

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060128.D
 Acq On : 17 Feb 2020 18:31
 Operator : JC/MD
 Sample : L1544-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 18 02:08:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	173283	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	280094	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	265367	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	119590	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	107014	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
35) Dibromofluoromethane	7.57	113	85110	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
50) Toluene-d8	10.08	98	342327	50.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.98%	
62) 4-Bromofluorobenzene	12.40	95	124000	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	

Target Compounds

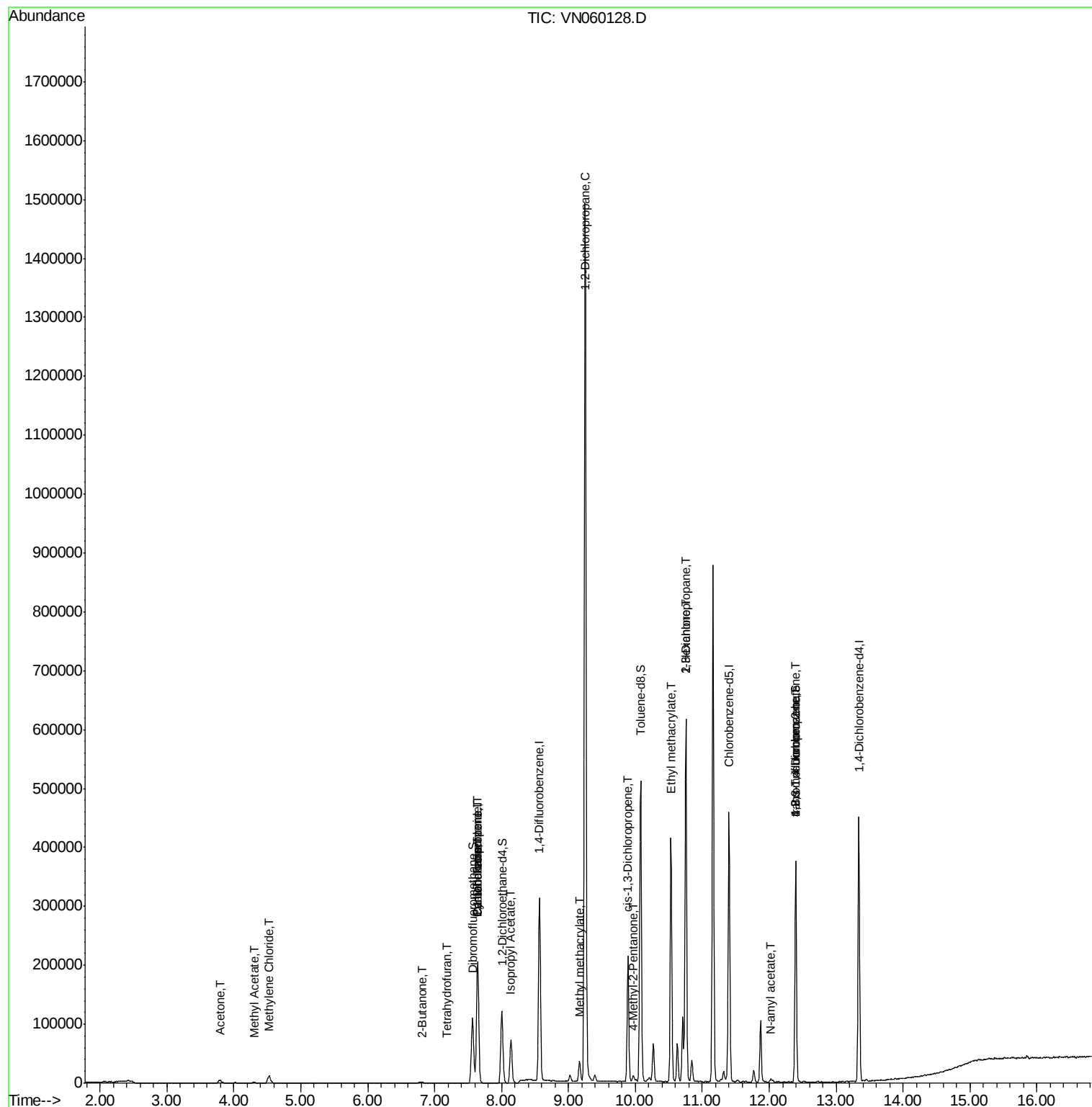
					Qvalue	
16) Acetone	3.79	43	9961	10.830	ug/l	97
18) Methyl Acetate	4.30	43	2936	1.699	ug/l #	72
20) Methylene Chloride	4.53	84	10073	5.490	ug/l	96
25) 2-Butanone	6.82	43	1877	1.623	ug/l #	46
29) Tetrahydrofuran	7.19	42	178	0.251	ug/l #	30
31) Cyclohexane	7.64	56	3614	1.212	ug/l #	19
36) 1,1-Dichloropropene	7.64	75	13096	5.048	ug/l #	49
38) Carbon Tetrachloride	7.64	117	16773	5.953	ug/l #	15
43) Isopropyl Acetate	8.14	43	86973	21.699	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1795	0.942	ug/l #	43
48) Methyl methacrylate	9.16	41	5507	3.062	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	7456	3.214	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	38805	11.927	ug/l #	60
56) Ethyl methacrylate	10.54	69	914	0.336	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	6003	1.890	ug/l #	43
59) 2-Hexanone	10.75	43	87894	49.046	ug/l #	51
74) N-amyl acetate	12.02	43	4914	1.526	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	65450	28.606	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65450	70.041	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.32	75	65	Below Cal	#	1

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

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Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 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: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :

MSVOA_N

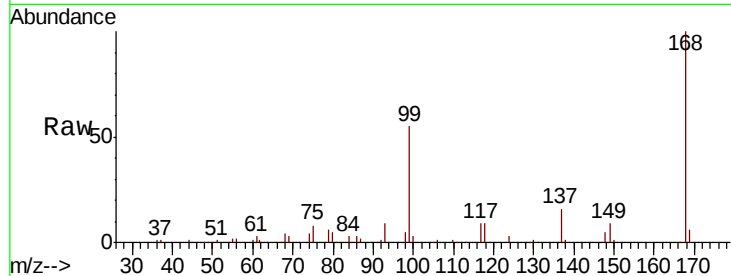
ClientSampled :

Tot Ion:168 Resp: 173283

Ion Ratio Lower Upper

168 100

99 55.1 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

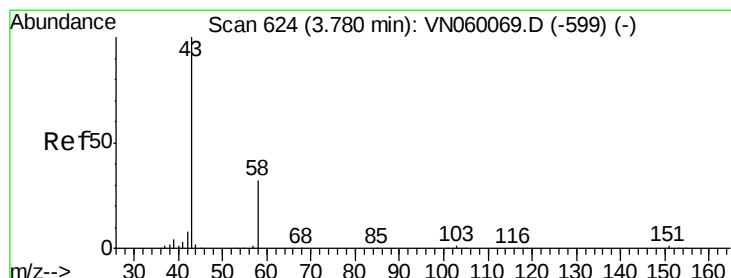
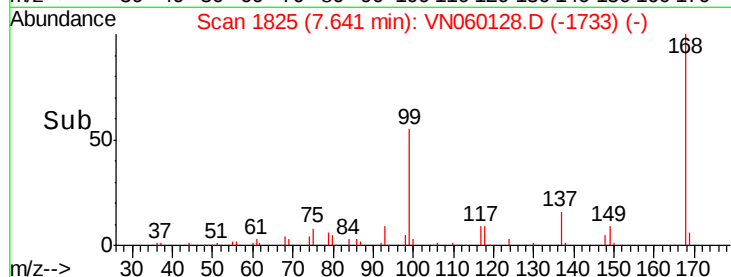
40000

20000

0

7.50 7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 10.830 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060128.D

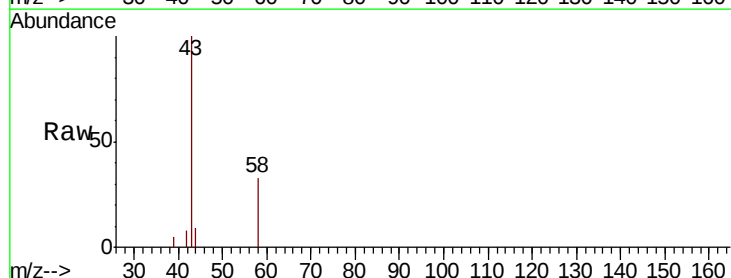
Acq: 17 Feb 2020 18:31

Tgt Ion: 43 Resp: 9961

Ion Ratio Lower Upper

43 100

58 33.4 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

4000

3000

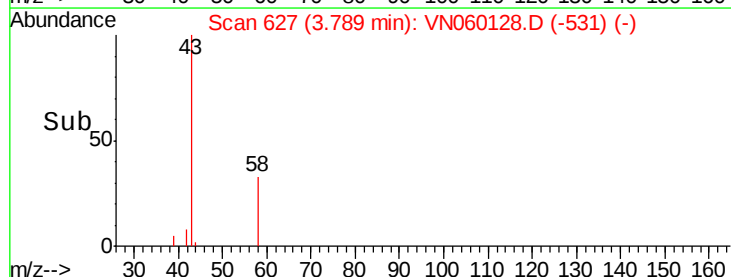
2000

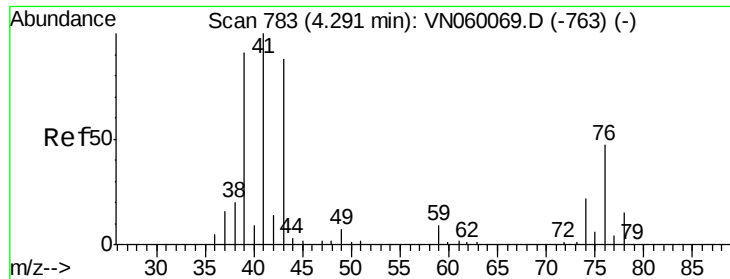
1000

0

3.70 3.75 3.80 3.85

Time-->

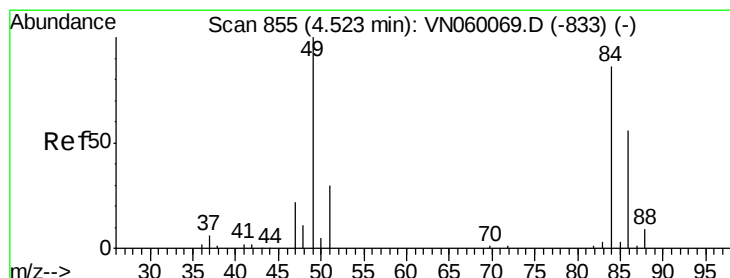
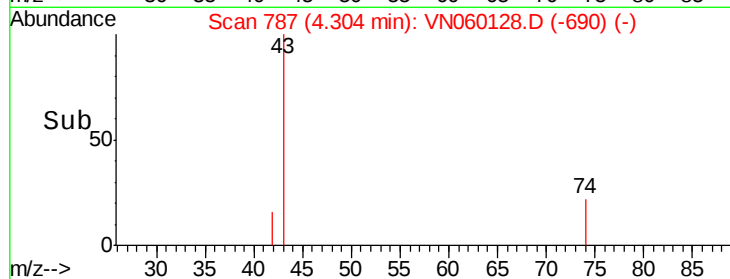
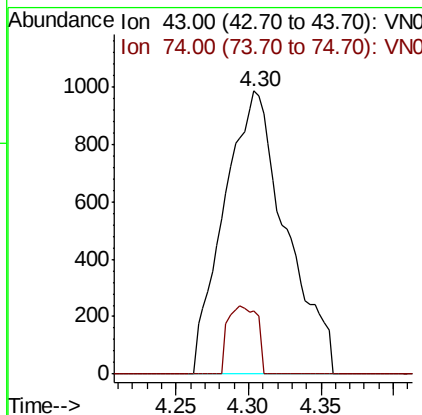
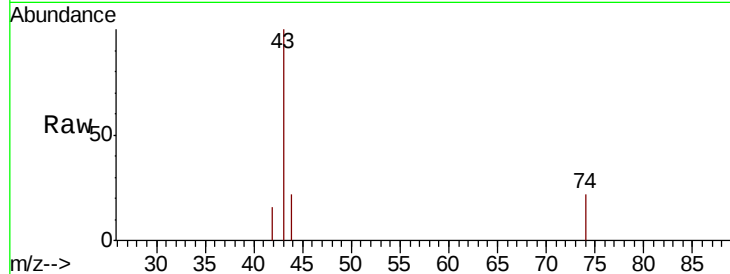




#18
Methyl Acetate
Concen: 1.699 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

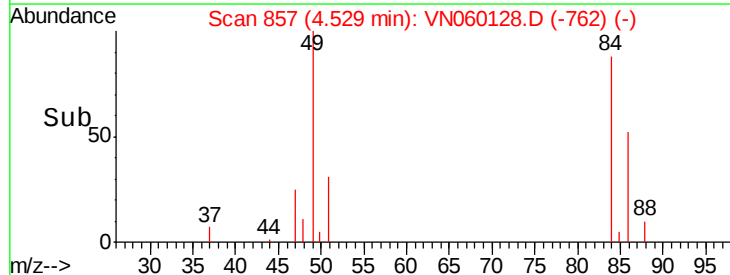
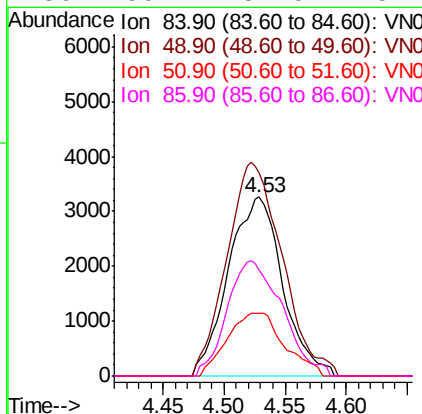
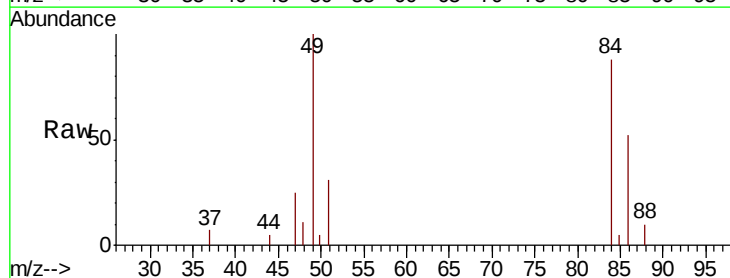
Instrument :
MSVOA_N
ClientSampled :

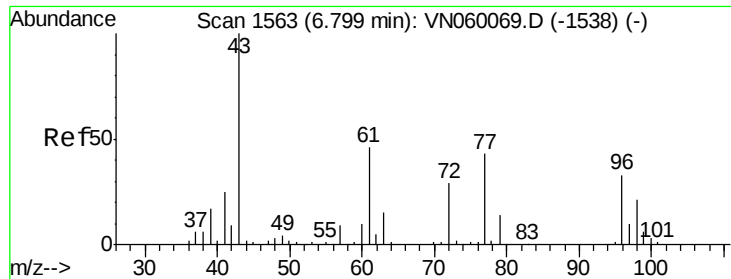
Tot Ion: 43 Resp: 2936
Ion Ratio Lower Upper
43 100
74 11.3 20.3 30.5#



#20
Methylene Chloride
Concen: 5.490 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion: 84 Resp: 10073
Ion Ratio Lower Upper
84 100
49 113.4 93.4 140.0
51 35.0 28.4 42.6
86 59.2 52.5 78.7





#25

2-Butanone

Concen: 1.623 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.03 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :

MSVOA_N

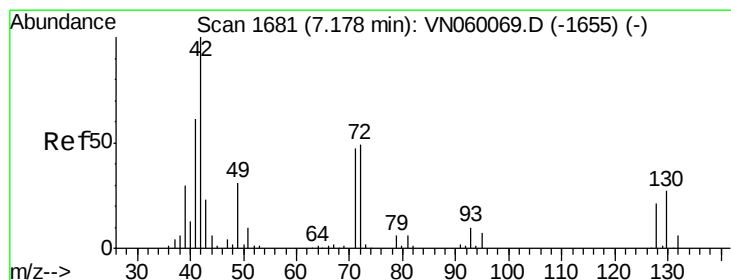
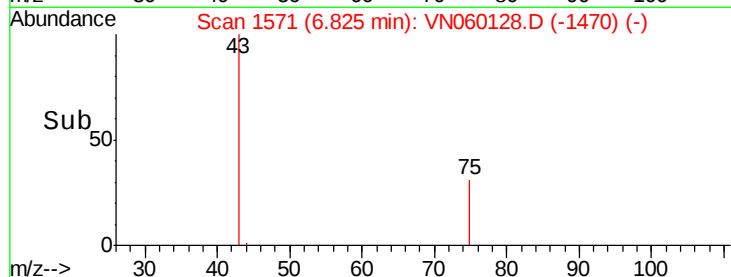
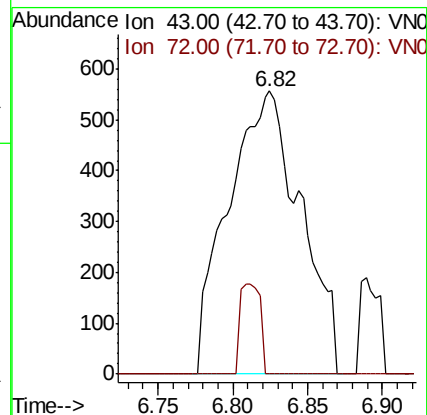
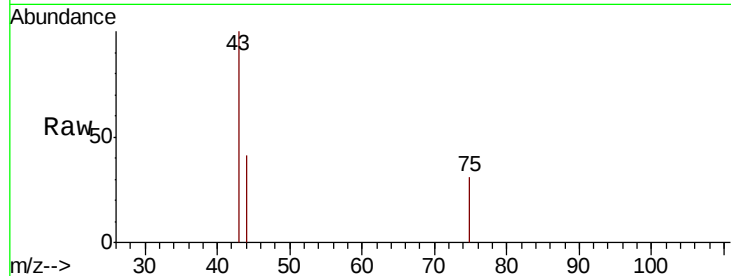
ClientSampleId :

Tot Ion: 43 Resp: 1877

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



#29

Tetrahydrofuran

Concen: 0.251 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

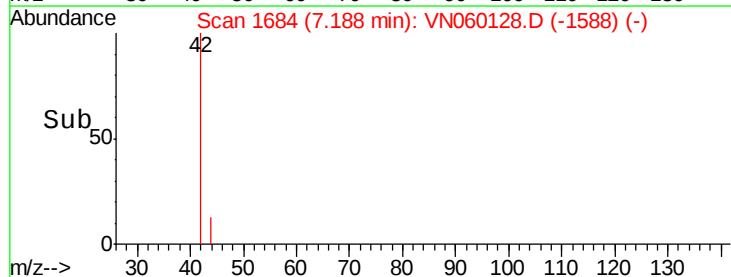
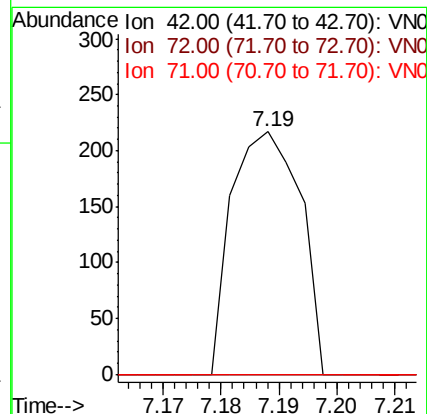
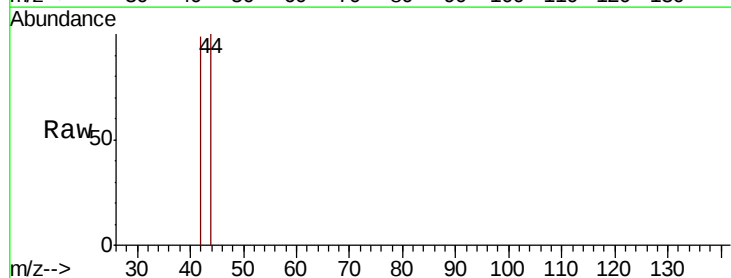
Tgt Ion: 42 Resp: 178

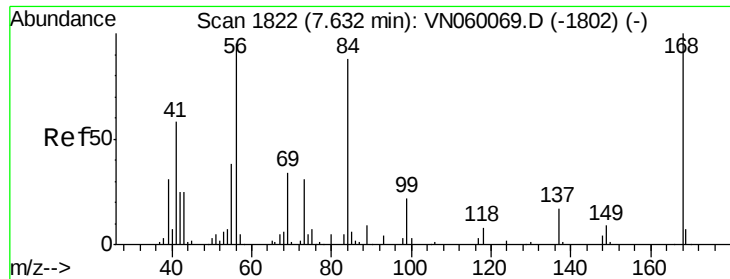
Ion Ratio Lower Upper

42 100

72 0.0 38.2 57.4#

71 0.0 36.6 54.8#

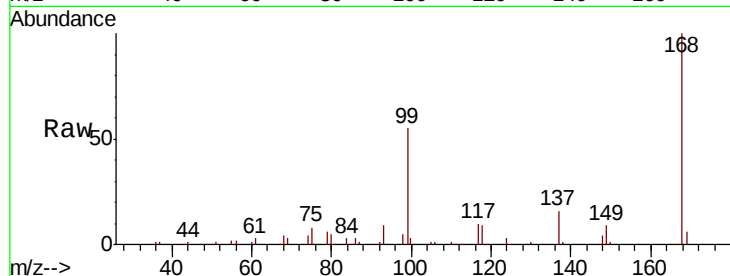




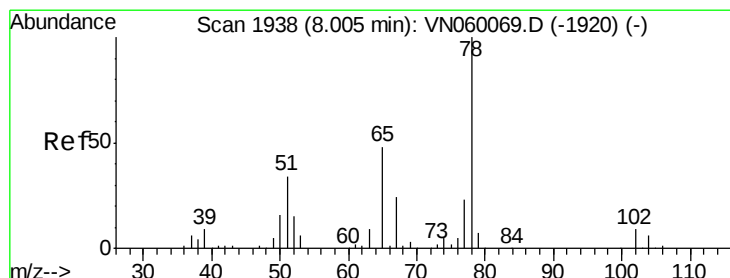
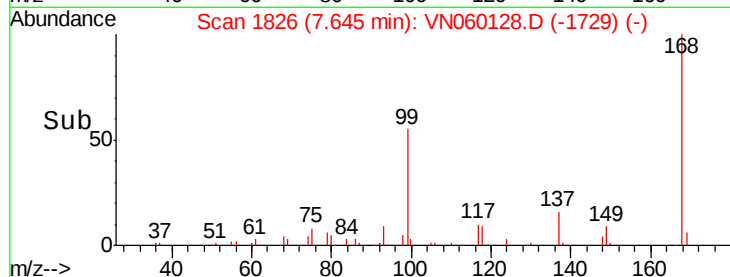
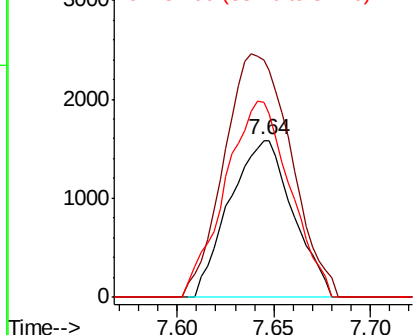
#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3614
Ion Ratio Lower Upper
56 100
69 150.9 28.3 42.5#
84 124.3 72.6 108.8#

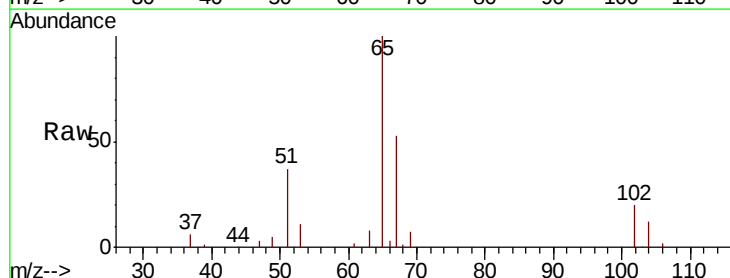


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

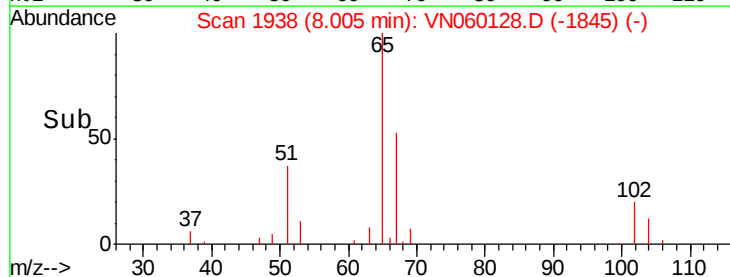
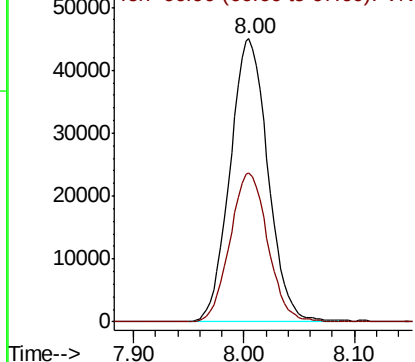


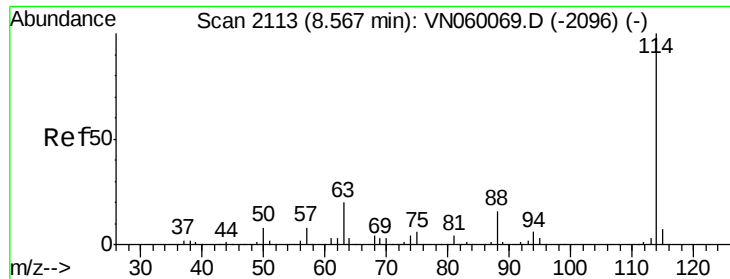
#33
1,2-Dichloroethane-d4
Concen: 50.752 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion: 65 Resp: 107014
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.0



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

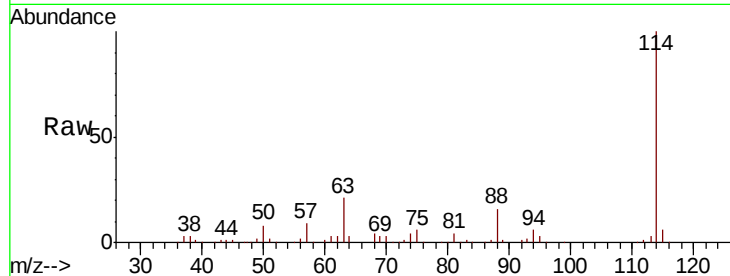




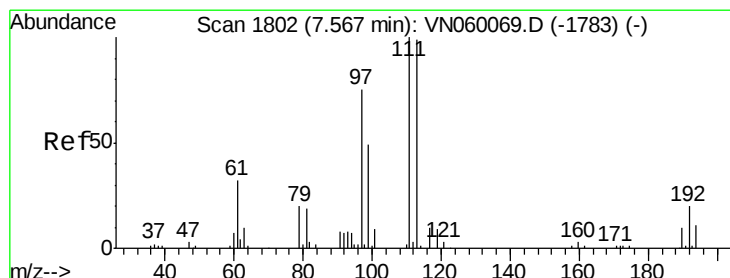
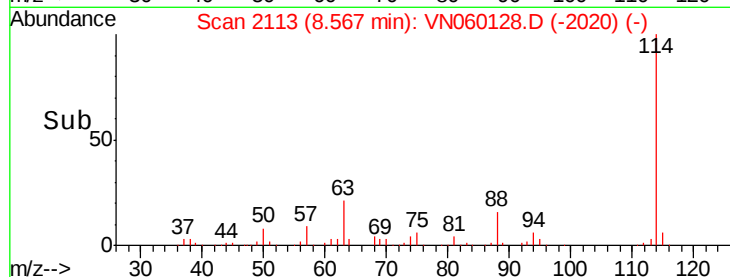
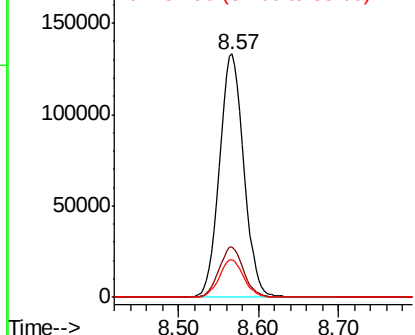
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 280094
Ion Ratio Lower Upper
114 100
63 20.8 0.0 40.0
88 15.5 0.0 31.6

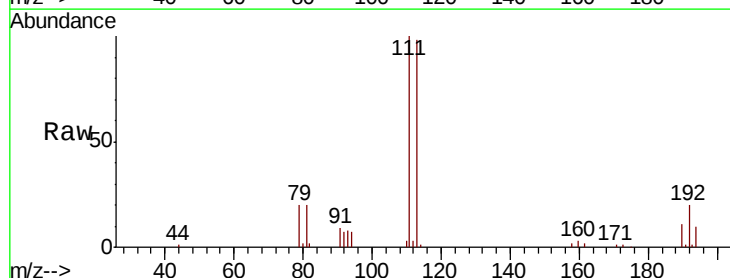


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

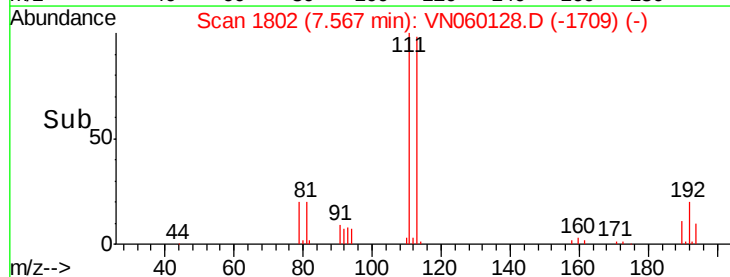
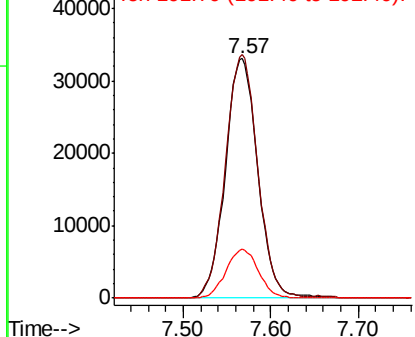


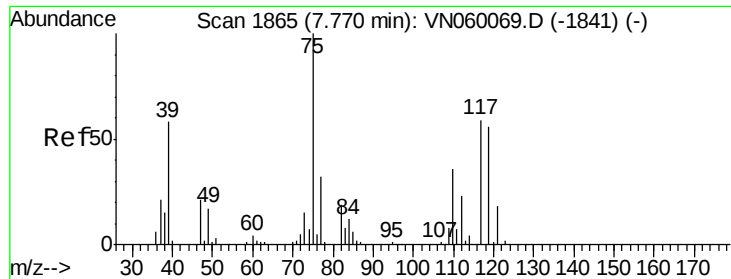
#35
Dibromofluoromethane
Concen: 49.433 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion:113 Resp: 85110
Ion Ratio Lower Upper
113 100
111 100.9 81.4 122.2
192 20.4 16.2 24.2



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: 5.048 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :
MSVOA_N
ClientSampled :

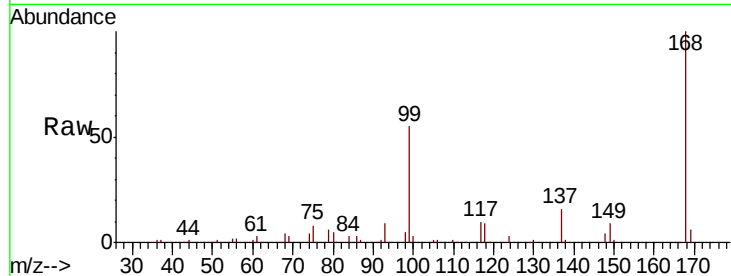
Tot Ion: 75 Resp: 13096

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.3#

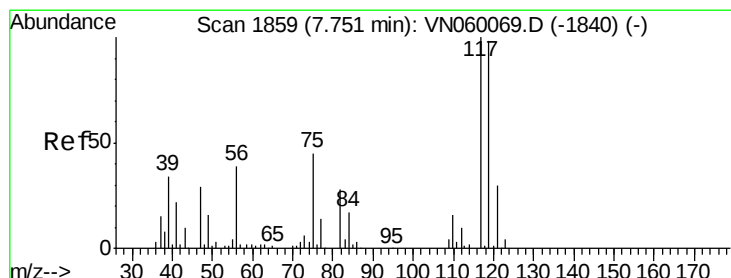
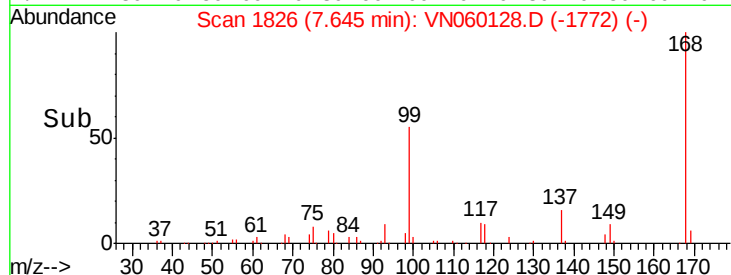
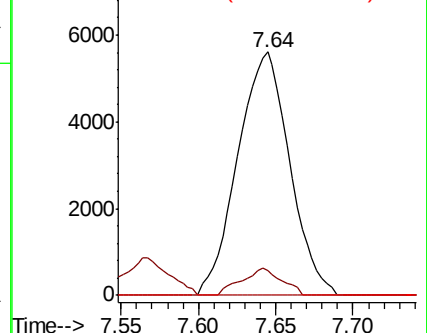
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060128.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060128.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060128.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 5.953 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

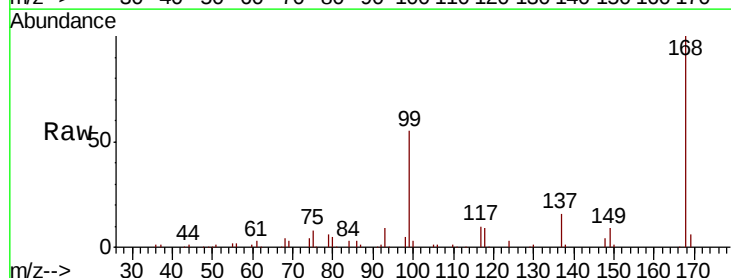
Tgt Ion: 117 Resp: 16773

Ion Ratio Lower Upper

117 100

119 4.8 78.2 117.4#

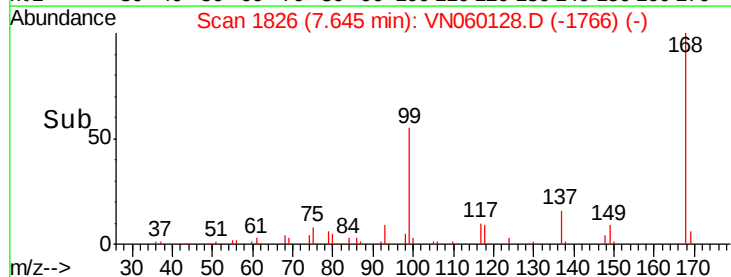
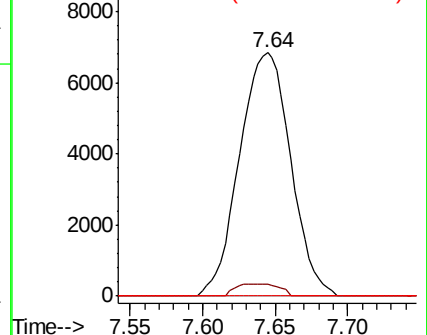
121 0.0 24.2 36.2#

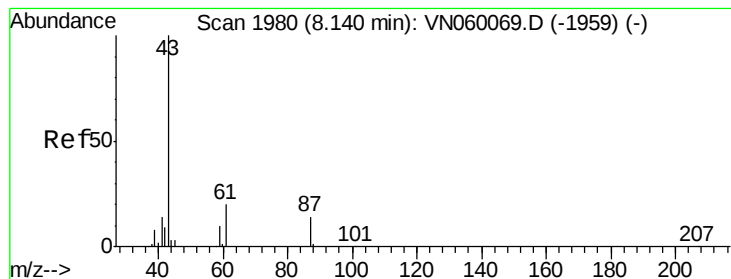


Abundance Ion 116.80 (116.50 to 117.50): VN060128.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060128.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060128.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 21.699 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

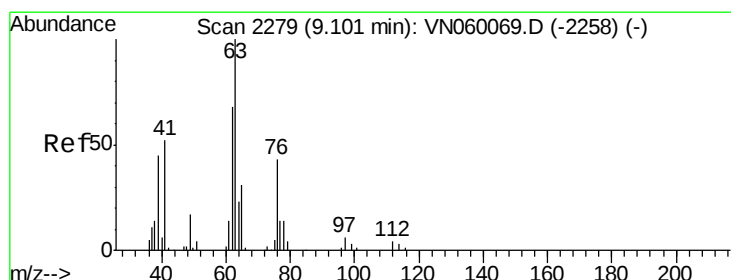
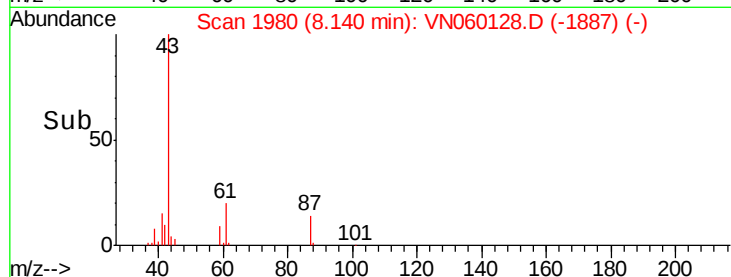
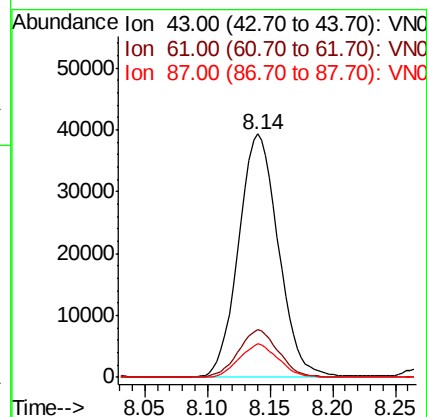
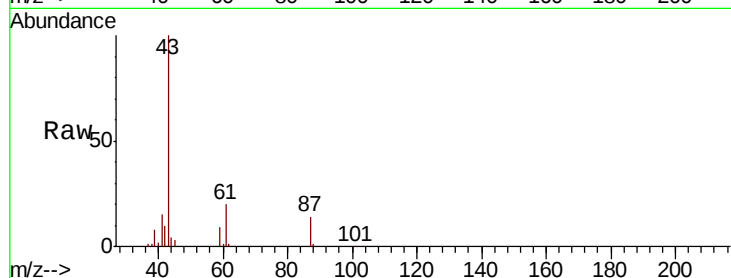
Tot Ion: 43 Resp: 86973

Ion Ratio Lower Upper

43 100

61 19.6 21.8 32.6#

87 13.4 11.4 17.2



#45

1,2-Dichloropropane

Concen: 0.942 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060128.D

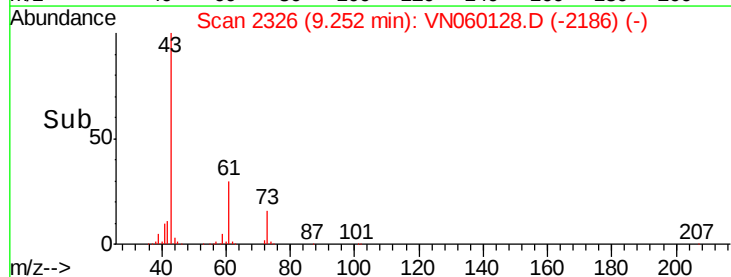
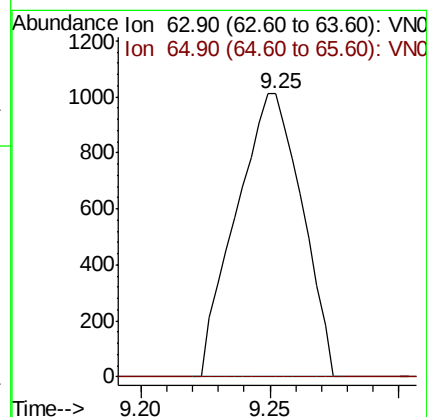
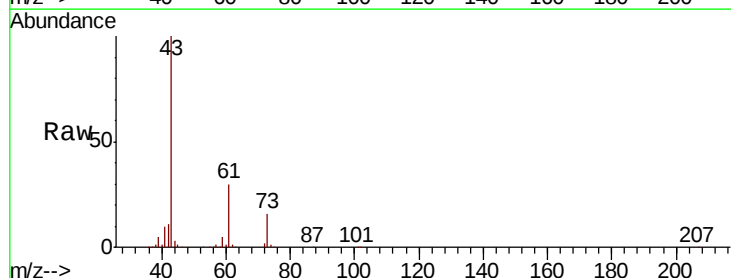
Acq: 17 Feb 2020 18:31

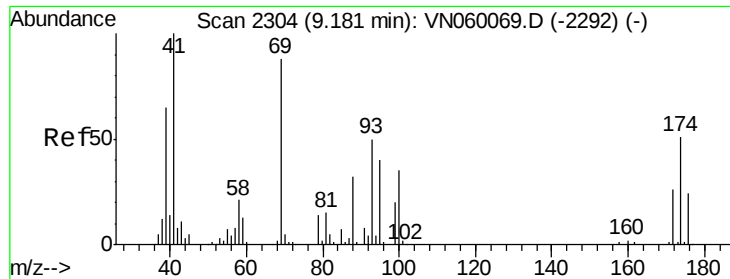
Tgt Ion: 63 Resp: 1795

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

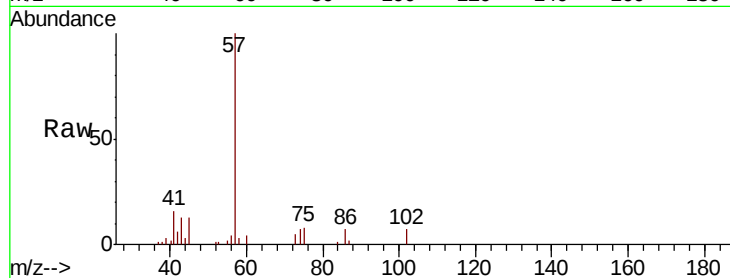




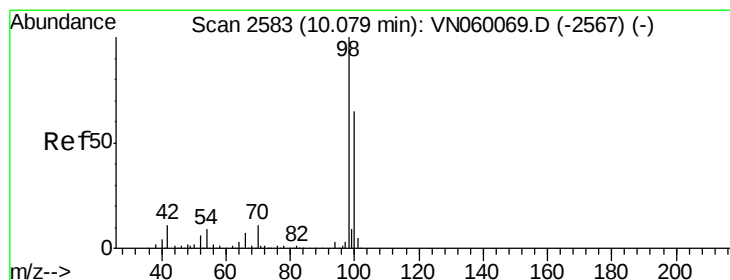
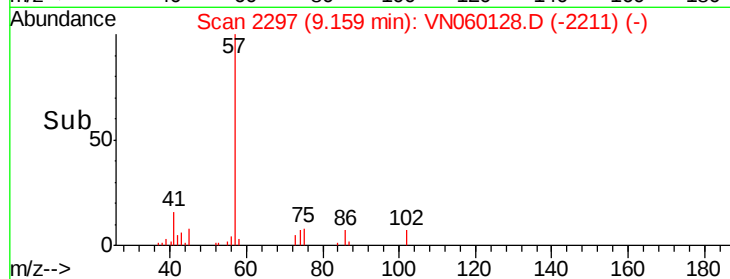
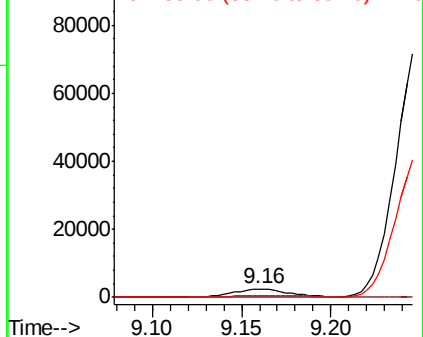
#48
Methyl methacrylate
Concen: 3.062 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5507
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

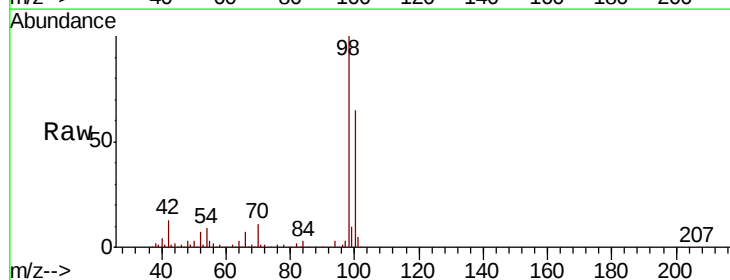


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

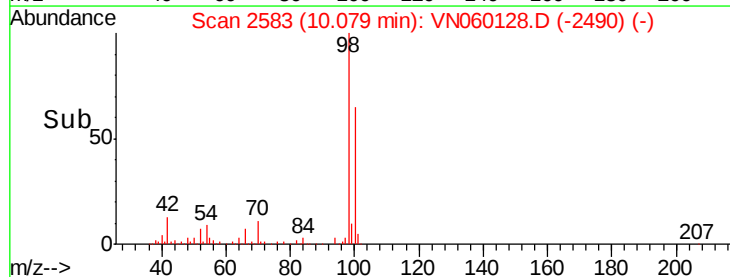
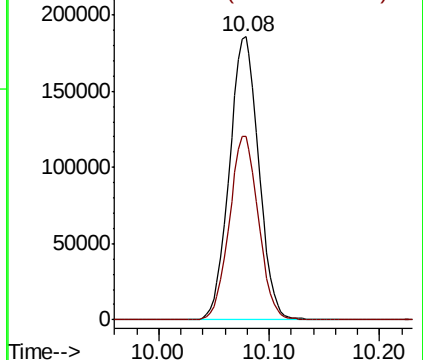


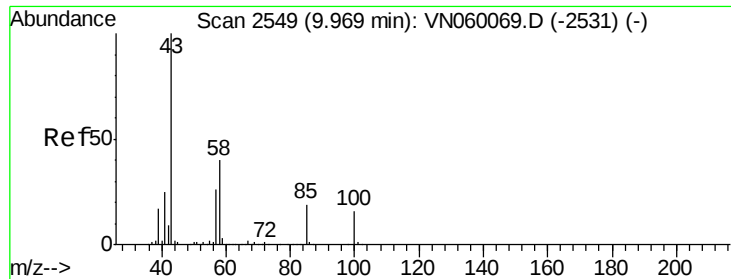
#50
Toluene-d8
Concen: 50.490 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion: 98 Resp: 342327
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 3.214 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :

MSVOA_N

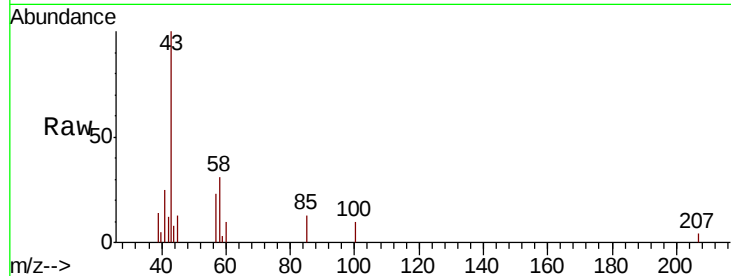
ClientSampled :

Tot Ion: 43 Resp: 7456

Ion Ratio Lower Upper

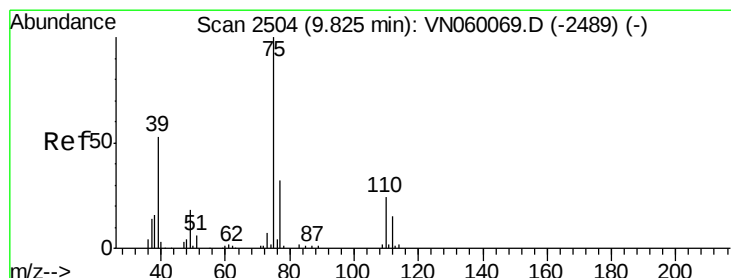
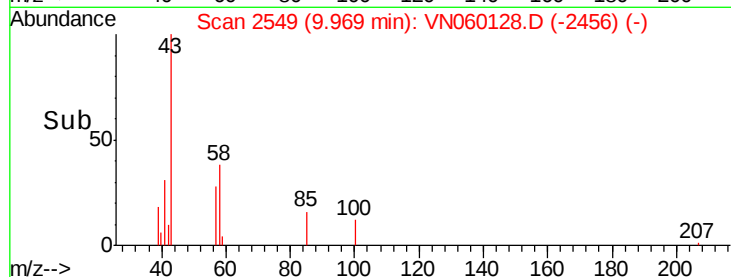
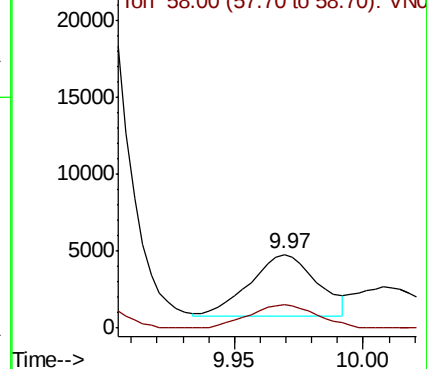
43 100

58 37.6 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2531) (-)



#54

cis-1,3-Dichloropropene

Concen: 11.927 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

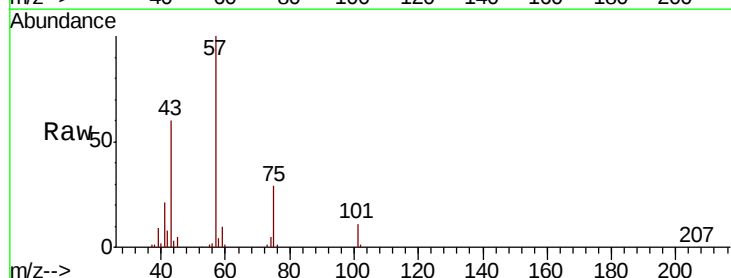
Tgt Ion: 75 Resp: 38805

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

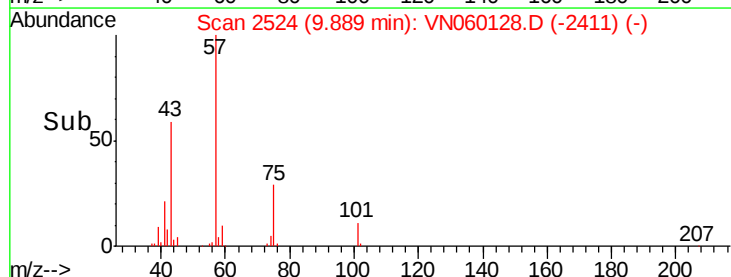
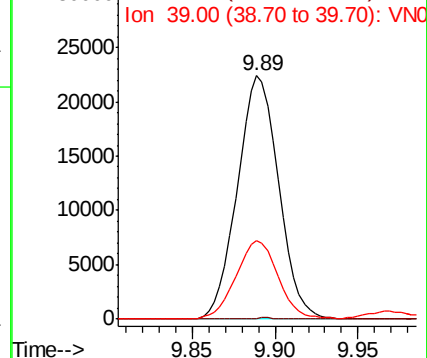
39 32.3 42.2 63.4#

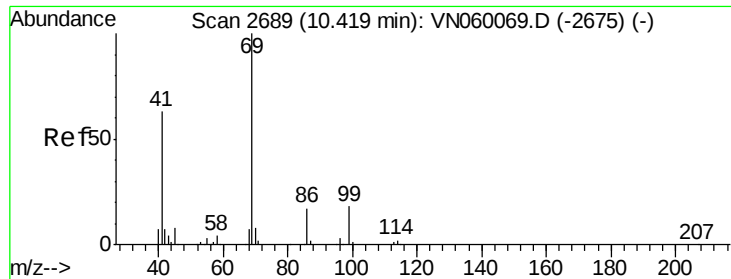


Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060069.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060069.D (-2489) (-)





#56

Ethyl methacrylate

Concen: 0.336 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :

MSVOA_N

ClientSampled :

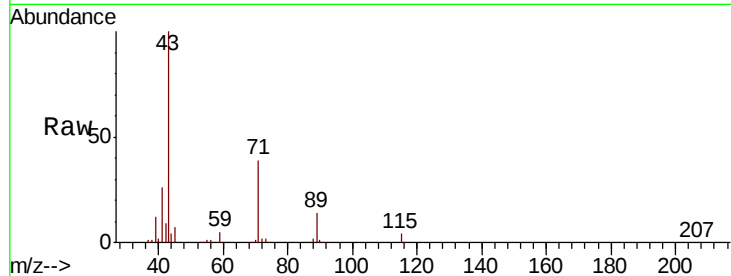
Tot Ion: 69 Resp: 914

Ion Ratio Lower Upper

69 100

41 8691.7 51.1 76.7#

39 3872.9 33.8 50.8#

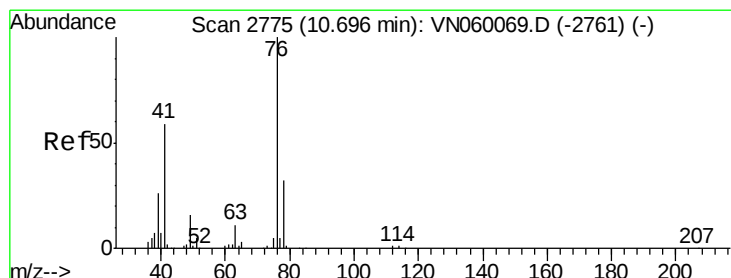
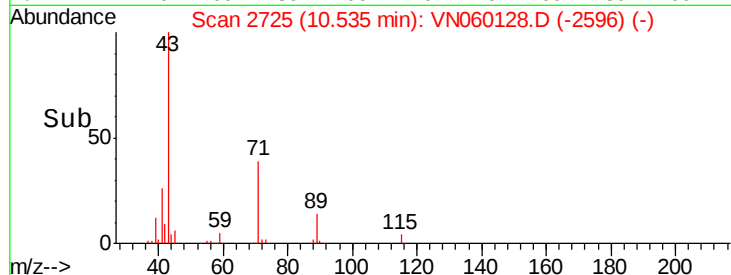
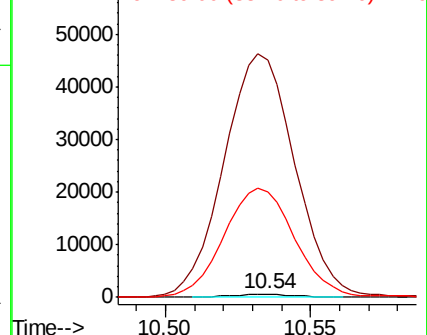


Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.890 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060128.D

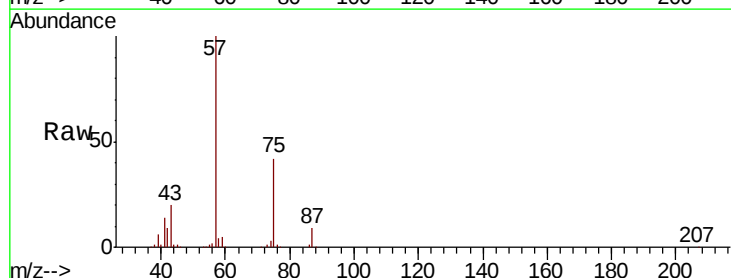
Acq: 17 Feb 2020 18:31

Tgt Ion: 76 Resp: 6003

Ion Ratio Lower Upper

76 100

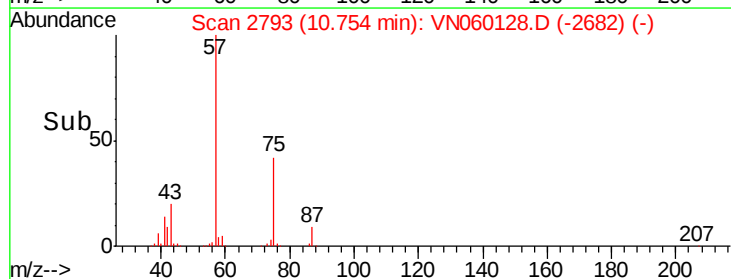
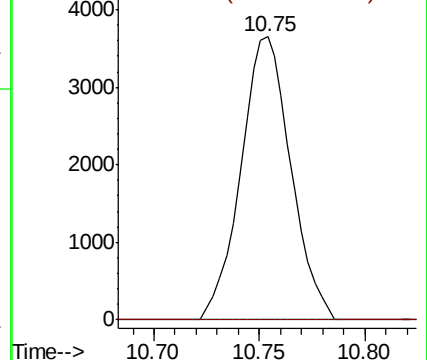
78 0.0 25.7 38.5#

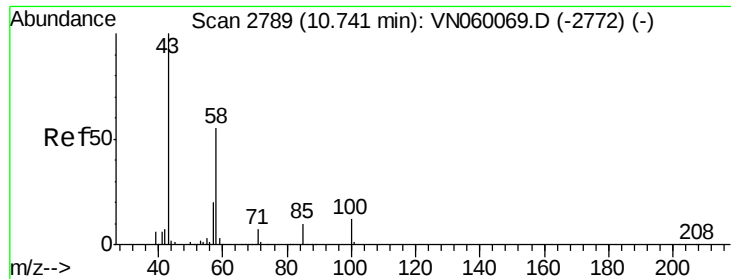


Abundance

Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

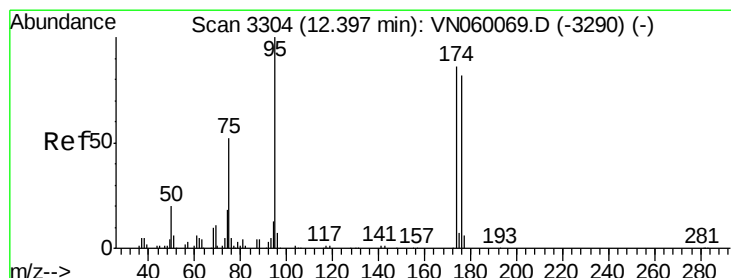
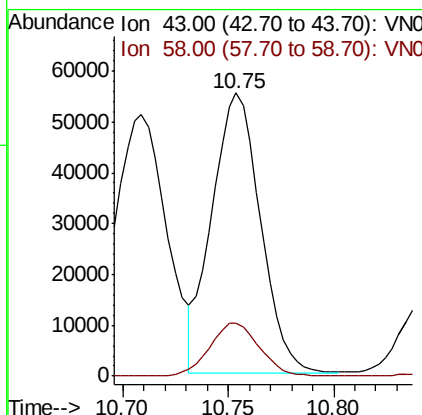
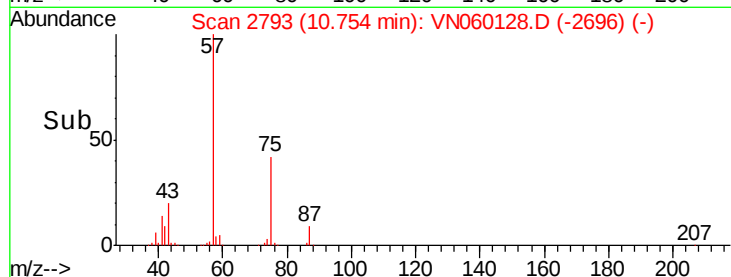
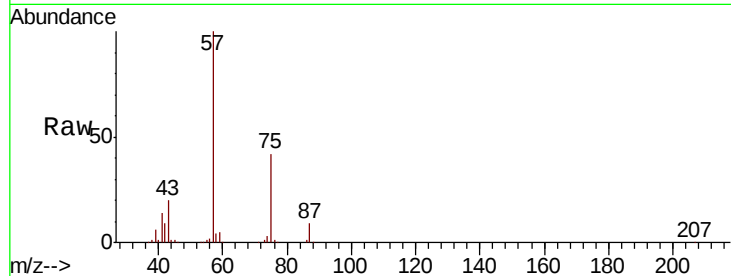




#59
2-Hexanone
Concen: 49.046 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

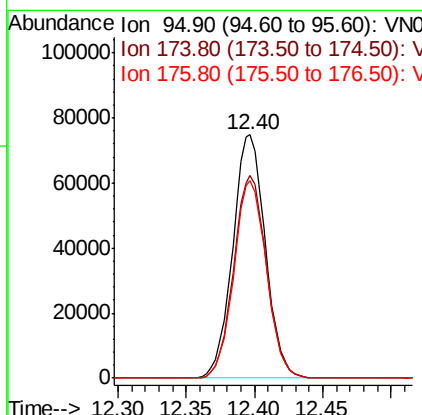
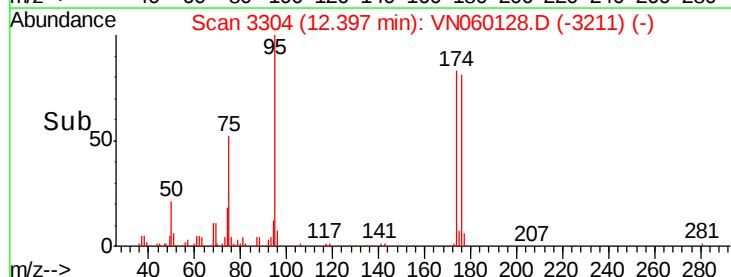
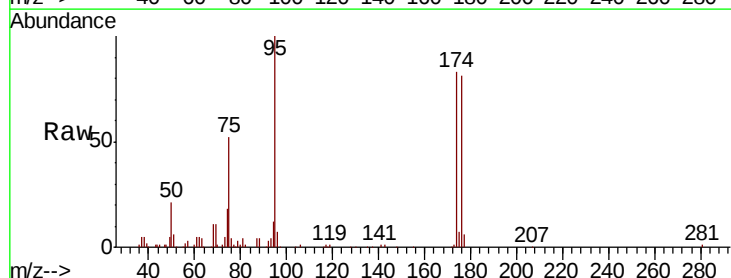
Instrument :
MSVOA_N
ClientSampled :

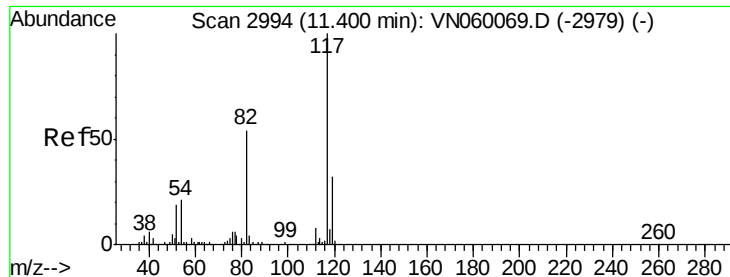
Tot Ion: 43 Resp: 87894
Ion Ratio Lower Upper
43 100
58 19.4 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.772 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion: 95 Resp: 124000
Ion Ratio Lower Upper
95 100
174 83.7 0.0 169.8
176 81.2 0.0 164.8

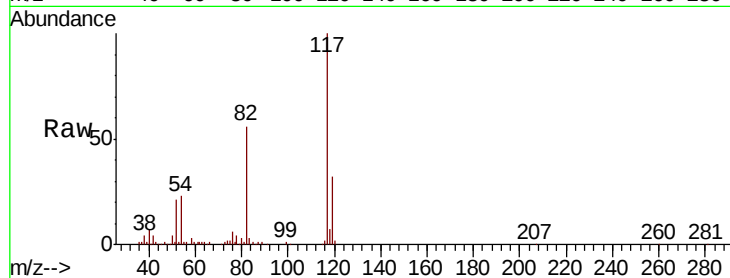




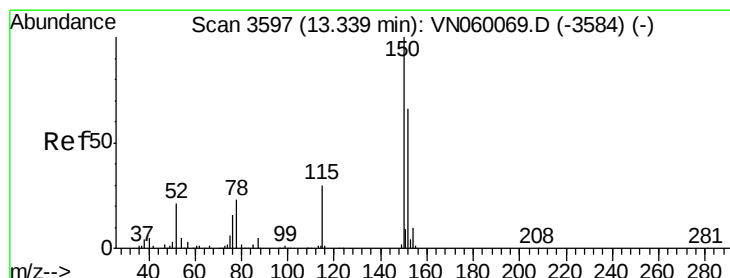
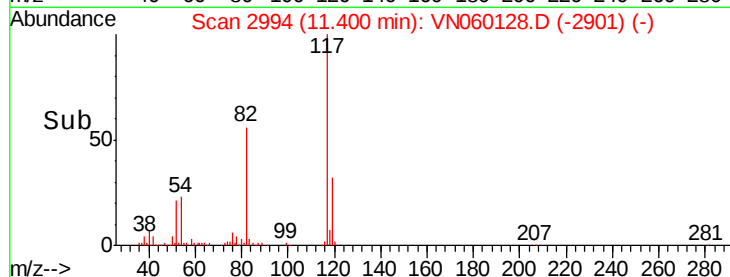
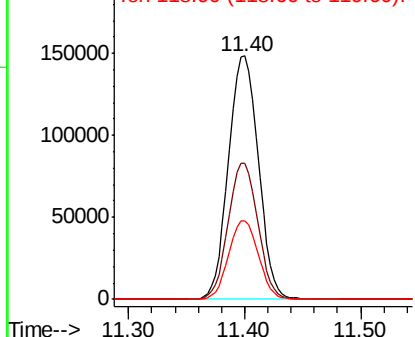
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 265367
Ion Ratio Lower Upper
117 100
82 55.6 43.4 65.0
119 32.5 25.8 38.6

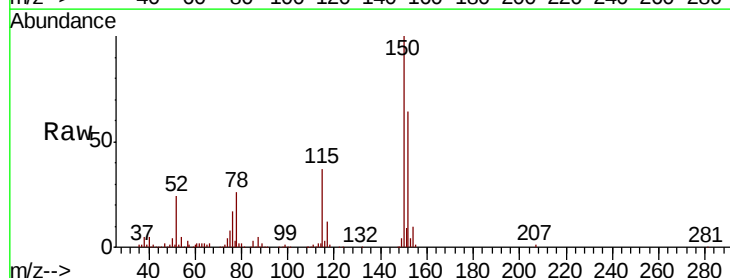


Abundance Ion 116.90 (116.60 to 117.60): V
200000 Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

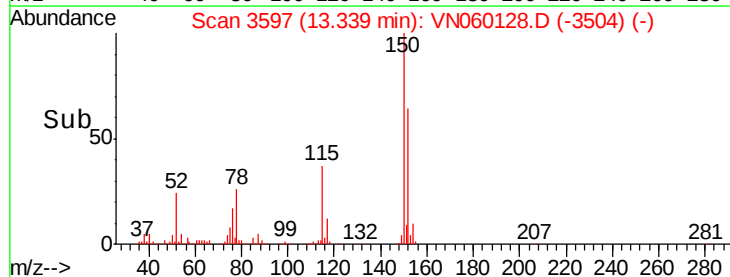
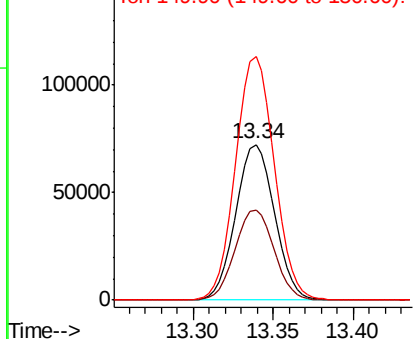


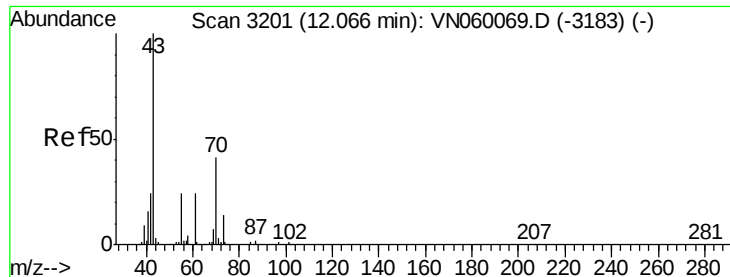
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion:152 Resp: 119590
Ion Ratio Lower Upper
152 100
115 58.3 28.9 86.8
150 156.5 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): V
150000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.526 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060128.D

Acq: 17 Feb 2020 18:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4914

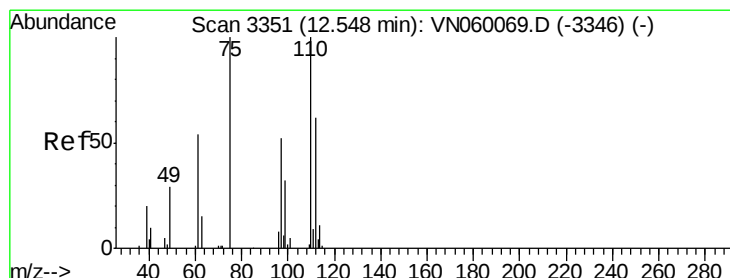
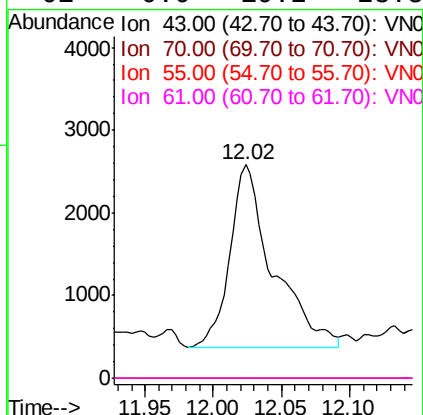
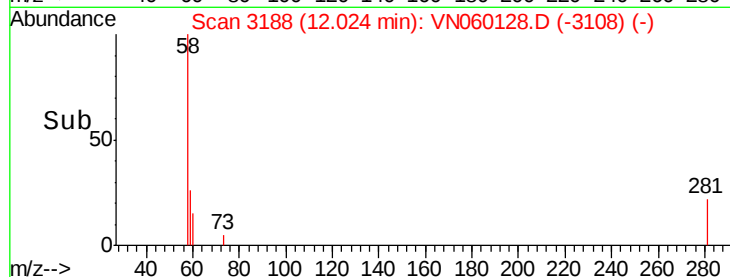
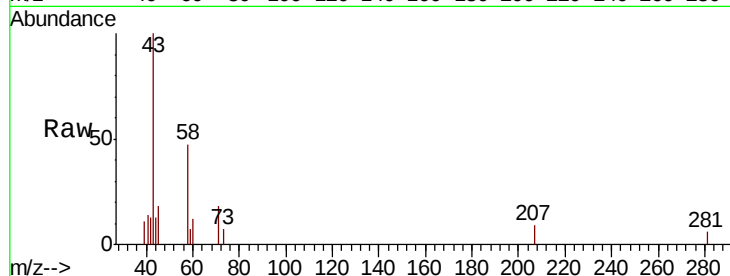
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#



#76

1,2,3-Trichloropropane

Concen: 28.606 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060128.D

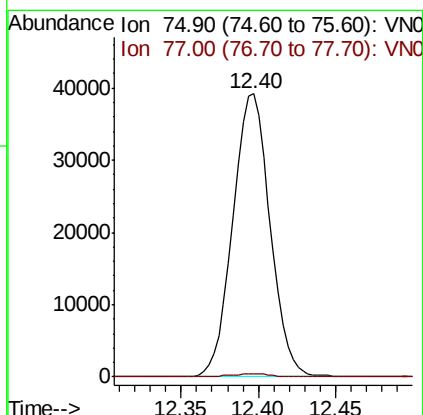
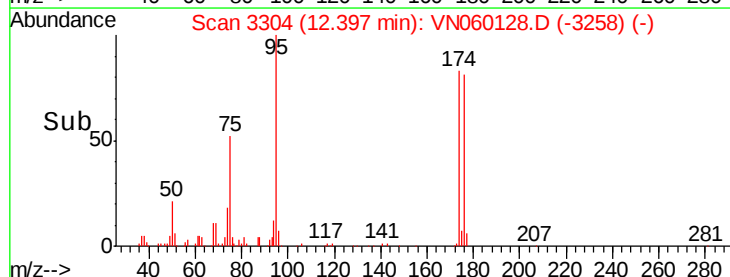
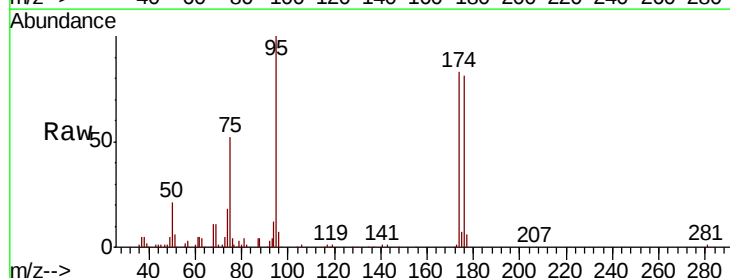
Acq: 17 Feb 2020 18:31

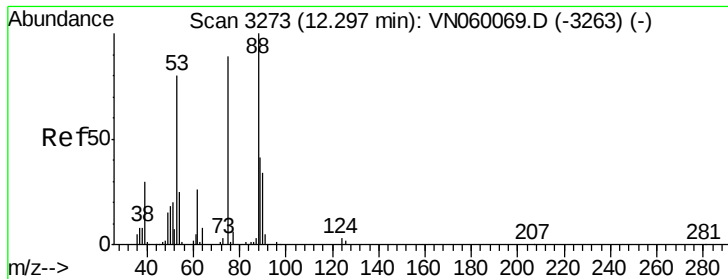
Tgt Ion: 75 Resp: 65450

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

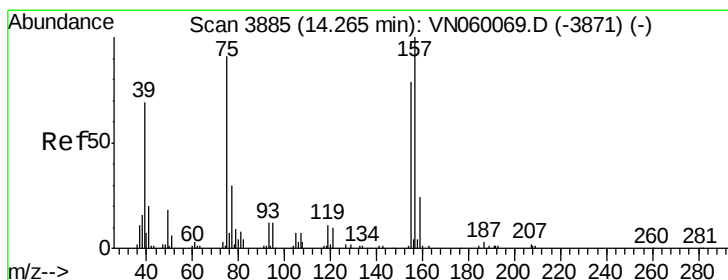
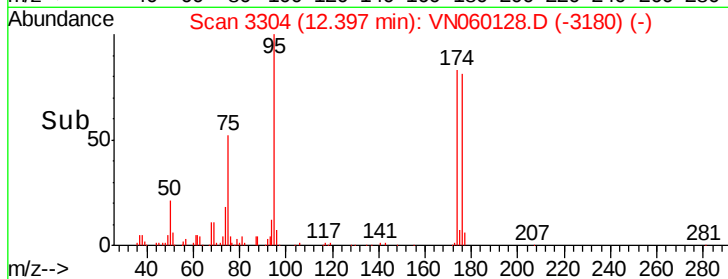
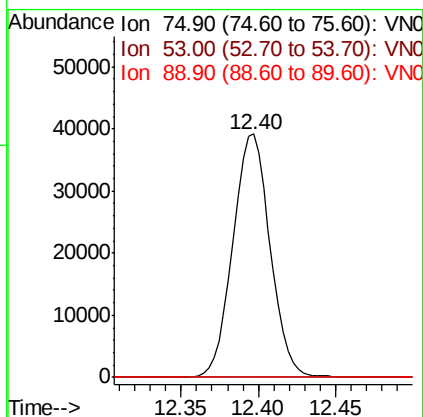
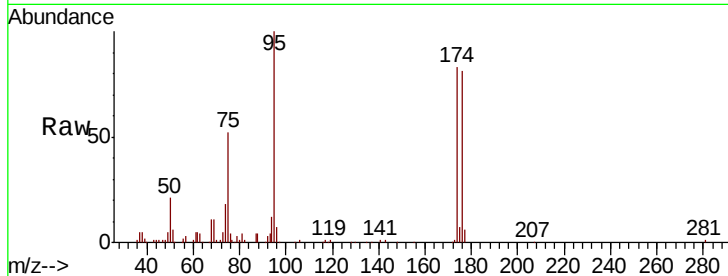




#81
trans-1,4-Dichloro-2-butene
Concen: 70.041 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 65450
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.0 55.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.32 min Scan# 3902
Delta R.T. 0.06 min
Lab File: VN060128.D
Acq: 17 Feb 2020 18:31

Tgt Ion: 75 Resp: 65
Ion Ratio Lower Upper
75 100
155 0.0 43.0 129.0#
157 0.0 54.9 164.5#

