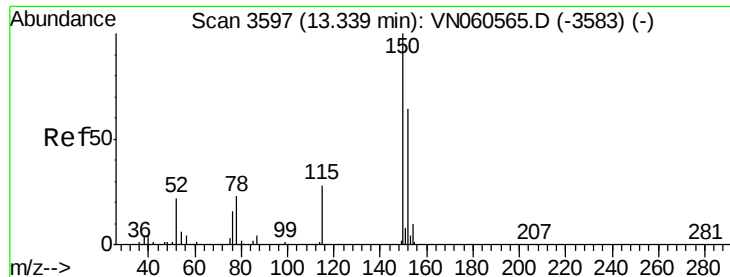
#71
Bromoform
Concen: 2.060 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060961.D
Acq: 15 Apr 2020 15:07

Tgt Ion:173 Resp: 563
Ion Ratio Lower Upper
173 100
175 1003.9 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

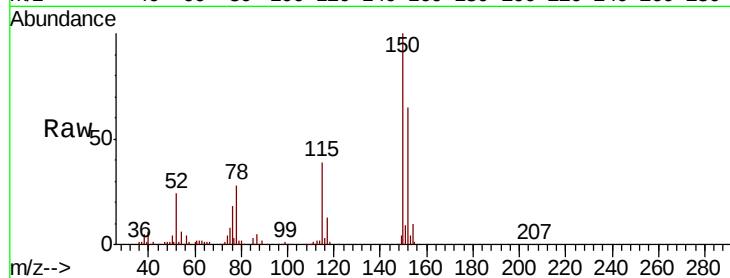
Tot Ion:152 Resp: 109426

Ion Ratio Lower Upper

152 100

115 60.2 30.2 90.6

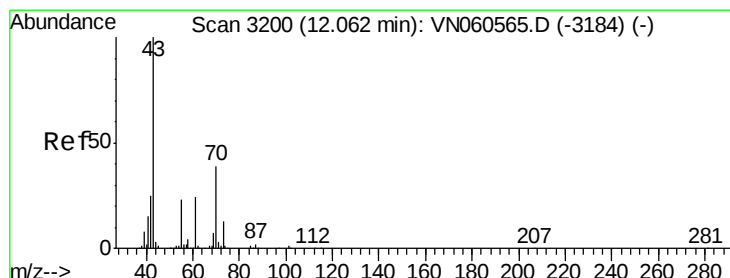
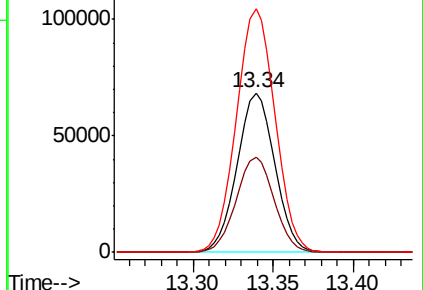
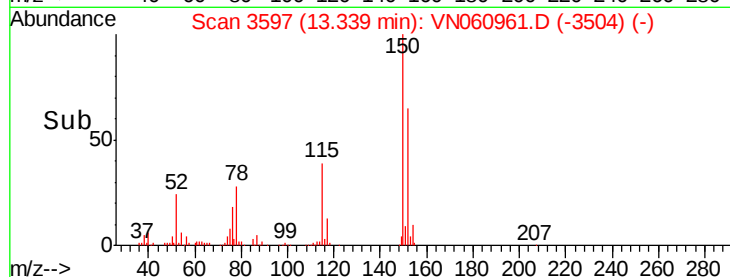
150 157.2 0.0 350.2



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: 0.790 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

Tgt Ion: 43 Resp: 2997

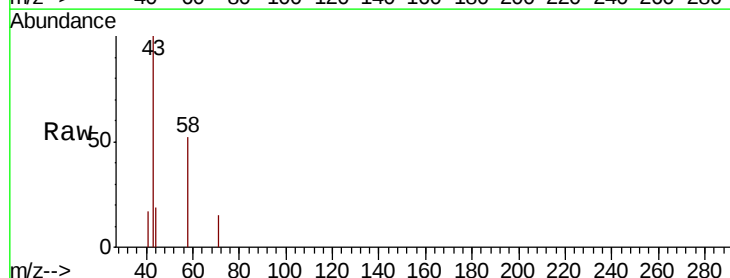
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

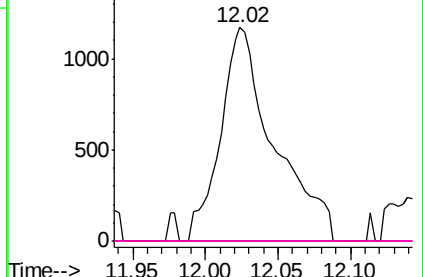
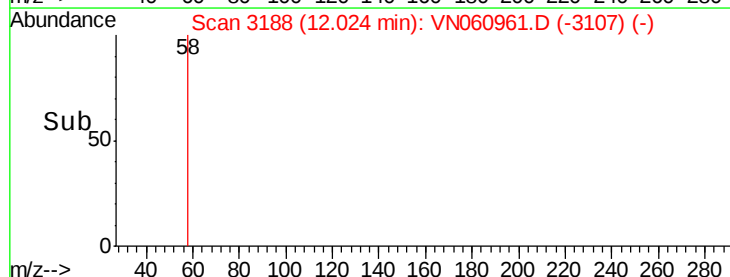


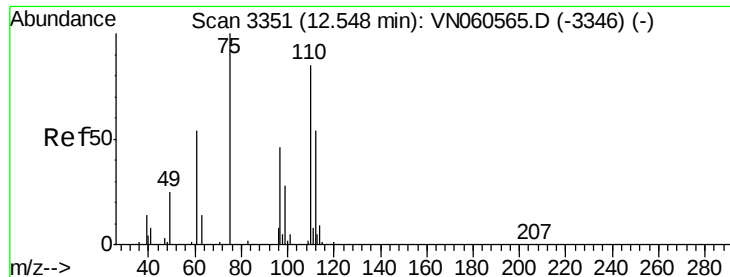
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.742 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

Instrument :

MSVOA_N

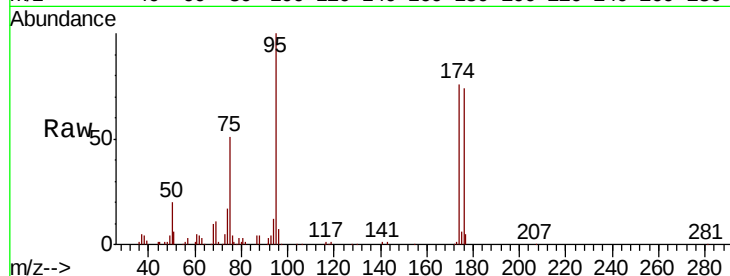
ClientSampleId :

Tot Ion: 75 Resp: 60782

Ion Ratio Lower Upper

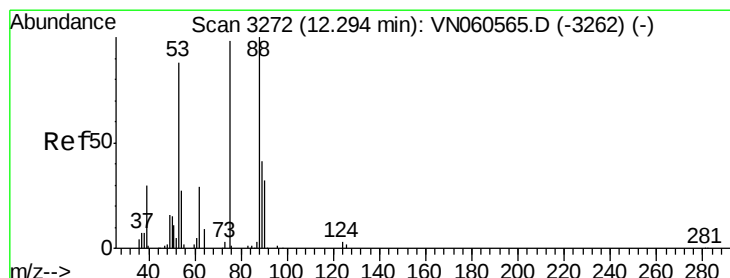
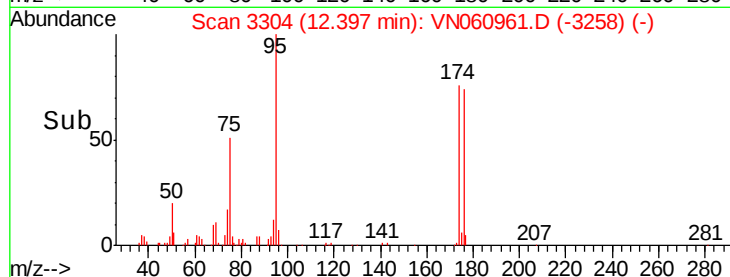
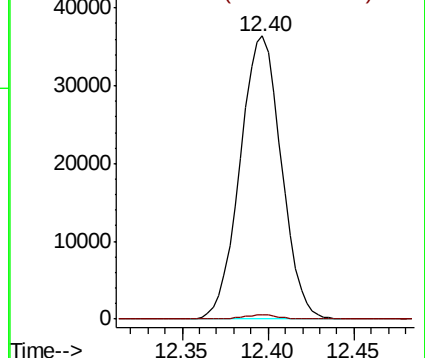
75 100

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: 66.113 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060961.D

Acq: 15 Apr 2020 15:07

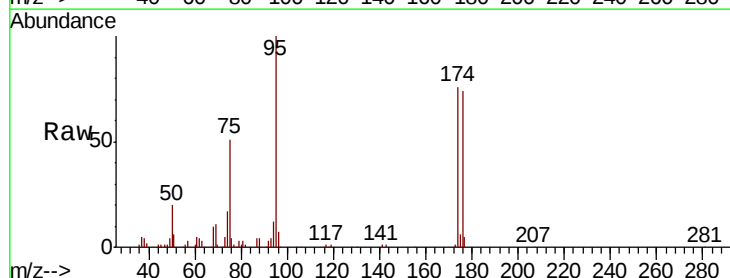
Tgt Ion: 75 Resp: 60782

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

