

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060966.D
 Acq On : 15 Apr 2020 17:00
 Operator : JC/MD
 Sample : L2245-25
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:35:46 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	157052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	269987	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	256152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	115846	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	106078	49.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.40%	
35) Dibromofluoromethane	7.56	113	79998	49.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.00%	
50) Toluene-d8	10.08	98	335579	50.33	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	12.40	95	127683	52.25	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.50%	

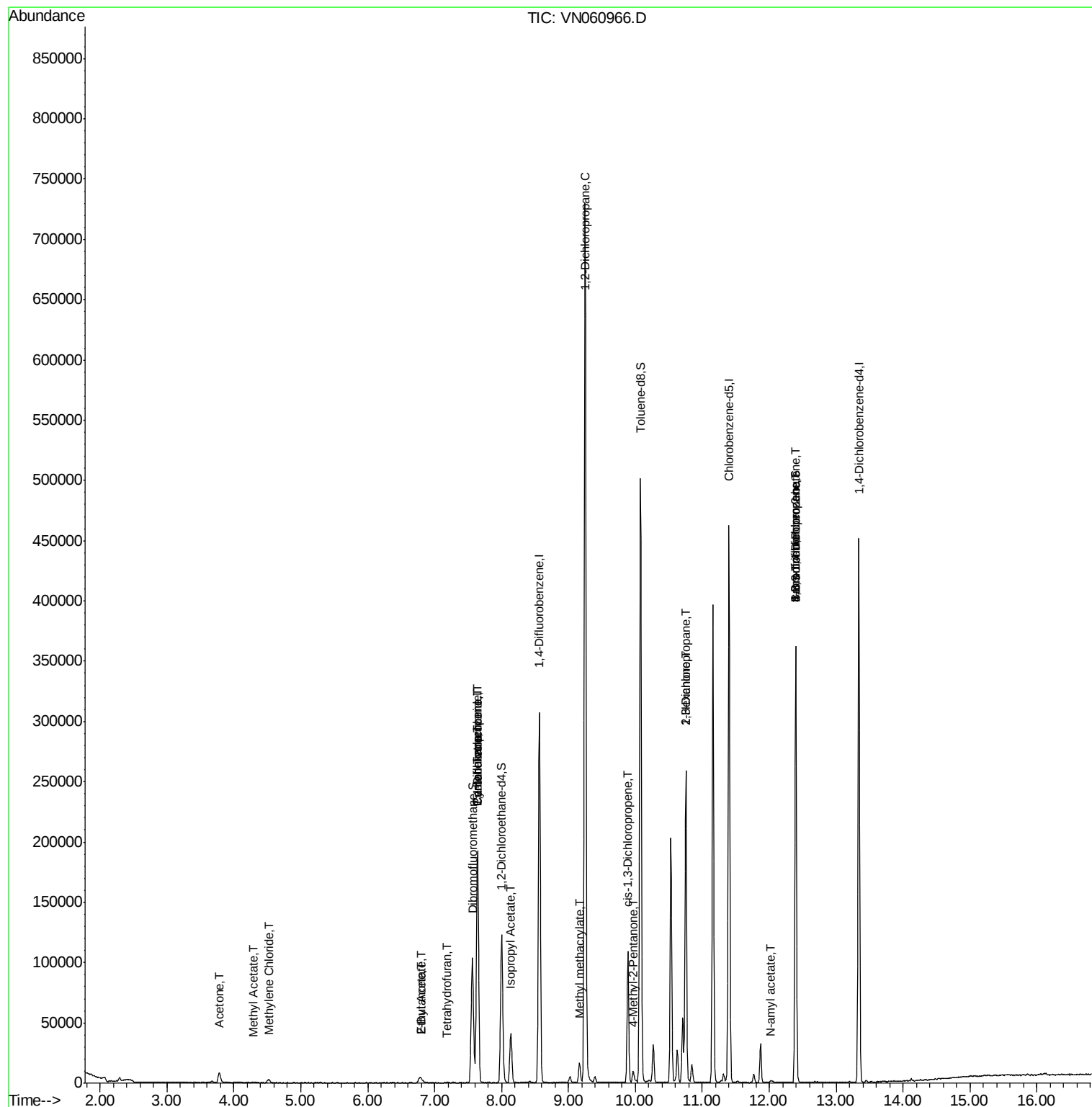
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	15395	20.159	ug/l	97
18) Methyl Acetate	4.29	43	1052	0.489	ug/l #	54
20) Methylene Chloride	4.53	84	1993	1.061	ug/l	94
25) 2-Butanone	6.81	43	5132	4.153	ug/l #	80
29) Tetrahydrofuran	7.18	42	245	0.280	ug/l #	35
31) Cyclohexane	7.64	56	3559	1.025	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12833	4.909	ug/l #	46
37) Ethyl Acetate	6.81	43	5132	1.817	ug/l #	70
38) Carbon Tetrachloride	7.64	117	15639	6.675	ug/l #	17
43) Isopropyl Acetate	8.14	43	49951	10.722	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	838	0.402	ug/l #	43
48) Methyl methacrylate	9.16	41	2649	1.277	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	6371	2.403	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	19242	5.837	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2390	0.751	ug/l #	42
59) 2-Hexanone	10.75	43	38240	20.025	ug/l #	52
71) Bromoform	12.40	173	843	2.214	ug/l #	1
74) N-amyl acetate	12.02	43	1888	0.470	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	65976	26.393	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65976	67.786	ug/l #	13

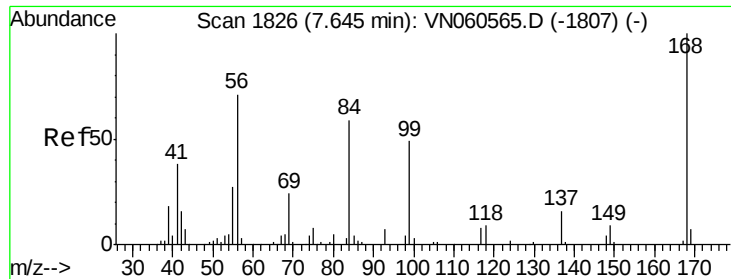
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

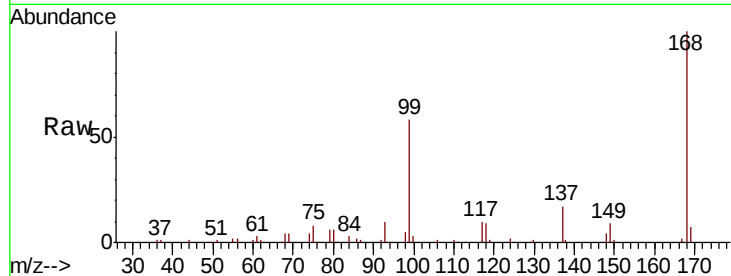
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 157052

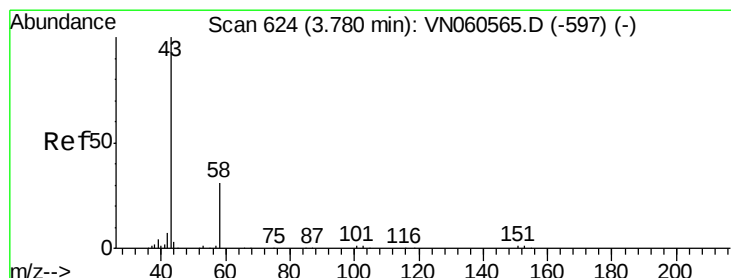
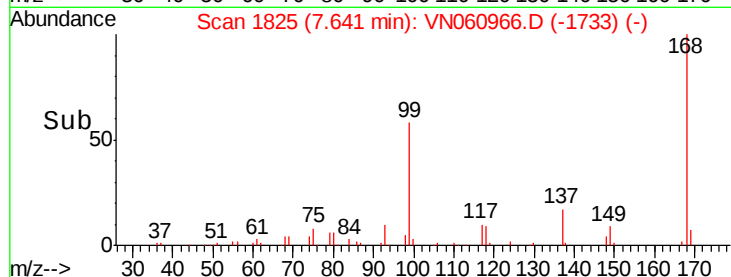
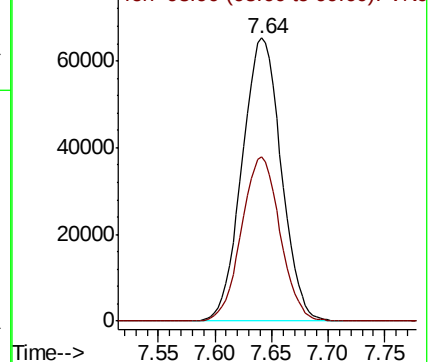
Ion Ratio Lower Upper

168 100

99 57.9 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 20.159 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060966.D

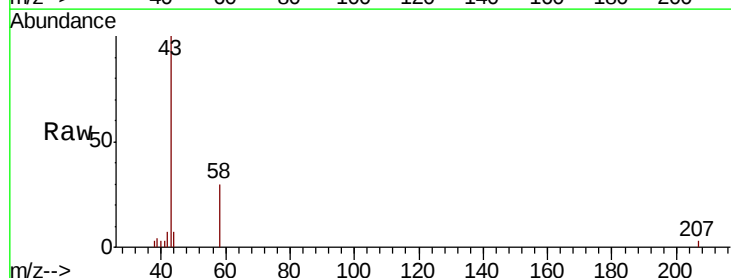
Acq: 15 Apr 2020 17:00

Tgt Ion: 43 Resp: 15395

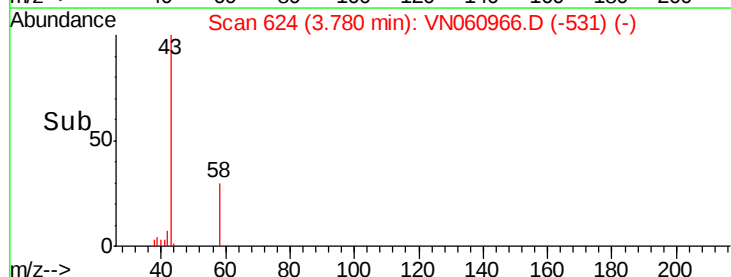
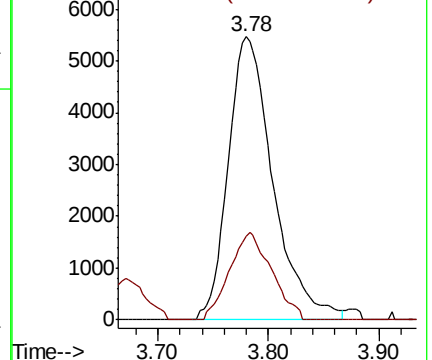
Ion Ratio Lower Upper

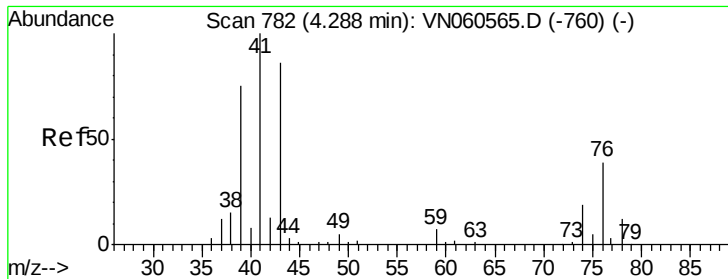
43 100

58 29.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN

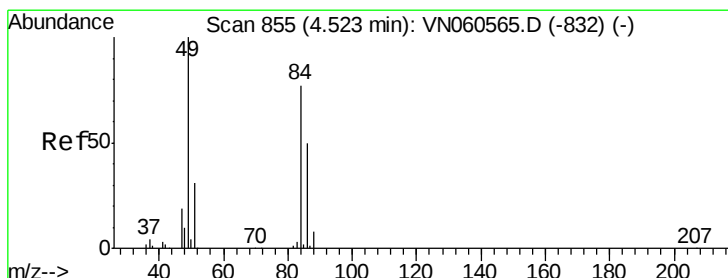
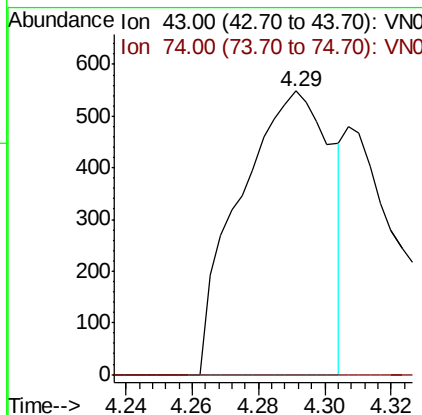
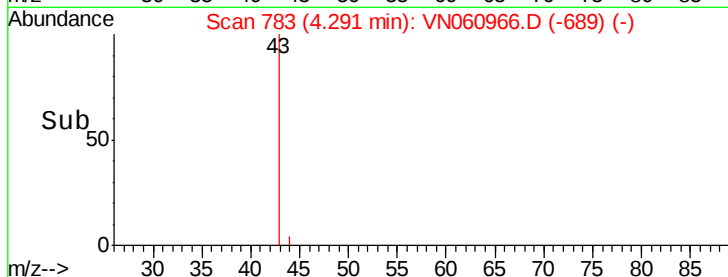
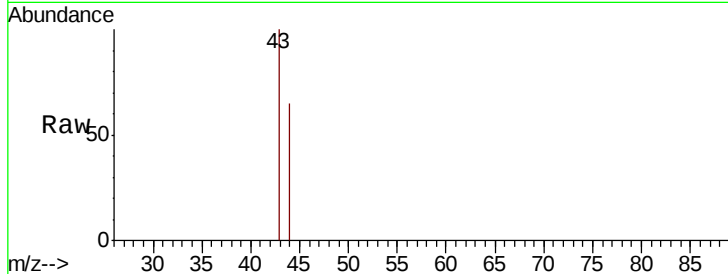




#18
Methyl Acetate
Concen: 0.489 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060966.D
Acq: 15 Apr 2020 17:00

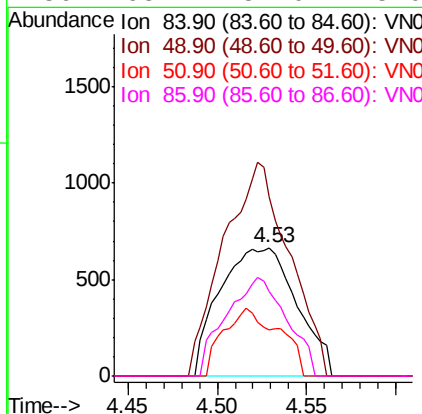
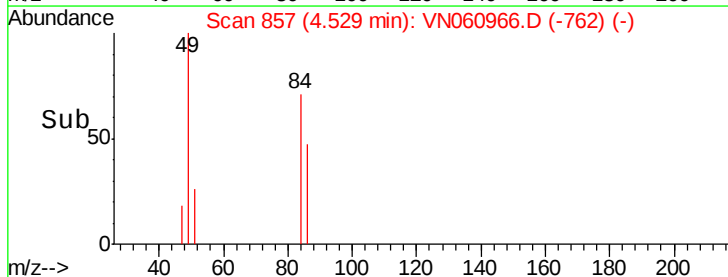
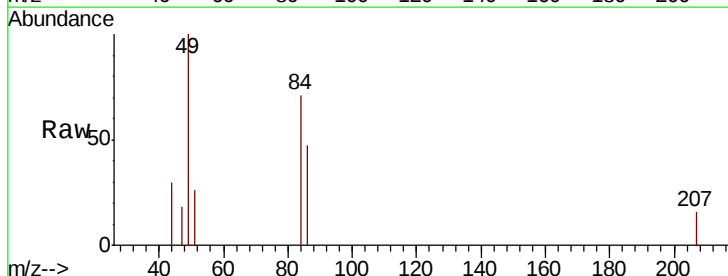
Instrument :
MSVOA_N
ClientSampled :

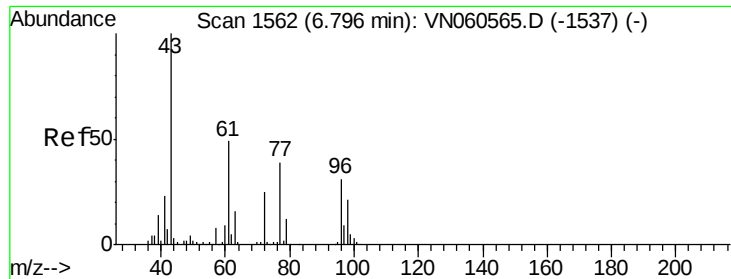
Tot Ion: 43 Resp: 1052
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.061 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060966.D
Acq: 15 Apr 2020 17:00

Tgt Ion: 84 Resp: 1993
Ion Ratio Lower Upper
84 100
49 140.2 103.3 154.9
51 36.3 31.6 47.4
86 65.7 52.0 78.0





#25

2-Butanone

Concen: 4.153 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :

MSVOA_N

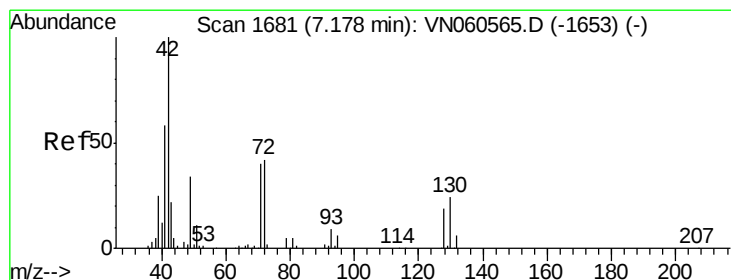
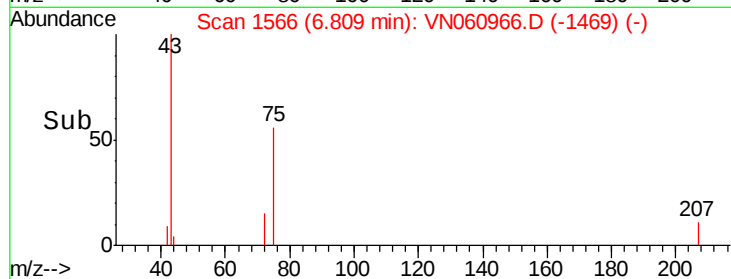
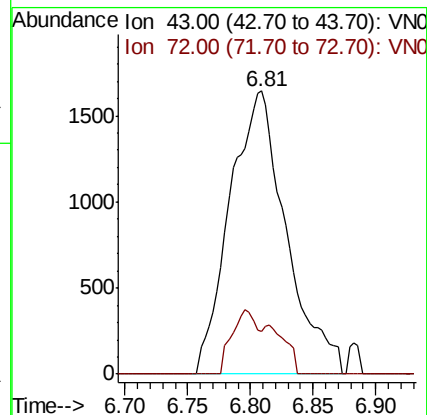
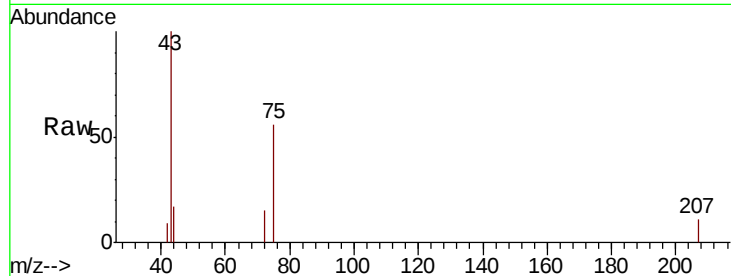
ClientSampled :

Tot Ion: 43 Resp: 5132

Ion Ratio Lower Upper

43 100

72 15.3 20.4 30.6#



#29

Tetrahydrofuran

Concen: 0.280 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

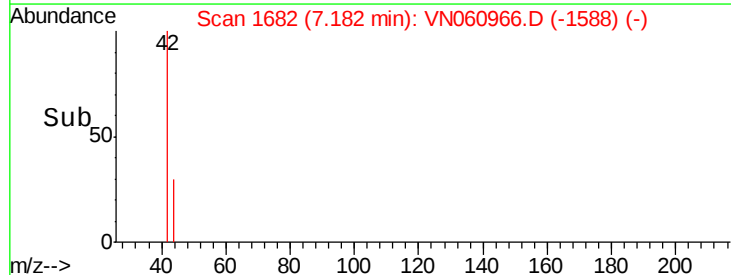
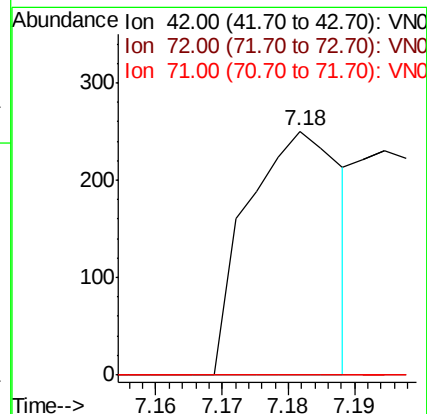
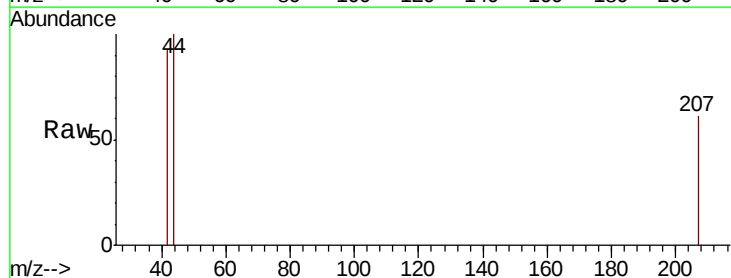
Tgt Ion: 42 Resp: 245

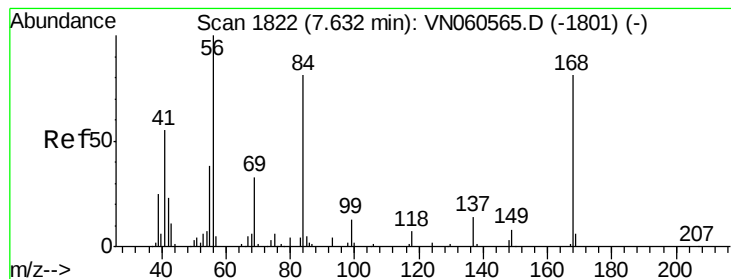
Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 1.025 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :
MSVOA_N
ClientSampled :

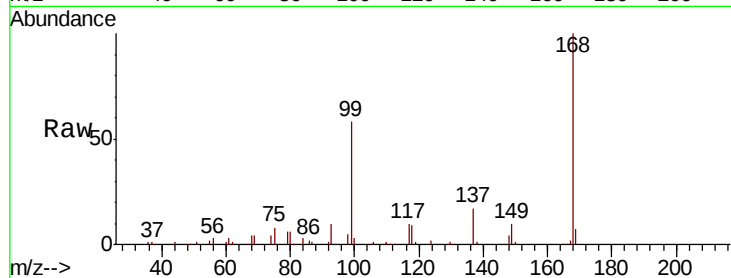
Tot Ion: 56 Resp: 3559

Ion Ratio Lower Upper

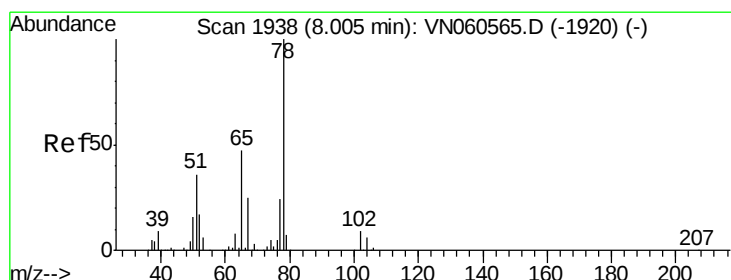
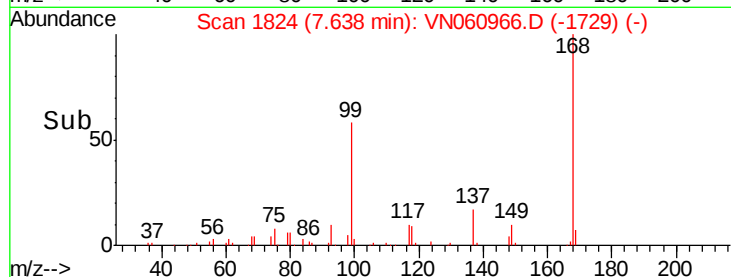
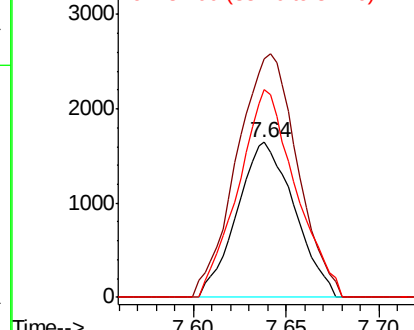
56 100

69 153.5 26.6 40.0#

84 134.2 64.3 96.5#



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



#33

1,2-Dichloroethane-d4

Concen: 49.202 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060966.D

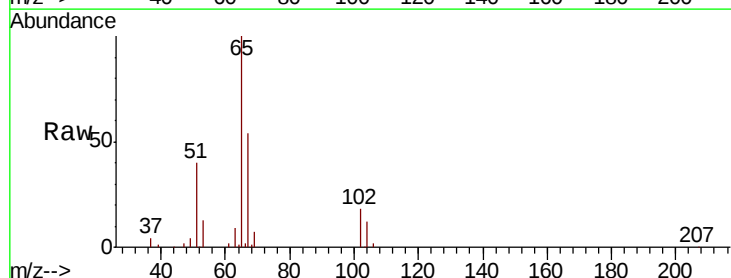
Acq: 15 Apr 2020 17:00

Tgt Ion: 65 Resp: 106078

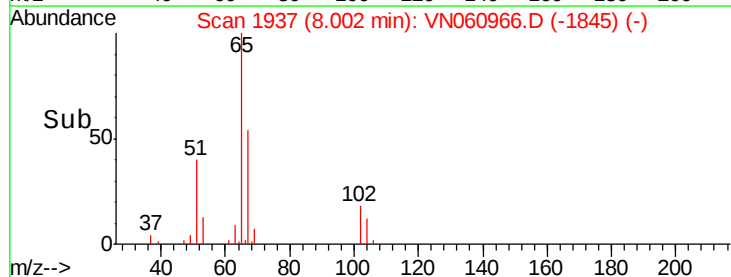
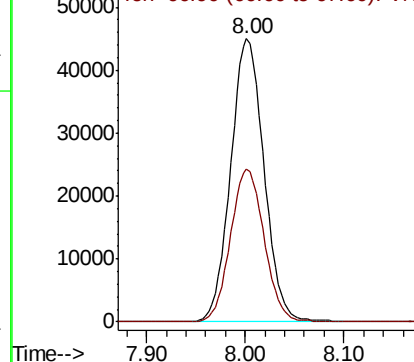
Ion Ratio Lower Upper

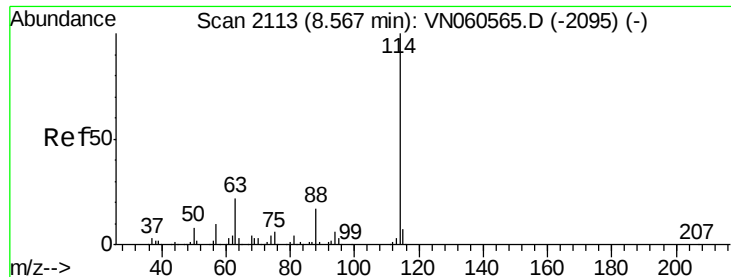
65 100

67 54.5 0.0 107.6



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

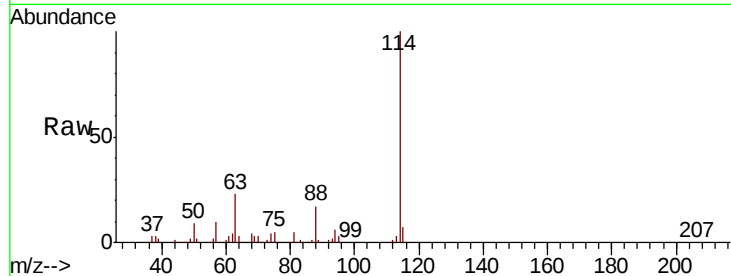




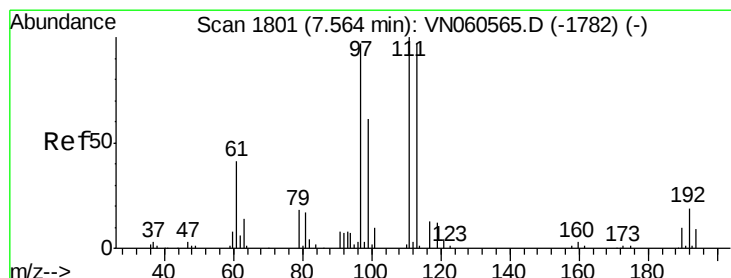
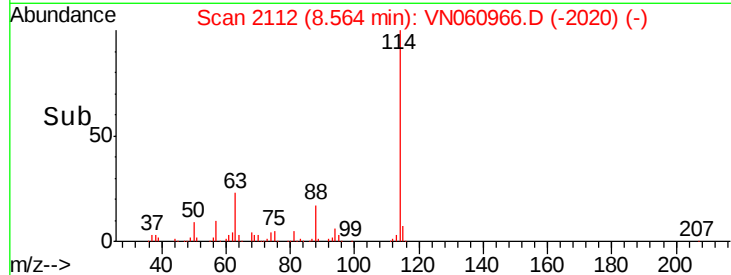
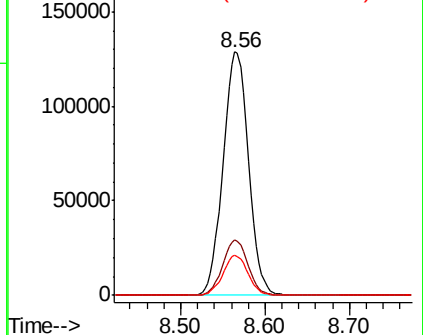
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060966.D
 Acq: 15 Apr 2020 17:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	43.8
88	16.5	0.0	33.0

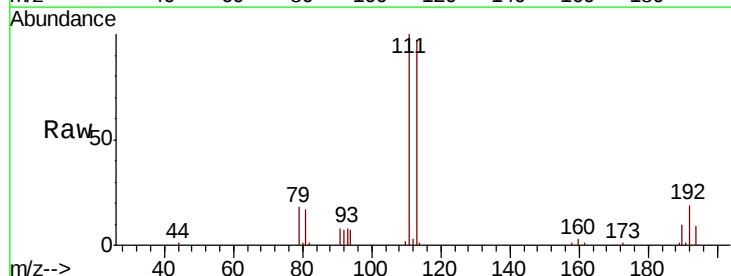


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

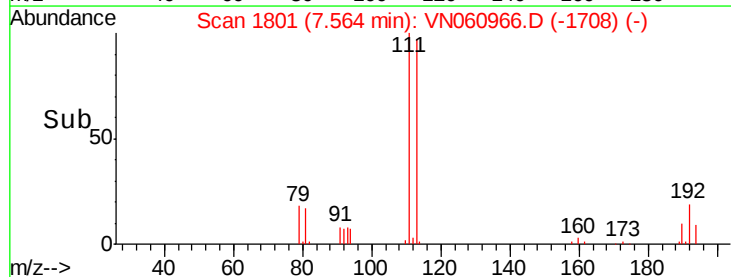
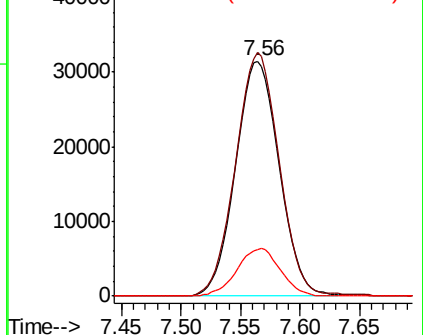


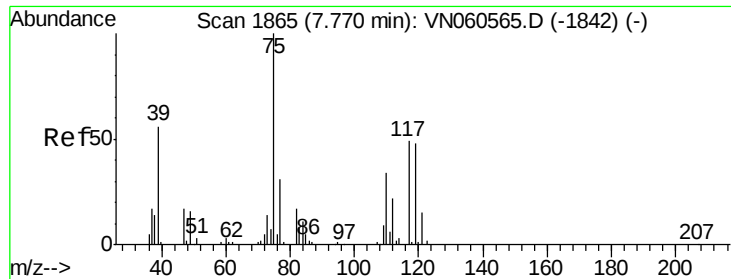
#35
 Dibromofluoromethane
 Concen: 49.003 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060966.D
 Acq: 15 Apr 2020 17:00

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	20.0	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

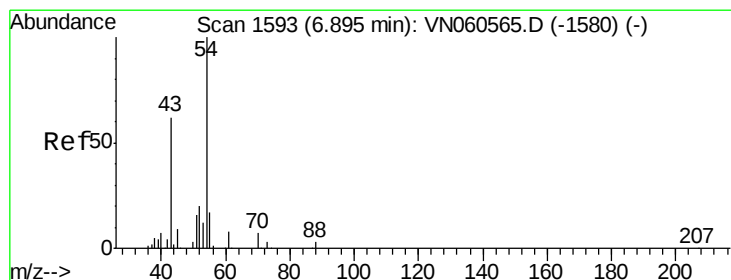
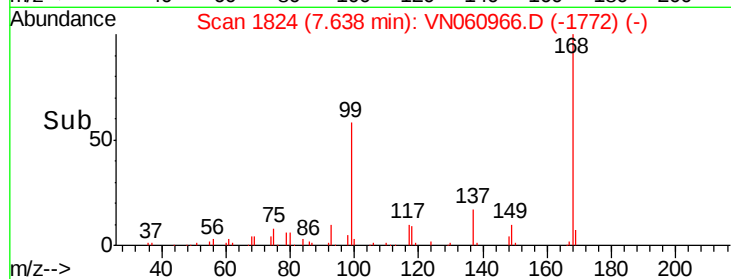
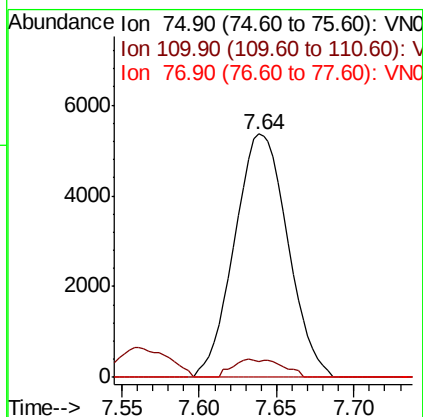
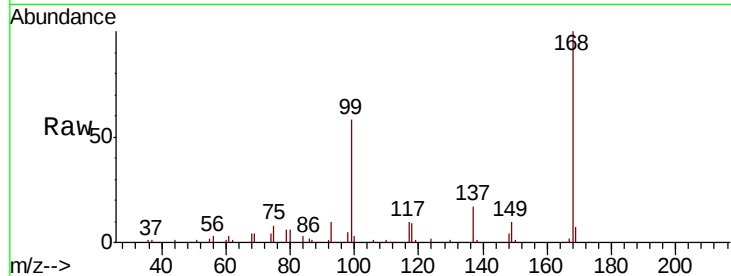




#36
 1,1-Dichloropropene
 Concen: 4.909 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060966.D
 Acq: 15 Apr 2020 17:00

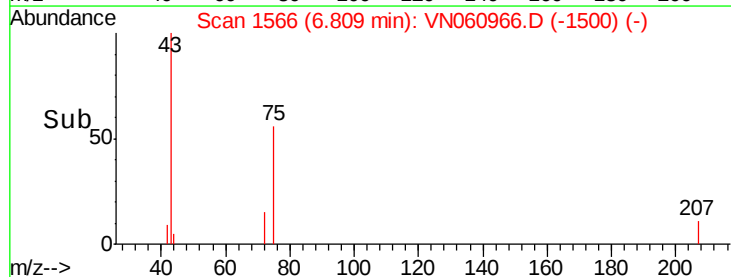
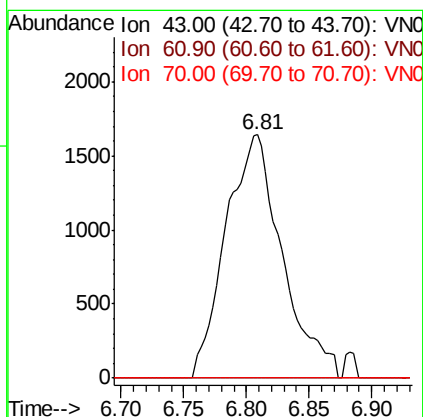
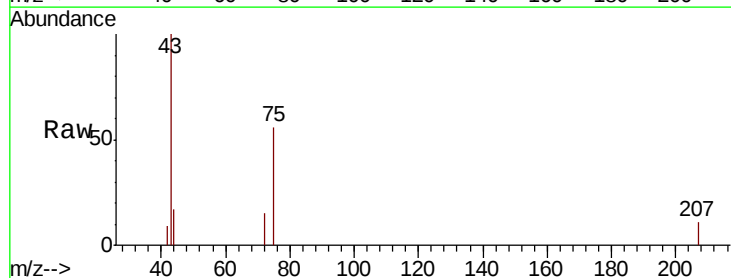
Instrument :
 MSVOA_N
 ClientSampled :

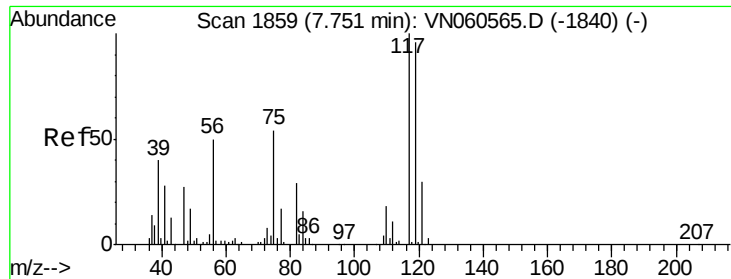
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.6	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.817 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.09 min
 Lab File: VN060966.D
 Acq: 15 Apr 2020 17:00

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





#38

Carbon Tetrachloride

Concen: 6.675 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :

MSVOA_N

ClientSampled :

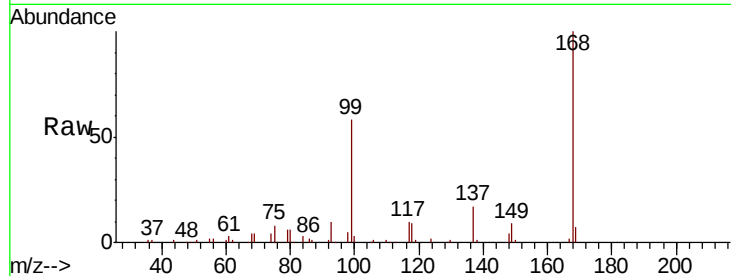
Tot Ion:117 Resp: 15639

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

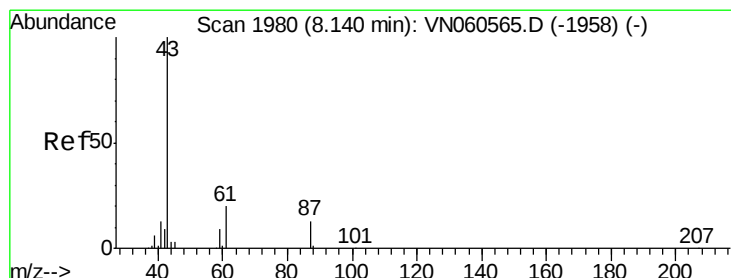
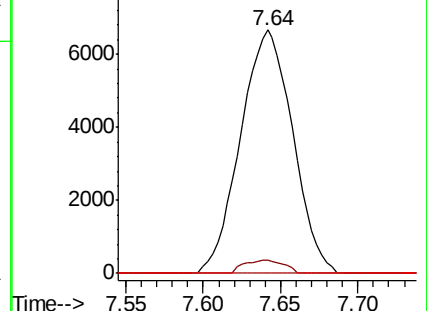
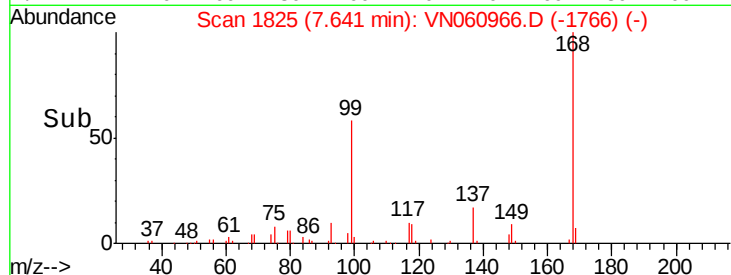
121 0.0 23.7 35.5#



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: 10.722 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

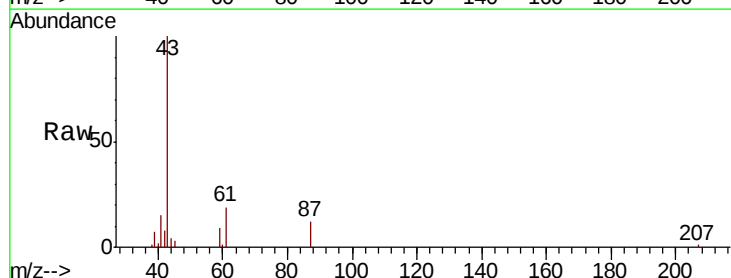
Tgt Ion: 43 Resp: 49951

Ion Ratio Lower Upper

43 100

61 19.0 20.7 31.1#

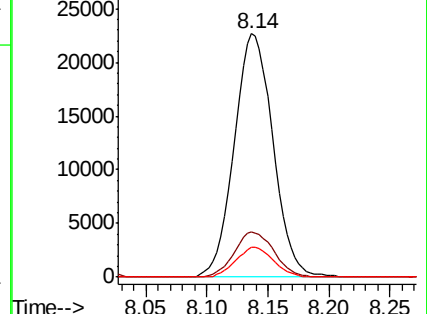
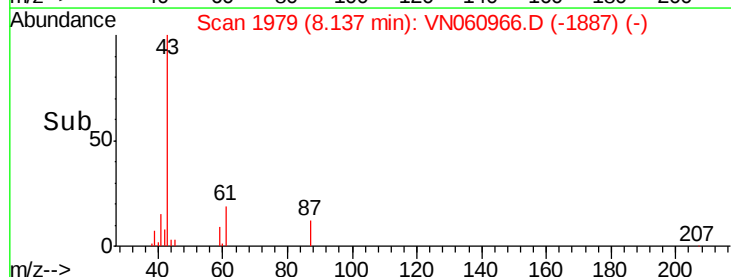
87 11.7 9.8 14.8

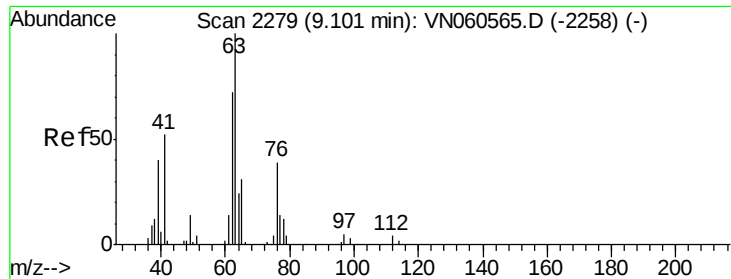


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.402 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :

MSVOA_N

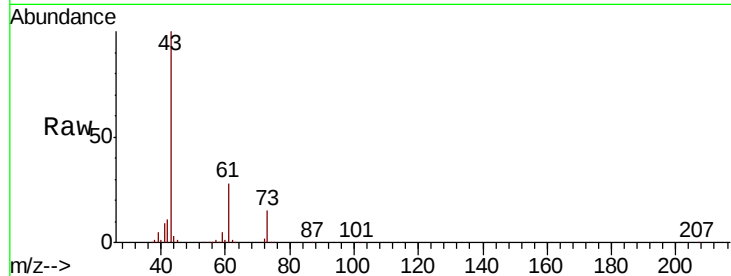
ClientSampled :

Tot Ion: 63 Resp: 838

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

9.25

500

400

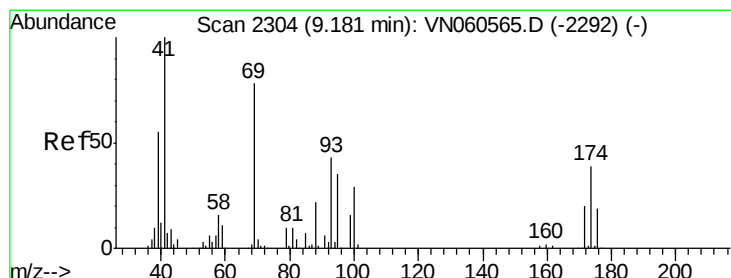
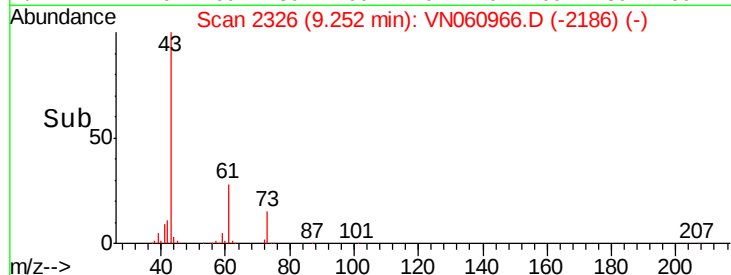
300

200

100

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.277 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

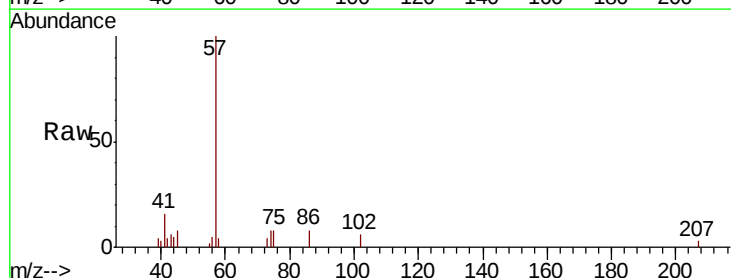
Tgt Ion: 41 Resp: 2649

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

20000

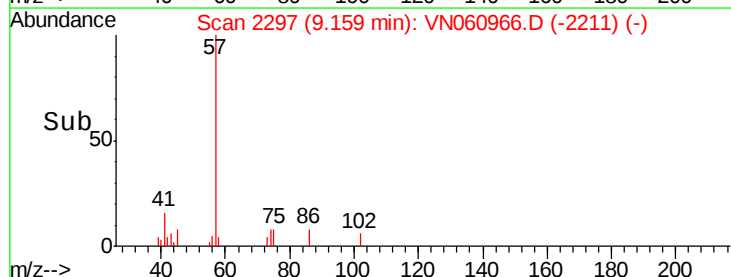
15000

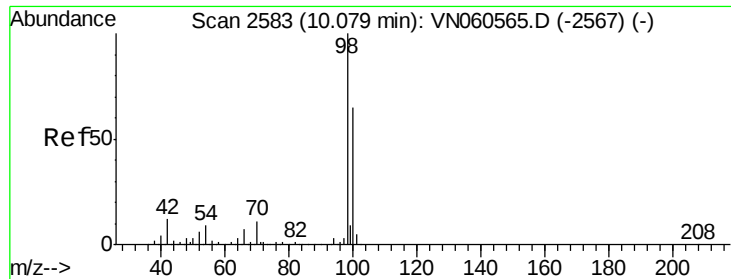
10000

5000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 50.325 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :

MSVOA_N

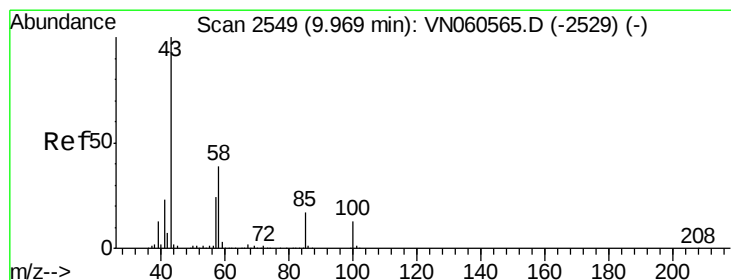
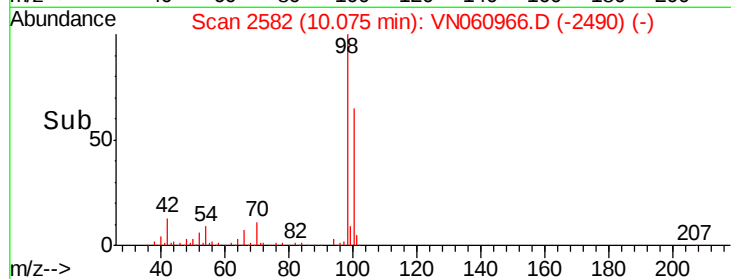
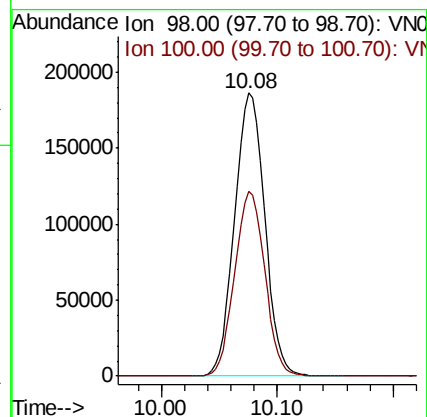
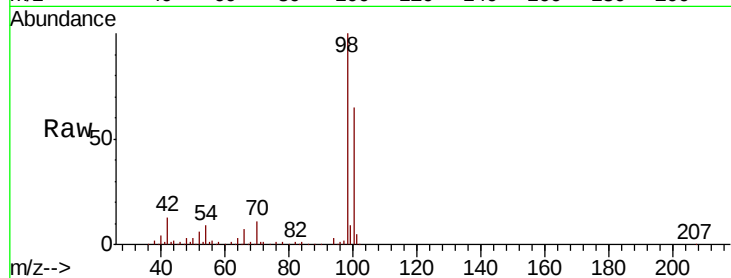
ClientSampleId :

Tot Ion: 98 Resp: 335579

Ion Ratio Lower Upper

98 100

100 65.2 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 2.403 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060966.D

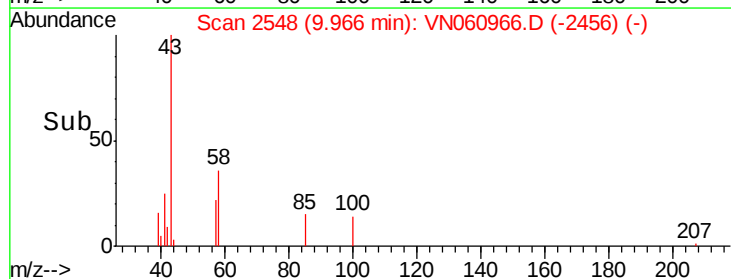
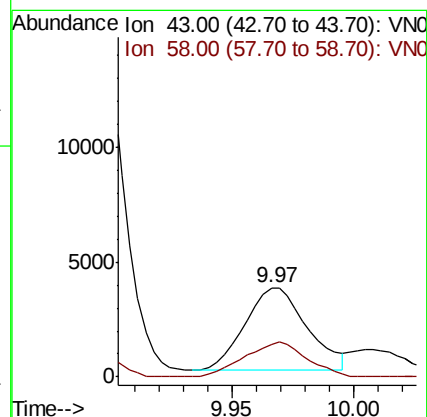
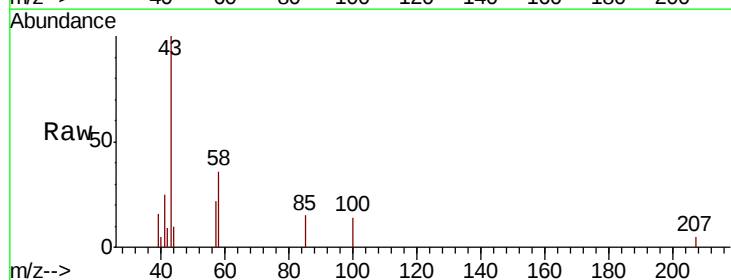
Acq: 15 Apr 2020 17:00

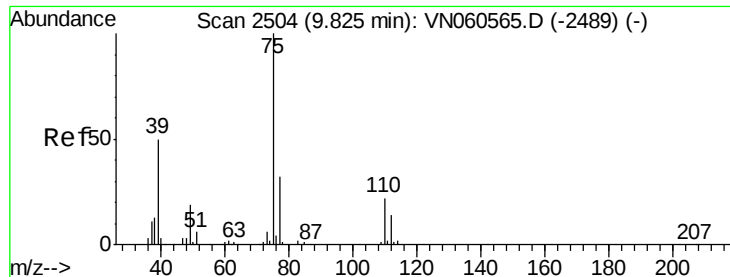
Tgt Ion: 43 Resp: 6371

Ion Ratio Lower Upper

43 100

58 42.1 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.837 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :
MSVOA_N
ClientSampled :

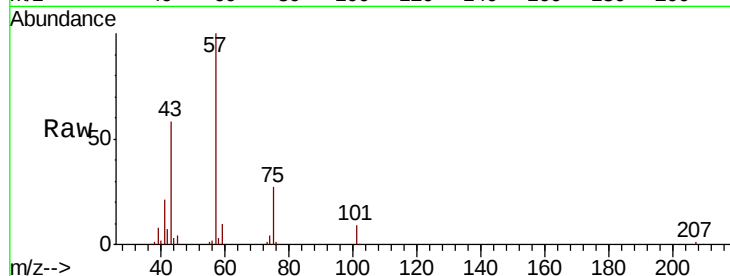
Tot Ion: 75 Resp: 19242

Ion Ratio Lower Upper

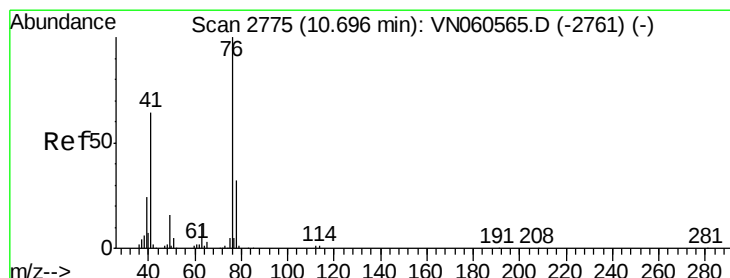
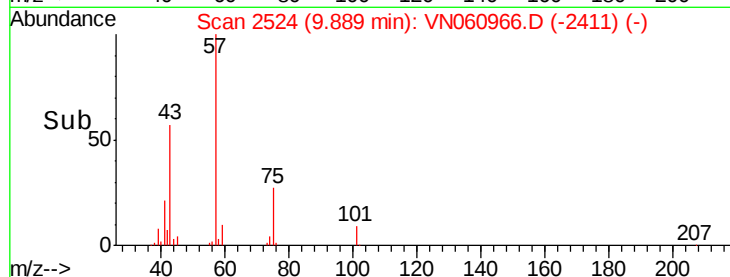
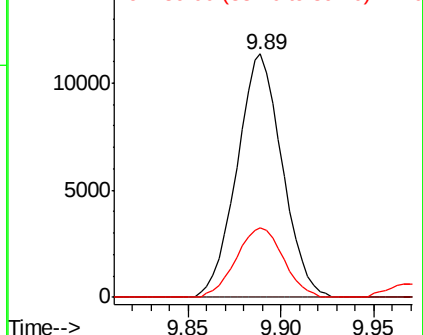
75 100

77 0.0 25.4 38.0#

39 28.5 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.751 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060966.D

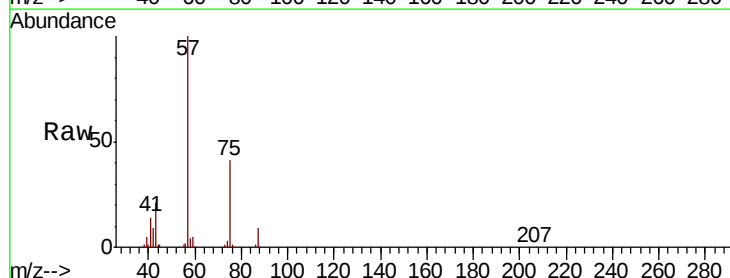
Acq: 15 Apr 2020 17:00

Tgt Ion: 76 Resp: 2390

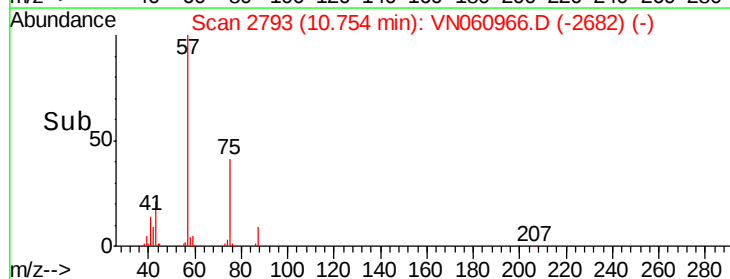
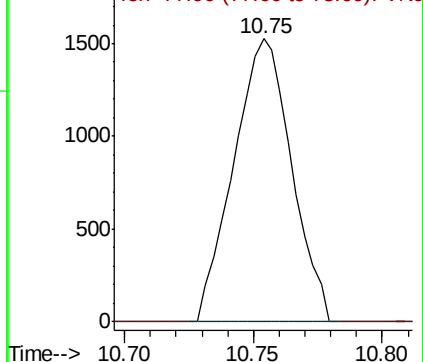
Ion Ratio Lower Upper

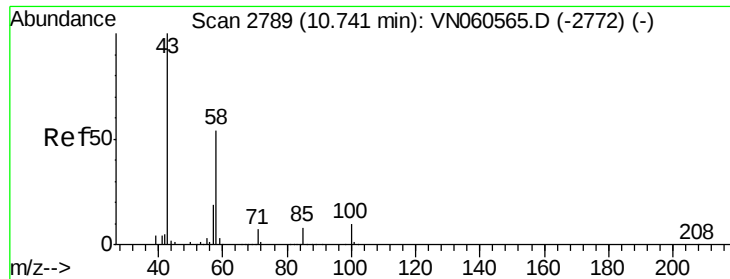
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

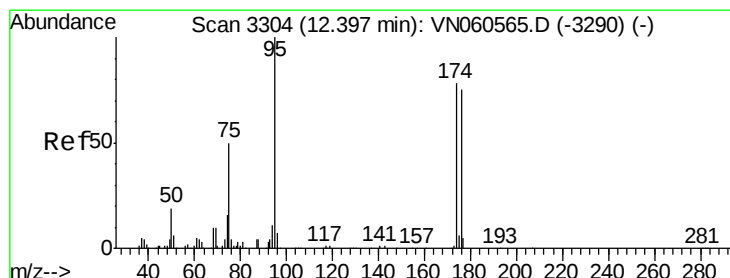
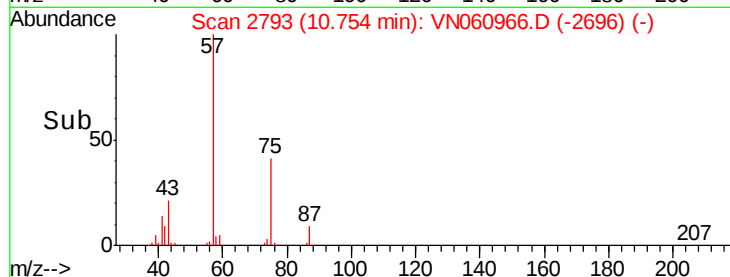
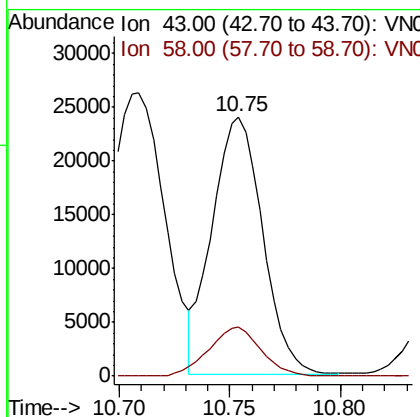
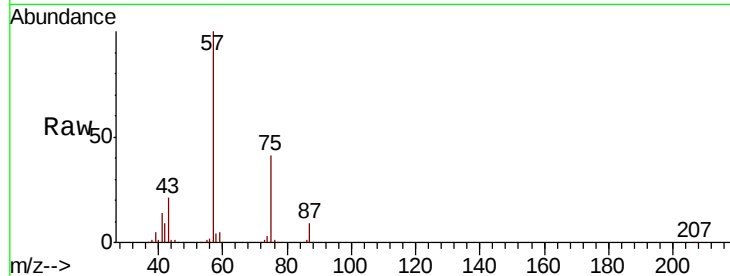




#59
2-Hexanone
Concen: 20.025 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060966.D
Acq: 15 Apr 2020 17:00

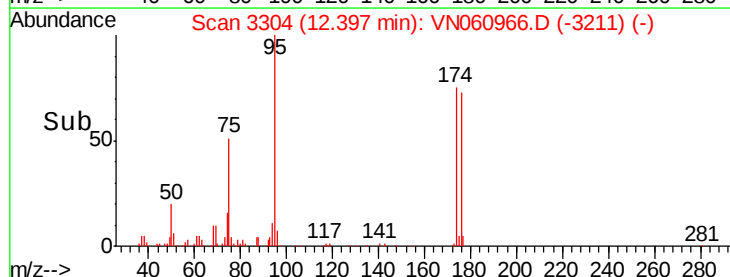
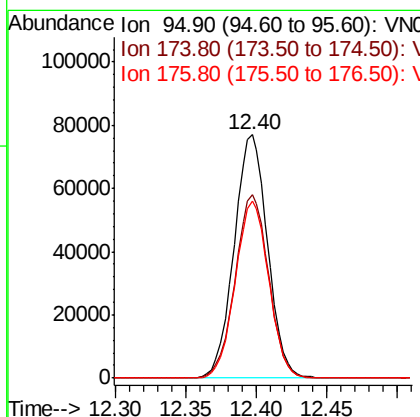
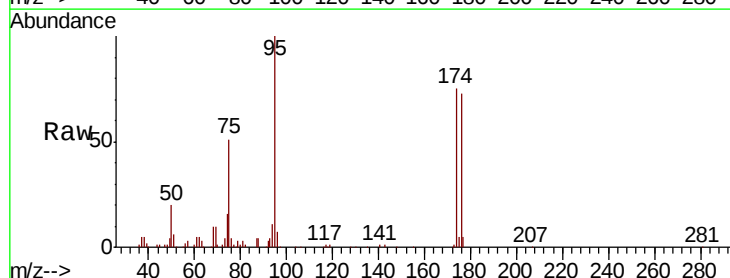
Instrument :
MSVOA_N
ClientSampled :

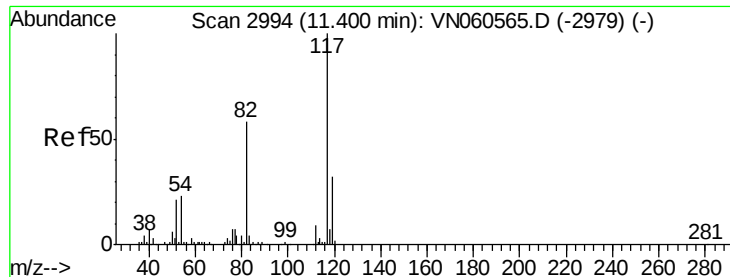
Tot Ion: 43 Resp: 38240
Ion Ratio Lower Upper
43 100
58 19.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.247 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060966.D
Acq: 15 Apr 2020 17:00

Tgt Ion: 95 Resp: 127683
Ion Ratio Lower Upper
95 100
174 75.6 0.0 157.6
176 73.1 0.0 150.6

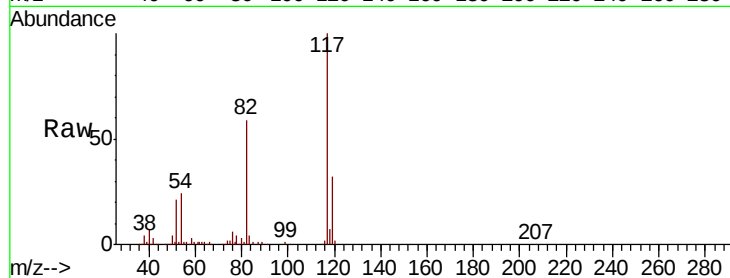




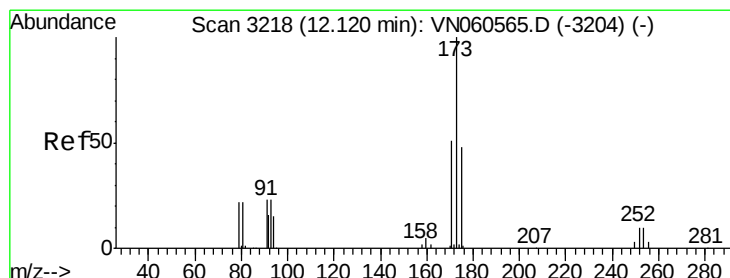
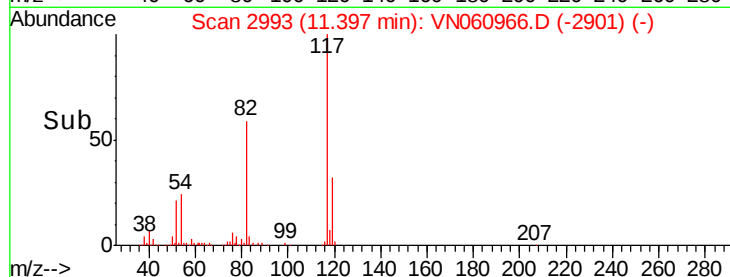
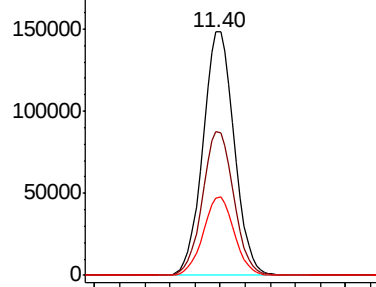
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060966.D
Acq: 15 Apr 2020 17:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 256152
Ion Ratio Lower Upper
117 100
82 59.3 46.7 70.1
119 32.0 25.5 38.3

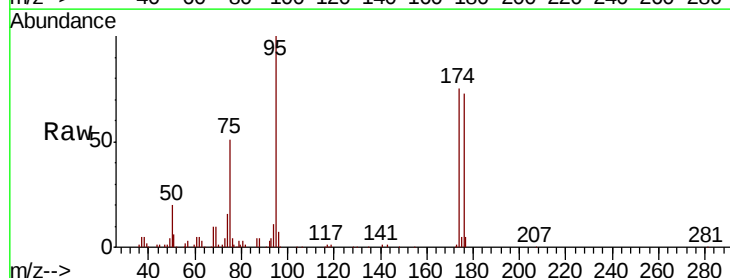


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

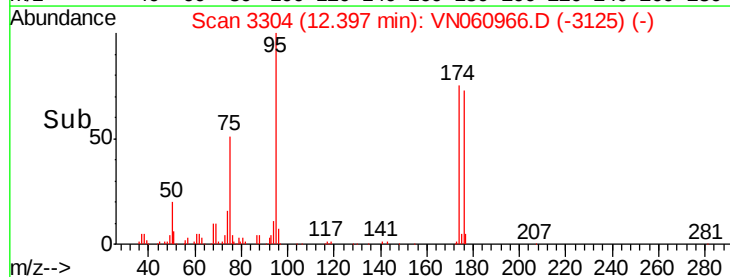
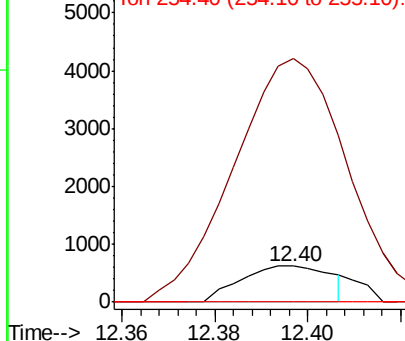


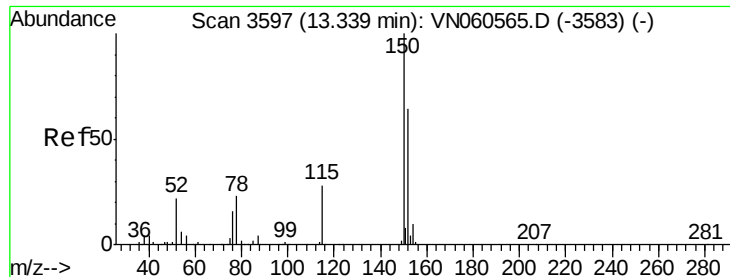
#71
Bromoform
Concen: 2.214 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060966.D
Acq: 15 Apr 2020 17:00

Tgt Ion:173 Resp: 843
Ion Ratio Lower Upper
173 100
175 729.4 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: VN060966.D

Acq: 15 Apr 2020 17:00

Instrument :

MSVOA_N

ClientSampleId :

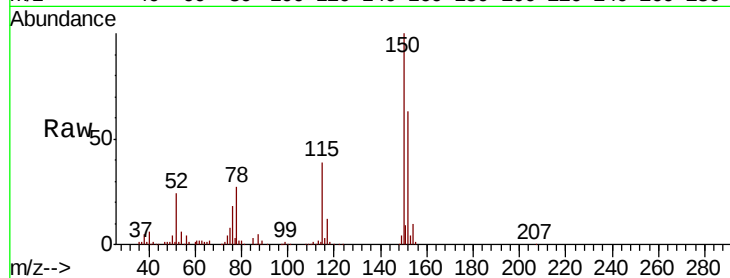
Tot Ion:152 Resp: 115846

Ion Ratio Lower Upper

152 100

115 61.4 30.2 90.6

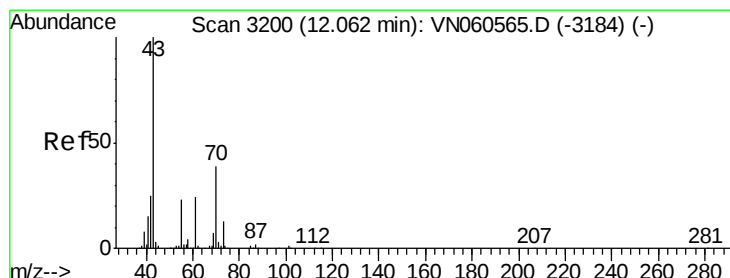
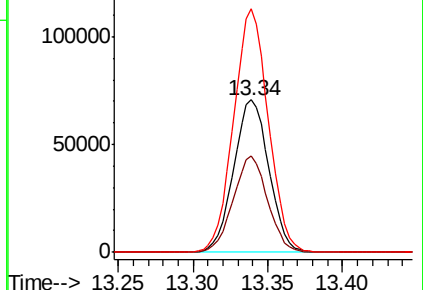
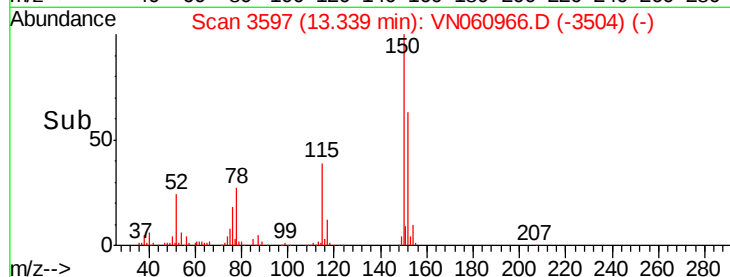
150 157.2 0.0 350.2



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: 0.470 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060966.D

Acq: 15 Apr 2020 17:00

Tgt Ion: 43 Resp: 1888

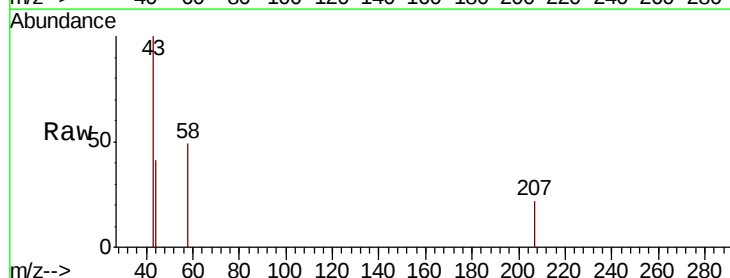
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

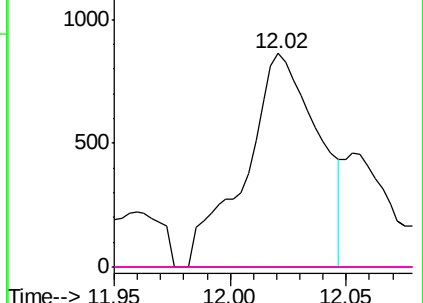
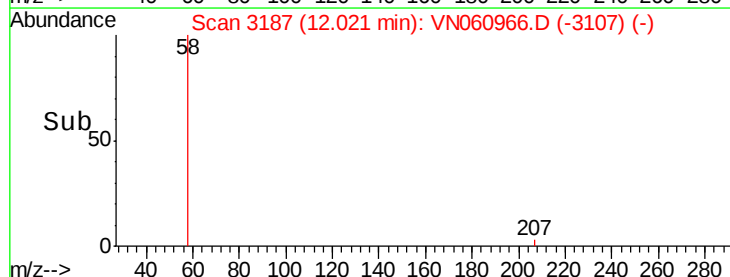


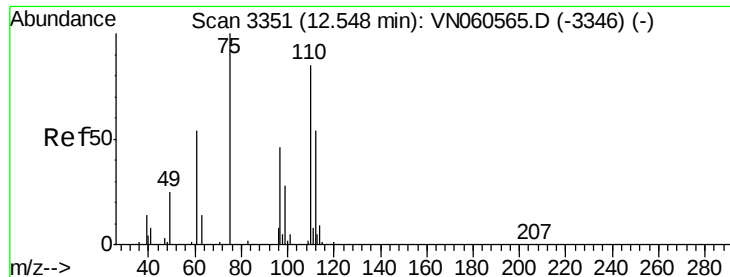
Abundance Ion 43.00 (42.70 to 43.70): V

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

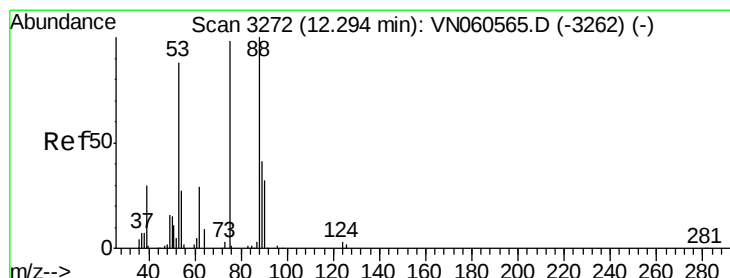
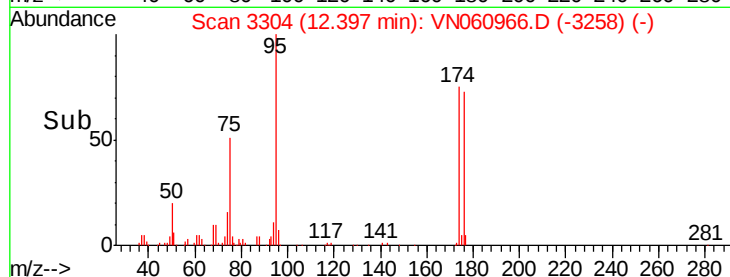
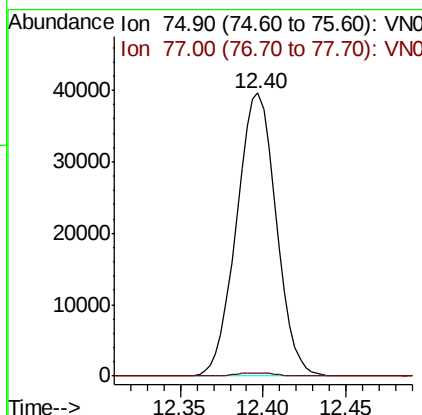
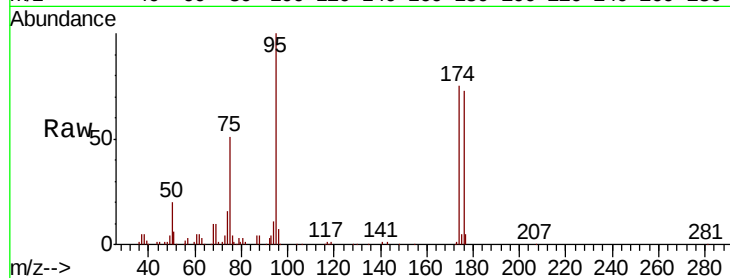




#76
 1,2,3-Trichloropropane
 Concen: 26.393 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060966.D
 Acq: 15 Apr 2020 17:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 65976
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.786 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060966.D
 Acq: 15 Apr 2020 17:00

Tgt Ion: 75 Resp: 65976
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

