

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060988.D
 Acq On : 16 Apr 2020 1:41
 Operator : JC/MD
 Sample : L2277-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:43:36 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	148287	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	253862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	241911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111103	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	100667	49.45	ug/l	0.00
Spiked Amount						
			Recovery	=	98.90%	
35) Dibromofluoromethane	7.56	113	76278	49.69	ug/l	0.00
Spiked Amount						
			Recovery	=	99.38%	
50) Toluene-d8	10.08	98	319972	51.03	ug/l	0.00
Spiked Amount						
			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.39	95	121443	52.85	ug/l	0.00
Spiked Amount						
			Recovery	=	105.70%	

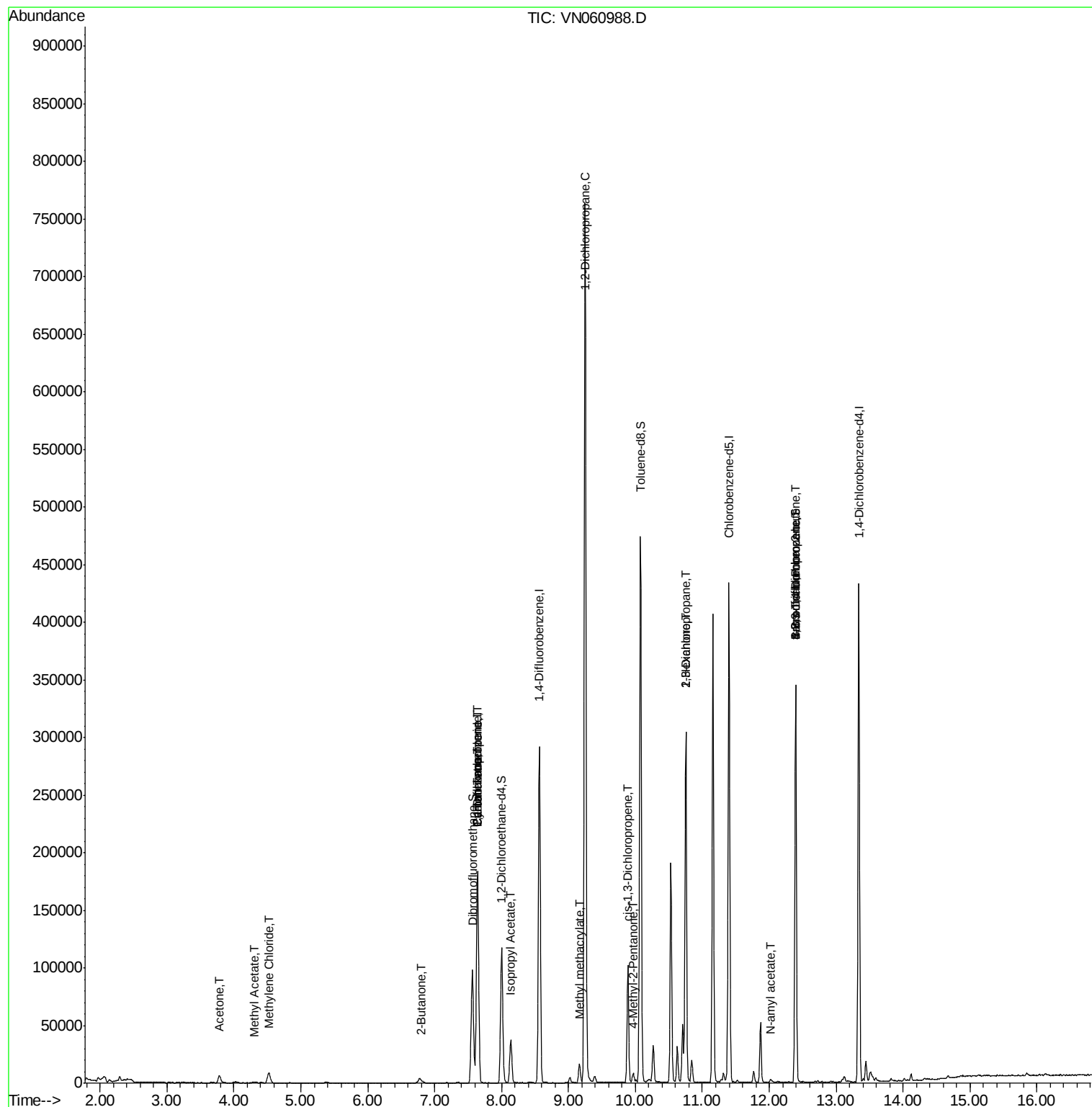
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	11650	16.157	ug/l	98
18) Methyl Acetate	4.30	43	1789	0.881	ug/l #	54
20) Methylene Chloride	4.53	84	7035	3.966	ug/l	95
25) 2-Butanone	6.80	43	3122	2.676	ug/l	95
31) Cyclohexane	7.64	56	3301	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12056	4.904	ug/l #	49
38) Carbon Tetrachloride	7.64	117	14329	6.504	ug/l #	16
43) Isopropyl Acetate	8.14	43	45194	10.317	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	736	0.376	ug/l #	43
48) Methyl methacrylate	9.16	41	2493	1.278	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5886	2.361	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	18092	5.836	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3061	1.023	ug/l #	42
59) 2-Hexanone	10.75	43	45088	25.110	ug/l #	52
71) Bromoform	12.39	173	659	2.122	ug/l #	1
74) N-amyl acetate	12.02	43	2425	0.629	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	61487	25.648	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	61487	65.871	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: VN060988.D

Acq: 16 Apr 2020 1:41

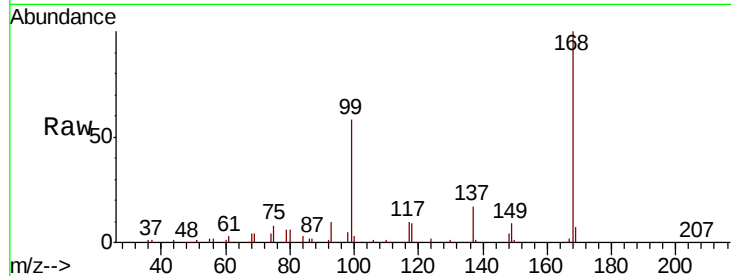
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 148287

Ion Ratio Lower Upper

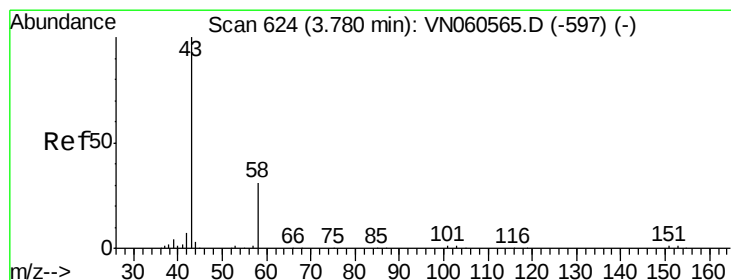
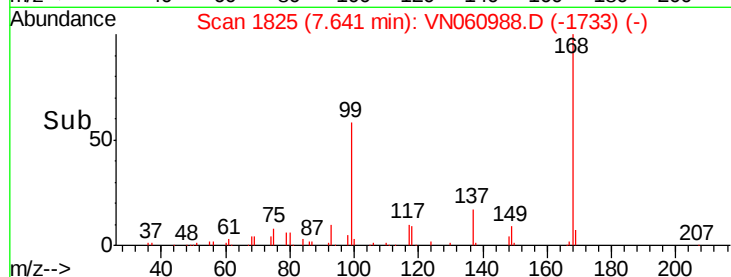
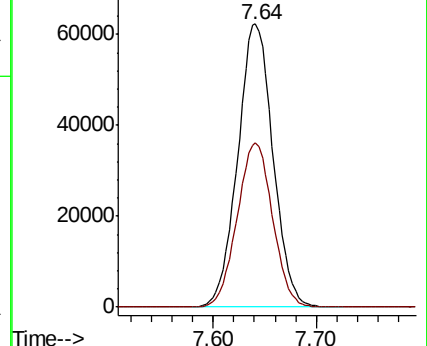
168 100

99 58.2 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: 16.157 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060988.D

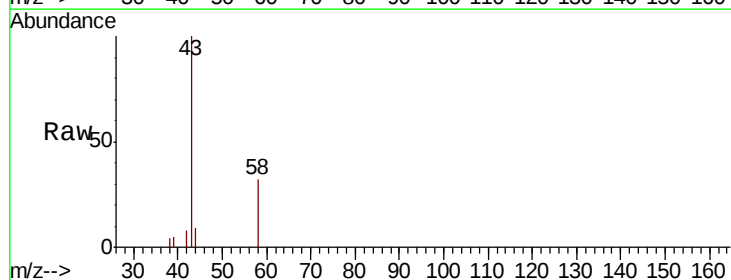
Acq: 16 Apr 2020 1:41

Tgt Ion: 43 Resp: 11650

Ion Ratio Lower Upper

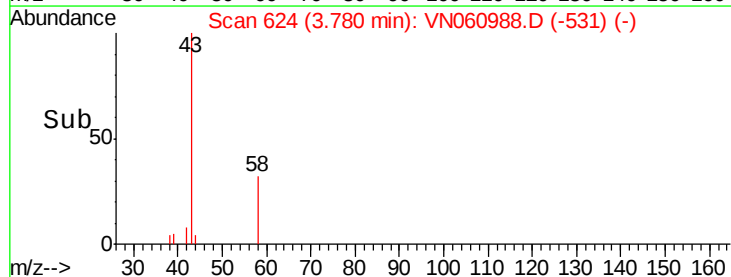
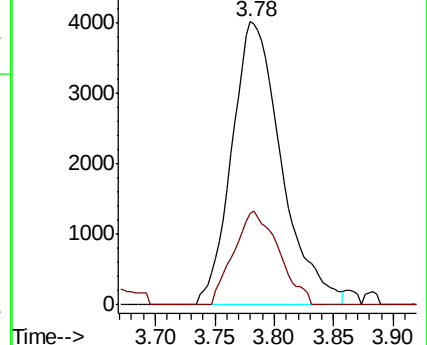
43 100

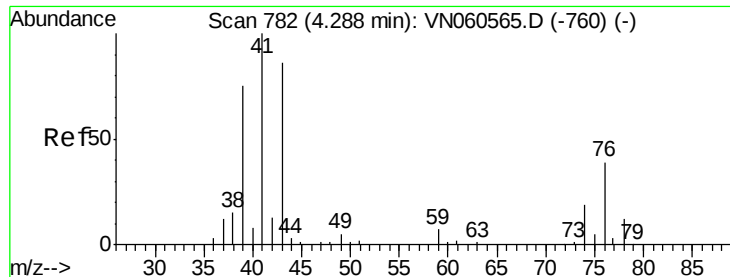
58 32.4 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

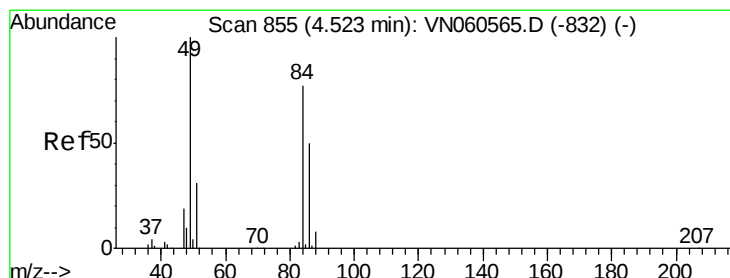
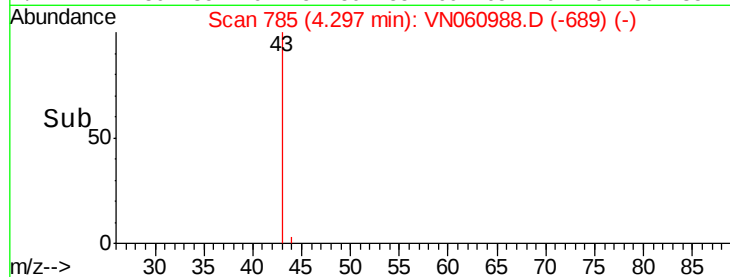
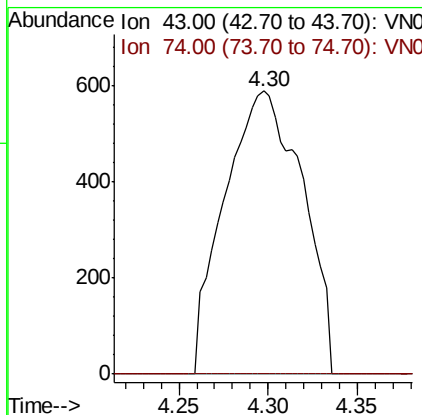
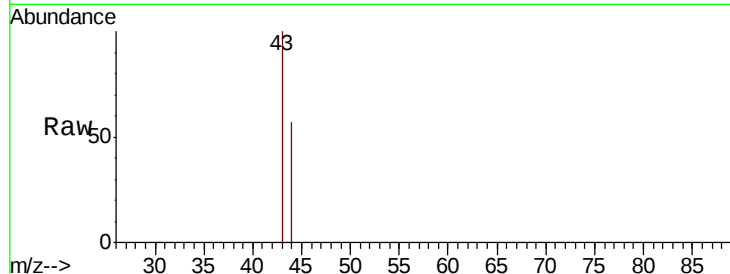




#18
Methyl Acetate
Concen: 0.881 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

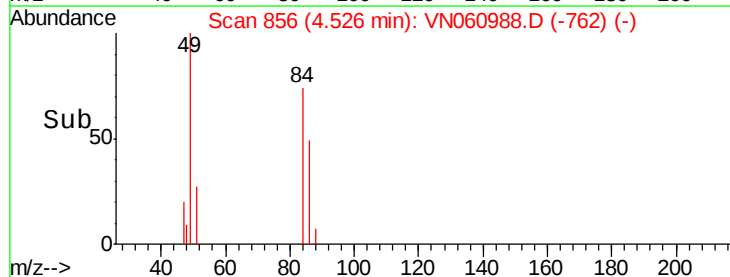
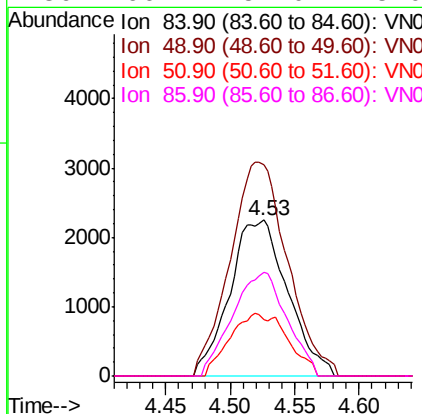
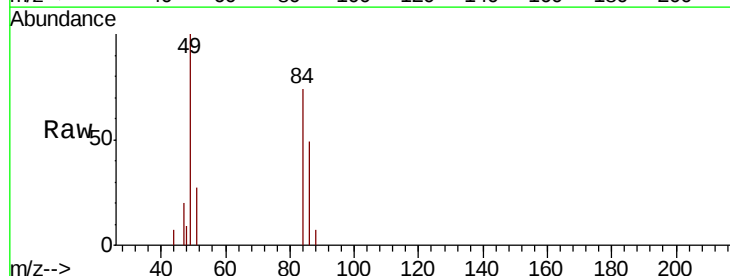
Instrument :
MSVOA_N
ClientSampleId :

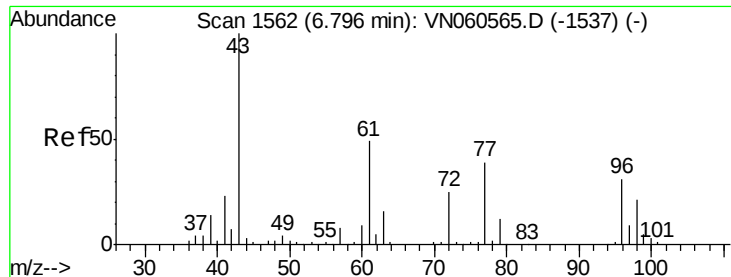
Tot Ion: 43 Resp: 1789
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.966 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Tgt Ion: 84 Resp: 7035
Ion Ratio Lower Upper
84 100
49 136.0 103.3 154.9
51 36.5 31.6 47.4
86 66.7 52.0 78.0





#25

2-Butanone

Concen: 2.676 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

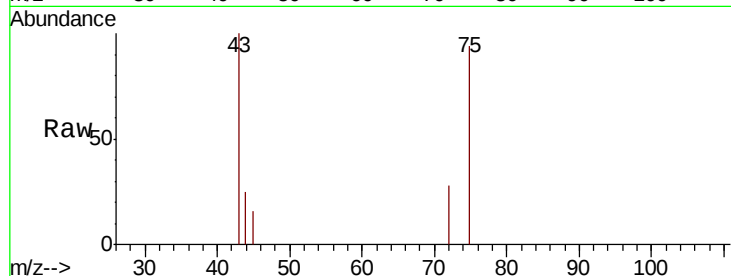
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3122

Ion Ratio Lower Upper

43 100

72 27.9 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1537) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1537) (-)

6.80

1000

800

600

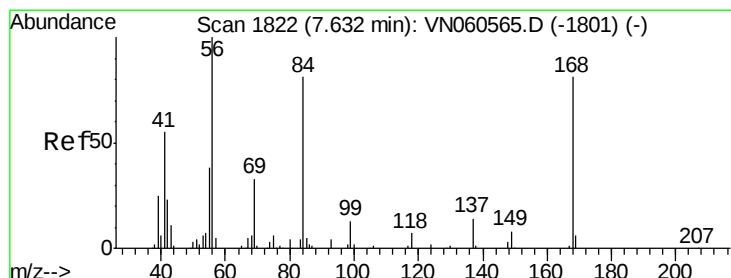
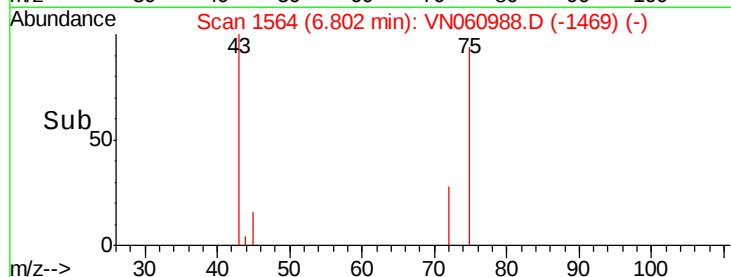
400

200

0

6.75 6.80 6.85 6.90

Time-->



#31

Cyclohexane

Concen: 1.007 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

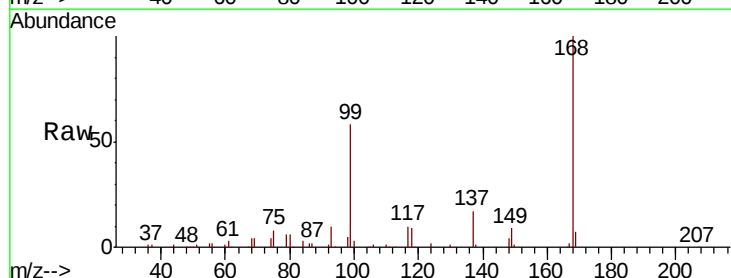
Tgt Ion: 56 Resp: 3301

Ion Ratio Lower Upper

56 100

69 172.4 26.6 40.0#

84 123.2 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060565.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN060565.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN060565.D (-1801) (-)

3000

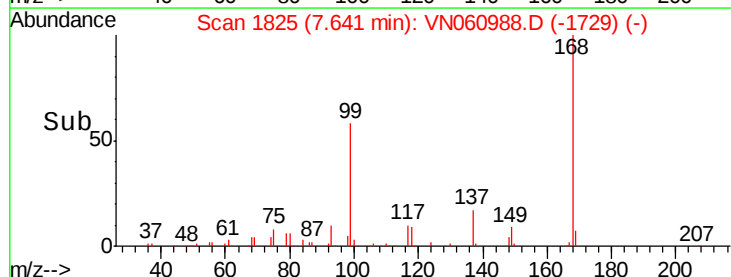
2000

1000

0

7.60 7.65 7.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 49.452 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

Instrument :

MSVOA_N

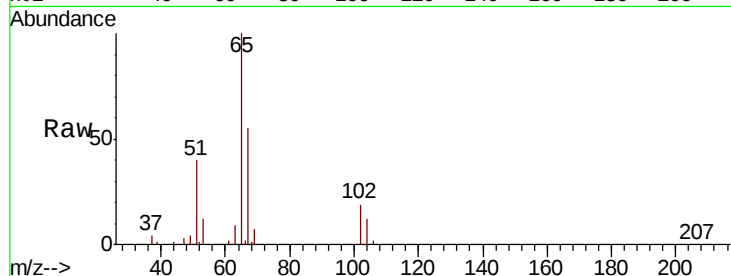
ClientSampleId :

Tot Ion: 65 Resp: 100667

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.6

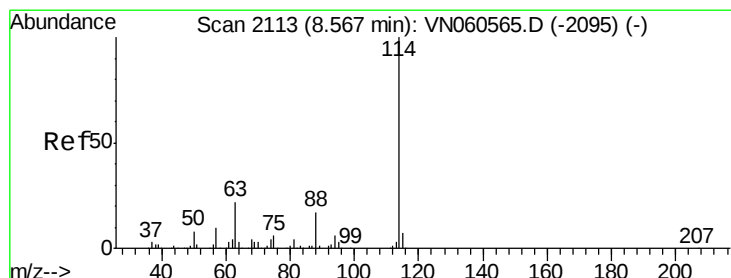
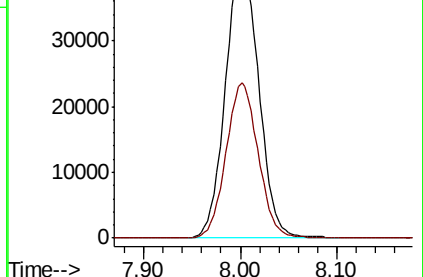
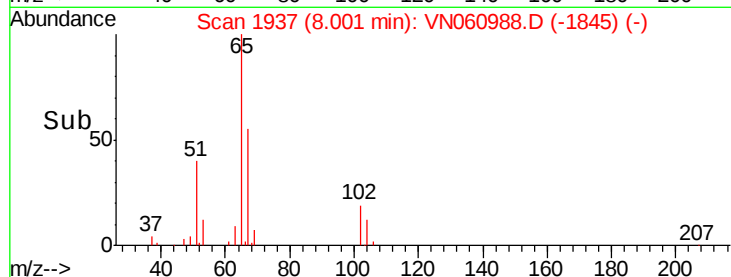


Abundance Ion 64.90 (64.60 to 65.60): VN060565.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060565.D (-1920) (-)

8.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

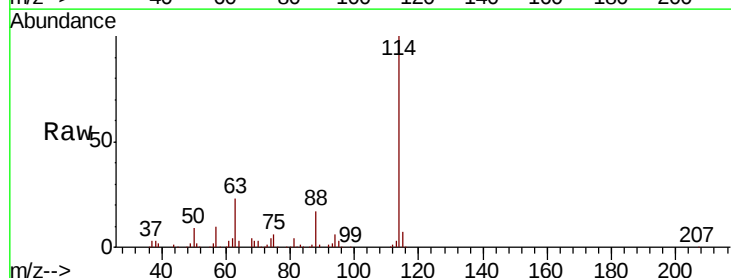
Tgt Ion: 114 Resp: 253862

Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.8

88 16.6 0.0 33.0



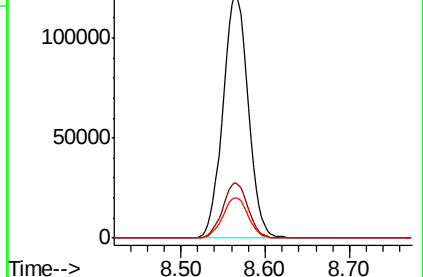
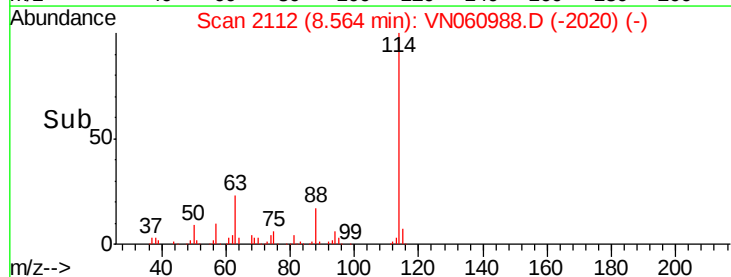
Abundance Ion 113.90 (113.60 to 114.60): VN060565.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN060565.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN060565.D (-2095) (-)

8.56

Time-->

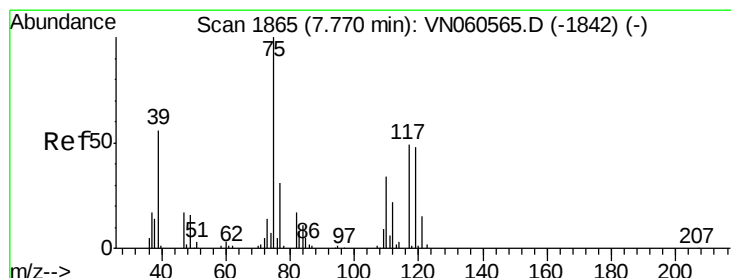
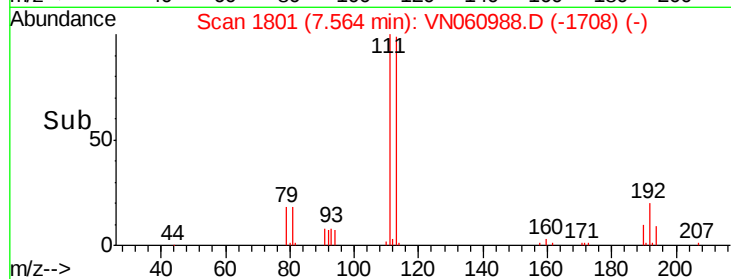
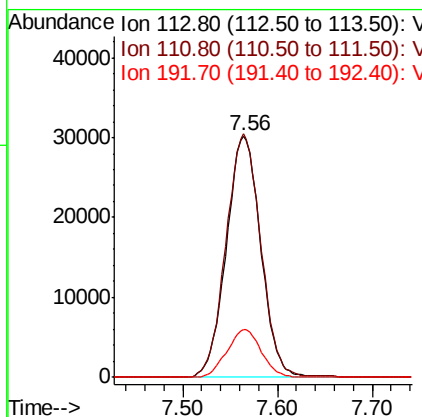
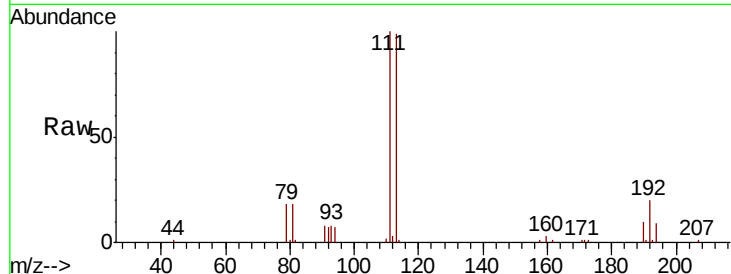




#35
 Dibromofluoromethane
 Concen: 49.692 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060988.D
 Acq: 16 Apr 2020 1:41

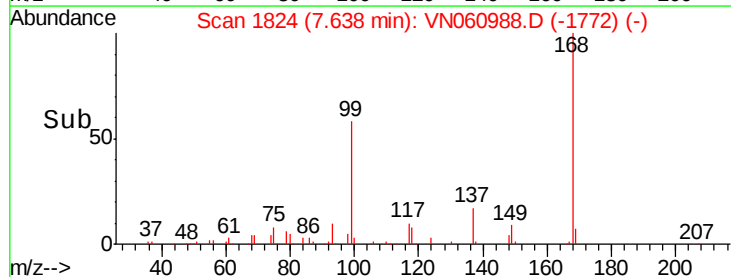
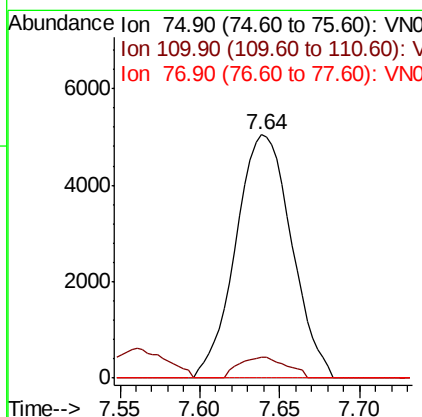
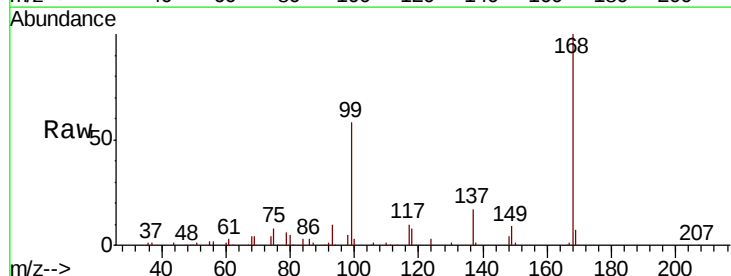
Instrument :
 MSVOA_N
 ClientSampled :

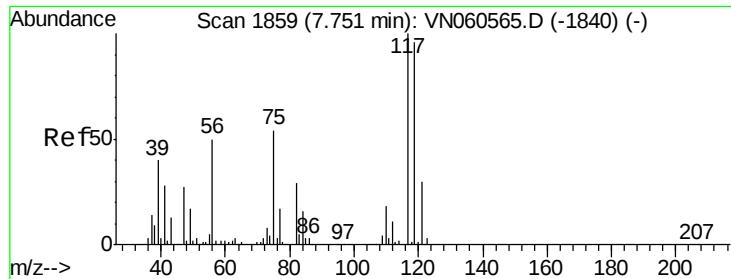
Tot Ion:113 Resp: 76278
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 19.6 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.904 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060988.D
 Acq: 16 Apr 2020 1:41

Tgt Ion: 75 Resp: 12056
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.9 50.6#
 77 0.0 24.6 36.8#

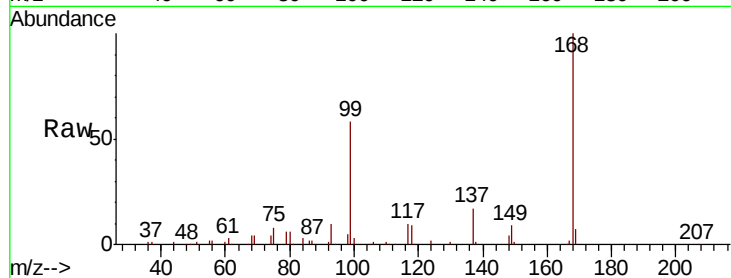




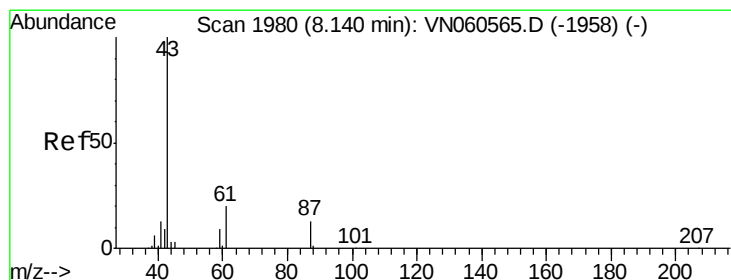
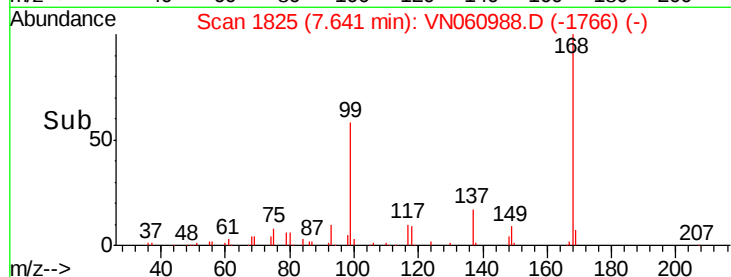
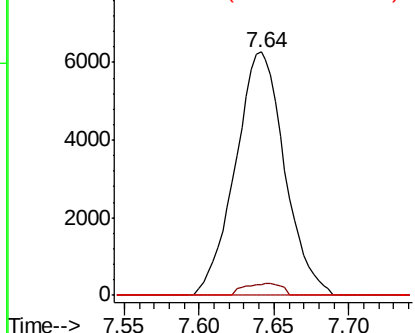
#38
Carbon Tetrachloride
Concen: 6.504 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 14329
Ion Ratio Lower Upper
117 100
119 4.5 76.2 114.2#
121 0.0 23.7 35.5#

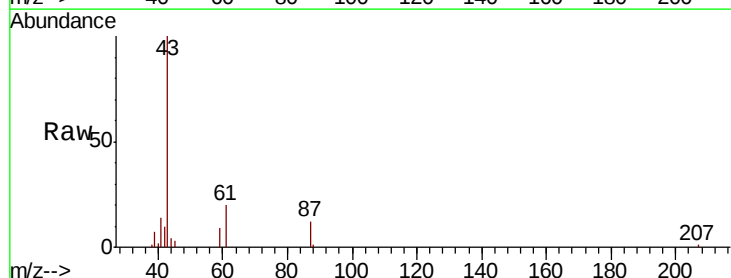


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

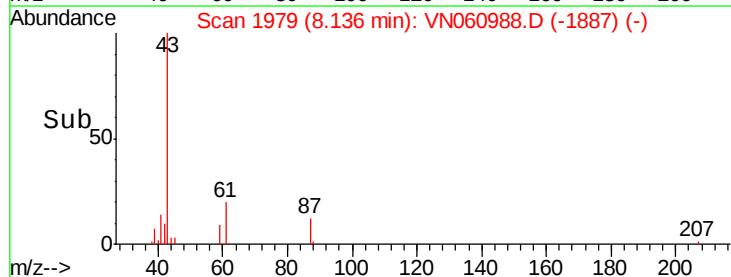
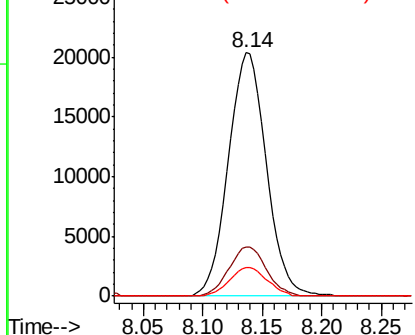


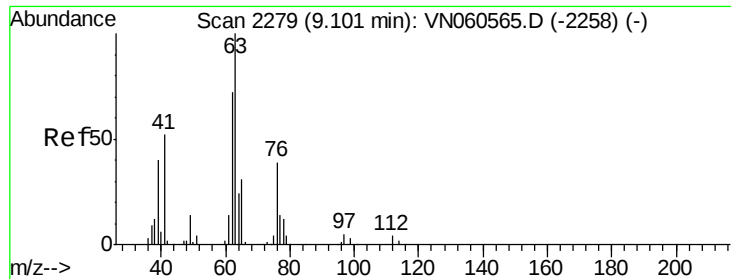
#43
Isopropyl Acetate
Concen: 10.317 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Tgt Ion: 43 Resp: 45194
Ion Ratio Lower Upper
43 100
61 19.9 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: 0.376 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

Instrument :

MSVOA_N

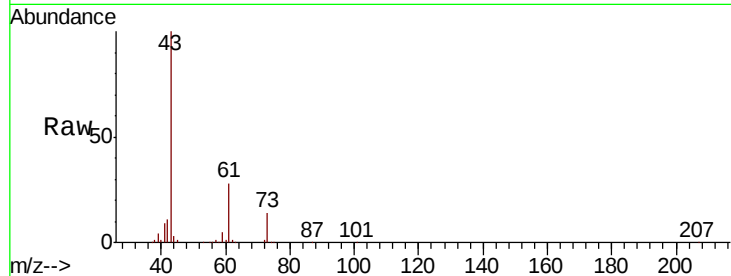
ClientSampleId :

Tot Ion: 63 Resp: 736

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

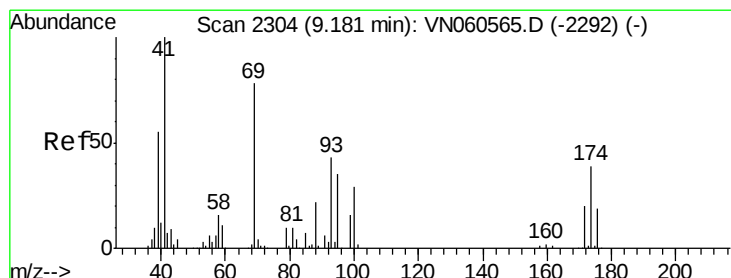
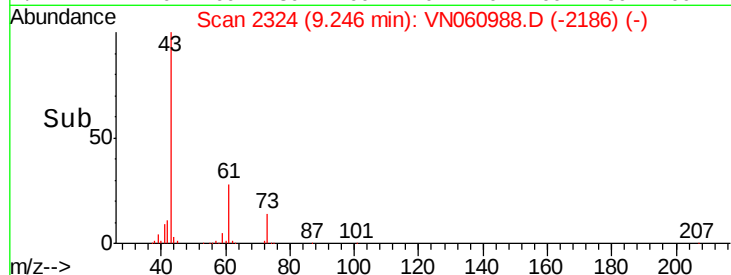
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.278 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

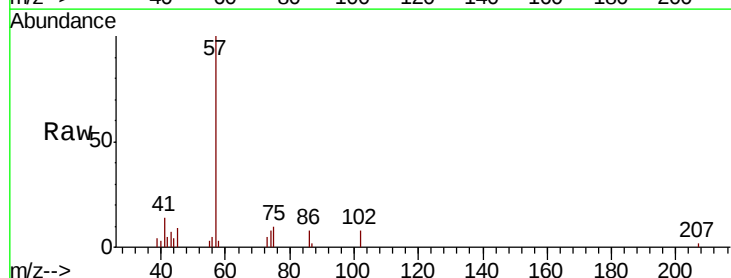
Tgt Ion: 41 Resp: 2493

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

40000

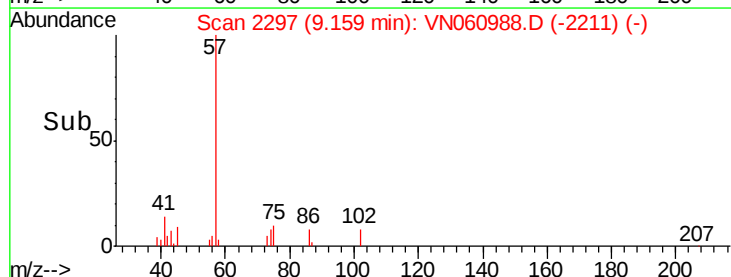
30000

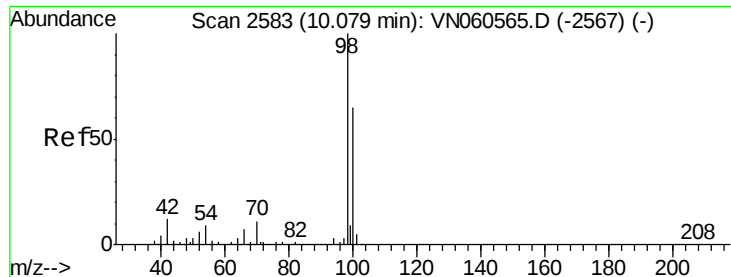
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.032 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

Instrument :

MSVOA_N

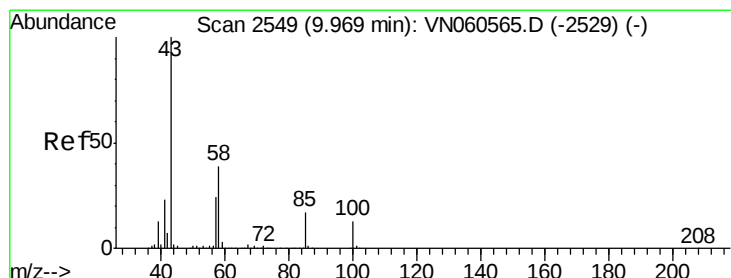
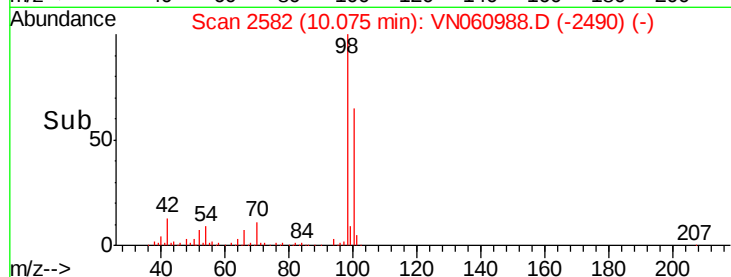
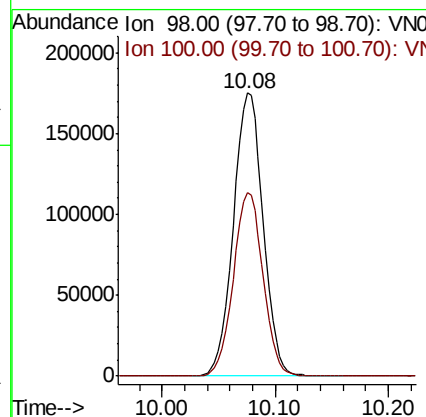
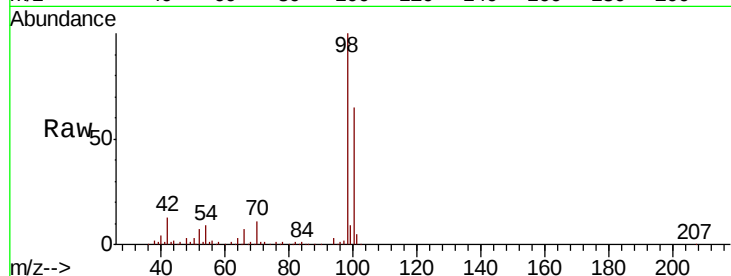
ClientSampled :

Tot Ion: 98 Resp: 319972

Ion Ratio Lower Upper

98 100

100 64.7 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 2.361 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060988.D

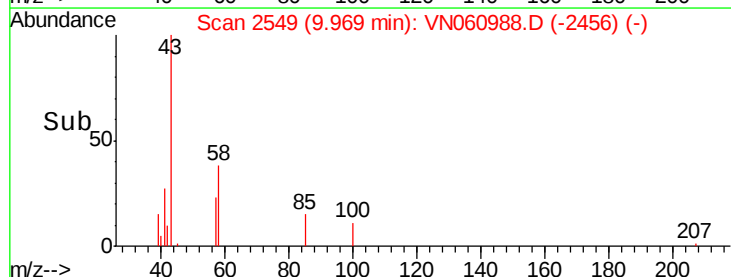
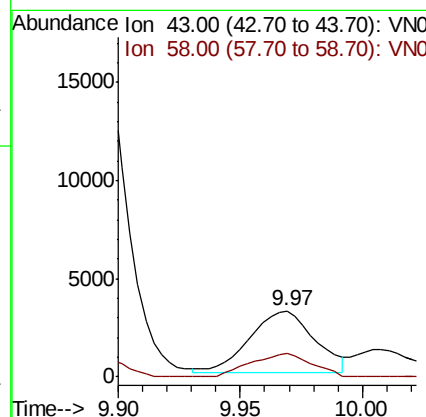
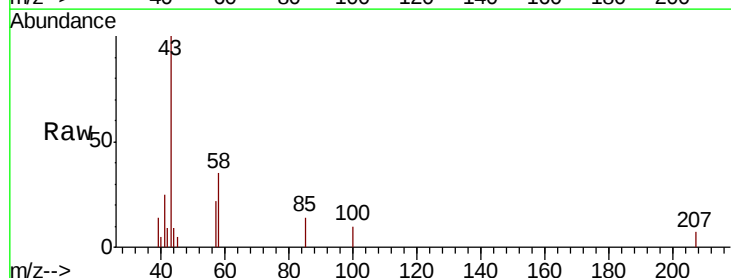
Acq: 16 Apr 2020 1:41

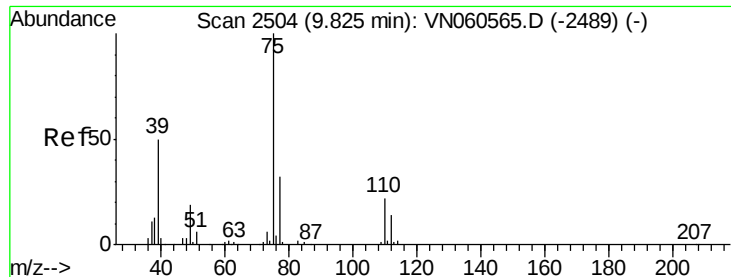
Tgt Ion: 43 Resp: 5886

Ion Ratio Lower Upper

43 100

58 34.9 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.836 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

Instrument :

MSVOA_N

ClientSampled :

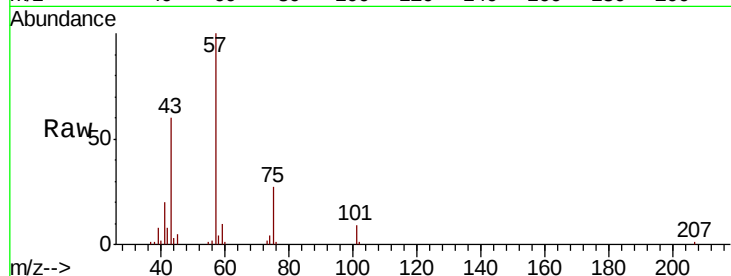
Tot Ion: 75 Resp: 18092

Ion Ratio Lower Upper

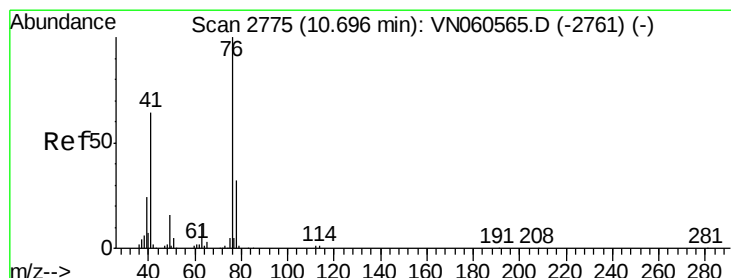
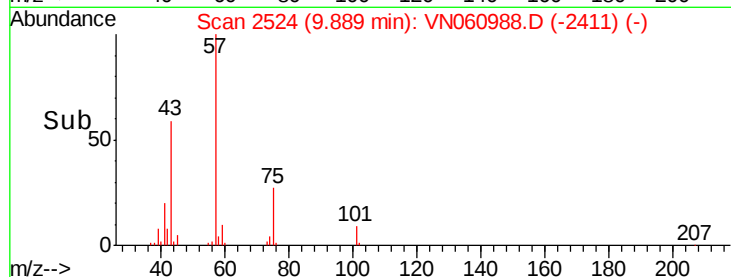
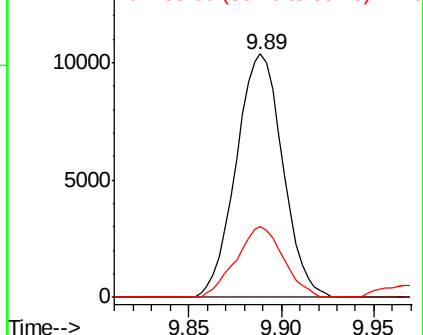
75 100

77 0.0 25.4 38.0#

39 29.1 40.2 60.4#



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



#57

1,3-Dichloropropane

Concen: 1.023 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060988.D

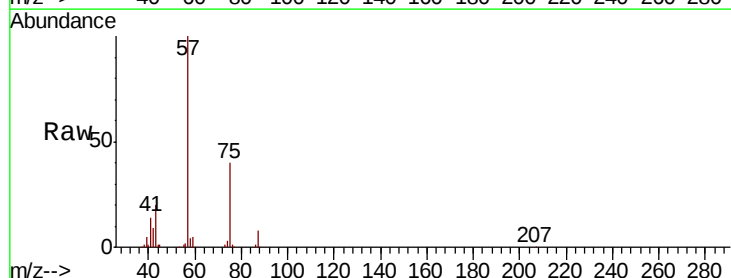
Acq: 16 Apr 2020 1:41

Tgt Ion: 76 Resp: 3061

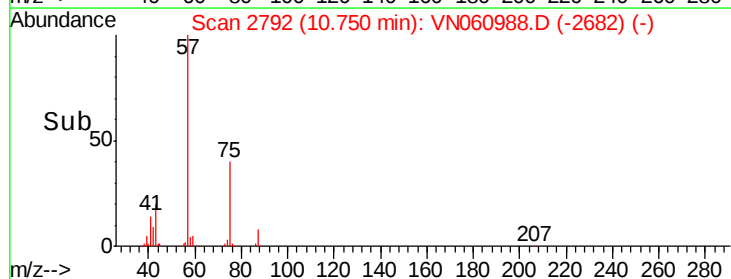
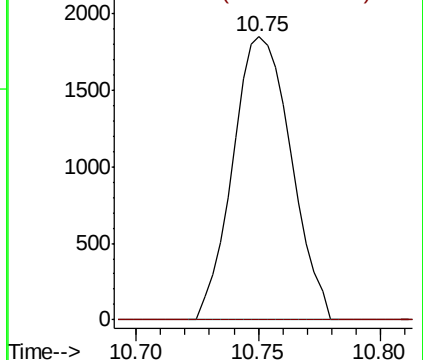
Ion Ratio Lower Upper

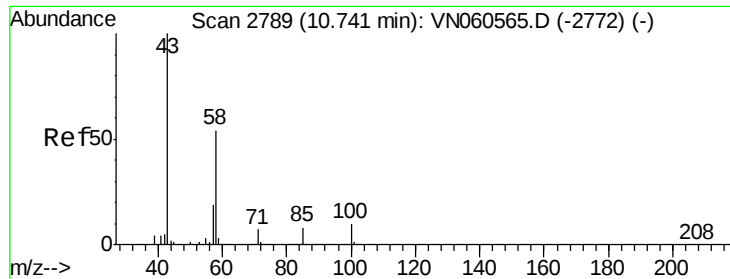
76 100

78 0.0 25.8 38.6#



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

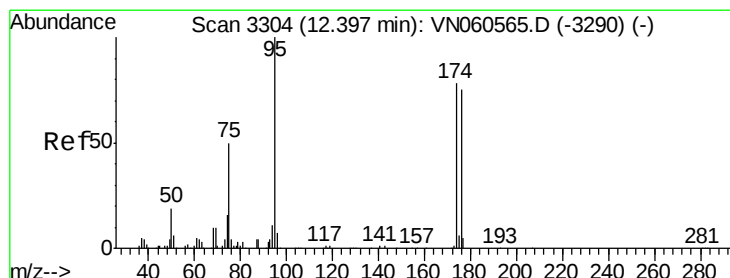
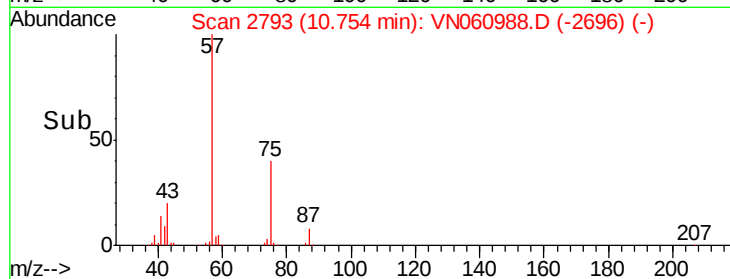
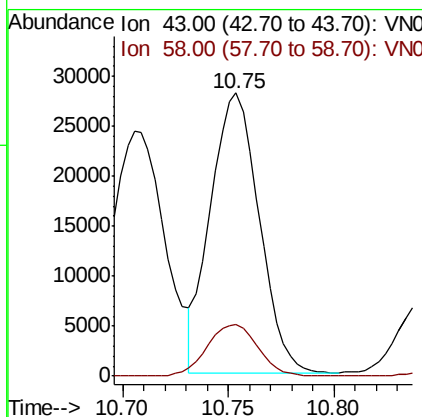
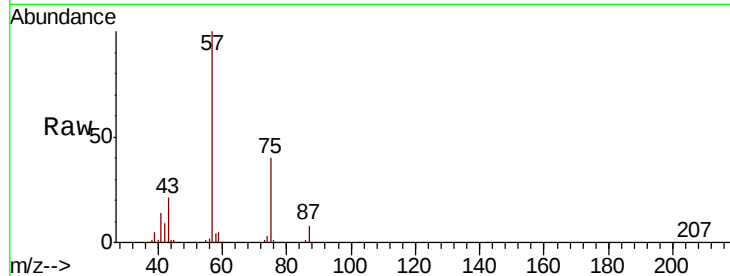




#59
2-Hexanone
Concen: 25.110 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

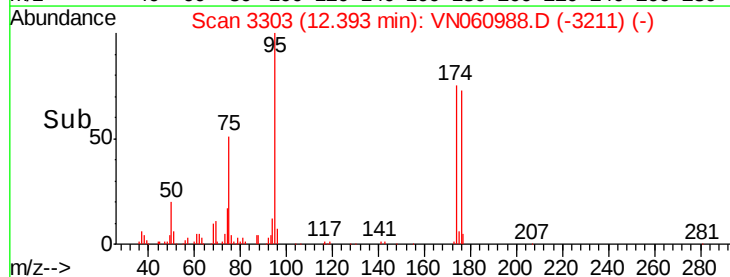
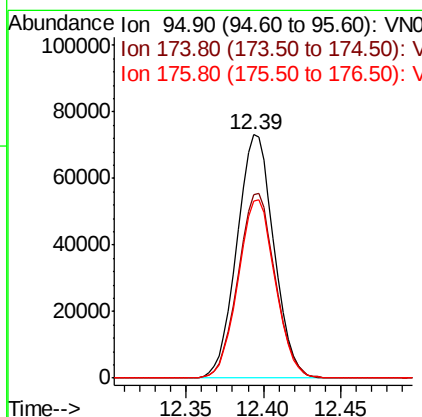
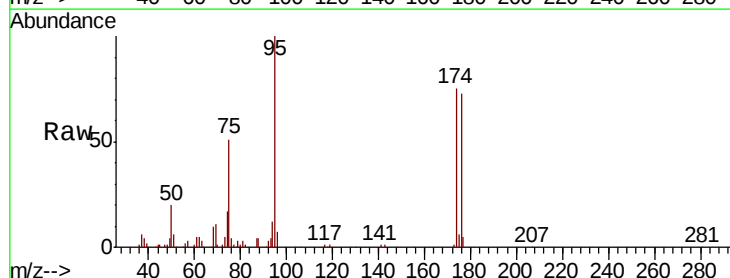
Instrument :
MSVOA_N
ClientSampleId :

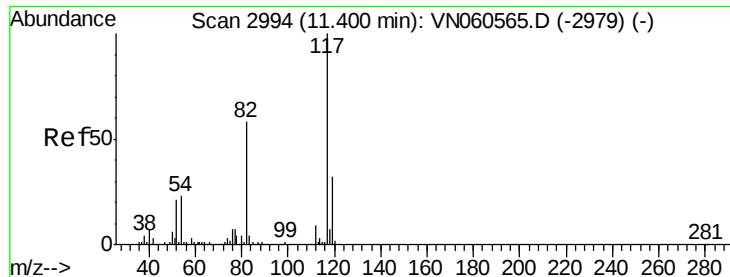
Tot Ion: 43 Resp: 45088
Ion Ratio Lower Upper
43 100
58 19.1 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.851 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Tgt Ion: 95 Resp: 121443
Ion Ratio Lower Upper
95 100
174 76.2 0.0 157.6
176 73.5 0.0 150.6

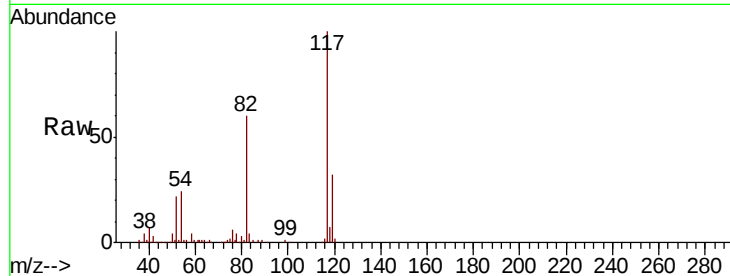




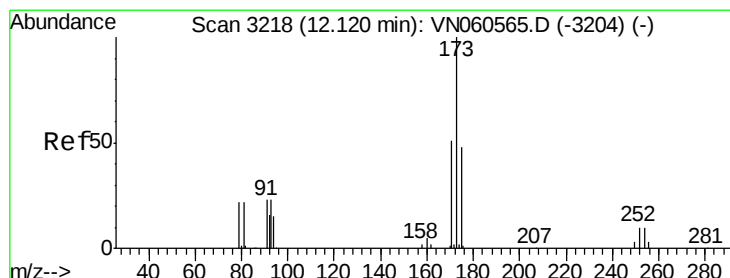
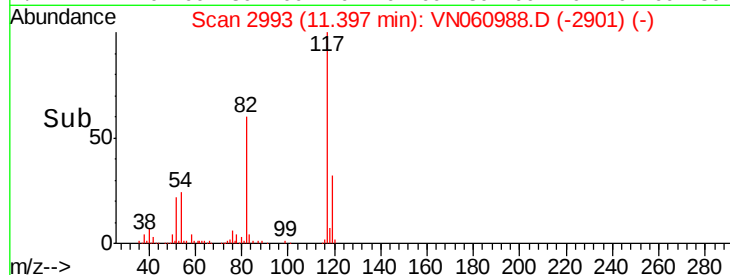
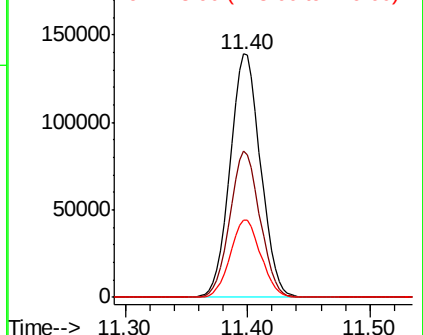
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 241911
Ion Ratio Lower Upper
117 100
82 60.0 46.7 70.1
119 31.9 25.5 38.3

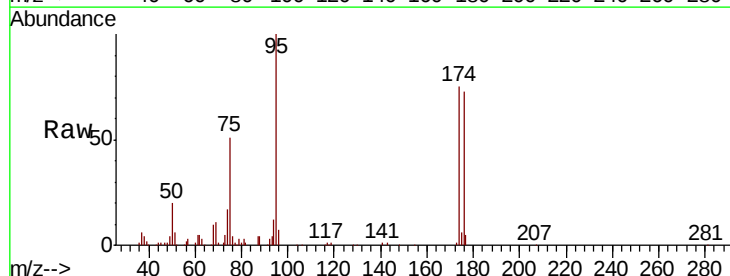


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

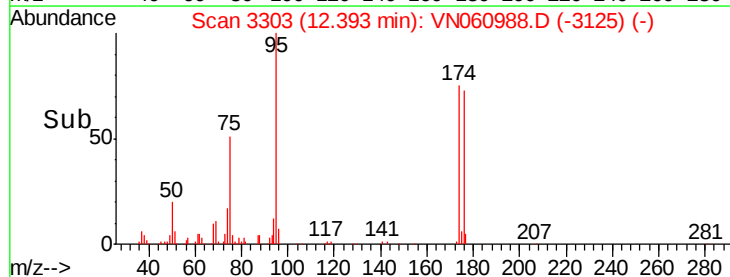
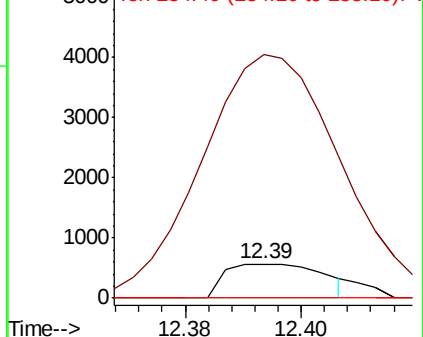


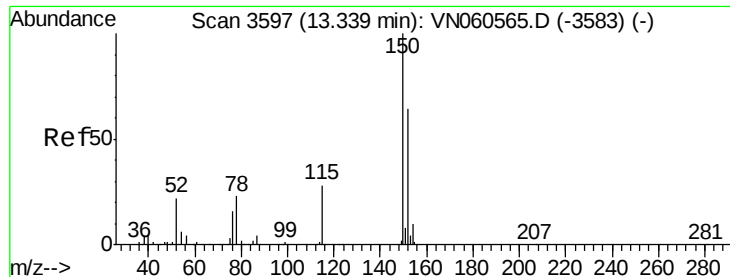
#71
Bromoform
Concen: 2.122 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Tgt Ion:173 Resp: 659
Ion Ratio Lower Upper
173 100
175 902.0 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



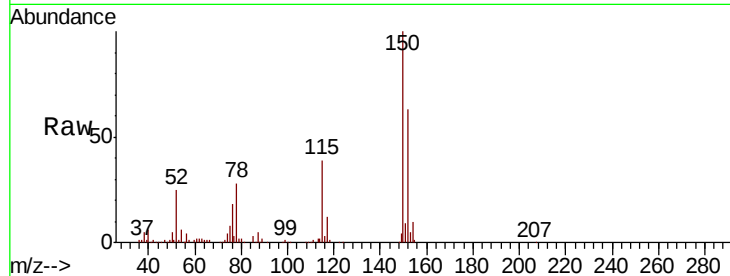


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.0	30.2	90.6
150	156.8	0.0	350.2

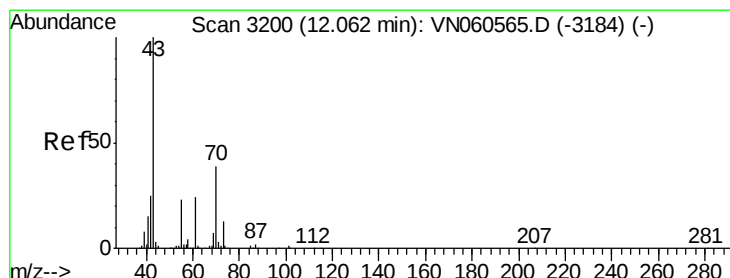
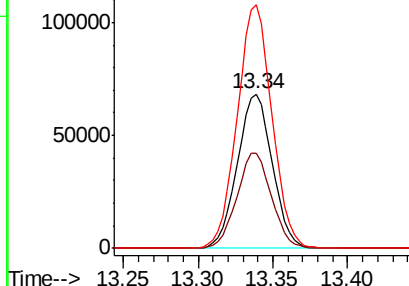
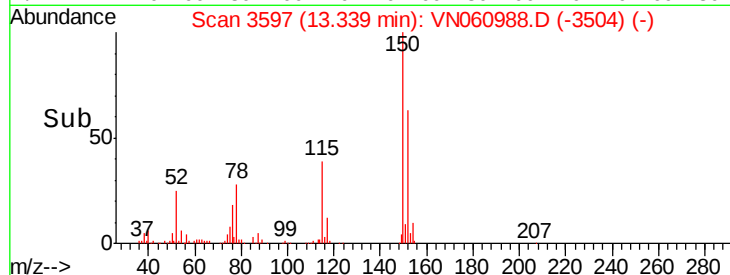


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

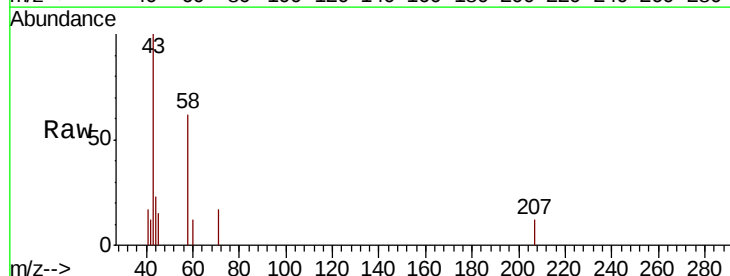
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.629 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060988.D
Acq: 16 Apr 2020 1:41

Tgt 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#



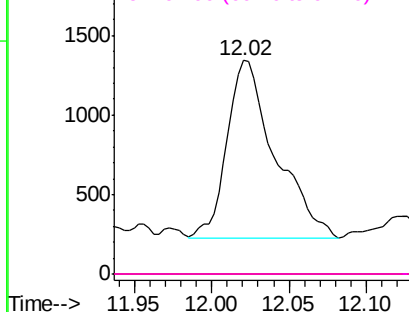
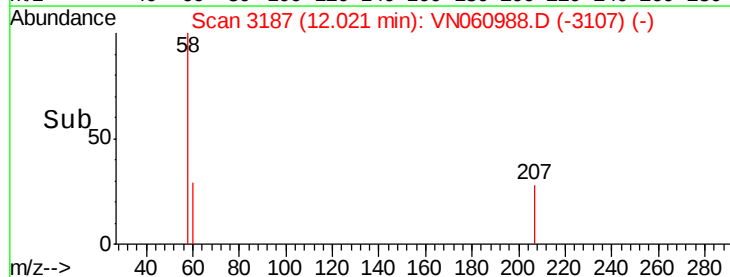
Abundance

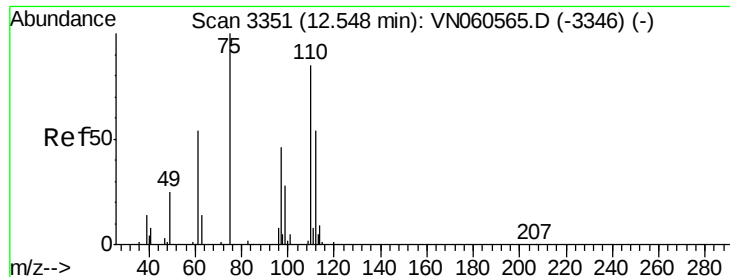
Ion 43.00 (42.70 to 43.70): VN0

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: 25.648 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

Instrument :

MSVOA_N

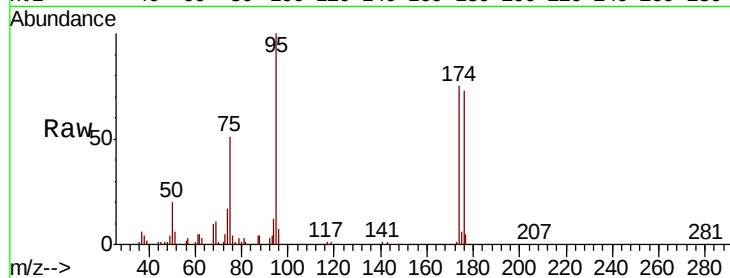
ClientSampleId :

Tot Ion: 75 Resp: 61487

Ion Ratio Lower Upper

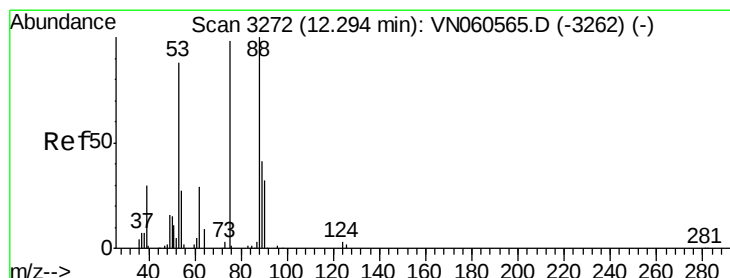
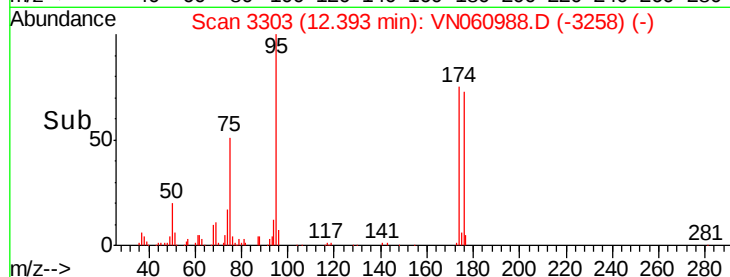
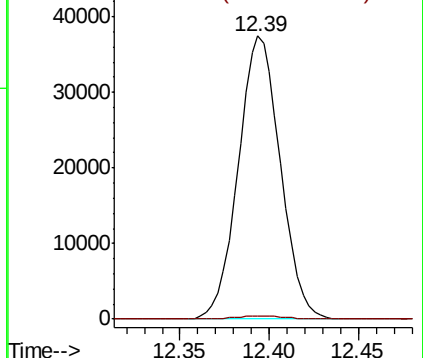
75 100

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: 65.871 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060988.D

Acq: 16 Apr 2020 1:41

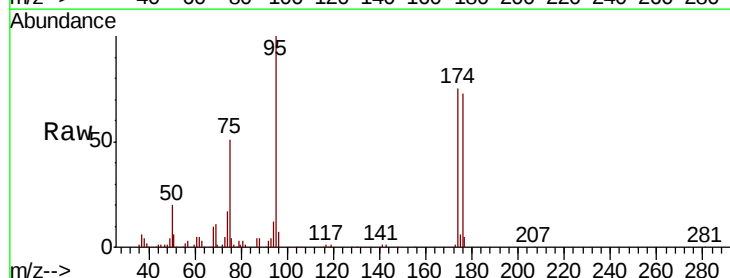
Tgt Ion: 75 Resp: 61487

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

