

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060796.D
 Acq On : 31 Mar 2020 19:07
 Operator : JC/MD
 Sample : PB127897ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:25:20 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	187464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	313548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	292541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	133888	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	122526	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
35) Dibromofluoromethane	7.56	113	92964	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
50) Toluene-d8	10.08	98	388375	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	12.40	95	145381	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	

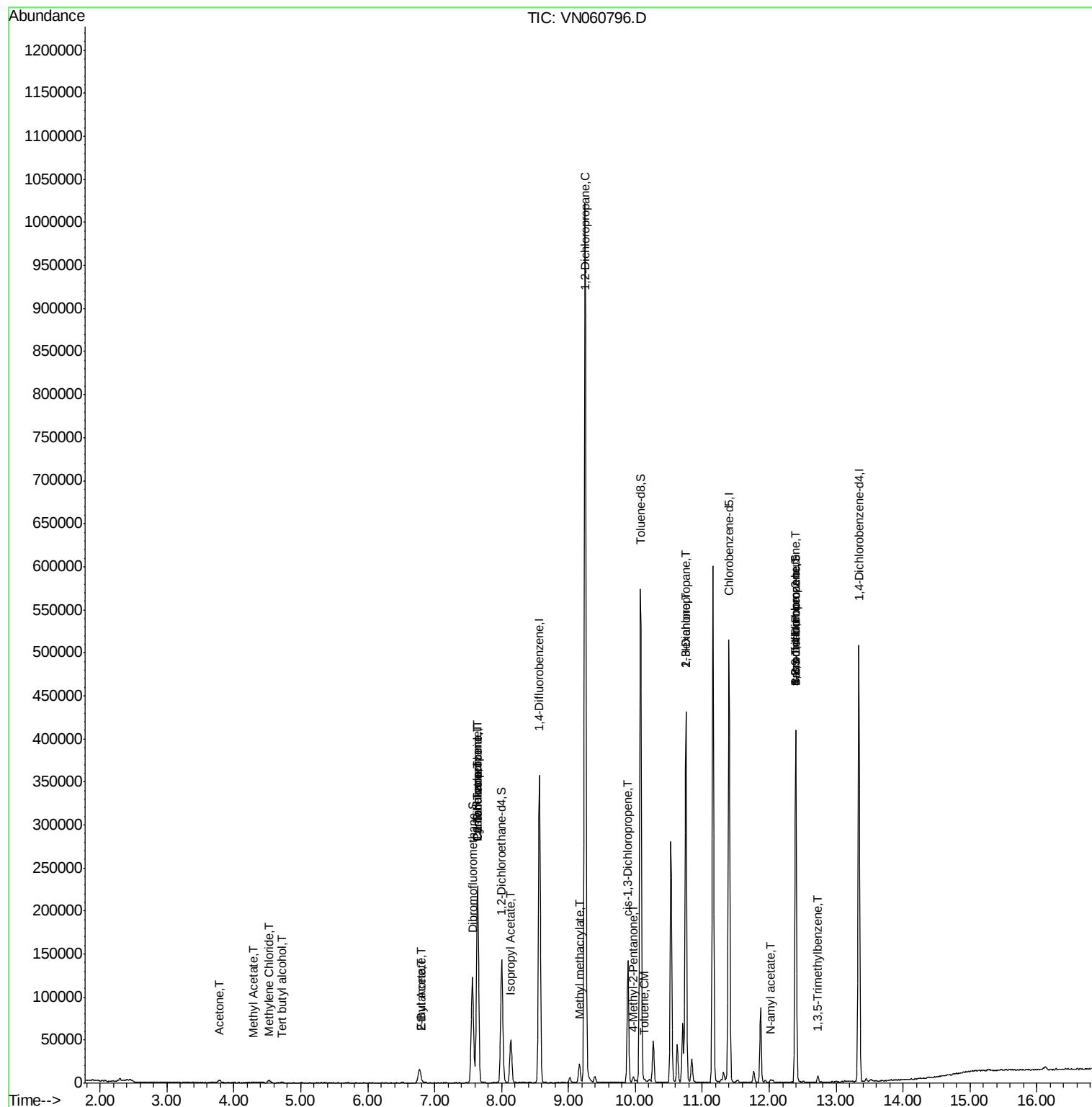
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	231	0.610	ug/l #	72
16) Acetone	3.78	43	6166	6.764	ug/l	98
18) Methyl Acetate	4.29	43	2036	0.794	ug/l #	54
20) Methylene Chloride	4.53	84	1986	0.886	ug/l	88
25) 2-Butanone	6.81	43	3170	2.149	ug/l #	88
31) Cyclohexane	7.64	56	4173	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14730	4.852	ug/l #	50
37) Ethyl Acetate	6.81	43	3170	0.966	ug/l #	70
38) Carbon Tetrachloride	7.64	117	17802	6.542	ug/l #	16
43) Isopropyl Acetate	8.14	43	60343	11.153	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1202	0.497	ug/l #	43
48) Methyl methacrylate	9.16	41	3053	1.267	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5130	1.666	ug/l #	85
52) Toluene	10.14	92	1423	0.257	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	24813	6.481	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4163	1.127	ug/l #	42
59) 2-Hexanone	10.75	43	63705	28.725	ug/l #	52
71) Bromoform	12.40	173	631	2.030	ug/l #	1
74) N-amyl acetate	12.02	43	3089	0.665	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	72695	25.162	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4519	0.530	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	72695	64.625	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: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

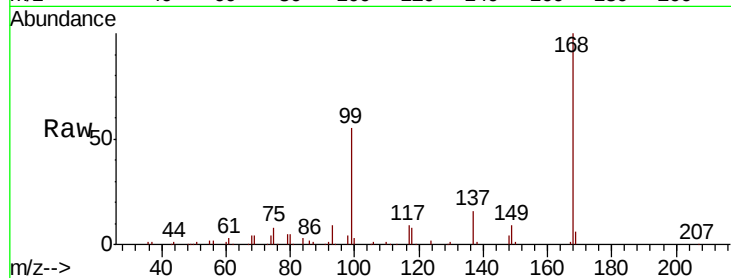
ClientSampleId :

Tot Ion:168 Resp: 187464

Ion Ratio Lower Upper

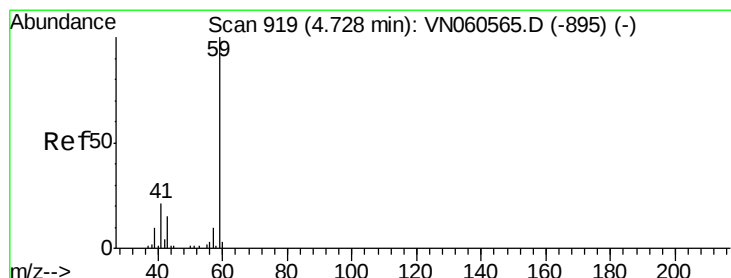
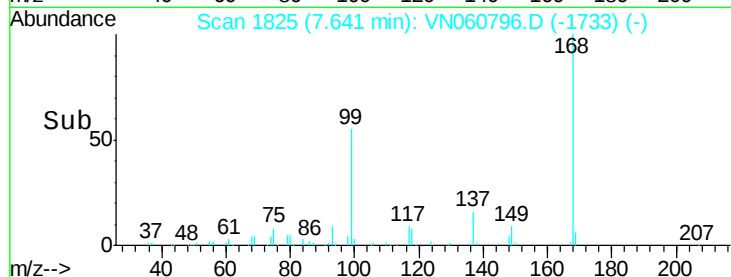
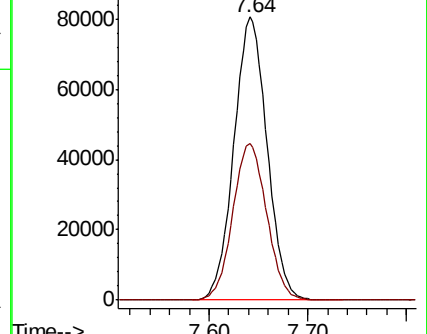
168 100

99 55.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.610 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060796.D

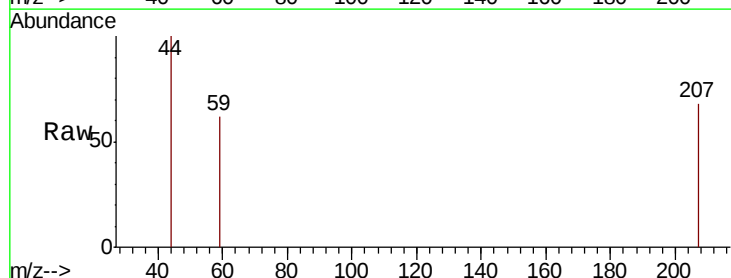
Acq: 31 Mar 2020 19:07

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

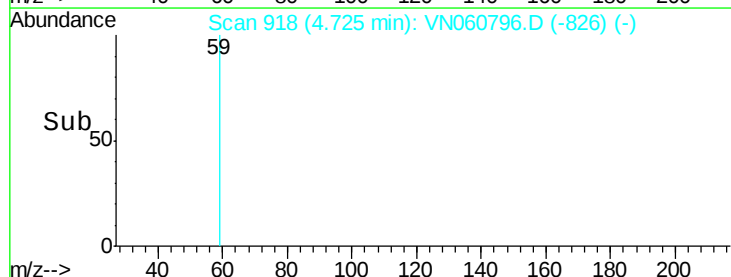
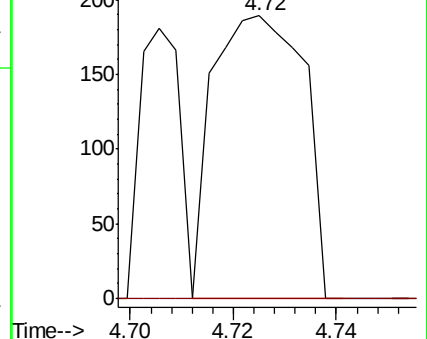
59 100

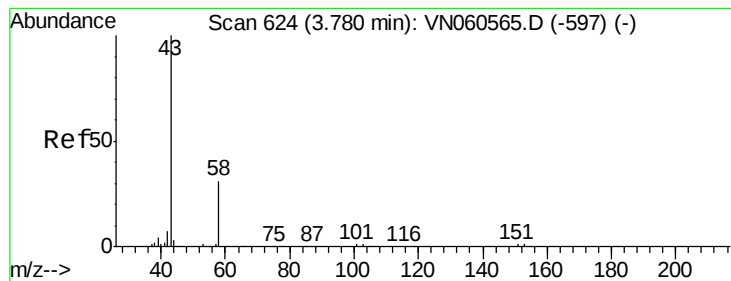
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 6.764 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

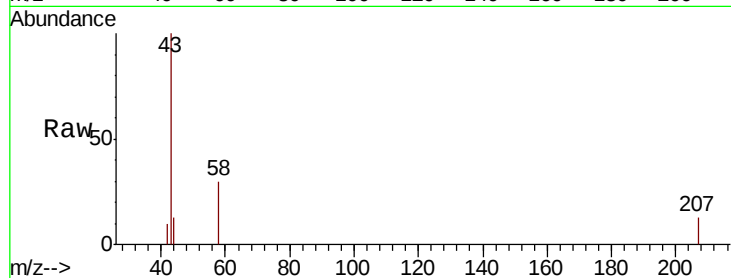
ClientSampleId :

Tot Ion: 43 Resp: 6166

Ion Ratio Lower Upper

43 100

58 30.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060796.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060796.D (-531) (-)

2500

2000

1500

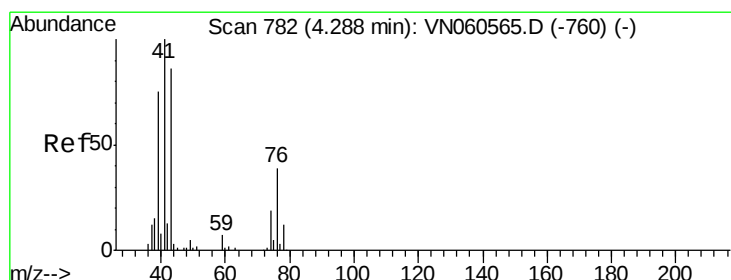
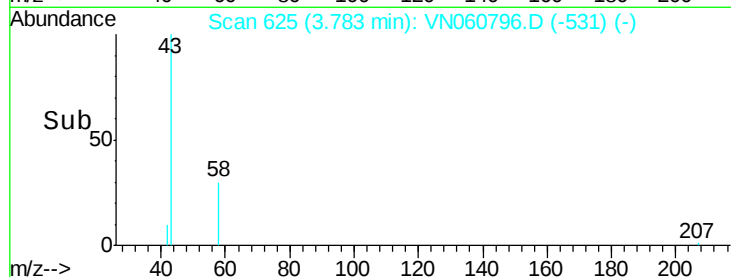
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#18

Methyl Acetate

Concen: 0.794 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060796.D

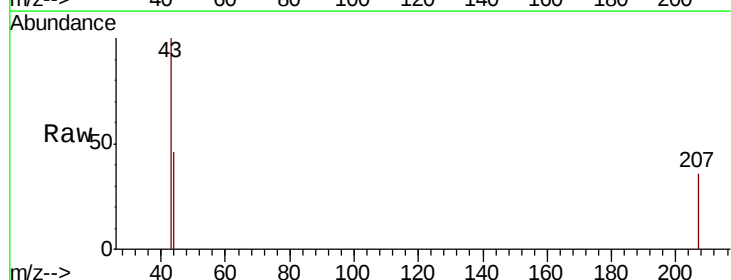
Acq: 31 Mar 2020 19:07

Tgt Ion: 43 Resp: 2036

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060796.D (-689) (-)

Ion 74.00 (73.70 to 74.70): VN060796.D (-689) (-)

800

600

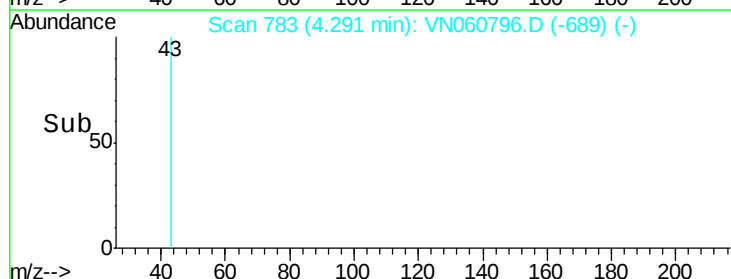
400

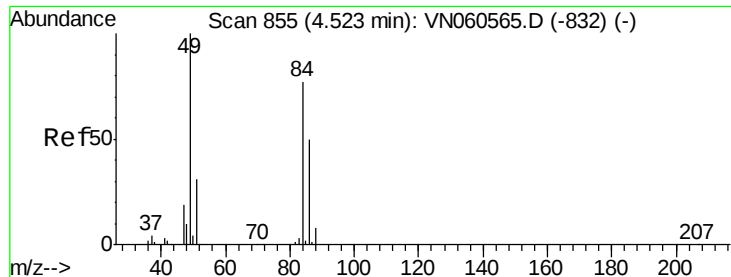
200

0

4.25 4.30 4.35

Time-->

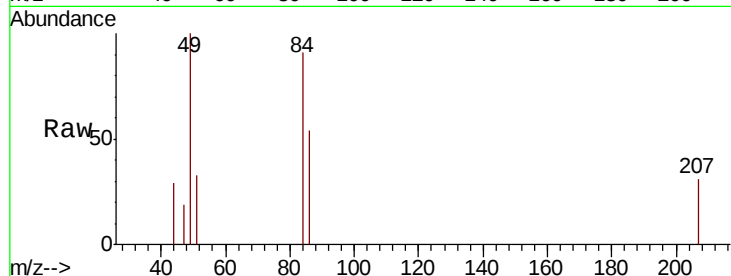




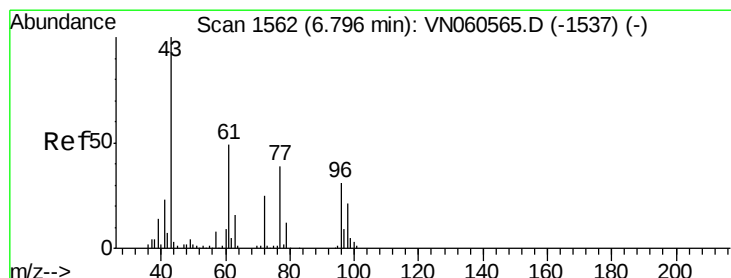
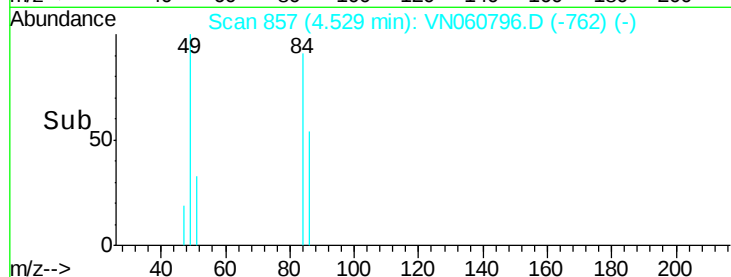
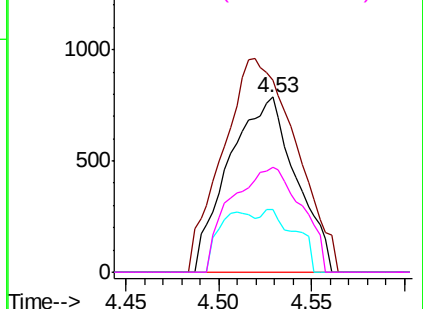
#20
Methvlene Chloride
Concen: 0.886 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060796.D
Acq: 31 Mar 2020 19:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1986
Ion Ratio Lower Upper
84 100
49 110.1 103.3 154.9
51 36.1 31.6 47.4
86 59.8 52.0 78.0

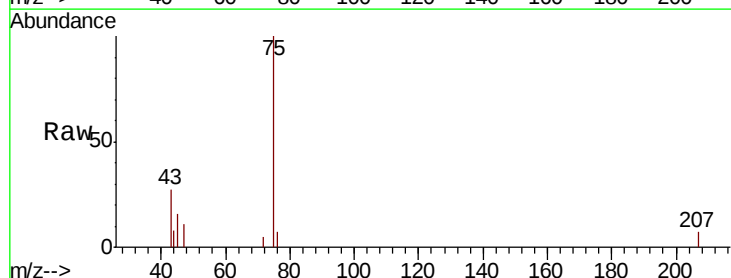


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

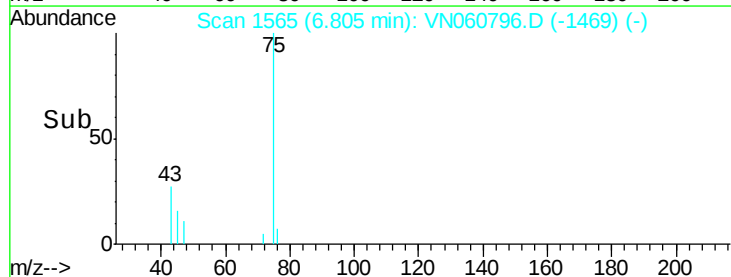
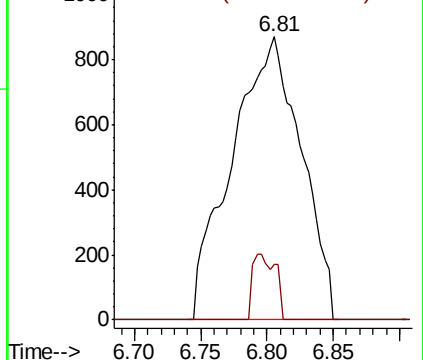


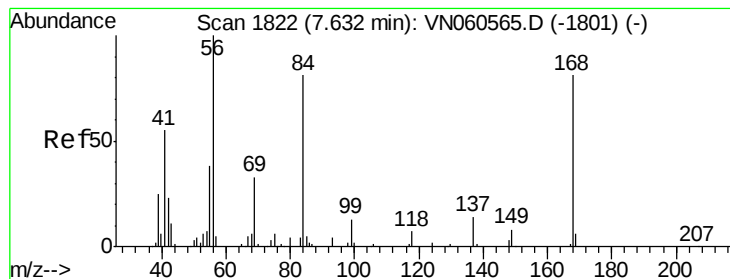
#25
2-Butanone
Concen: 2.149 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060796.D
Acq: 31 Mar 2020 19:07

Tgt Ion: 43 Resp: 3170
Ion Ratio Lower Upper
43 100
72 19.5 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: 1.007 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :
MSVOA_N
ClientSampled :

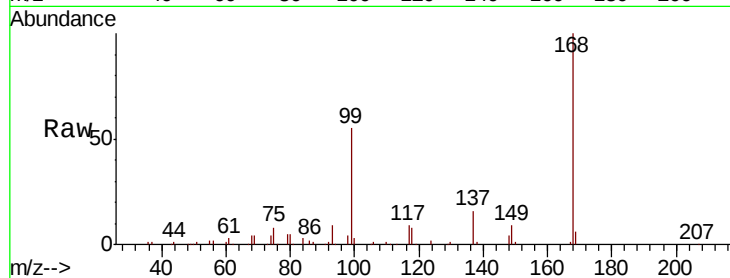
Tot Ion: 56 Resp: 4173

Ion Ratio Lower Upper

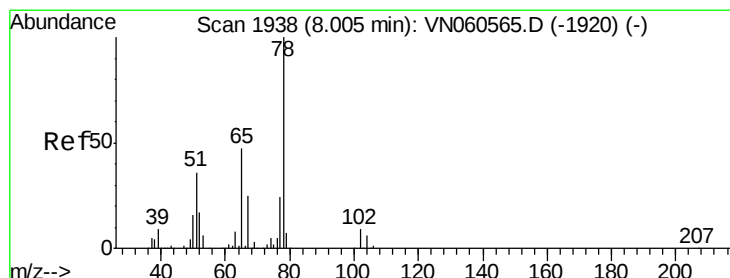
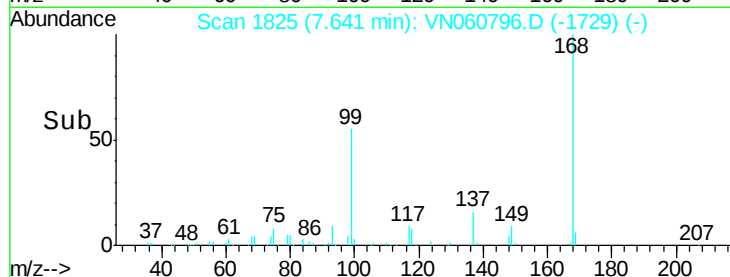
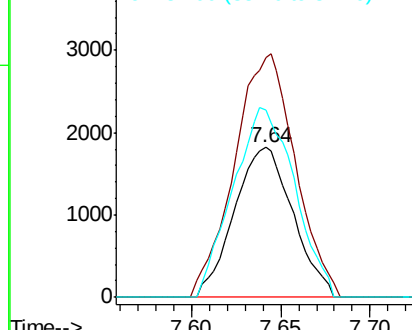
56 100

69 160.3 26.6 40.0#

84 125.3 64.3 96.5#



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



#33

1,2-Dichloroethane-d4

Concen: 47.612 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060796.D

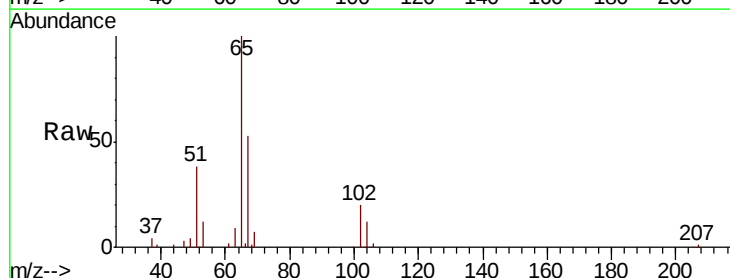
Acq: 31 Mar 2020 19:07

Tgt Ion: 65 Resp: 122526

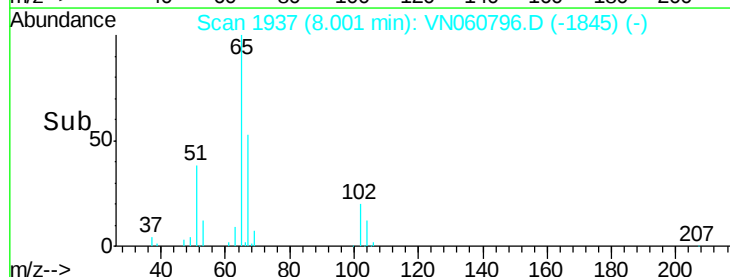
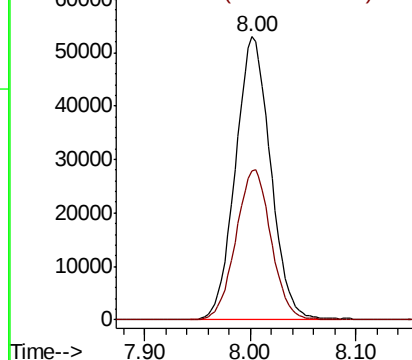
Ion Ratio Lower Upper

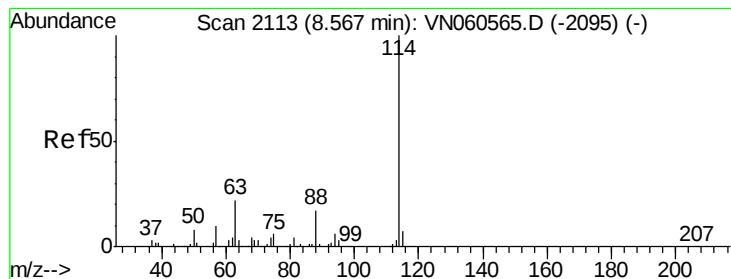
65 100

67 53.1 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: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

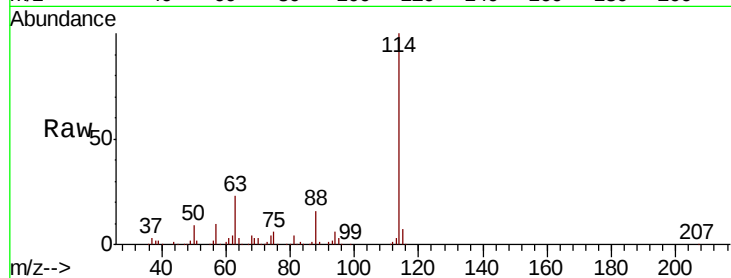
Tot Ion:114 Resp: 313548

Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.8

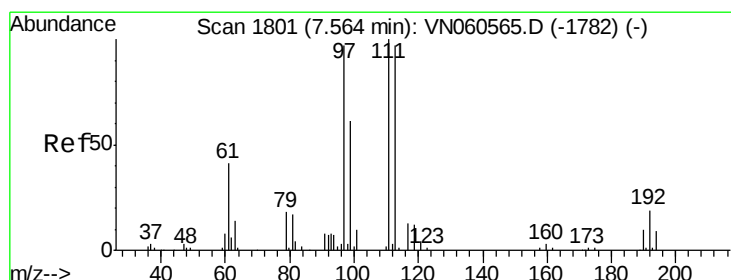
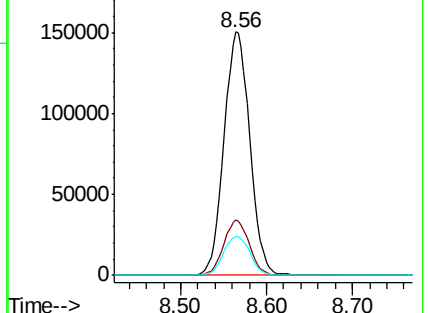
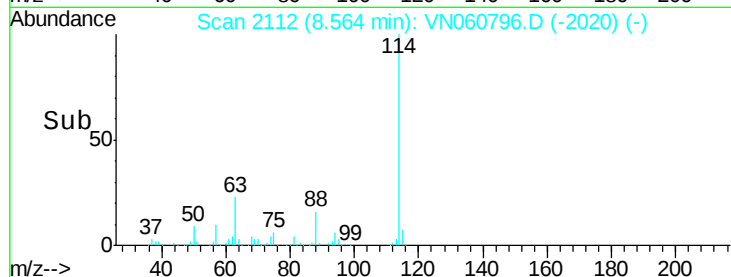
88 16.2 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.034 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

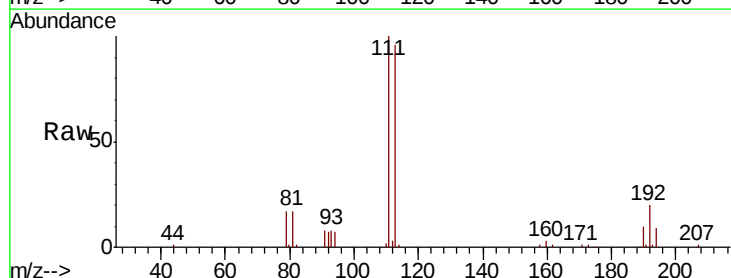
Tgt Ion:113 Resp: 92964

Ion Ratio Lower Upper

113 100

111 103.8 82.9 124.3

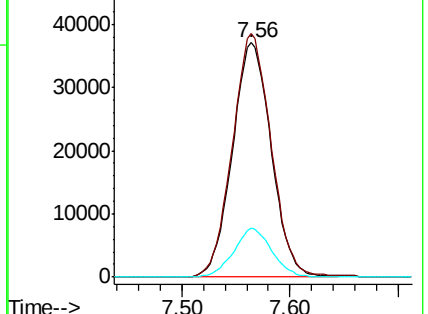
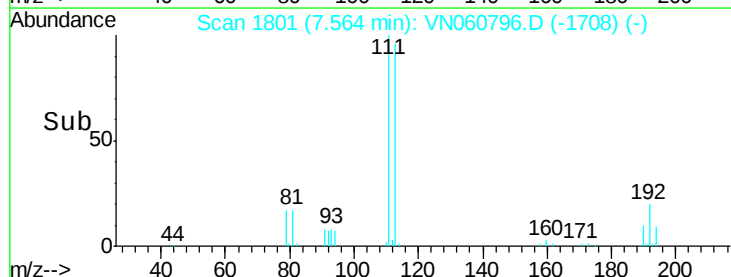
192 20.4 15.8 23.8

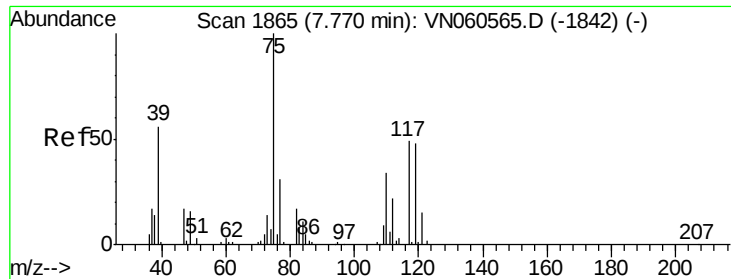


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

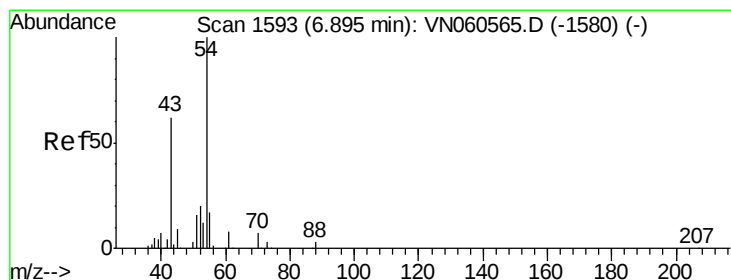
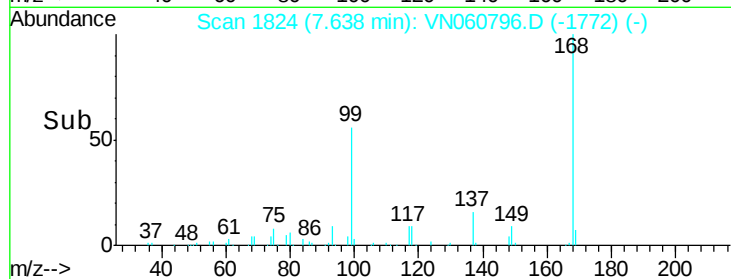
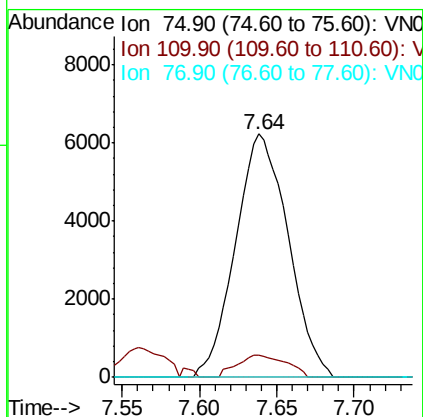
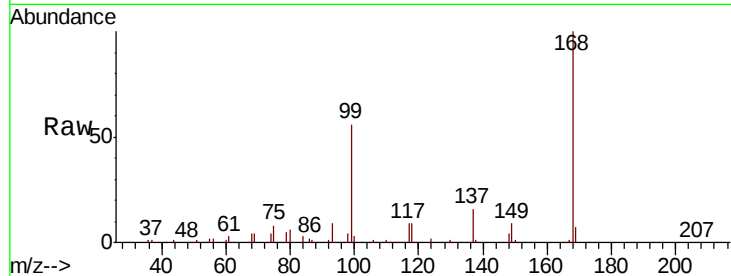




#36
 1,1-Dichloropropene
 Concen: 4.852 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060796.D
 Acq: 31 Mar 2020 19:07

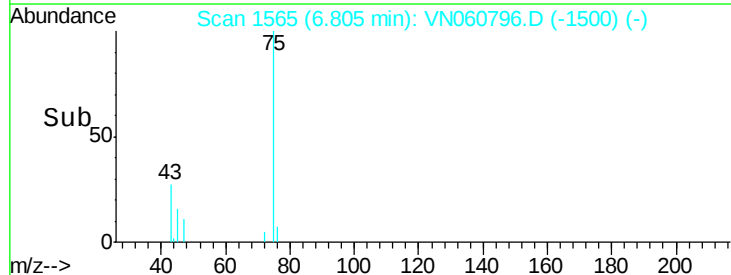
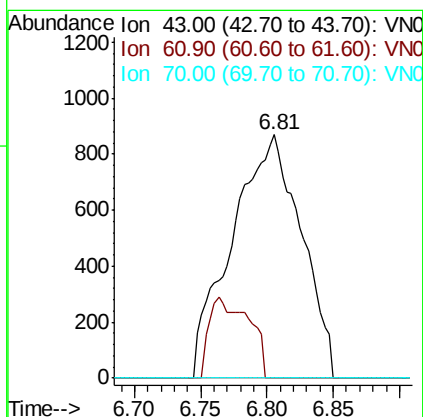
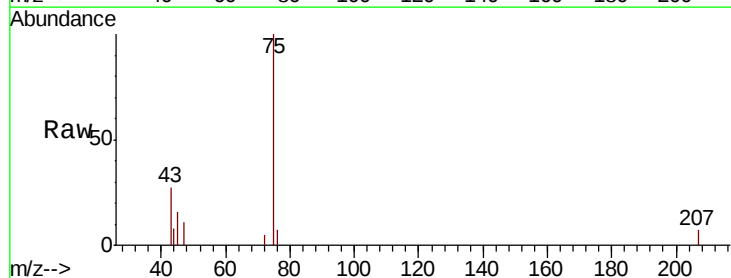
Instrument :
 MSVOA_N
 ClientSampled :

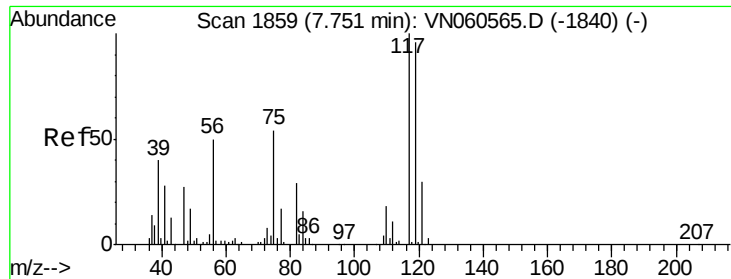
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.966 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.09 min
 Lab File: VN060796.D
 Acq: 31 Mar 2020 19:07

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: 6.542 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

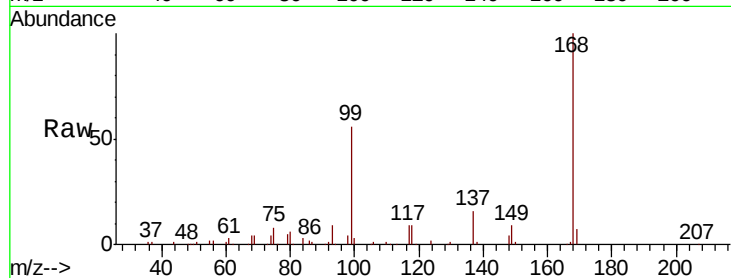
Tot Ion:117 Resp: 17802

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

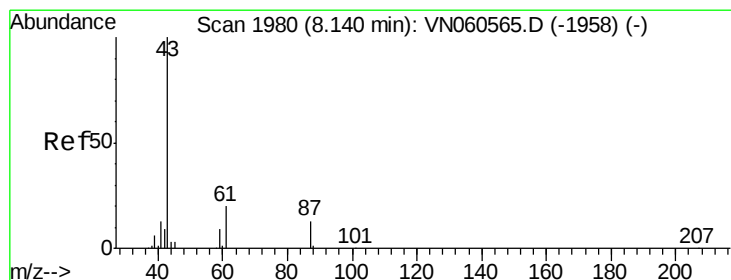
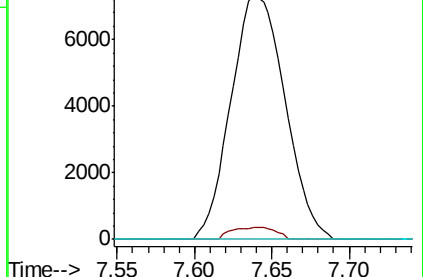
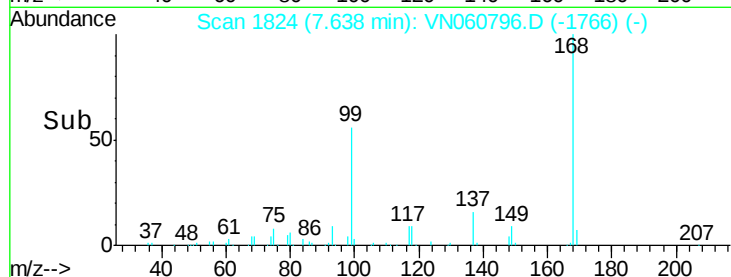
121 0.0 23.7 35.5#



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: 11.153 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

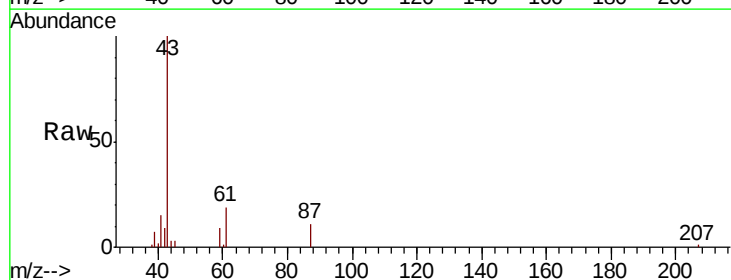
Tgt Ion: 43 Resp: 60343

Ion Ratio Lower Upper

43 100

61 19.4 20.7 31.1#

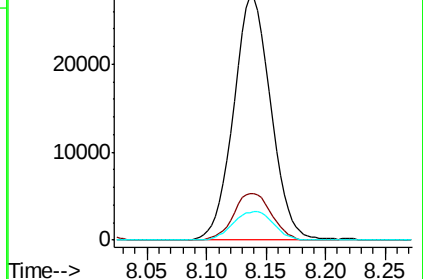
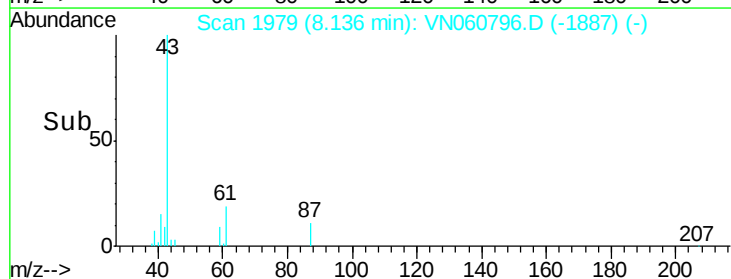
87 12.6 9.8 14.8

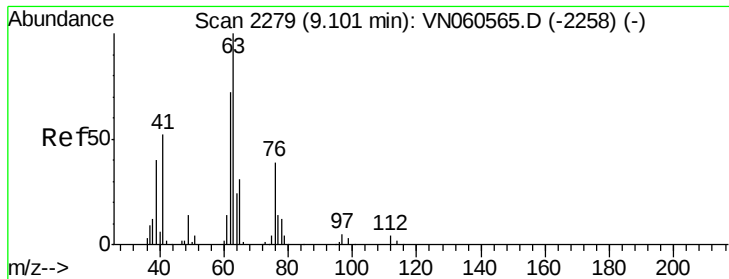


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.497 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

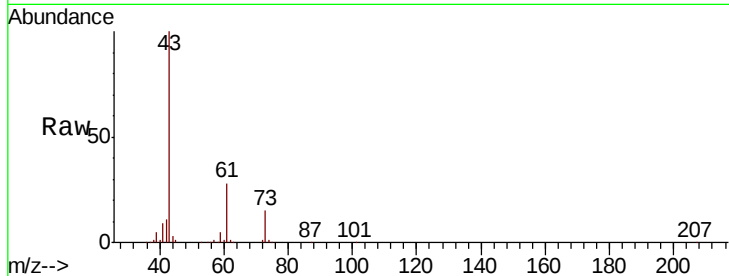
ClientSampleId :

Tot Ion: 63 Resp: 1202

Ion Ratio Lower Upper

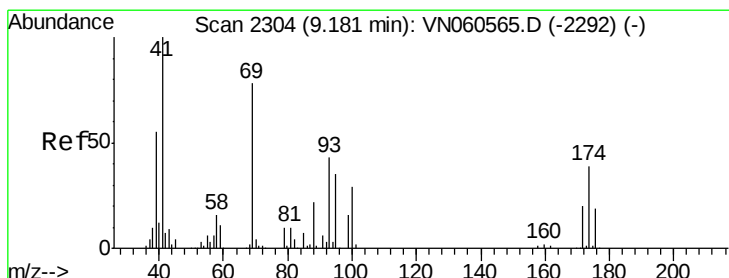
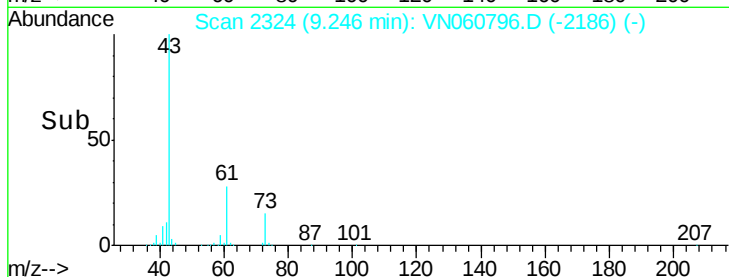
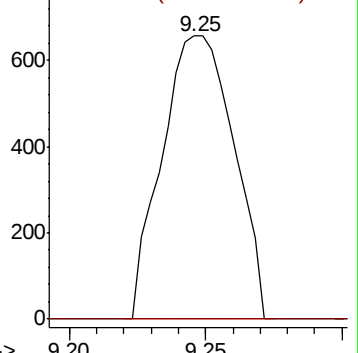
63 100

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: 1.267 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

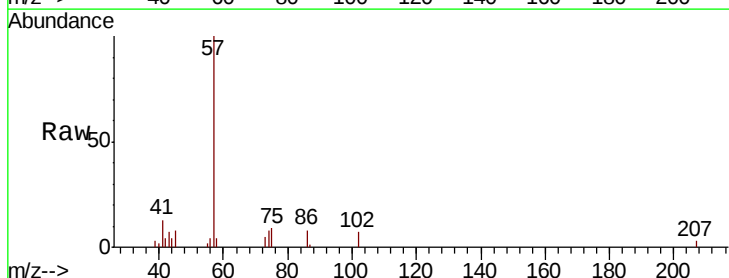
Tgt Ion: 41 Resp: 3053

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

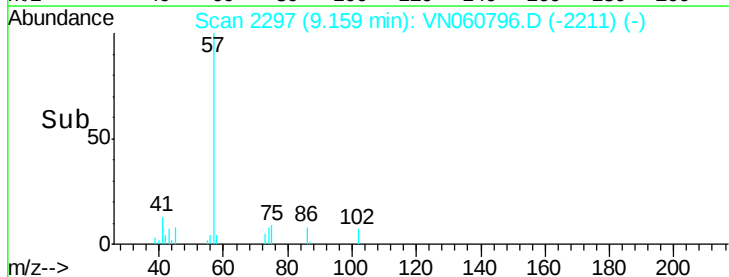
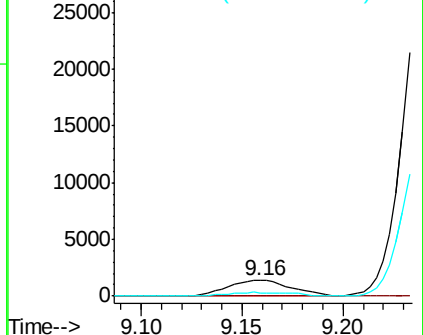
39 0.0 44.0 66.0#

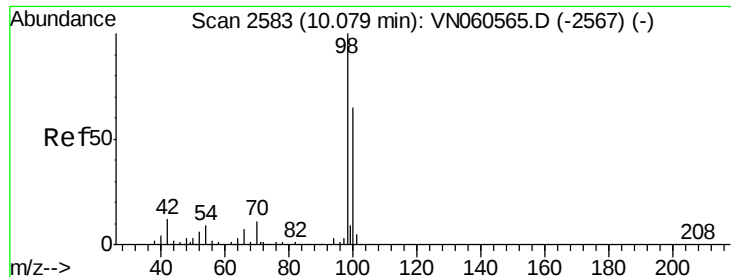


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 50.151 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

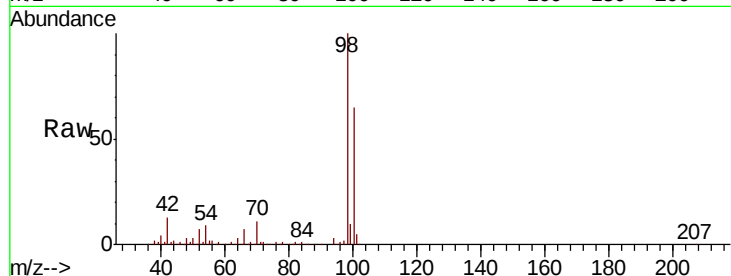
ClientSampleId :

Tot Ion: 98 Resp: 388375

Ion Ratio Lower Upper

98 100

100 65.1 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060565.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060565.D (-2567) (-)

10.08

250000

200000

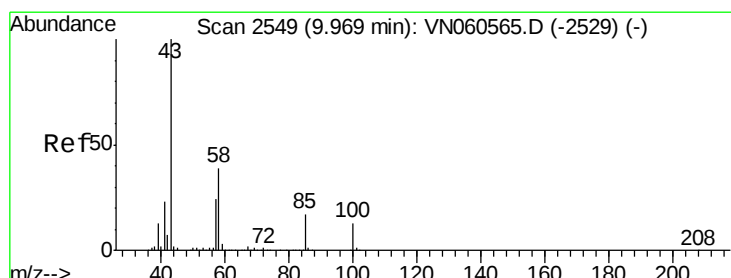
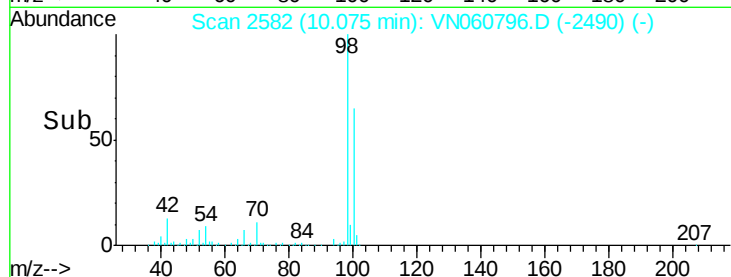
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.666 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060796.D

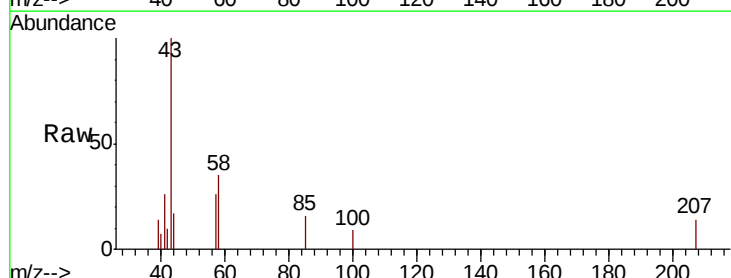
Acq: 31 Mar 2020 19:07

Tgt Ion: 43 Resp: 5130

Ion Ratio Lower Upper

43 100

58 29.2 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)

12000

10000

8000

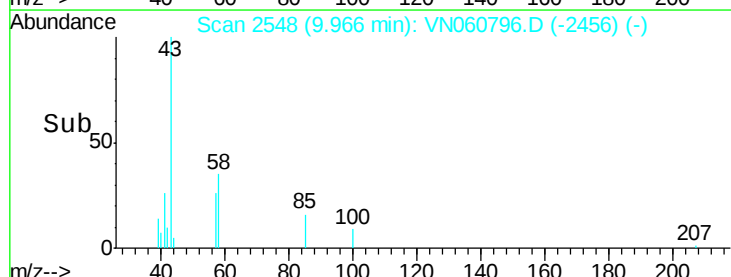
6000

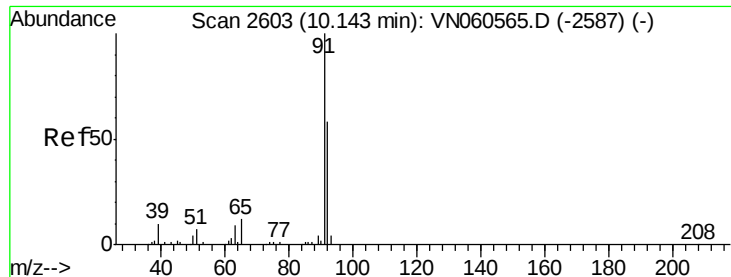
4000

2000

0

Time-->





#52

Toluene

Concen: 0.257 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

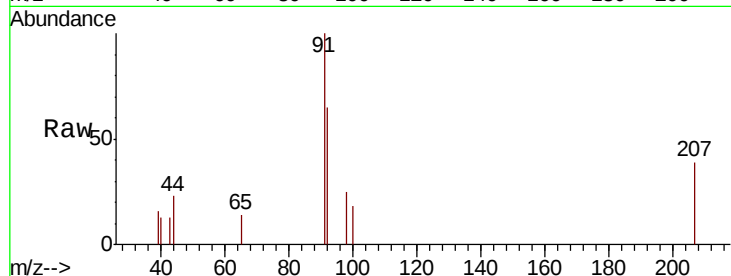
ClientSampled :

Tot Ion: 92 Resp: 1423

Ion Ratio Lower Upper

92 100

91 158.7 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060565.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN060565.D (-2587) (-)

1500

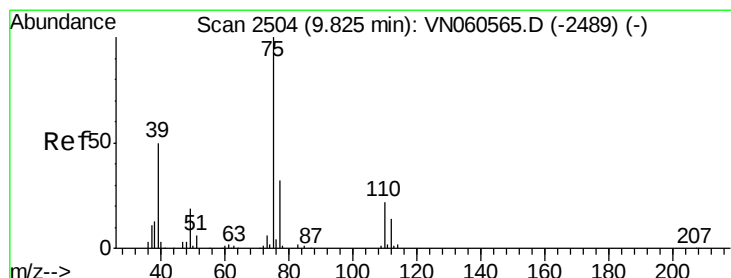
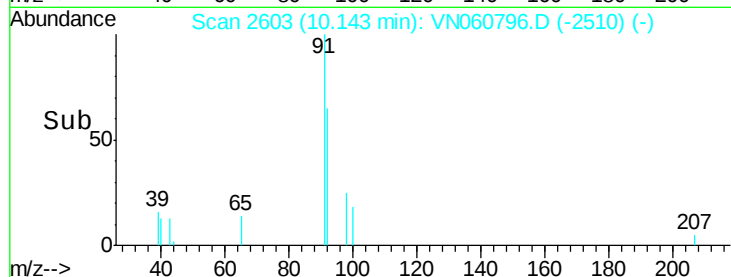
1000

500

0

10.10 10.15

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.481 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

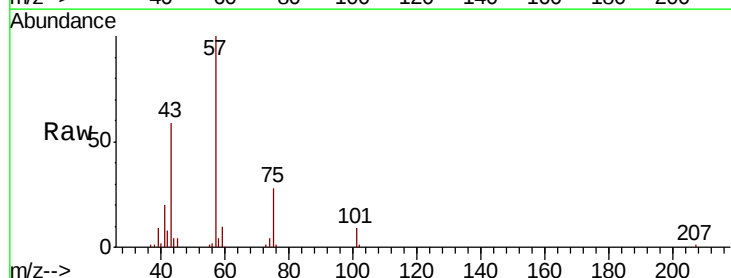
Tgt Ion: 75 Resp: 24813

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.2 40.2 60.4#



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

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

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

20000

15000

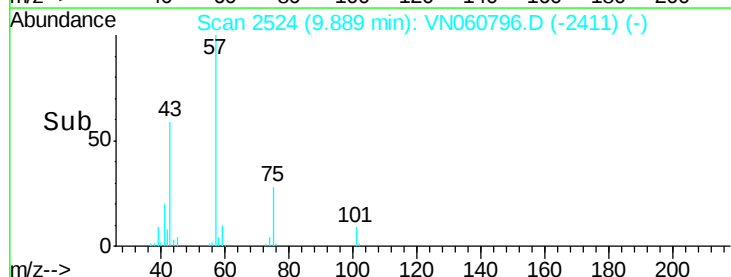
10000

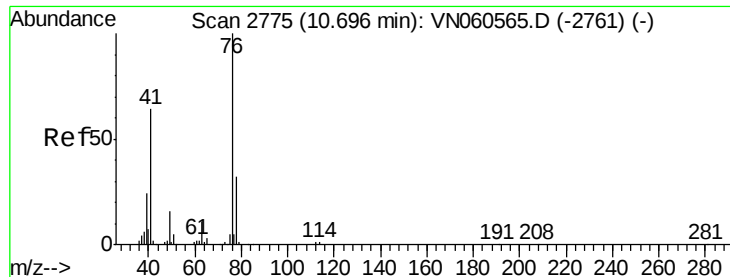
5000

0

9.85 9.90 9.95

Time-->

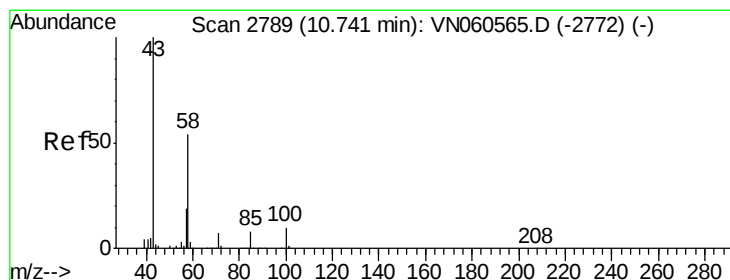
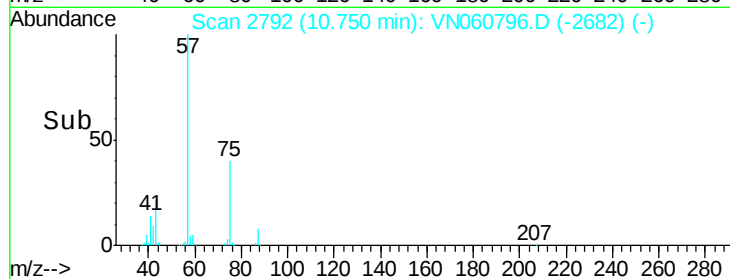
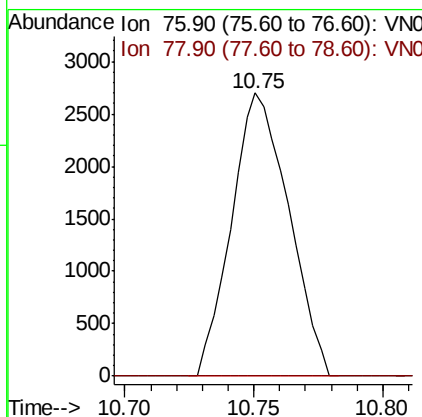
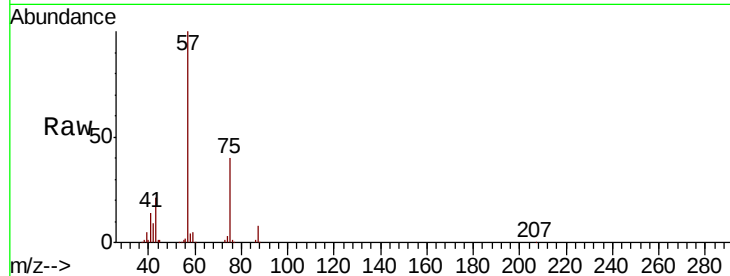




#57
 1,3-Dichloropropane
 Concen: 1.127 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060796.D
 Acq: 31 Mar 2020 19:07

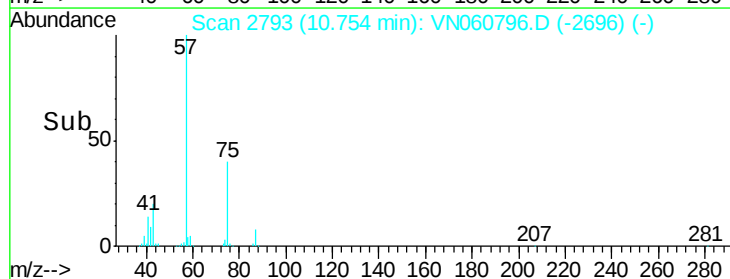
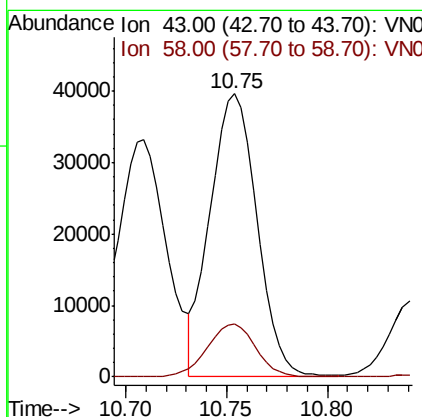
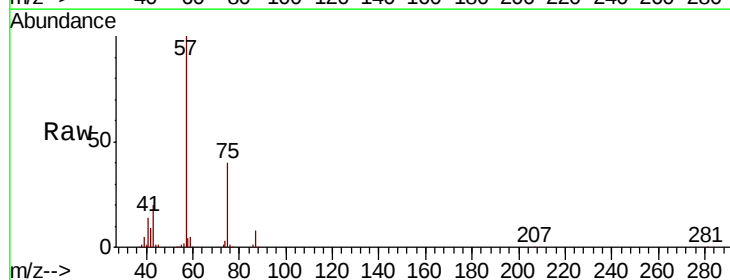
Instrument :
 MSVOA_N
 ClientSampled :

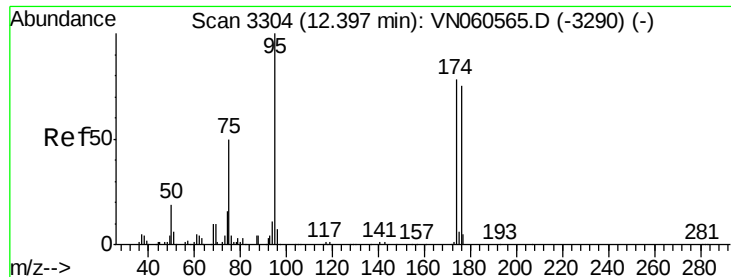
Tot Ion: 76 Resp: 4163
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 28.725 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060796.D
 Acq: 31 Mar 2020 19:07

Tgt Ion: 43 Resp: 63705
 Ion Ratio Lower Upper
 43 100
 58 19.3 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.225 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

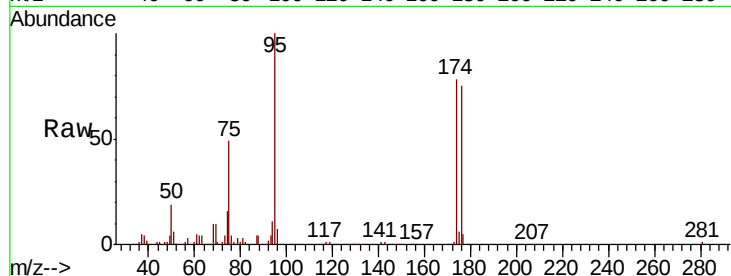
Tot Ion: 95 Resp: 145381

Ion Ratio Lower Upper

95 100

174 77.3 0.0 157.6

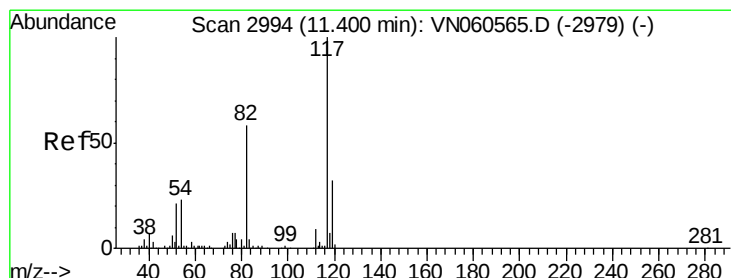
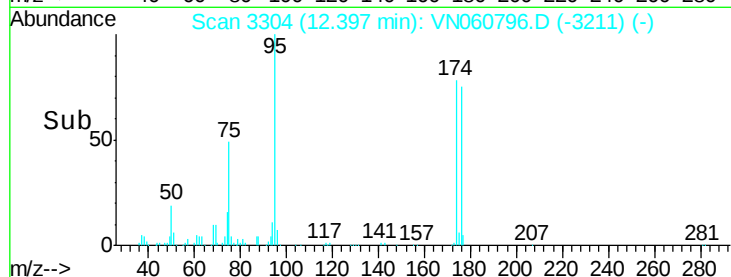
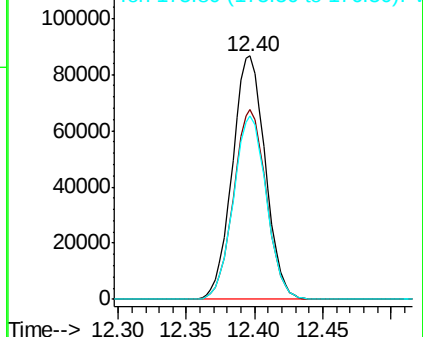
176 75.5 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060796.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060796.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060796.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

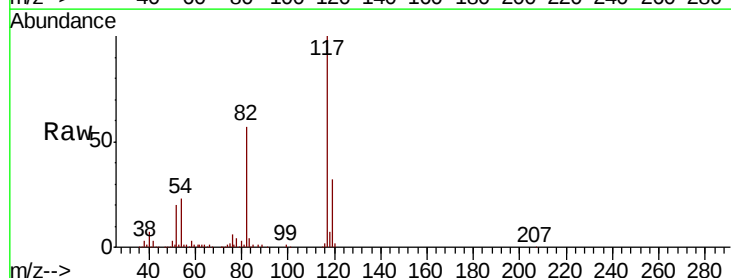
Tgt Ion: 117 Resp: 292541

Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

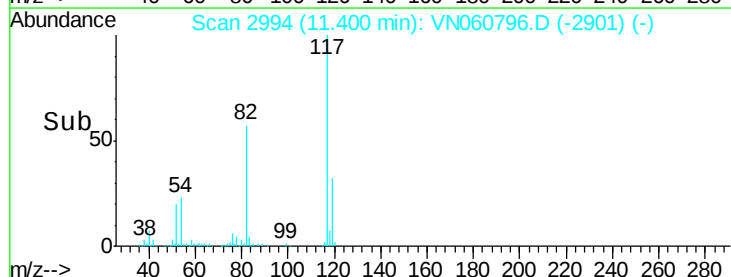
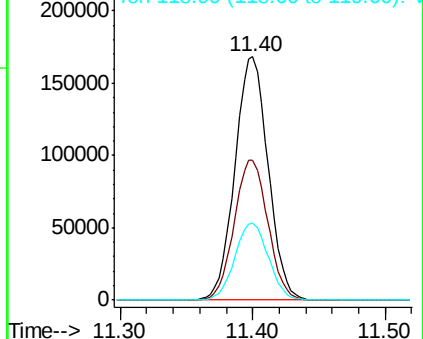
119 31.8 25.5 38.3

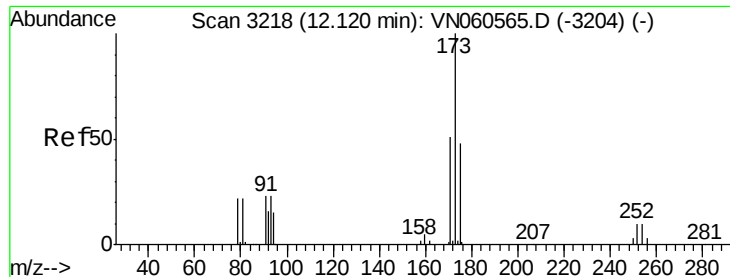


Abundance Ion 116.90 (116.60 to 117.60): VN060796.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060796.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060796.D (-2901) (-)





#71

Bromoform

Concen: 2.030 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

ClientSampleId :

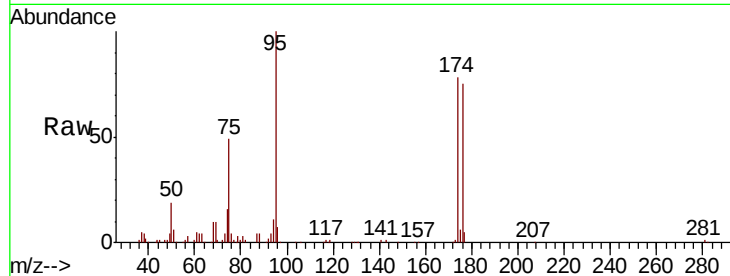
Tot Ion:173 Resp: 631

Ion Ratio Lower Upper

173 100

175 1132.2 24.1 72.4#

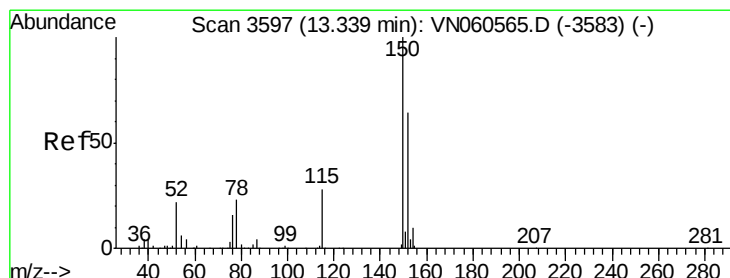
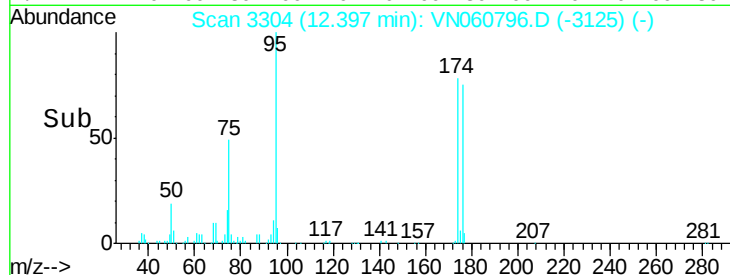
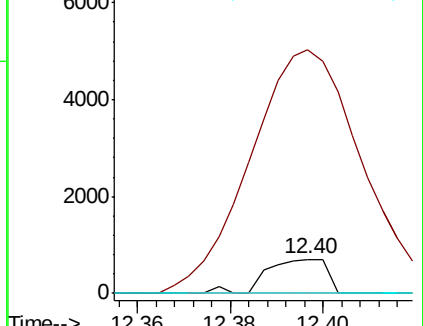
254 0.0 0.0 0.0



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: VN060796.D

Acq: 31 Mar 2020 19:07

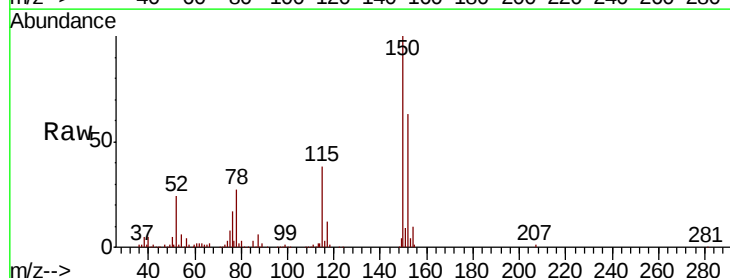
Tgt Ion:152 Resp: 133888

Ion Ratio Lower Upper

152 100

115 60.3 30.2 90.6

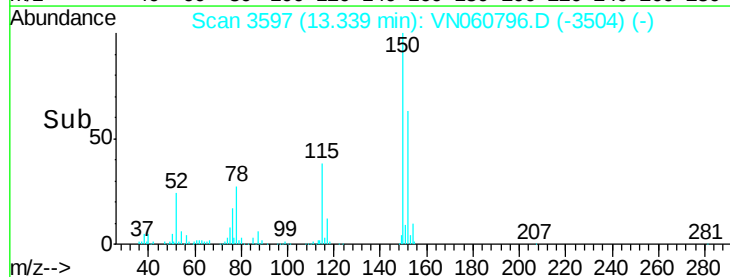
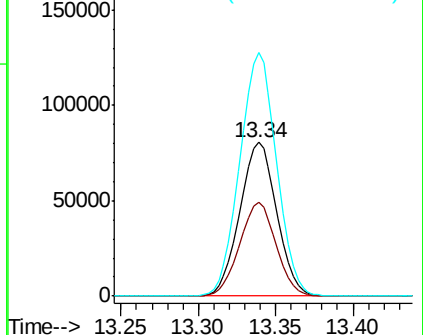
150 157.8 0.0 350.2

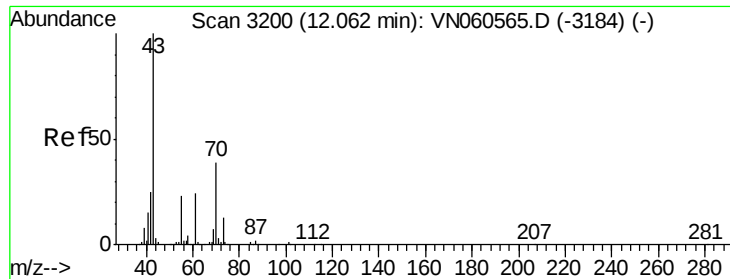


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.665 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3089

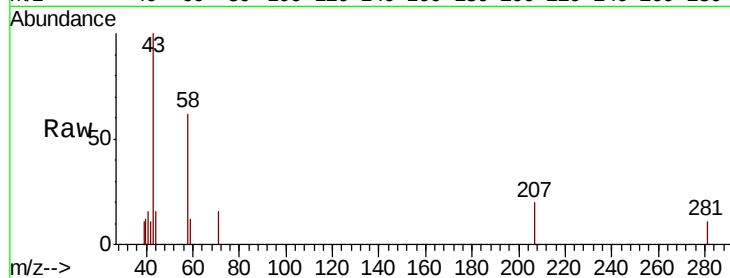
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

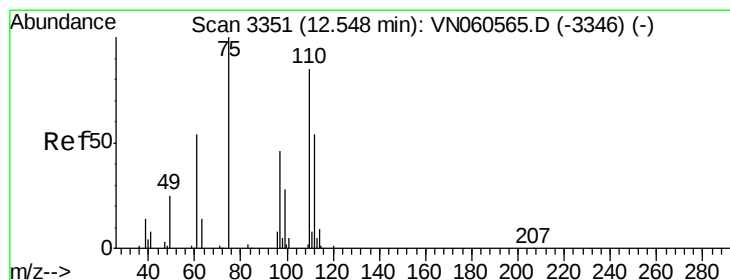
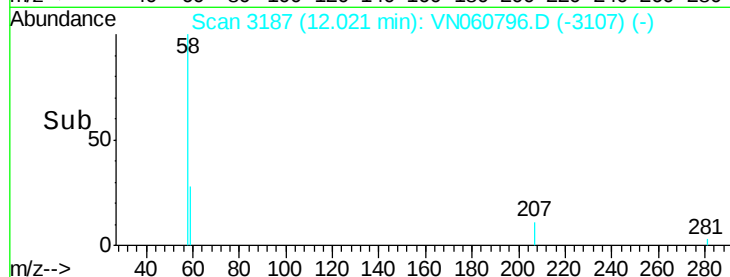
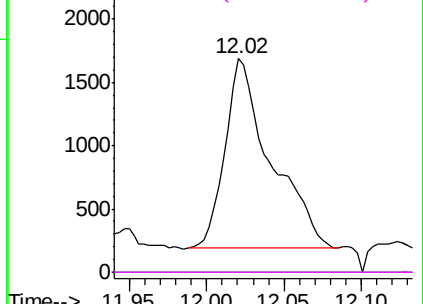


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.162 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060796.D

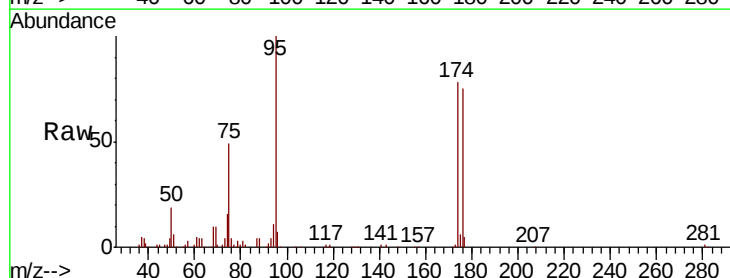
Acq: 31 Mar 2020 19:07

Tgt Ion: 75 Resp: 72695

Ion Ratio Lower Upper

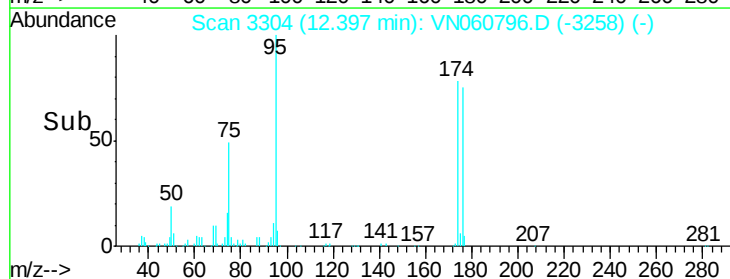
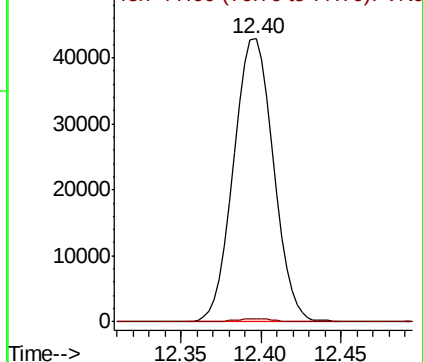
75 100

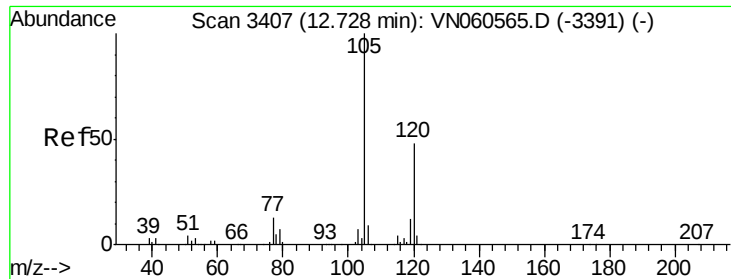
77 1.0 0.0 0.0#



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: 0.530 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Instrument :

MSVOA_N

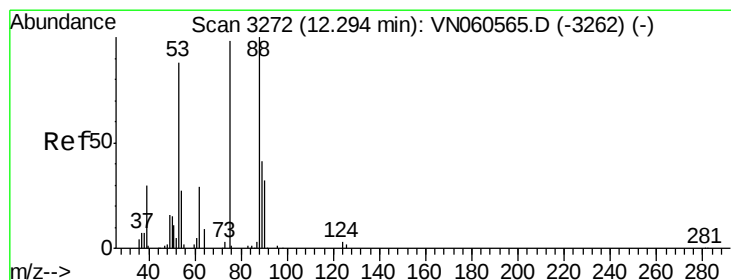
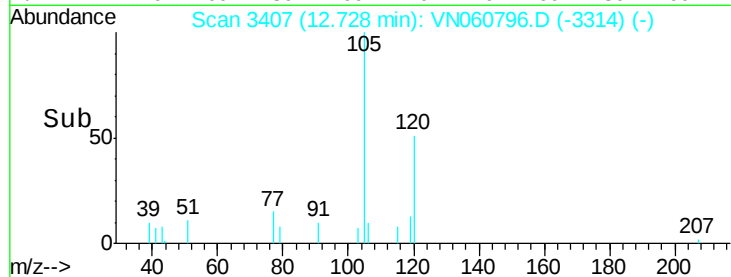
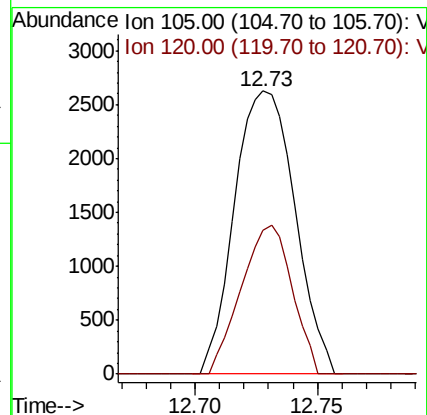
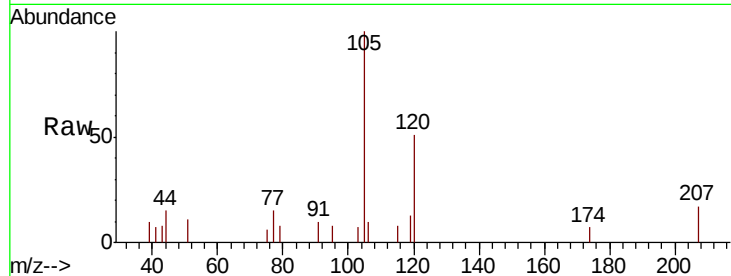
ClientSampleId :

Tot Ion:105 Resp: 4519

Ion Ratio Lower Upper

105 100

120 44.3 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 64.625 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060796.D

Acq: 31 Mar 2020 19:07

Tgt Ion: 75 Resp: 72695

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

