

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060801.D
 Acq On : 31 Mar 2020 21:00
 Operator : JC/MD
 Sample : PB127897ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:26:24 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	199019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	336684	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	318176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147029	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	130393	47.73	ug/l	0.00
Spiked Amount						
			Recovery	=	95.46%	
35) Dibromofluoromethane	7.56	113	99640	48.94	ug/l	0.00
Spiked Amount						
			Recovery	=	97.88%	
50) Toluene-d8	10.08	98	418040	50.27	ug/l	0.00
Spiked Amount						
			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.39	95	158215	51.92	ug/l	0.00
Spiked Amount						
			Recovery	=	103.84%	

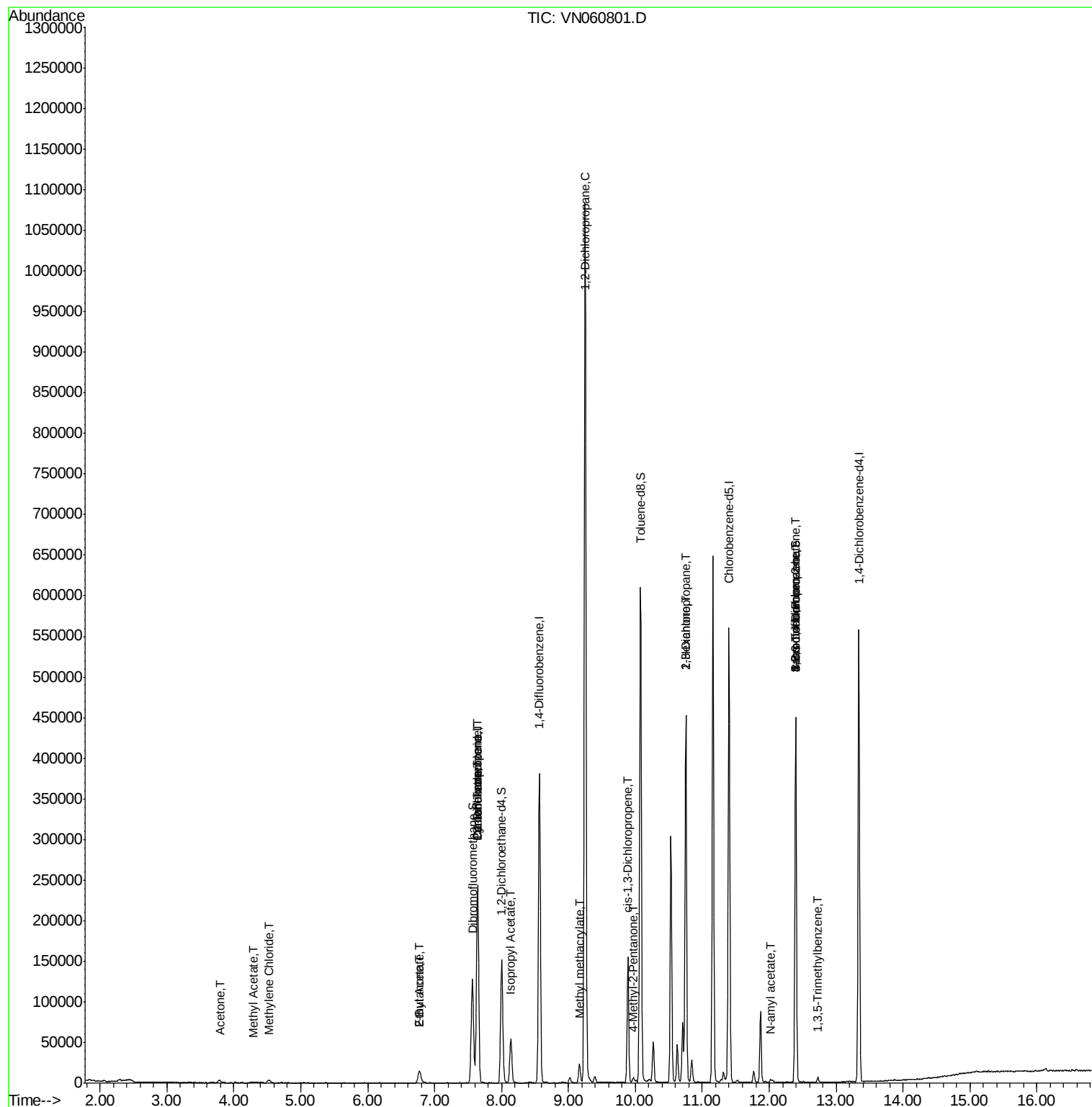
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6294	6.504	ug/l	93
18) Methyl Acetate	4.30	43	2066	0.758	ug/l #	54
20) Methylene Chloride	4.52	84	2816	1.183	ug/l #	91
25) 2-Butanone	6.79	43	1568	1.001	ug/l #	50
31) Cyclohexane	7.64	56	4077	0.927	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15751	4.831	ug/l #	49
37) Ethyl Acetate	6.79	43	1568	0.445	ug/l #	56
38) Carbon Tetrachloride	7.64	117	19274	6.596	ug/l #	17
43) Isopropyl Acetate	8.14	43	65638	11.298	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1252	0.482	ug/l #	43
48) Methyl methacrylate	9.16	41	3509	1.357	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5149	1.558	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	26576	6.464	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4232	1.067	ug/l #	42
59) 2-Hexanone	10.75	43	66606	27.969	ug/l #	52
71) Bromoform	12.39	173	232	1.799	ug/l #	29
74) N-amyl acetate	12.02	43	3440	0.675	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	80336	25.322	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3718	0.397	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.39	75	80336	65.034	ug/l #	13

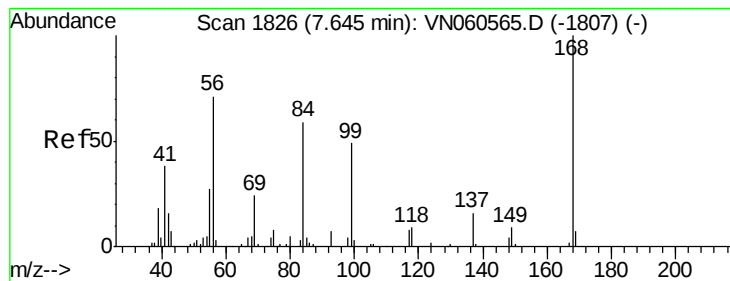
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

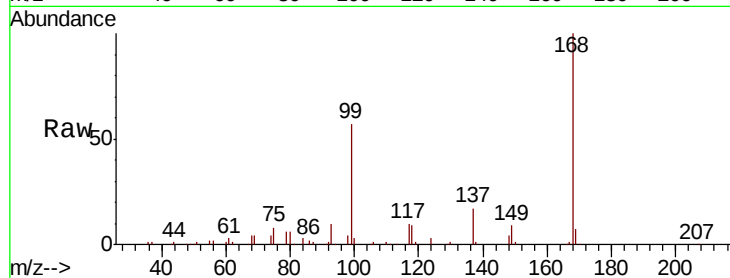
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 199019

Ion Ratio Lower Upper

168 100

99 56.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

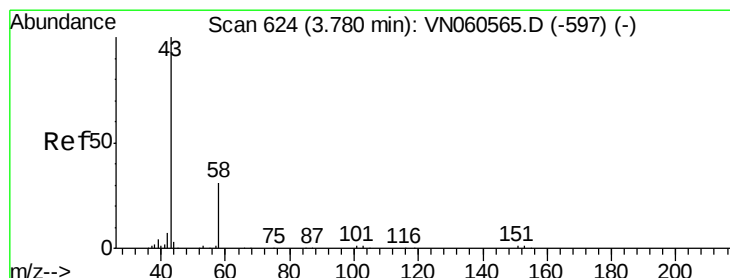
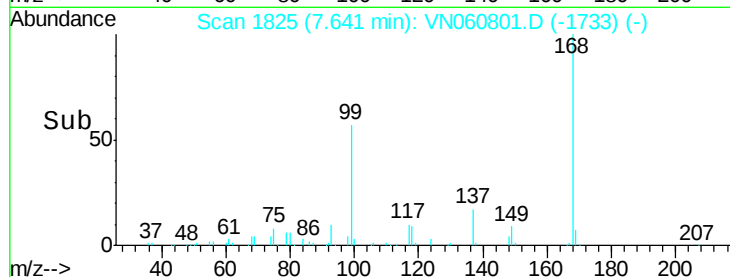
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 6.504 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060801.D

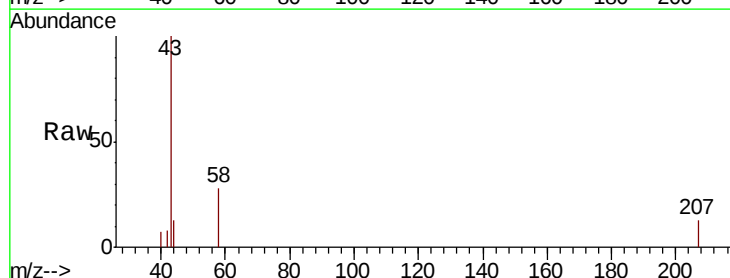
Acq: 31 Mar 2020 21:00

Tgt Ion: 43 Resp: 6294

Ion Ratio Lower Upper

43 100

58 27.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

2500

2000

1500

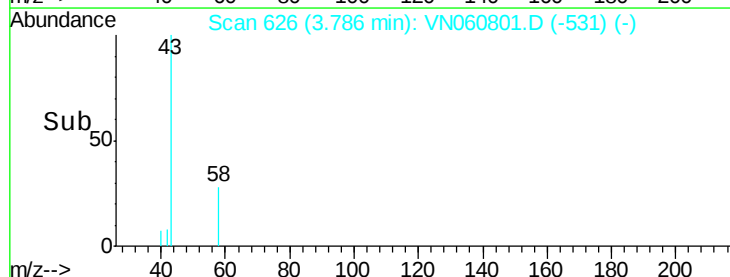
1000

500

0

3.70 3.75 3.80 3.85

Time-->

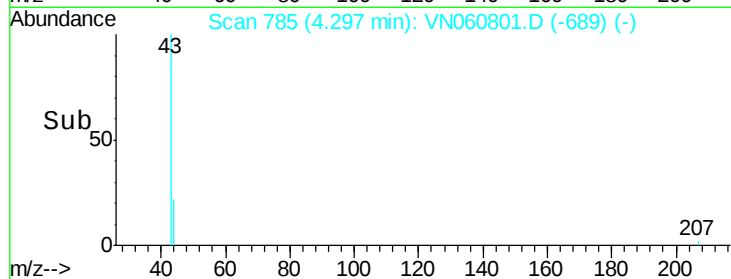
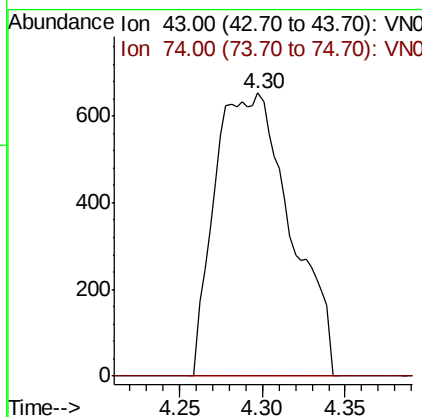
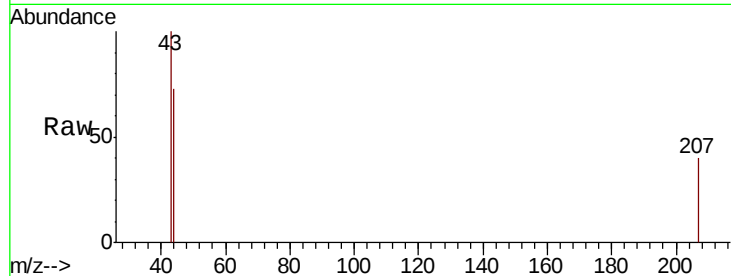




#18
Methyl Acetate
Concen: 0.758 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

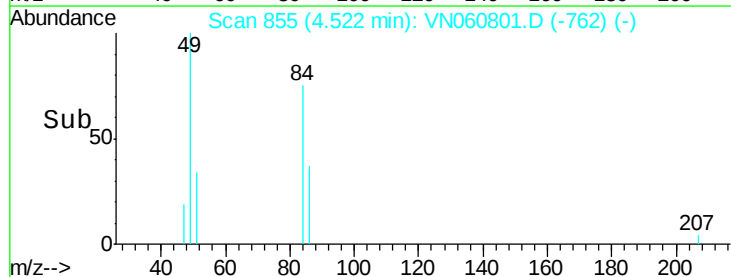
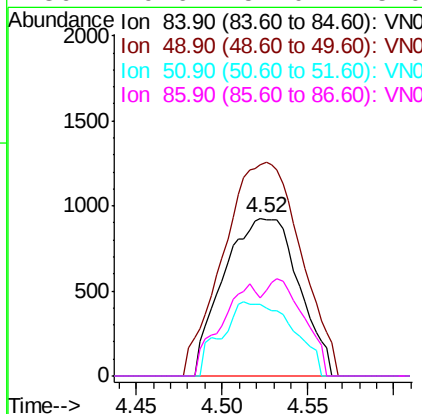
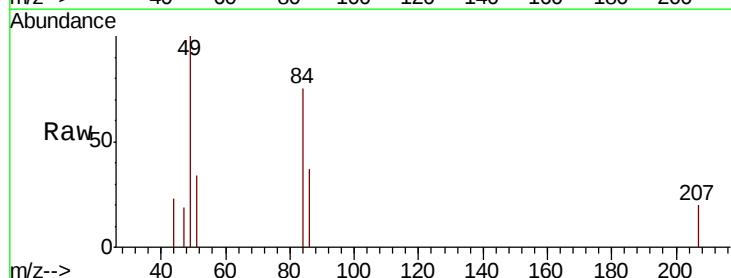
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2066
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.183 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

Tgt Ion: 84 Resp: 2816
Ion Ratio Lower Upper
84 100
49 133.8 103.3 154.9
51 45.5 31.6 47.4
86 49.6 52.0 78.0#





#25

2-Butanone

Concen: 1.001 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

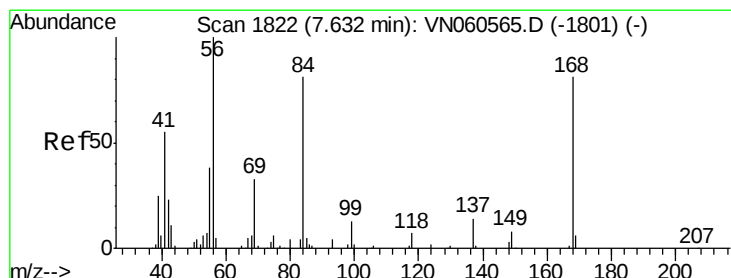
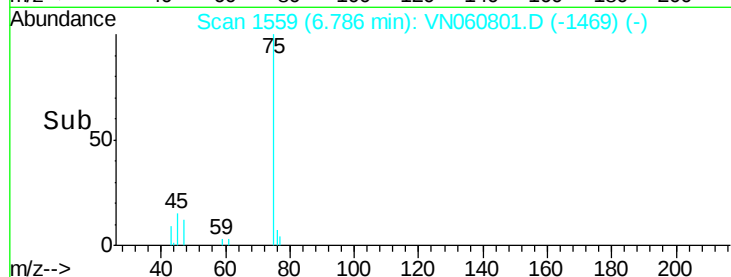
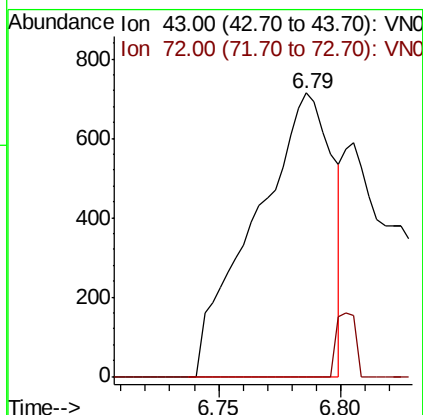
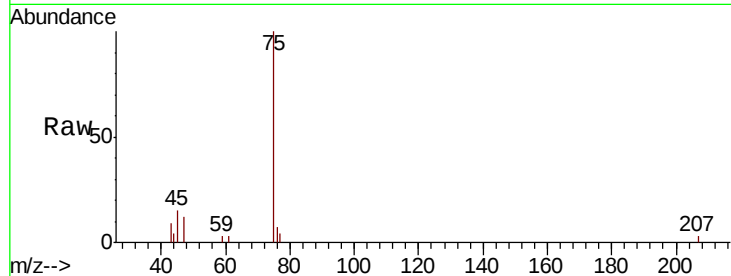
ClientSampleId :

Tot Ion: 43 Resp: 1568

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



#31

Cyclohexane

Concen: 0.927 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

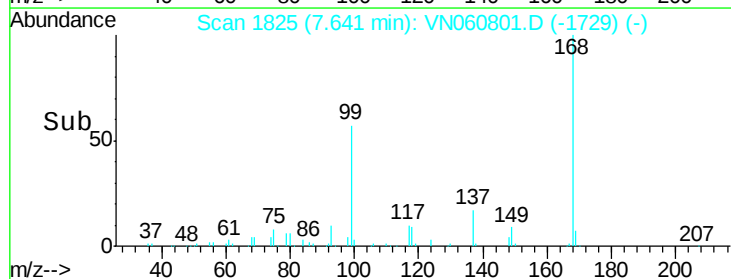
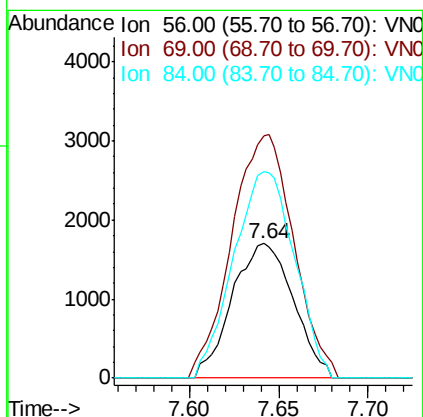
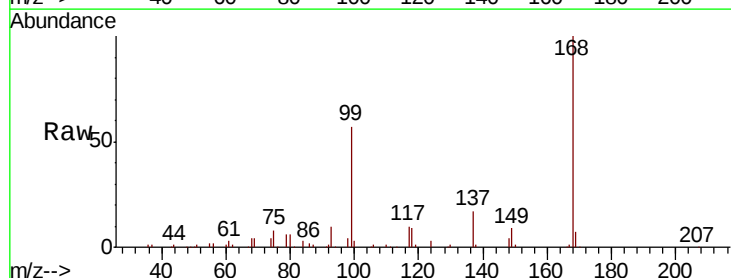
Tgt Ion: 56 Resp: 4077

Ion Ratio Lower Upper

56 100

69 180.8 26.6 40.0#

84 154.0 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 47.727 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

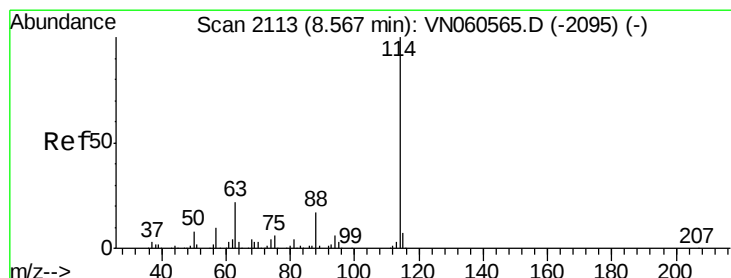
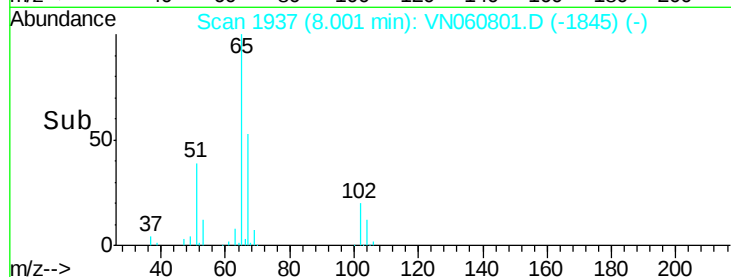
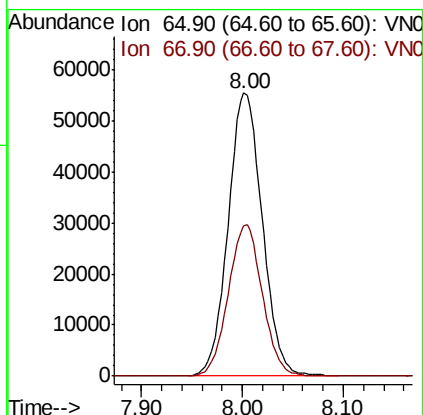
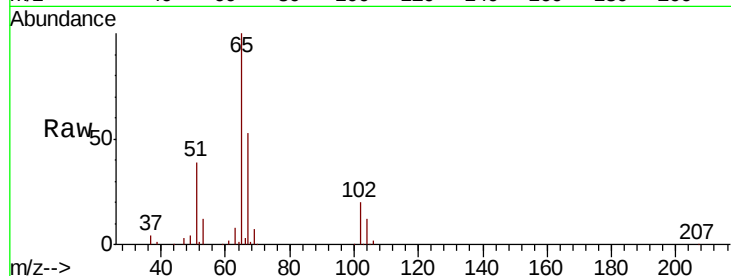
ClientSampleId :

Tot Ion: 65 Resp: 130393

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: VN060801.D

Acq: 31 Mar 2020 21:00

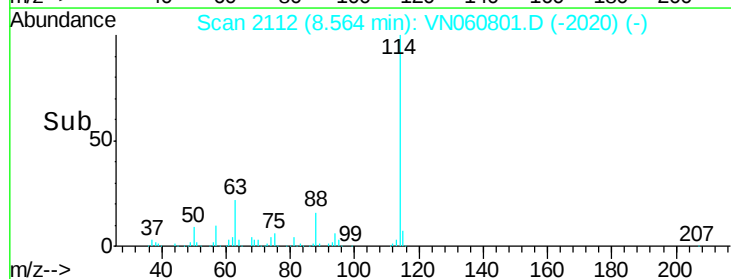
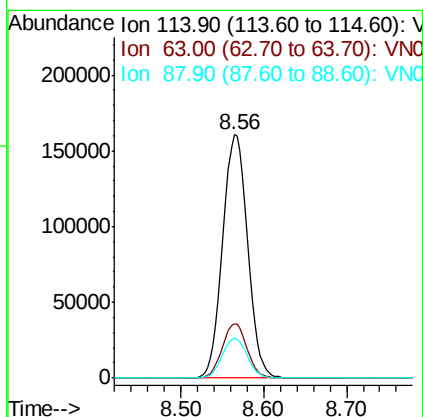
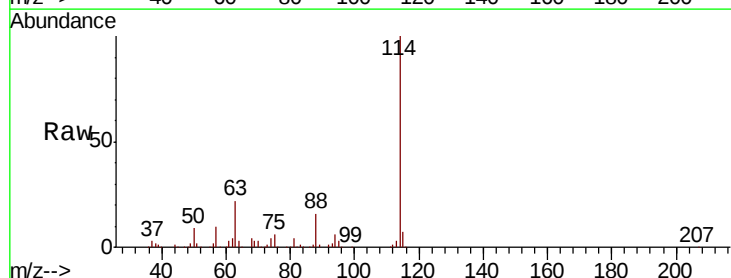
Tgt Ion: 114 Resp: 336684

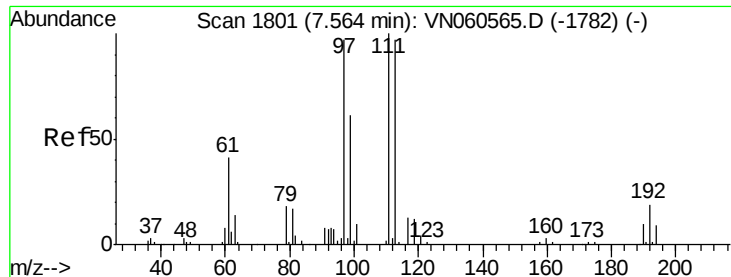
Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

88 16.4 0.0 33.0

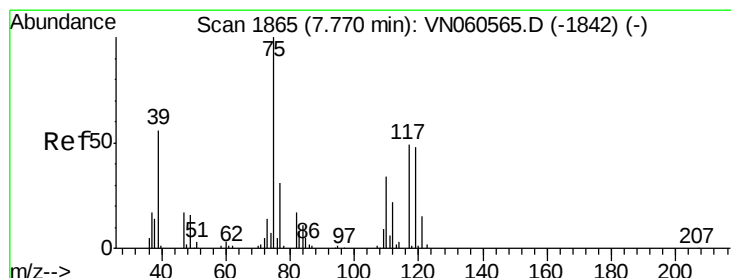
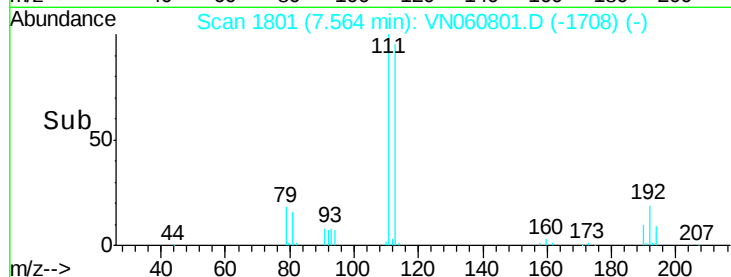
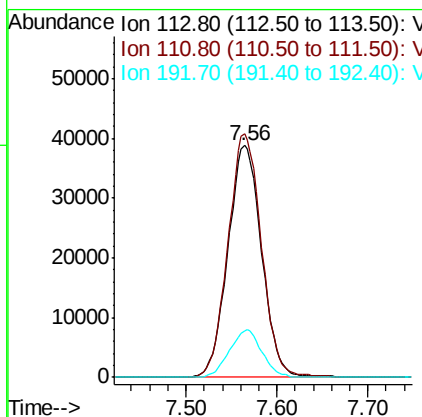
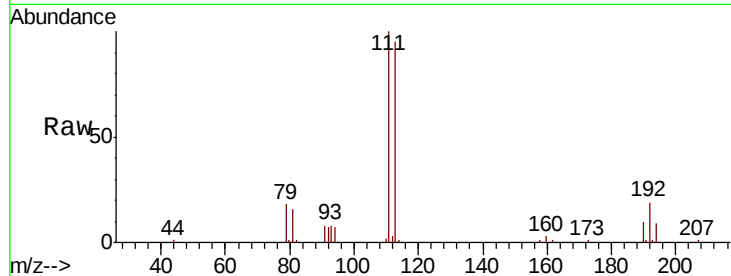




#35
 Dibromofluoromethane
 Concen: 48.943 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060801.D
 Acq: 31 Mar 2020 21:00

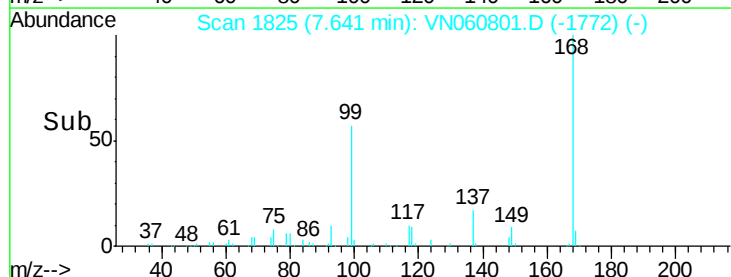
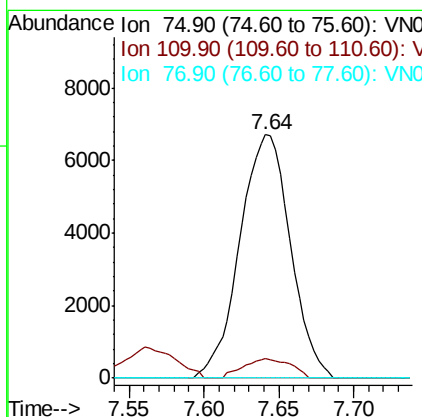
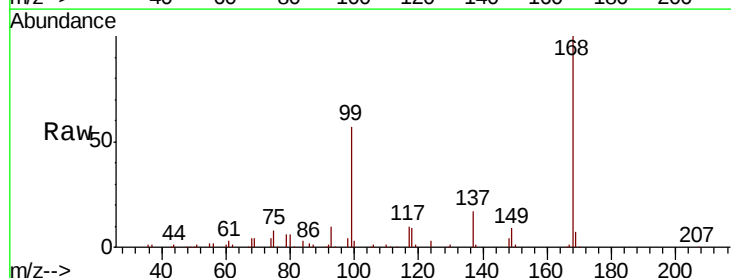
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 99640
 Ion Ratio Lower Upper
 113 100
 111 104.2 82.9 124.3
 192 19.8 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.831 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060801.D
 Acq: 31 Mar 2020 21:00

Tgt Ion: 75 Resp: 15751
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.9 50.6#
 77 0.0 24.6 36.8#

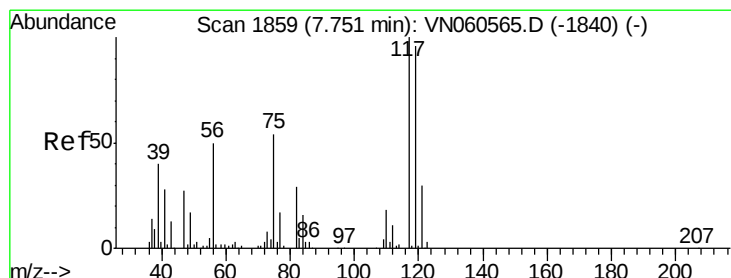
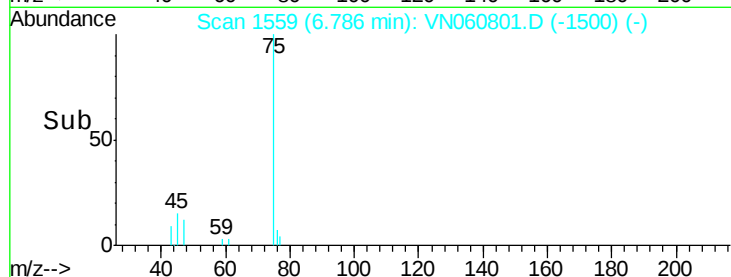
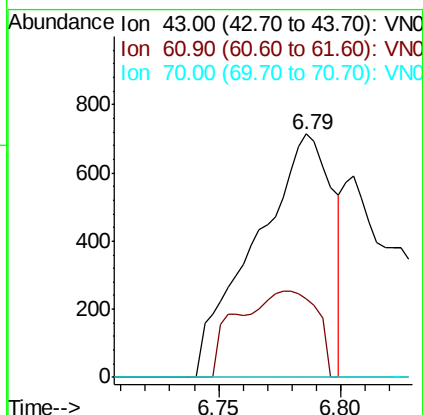
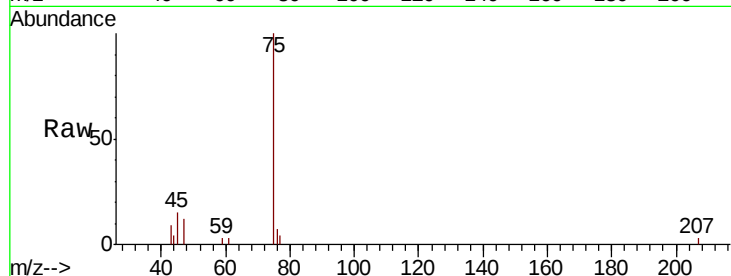




#37
Ethyl Acetate
Concen: 0.445 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.11 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

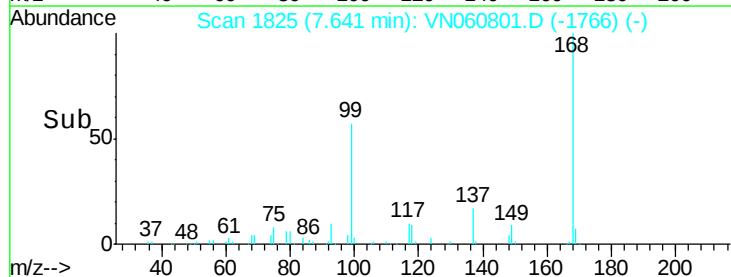
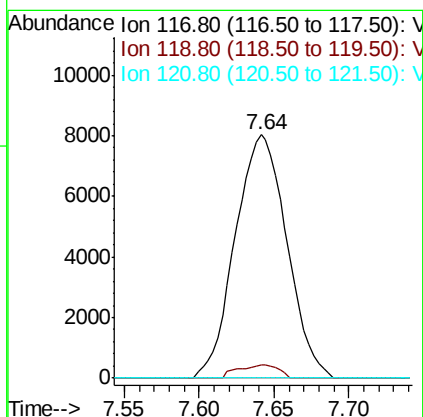
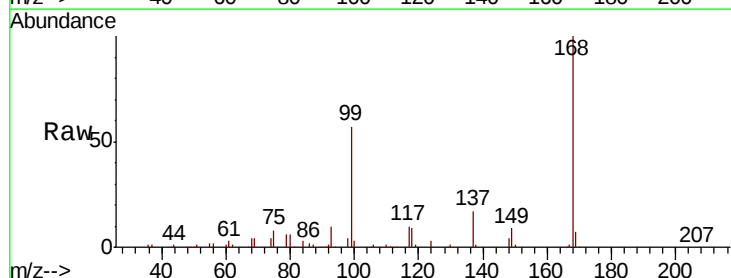
Instrument :
MSVOA_N
ClientSampled :

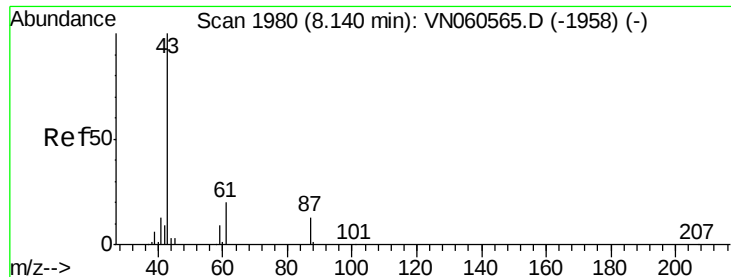
Tot Ion: 43 Resp: 1568
Ion Ratio Lower Upper
43 100
61 36.2 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.596 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

Tgt Ion: 117 Resp: 19274
Ion Ratio Lower Upper
117 100
119 5.6 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 11.298 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

ClientSampleId :

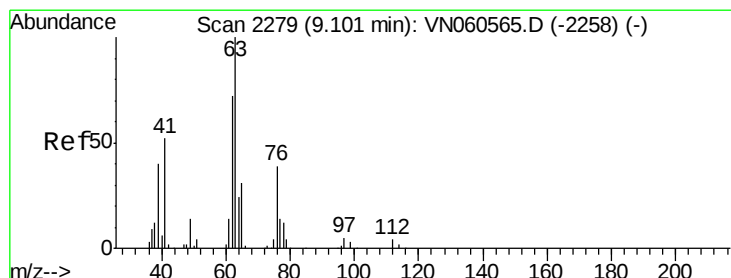
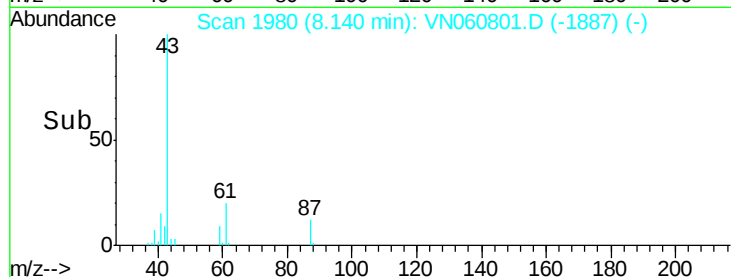
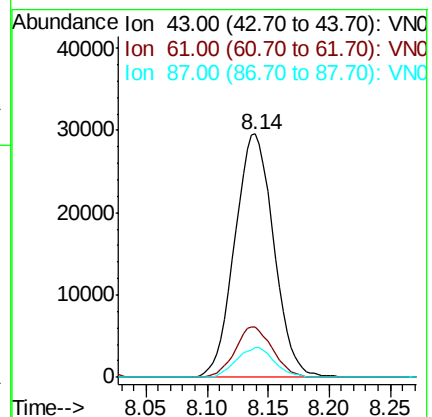
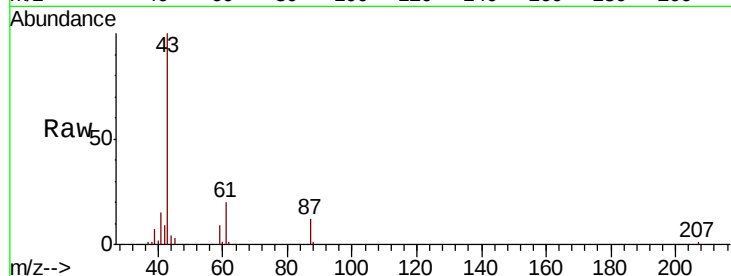
Tot Ion: 43 Resp: 65638

Ion Ratio Lower Upper

43 100

61 19.8 20.7 31.1#

87 11.8 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.482 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060801.D

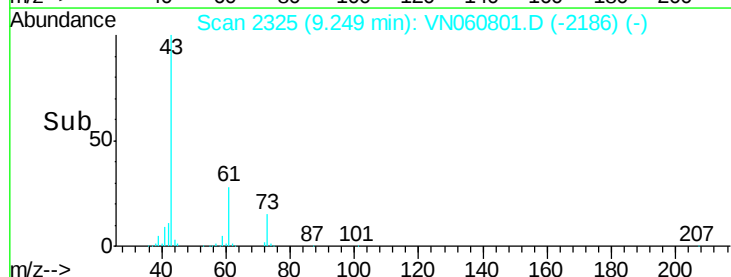
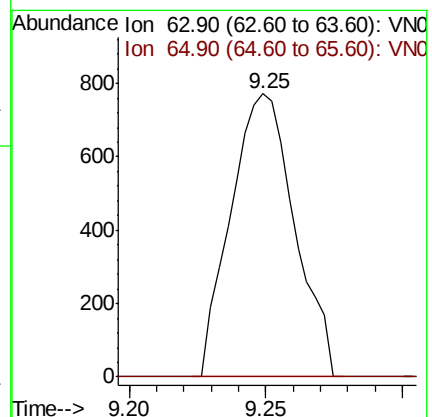
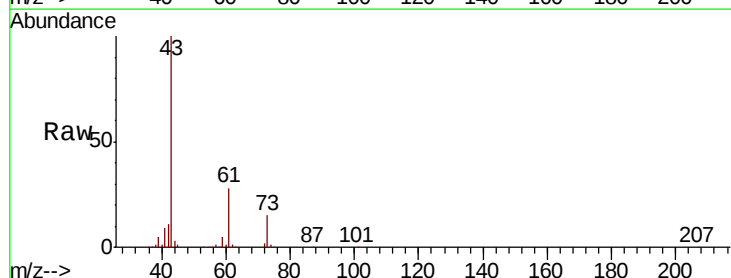
Acq: 31 Mar 2020 21:00

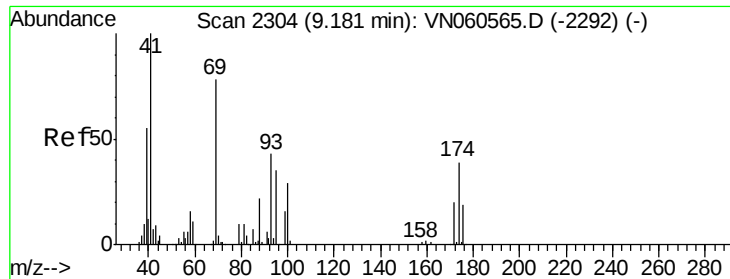
Tgt Ion: 63 Resp: 1252

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

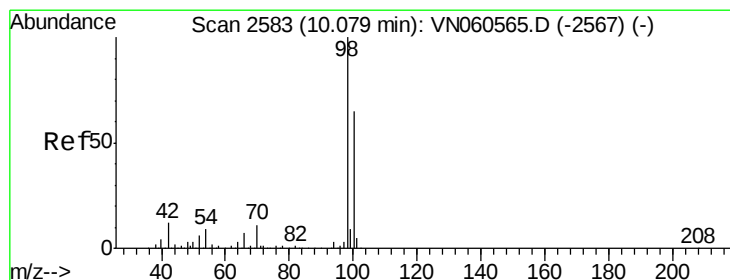
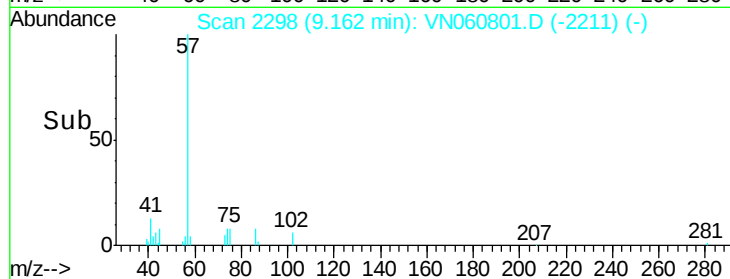
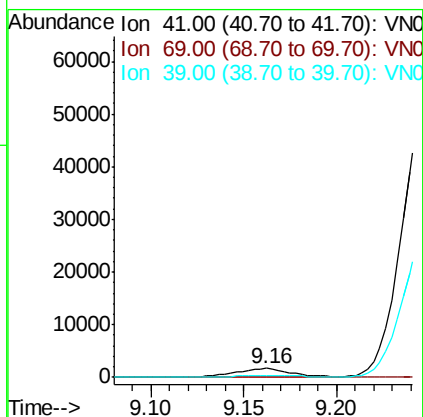
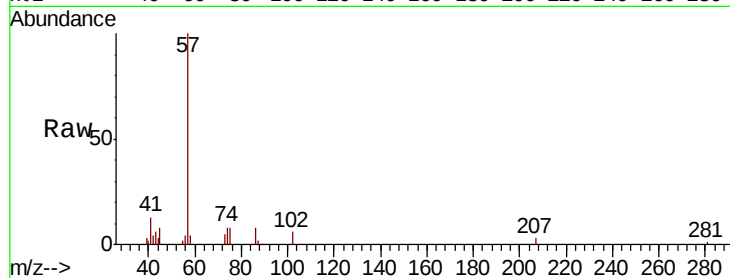




#48
Methyl methacrylate
Concen: 1.357 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

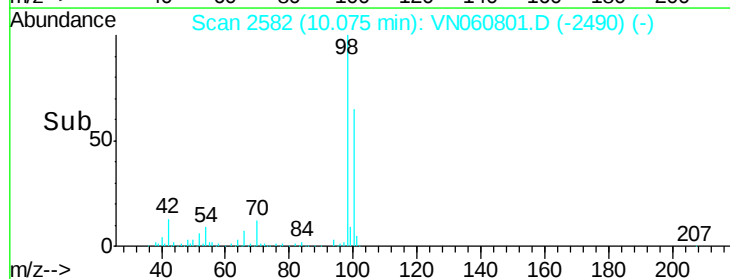
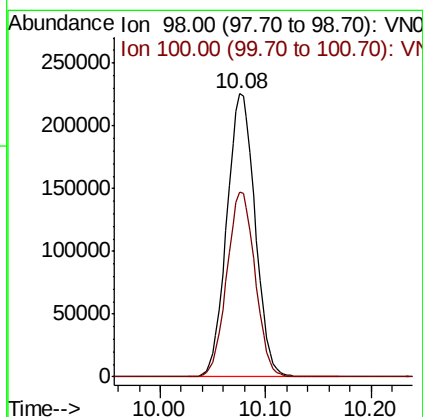
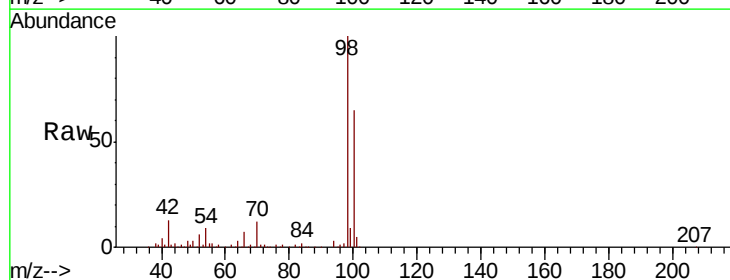
Instrument :
MSVOA_N
ClientSampled :

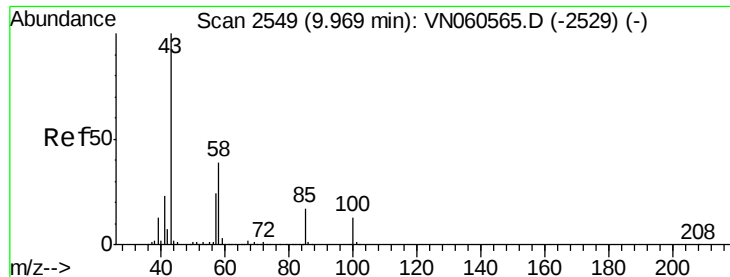
Tot Ion: 41 Resp: 3509
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.272 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

Tgt Ion: 98 Resp: 418040
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.558 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

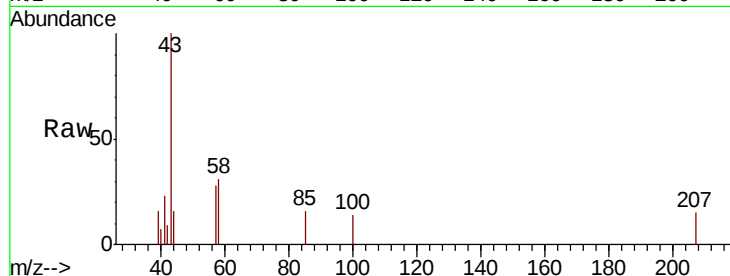
ClientSampled :

Tot Ion: 43 Resp: 5149

Ion Ratio Lower Upper

43 100

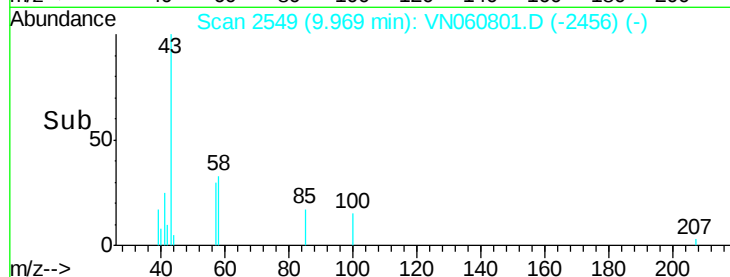
58 31.9 30.8 46.2



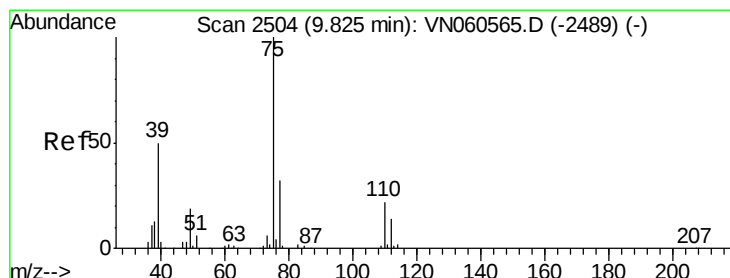
Abundance Ion 43.00 (42.70 to 43.70): VN060801.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060801.D (-2456) (-)

Time-->



Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.464 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

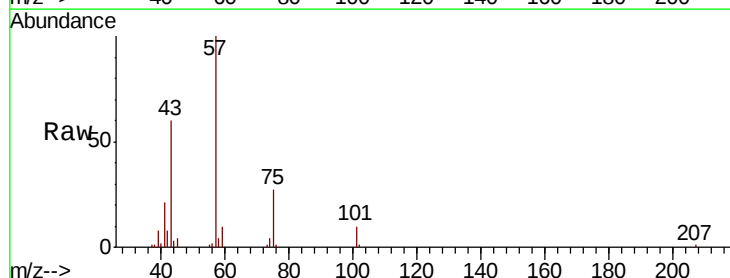
Tgt Ion: 75 Resp: 26576

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.0 40.2 60.4#

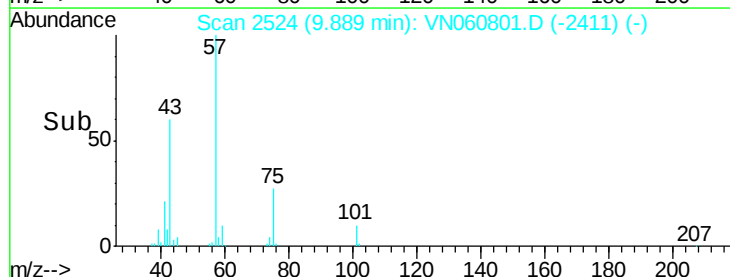


Abundance Ion 74.90 (74.60 to 75.60): VN060801.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060801.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060801.D (-2411) (-)

Time-->



Time-->



#57

1,3-Dichloropropane

Concen: 1.067 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

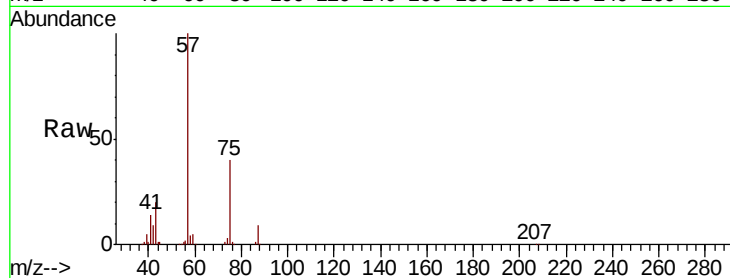
ClientSampleId :

Tot Ion: 76 Resp: 4232

Ion Ratio Lower Upper

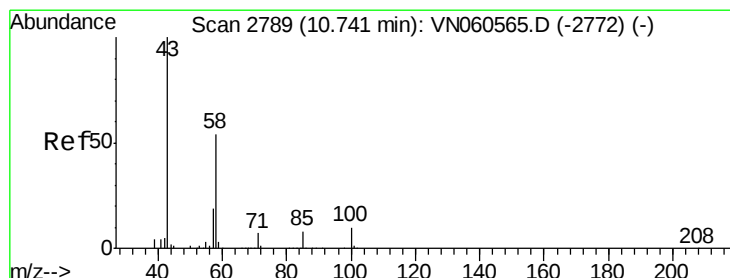
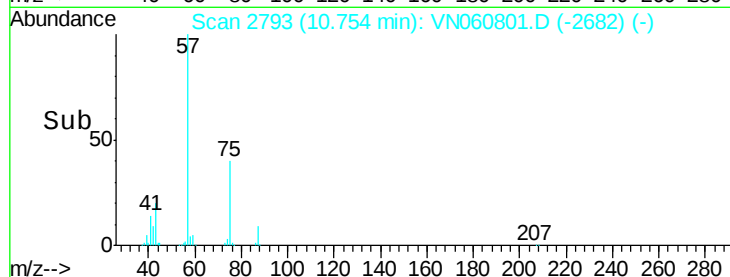
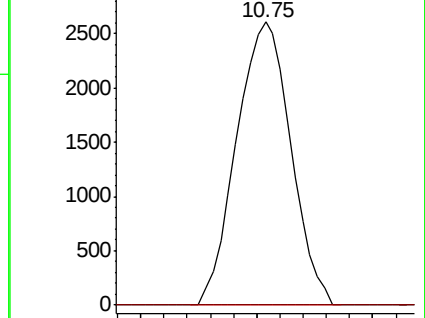
76 100

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: 27.969 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060801.D

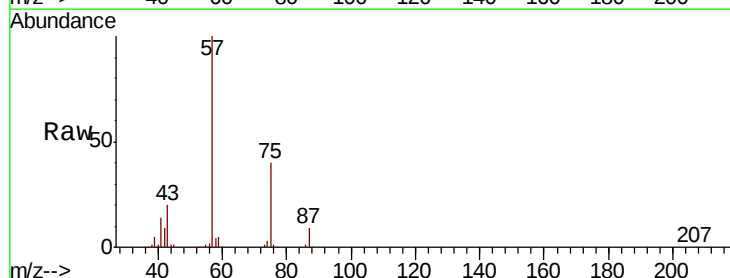
Acq: 31 Mar 2020 21:00

Tgt Ion: 43 Resp: 66606

Ion Ratio Lower Upper

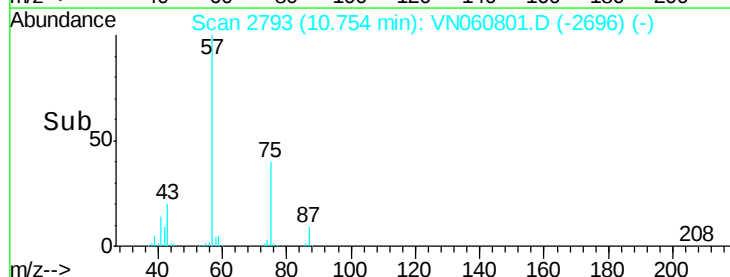
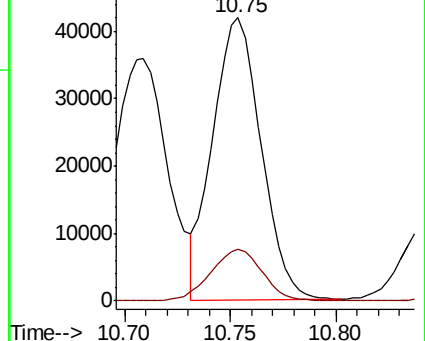
43 100

58 19.4 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.916 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

ClientSampleId :

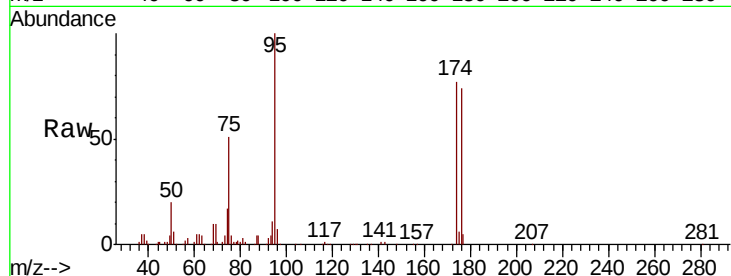
Tot Ion: 95 Resp: 158215

Ion Ratio Lower Upper

95 100

174 78.3 0.0 157.6

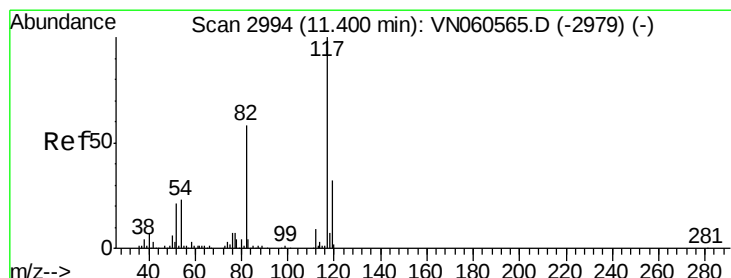
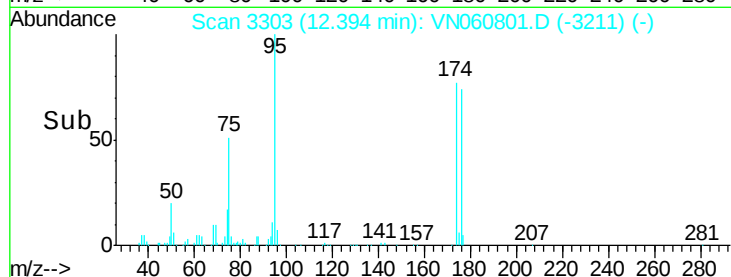
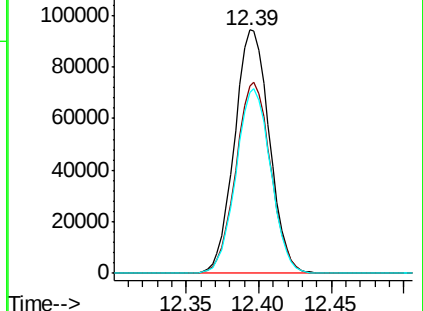
176 75.4 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060801.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060801.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060801.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

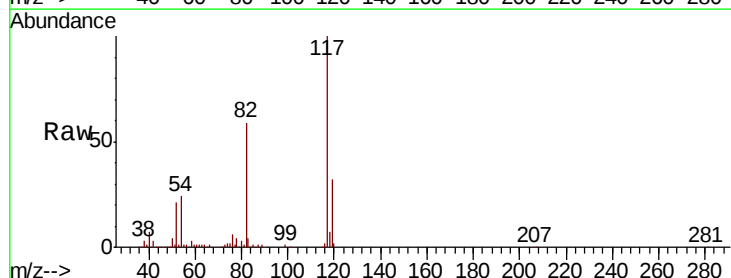
Tgt Ion: 117 Resp: 318176

Ion Ratio Lower Upper

117 100

82 58.7 46.7 70.1

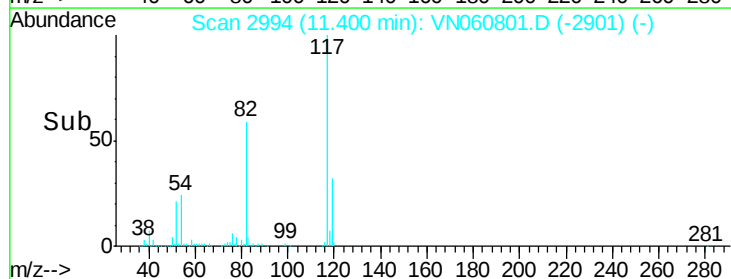
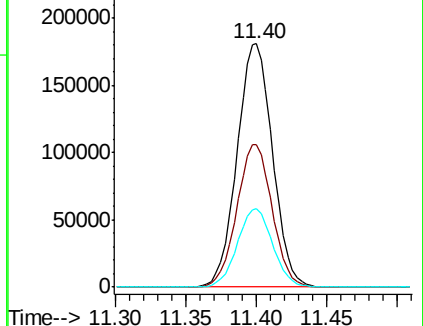
119 32.0 25.5 38.3

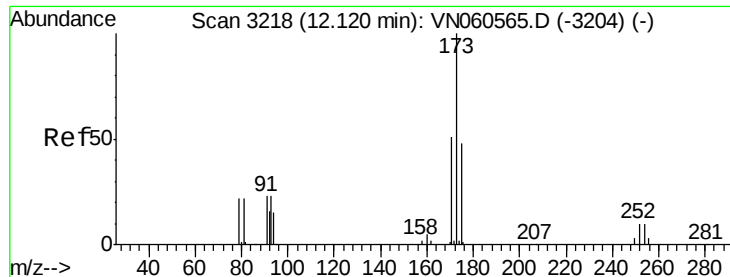


Abundance Ion 116.90 (116.60 to 117.60): VN060801.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060801.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060801.D (-2901) (-)

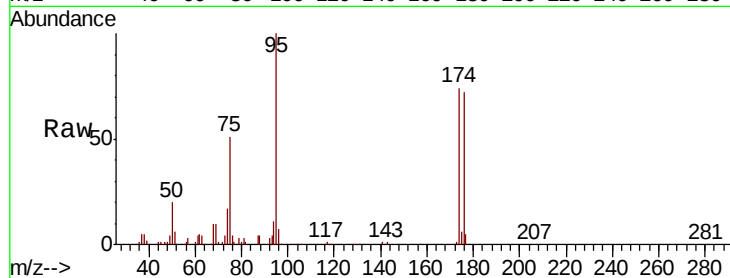




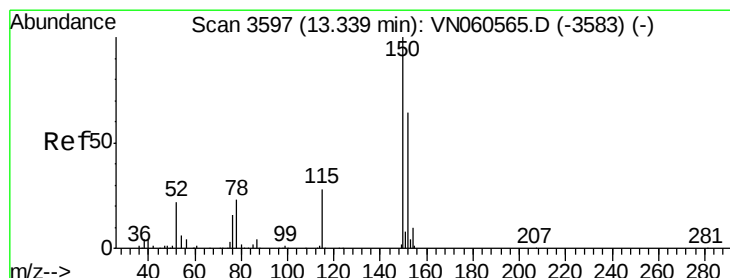
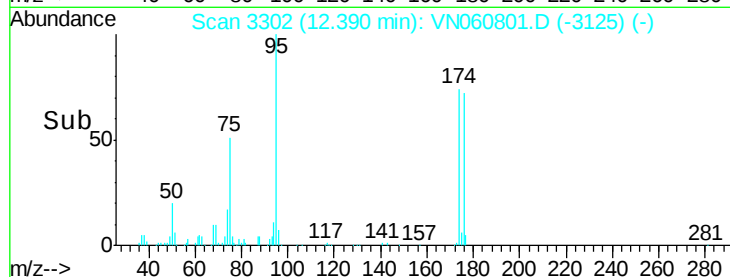
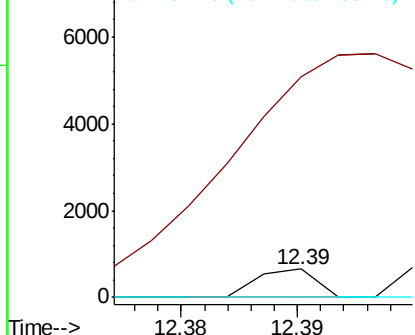
#71
Bromoform
Concen: 1.799 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.27 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 232
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0

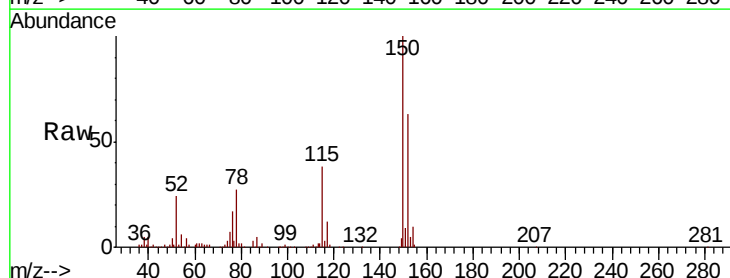


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

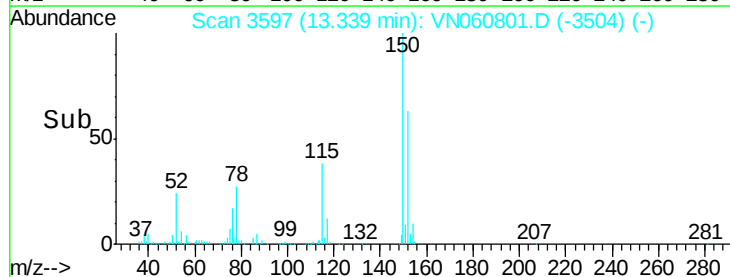
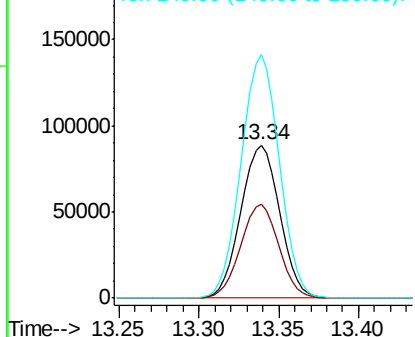


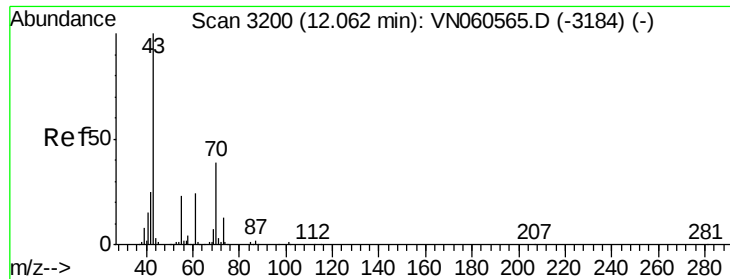
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060801.D
Acq: 31 Mar 2020 21:00

Tgt Ion:152 Resp: 147029
Ion Ratio Lower Upper
152 100
115 60.0 30.2 90.6
150 156.9 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-amyl acetate

Concen: 0.675 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3440

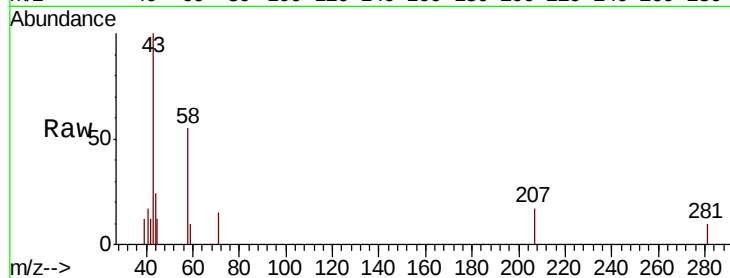
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

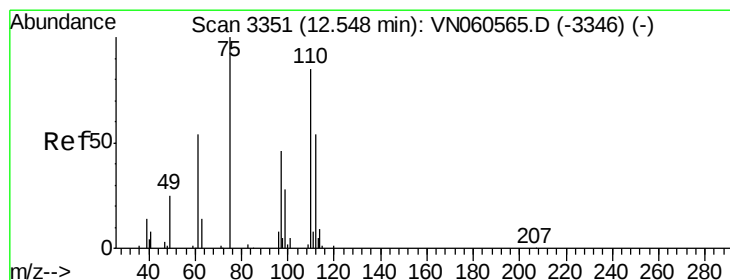
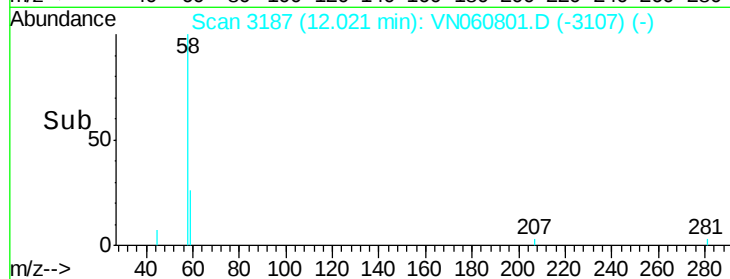
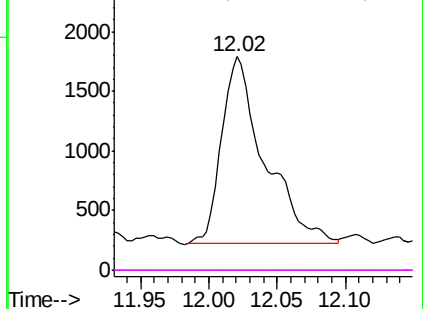


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.322 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060801.D

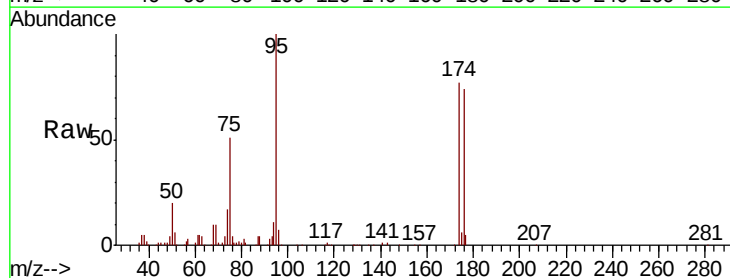
Acq: 31 Mar 2020 21:00

Tgt Ion: 75 Resp: 80336

Ion Ratio Lower Upper

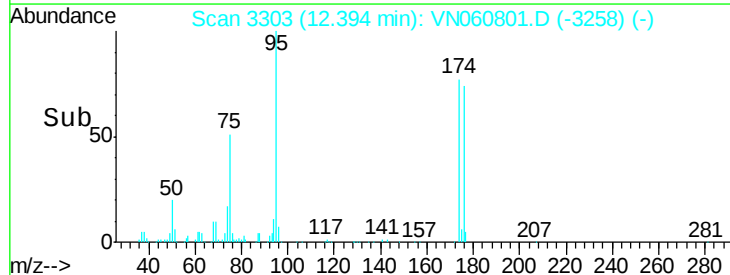
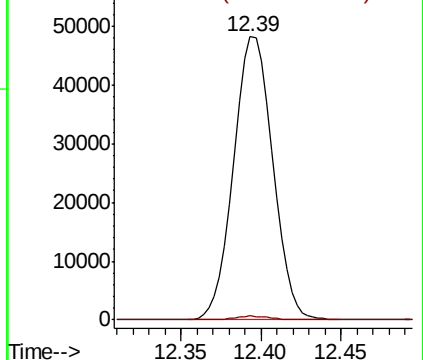
75 100

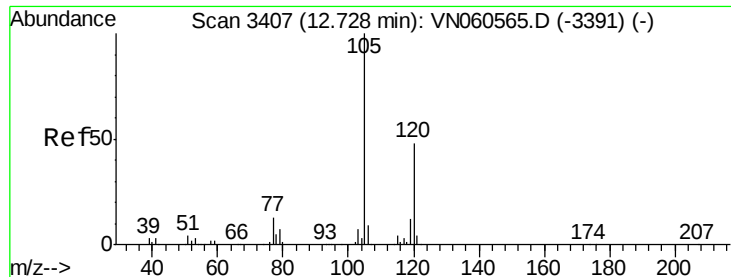
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.397 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

Instrument :

MSVOA_N

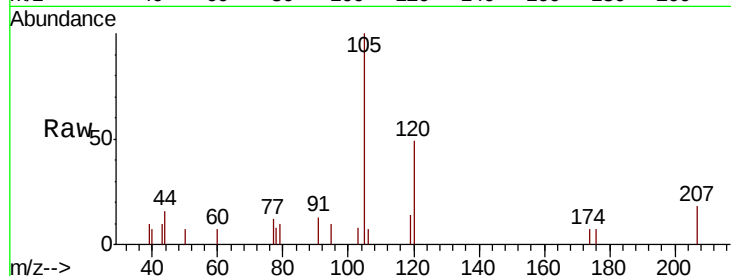
ClientSampled :

Tot Ion:105 Resp: 3718

Ion Ratio Lower Upper

105 100

120 46.3 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2500

2000

1500

1000

500

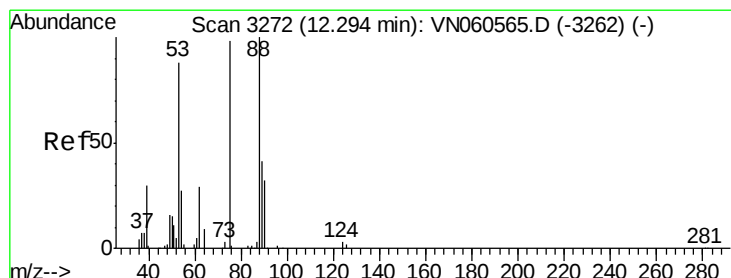
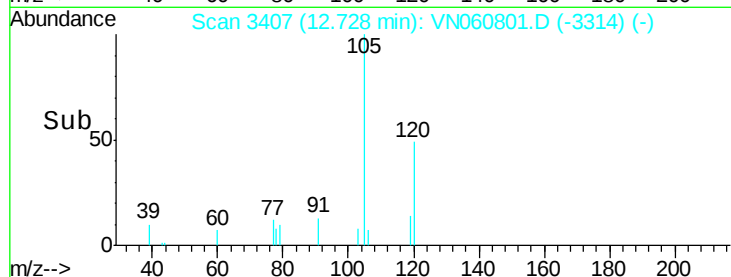
0

12.70

12.73

12.75

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.034 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060801.D

Acq: 31 Mar 2020 21:00

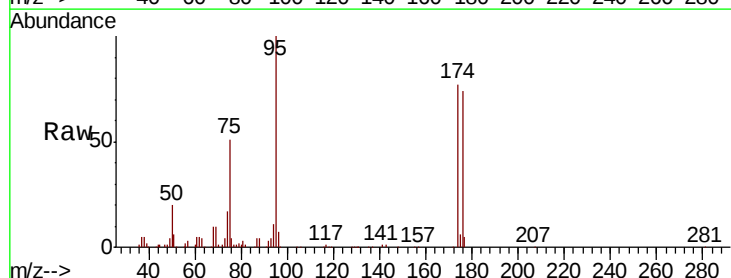
Tgt Ion: 75 Resp: 80336

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): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V

60000

50000

40000

30000

20000

10000

0

12.35

12.40

12.45

Time-->

