

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020720\
 Data File : VN060029.D
 Acq On : 7 Feb 2020 14:15
 Operator : JC/MD
 Sample : PB126640ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 23:14:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	189222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	294748	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	280707	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127372	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	109768	52.24	ug/l	0.00
Spiked Amount						
			Recovery	=	104.48%	
35) Dibromofluoromethane	7.57	113	89558	50.95	ug/l	0.00
Spiked Amount						
			Recovery	=	101.90%	
50) Toluene-d8	10.08	98	358278	52.61	ug/l	0.00
Spiked Amount						
			Recovery	=	105.22%	
62) 4-Bromofluorobenzene	12.40	95	130642	53.21	ug/l	0.00
Spiked Amount						
			Recovery	=	106.42%	

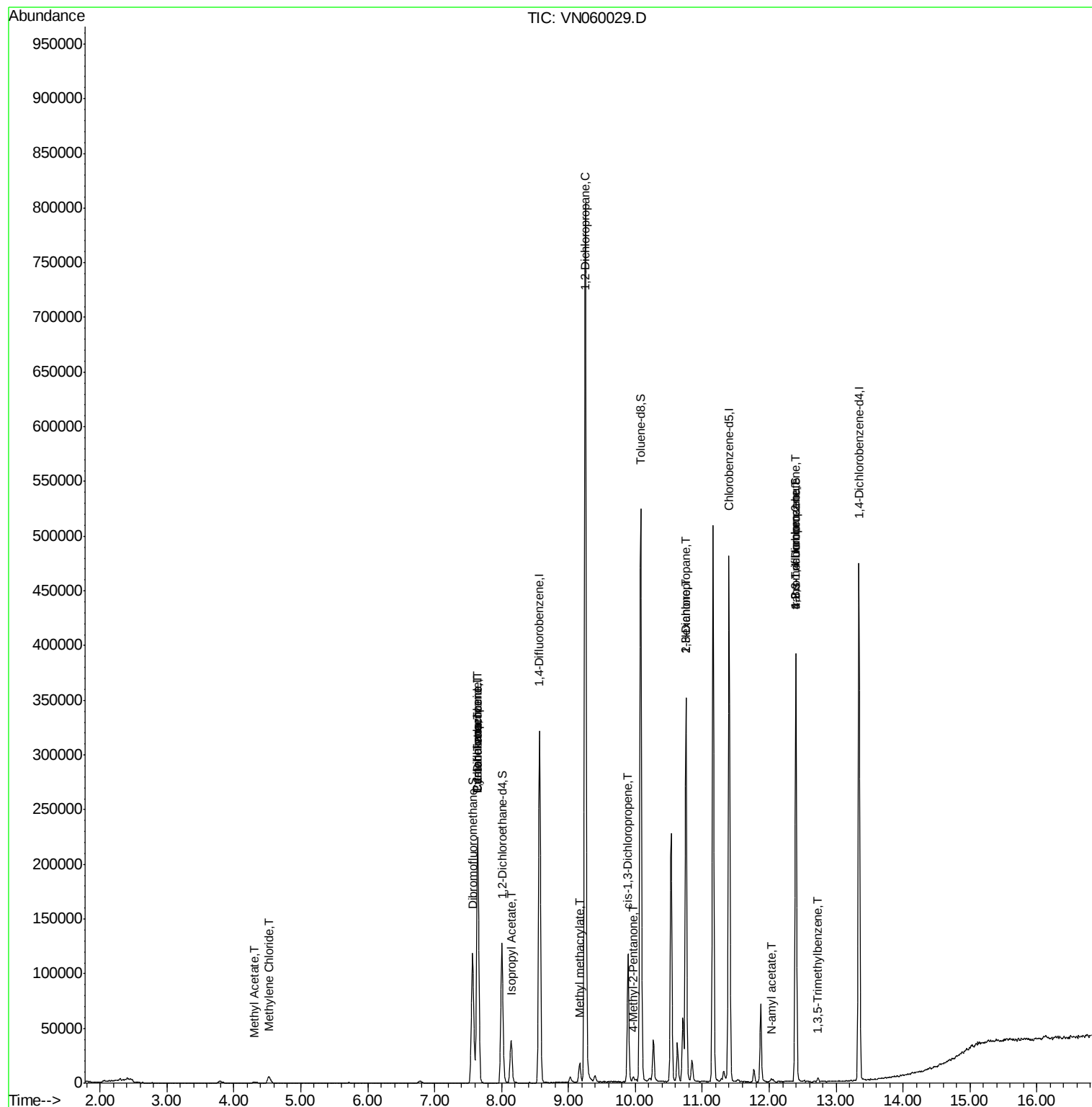
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	1781	Below Cal		98
18) Methyl Acetate	4.30	43	1268	0.517	ug/l #	54
20) Methylene Chloride	4.52	84	4839	1.284	ug/l #	85
31) Cyclohexane	7.64	56	4033	1.297	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12863	5.011	ug/l #	51
38) Carbon Tetrachloride	7.64	117	17394	6.230	ug/l #	16
43) Isopropyl Acetate	8.14	43	47005	11.352	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	979	0.517	ug/l #	44
48) Methyl methacrylate	9.16	41	2646	1.429	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2654	1.109	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	21989	6.951	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3655	1.202	ug/l #	42
59) 2-Hexanone	10.75	43	50673	28.735	ug/l #	54
74) N-amyl acetate	12.03	43	2863	0.790	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67726	31.595	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2186	0.278	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	67726	67.851	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	119	Below Cal	#	6

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

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QLast Update : Sat Jan 18 03:09:32 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

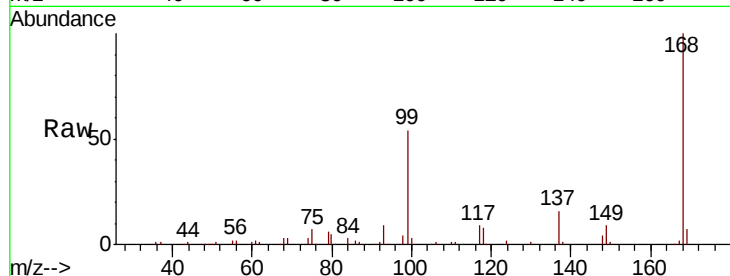
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 189222

Ion Ratio Lower Upper

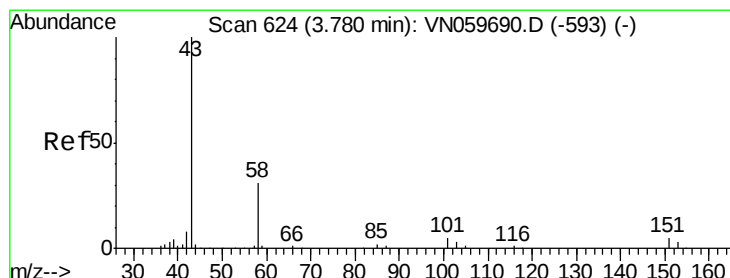
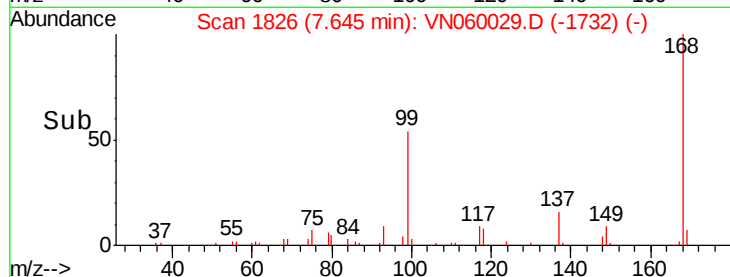
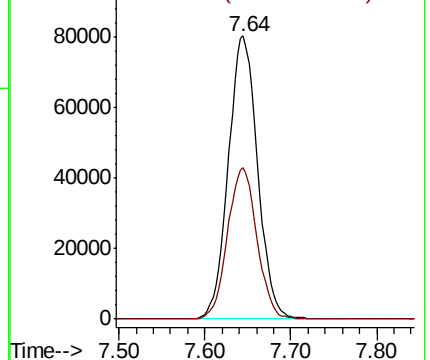
168 100

99 53.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060029.D

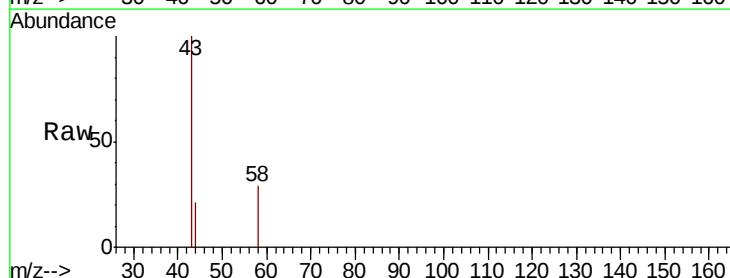
Acq: 7 Feb 2020 14:15

Tgt Ion: 43 Resp: 1781

Ion Ratio Lower Upper

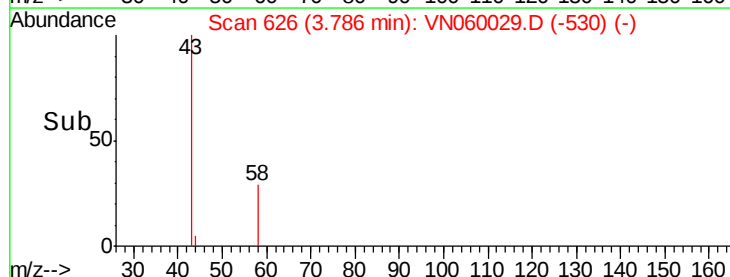
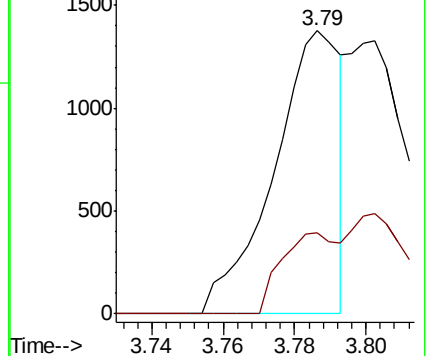
43 100

58 28.6 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

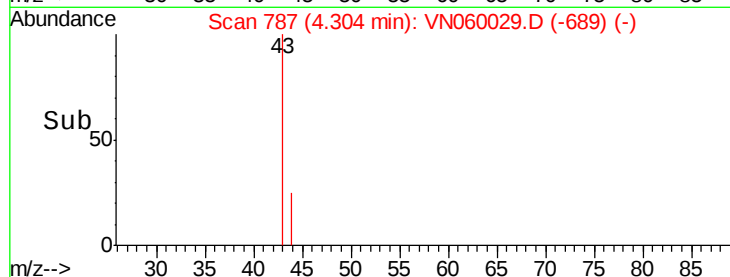
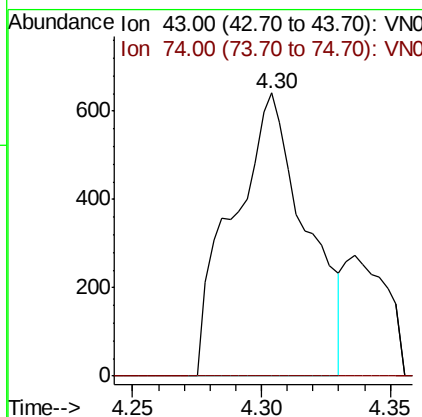
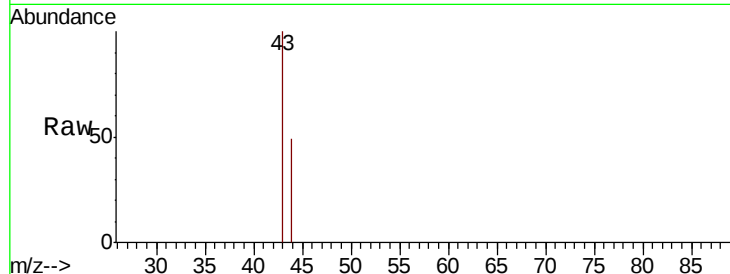




#18
Methyl Acetate
Concen: 0.517 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

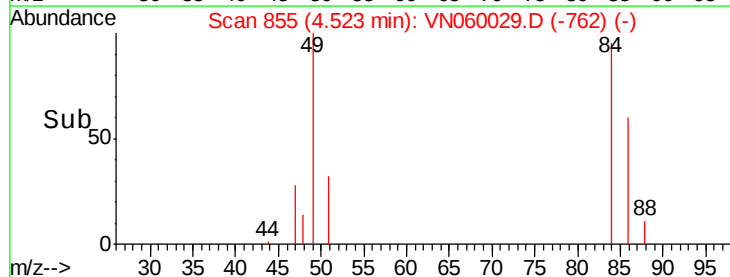
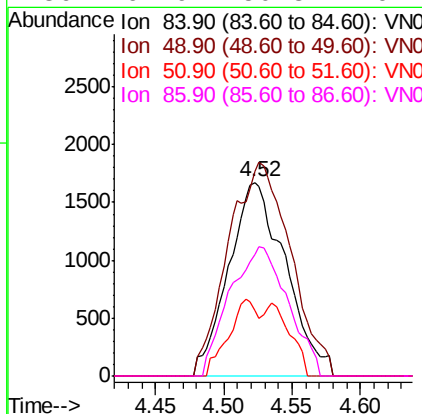
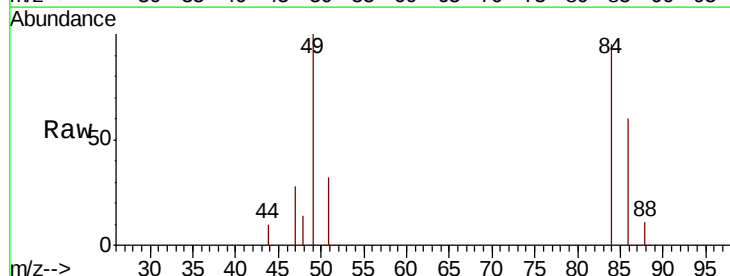
Instrument :
MSVOA_N
ClientSampled :

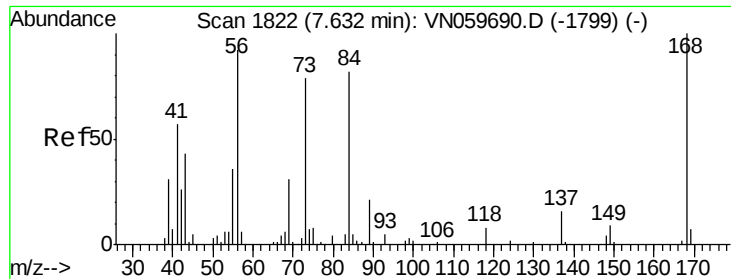
Tot Ion: 43 Resp: 1268
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.284 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Tgt Ion: 84 Resp: 4839
Ion Ratio Lower Upper
84 100
49 105.6 106.6 160.0#
51 33.7 31.9 47.9
86 62.9 50.8 76.2

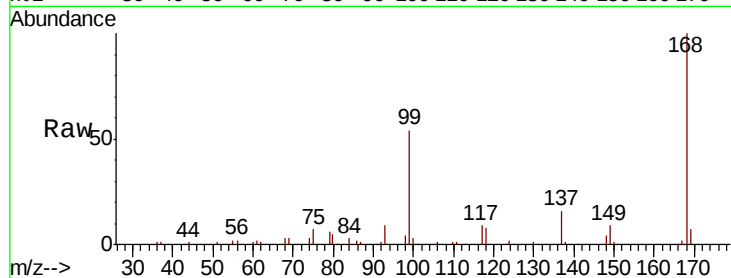




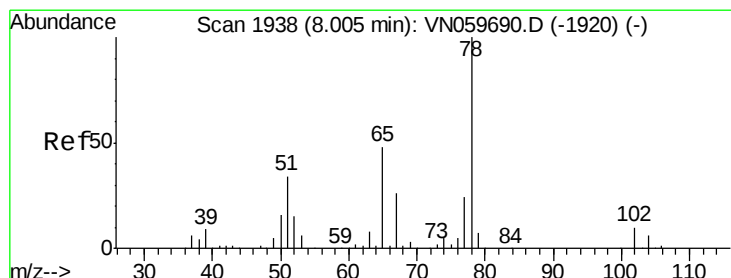
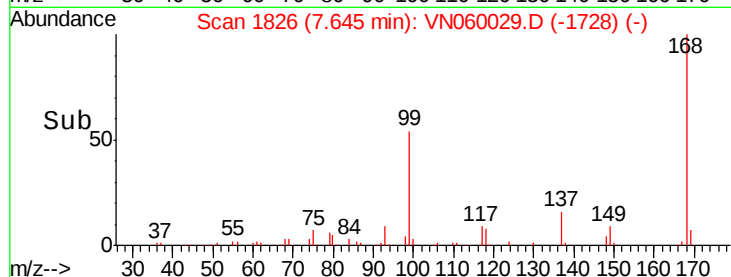
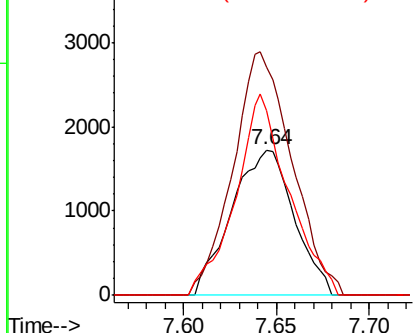
#31
Cyclohexane
Concen: 1.297 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 4033
Ion Ratio Lower Upper
56 100
69 157.0 26.5 39.7#
84 127.1 65.3 97.9#

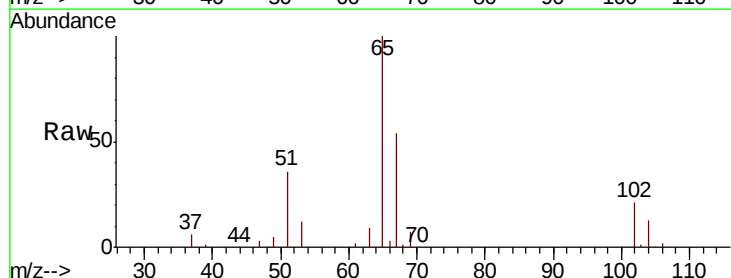


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

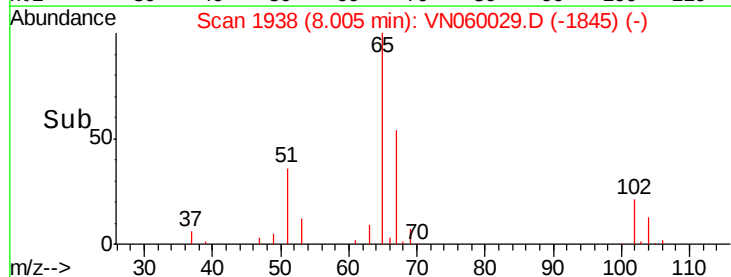
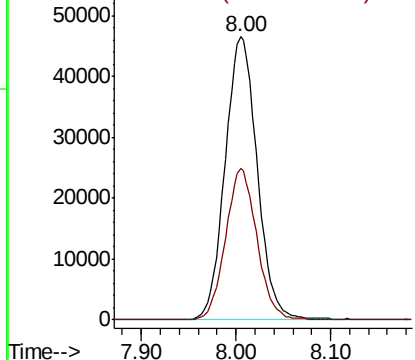


#33
1,2-Dichloroethane-d4
Concen: 52.237 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Tgt Ion: 65 Resp: 109768
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.0



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

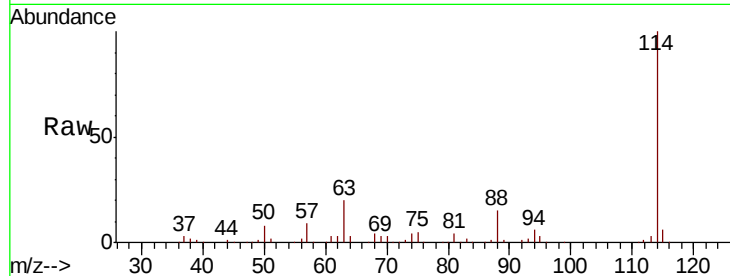




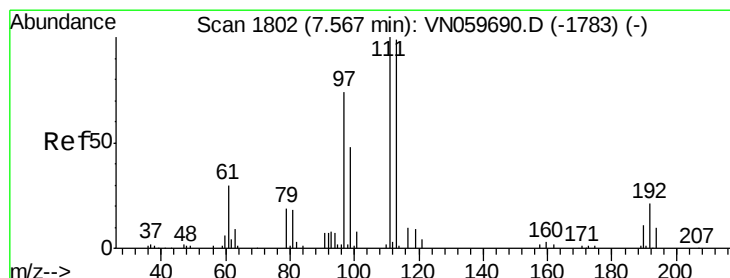
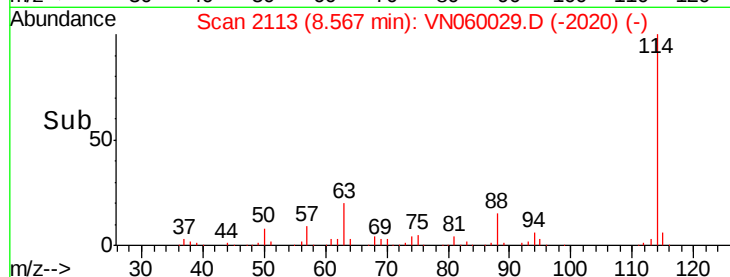
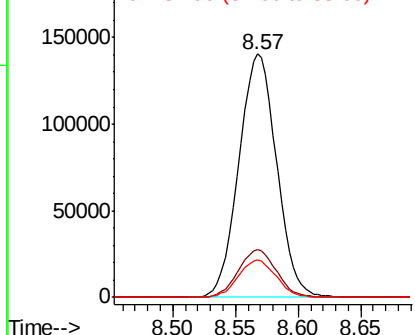
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060029.D
 Acq: 7 Feb 2020 14:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 294748
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 43.6
 88 15.3 0.0 31.4

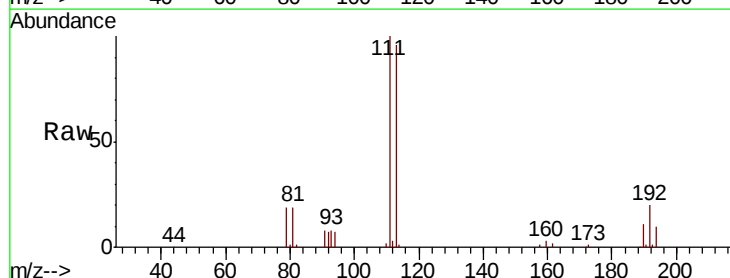


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

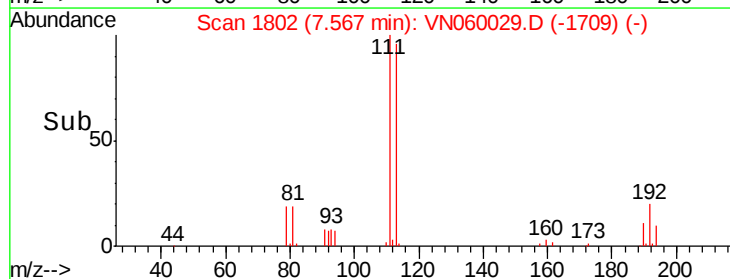
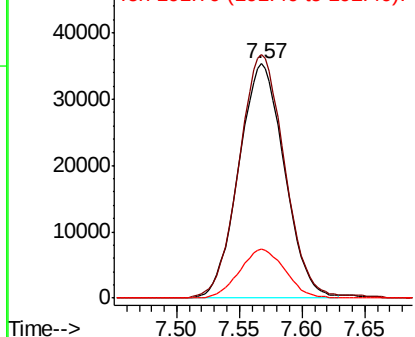


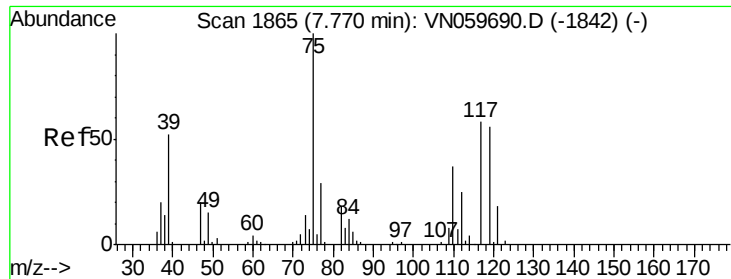
#35
 Dibromofluoromethane
 Concen: 50.951 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060029.D
 Acq: 7 Feb 2020 14:15

Tgt Ion:113 Resp: 89558
 Ion Ratio Lower Upper
 113 100
 111 104.8 83.5 125.3
 192 20.9 15.4 23.2



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

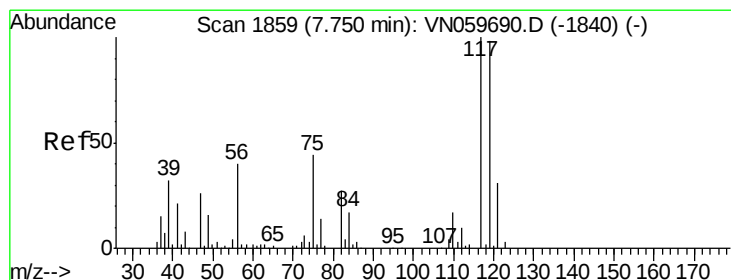
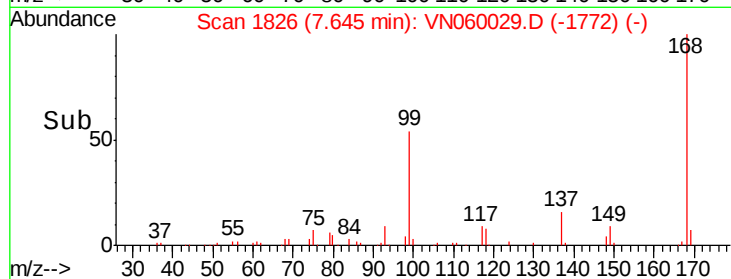
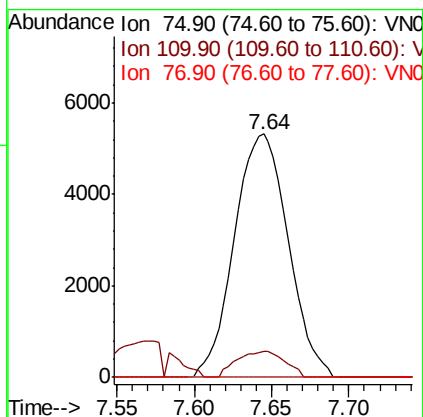
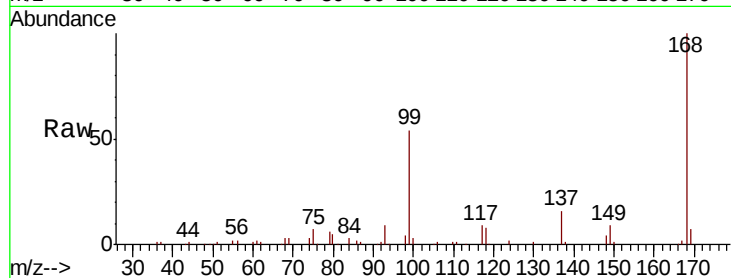




#36
 1,1-Dichloropropene
 Concen: 5.011 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060029.D
 Acq: 7 Feb 2020 14:15

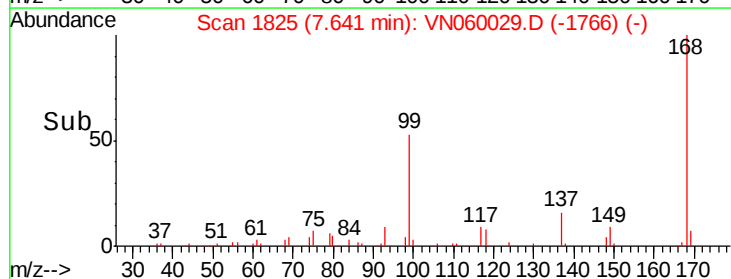
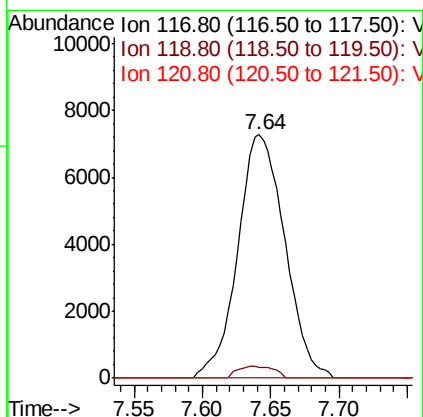
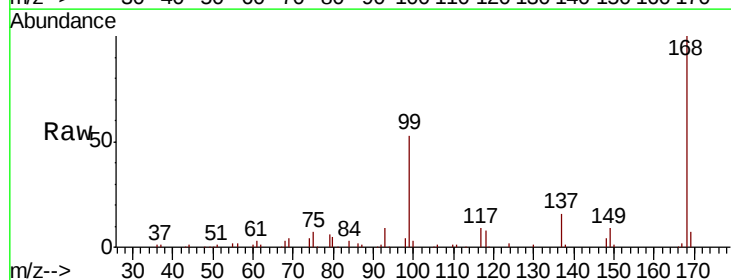
Instrument :
 MSVOA_N
 ClientSampleId :

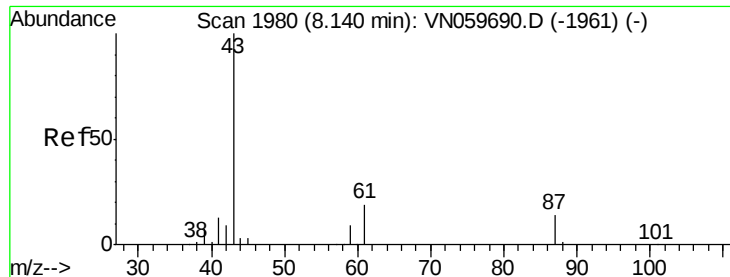
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.6	49.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.230 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060029.D
 Acq: 7 Feb 2020 14:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.5	114.7#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 11.352 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

Instrument :

MSVOA_N

ClientSampled :

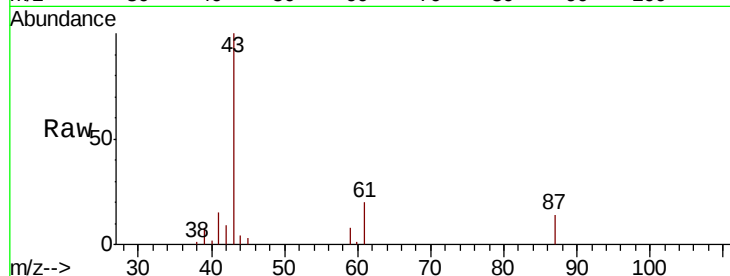
Tot Ion: 43 Resp: 47005

Ion Ratio Lower Upper

43 100

61 19.7 20.2 30.2#

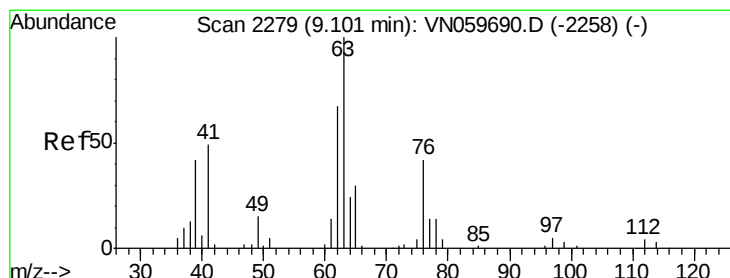
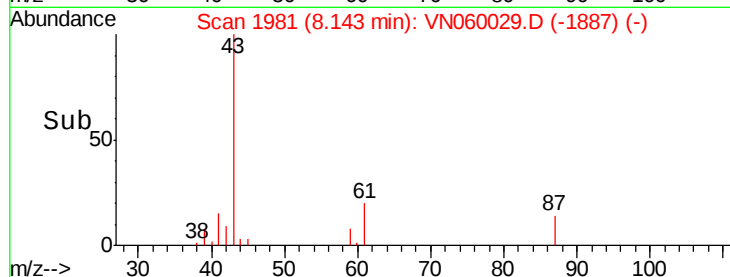
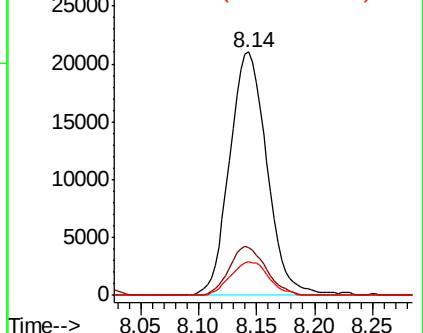
87 13.9 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN060029.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN060029.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN060029.D (-1987) (-)



#45

1,2-Dichloropropane

Concen: 0.517 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060029.D

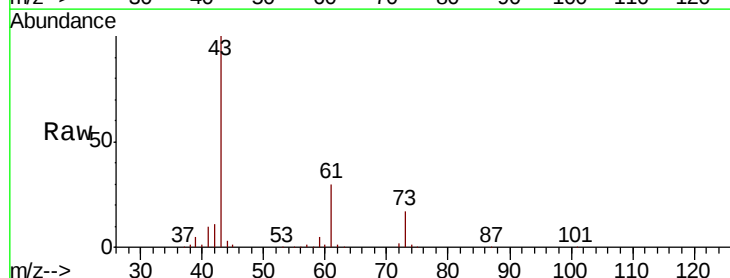
Acq: 7 Feb 2020 14:15

Tgt Ion: 63 Resp: 979

Ion Ratio Lower Upper

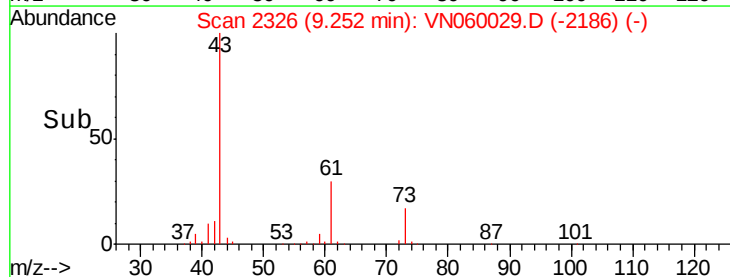
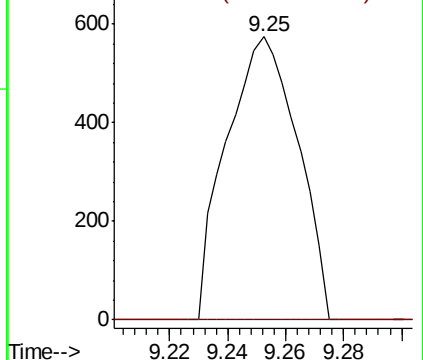
63 100

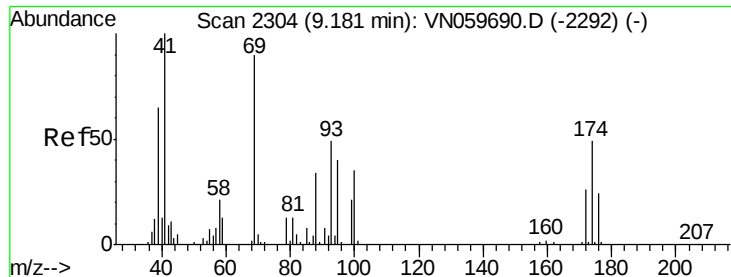
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN060029.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060029.D (-2186) (-)

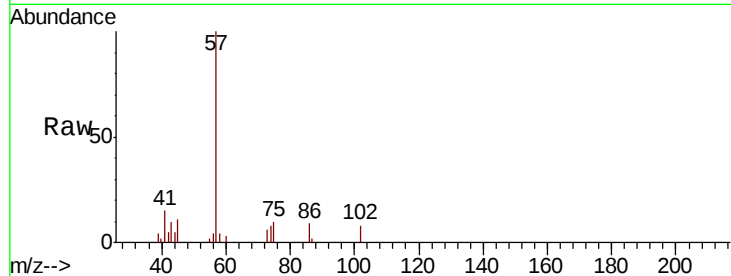




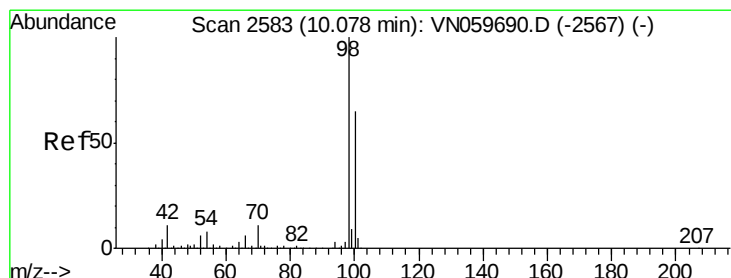
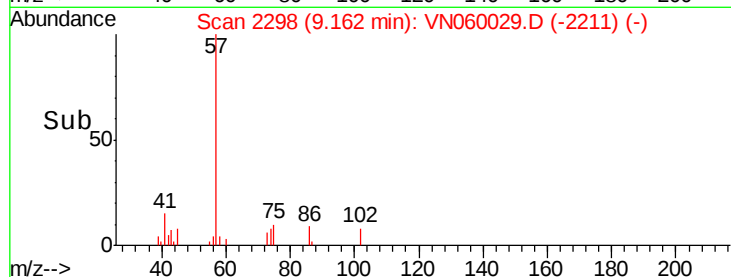
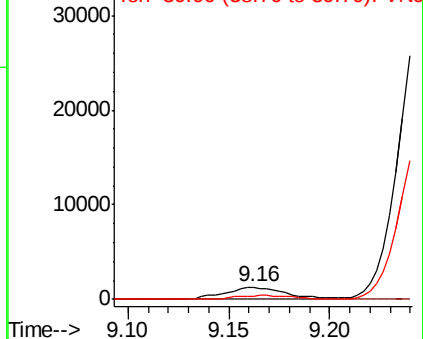
#48
Methvl methacrylate
Concen: 1.429 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2646
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

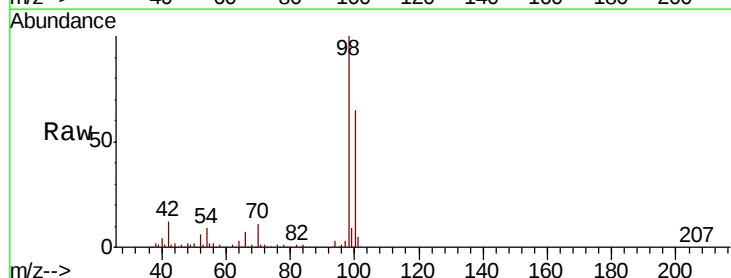


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

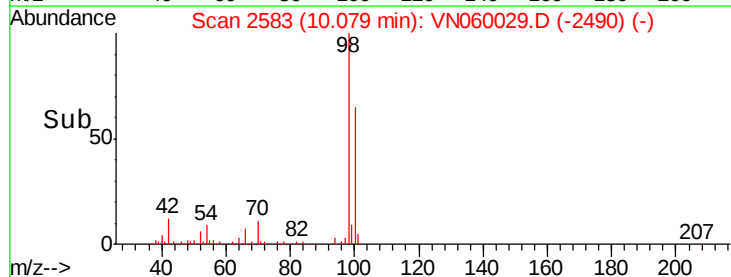
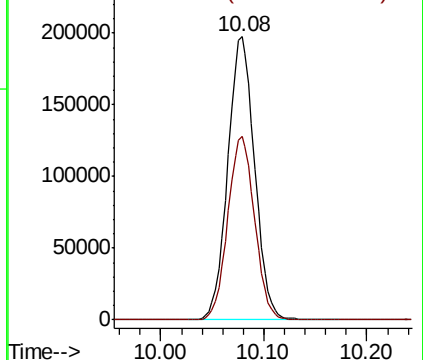


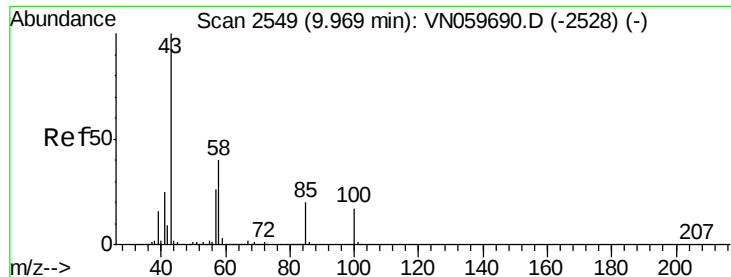
#50
Toluene-d8
Concen: 52.609 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Tgt Ion: 98 Resp: 358278
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8



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: 1.109 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

Instrument :

MSVOA_N

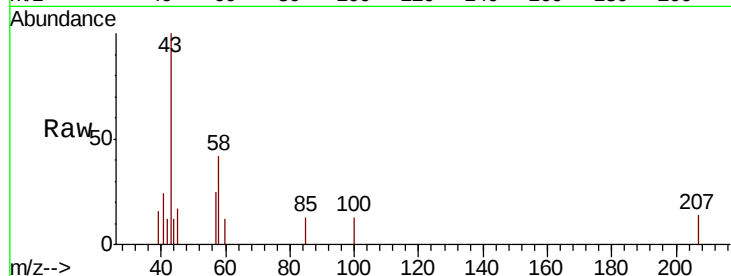
ClientSampled :

Tot Ion: 43 Resp: 2654

Ion Ratio Lower Upper

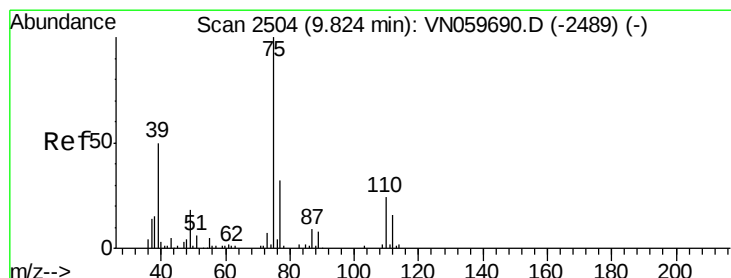
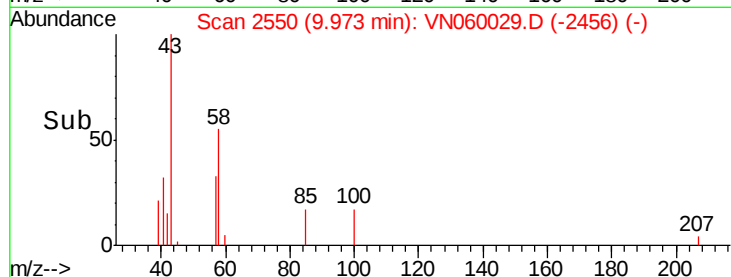
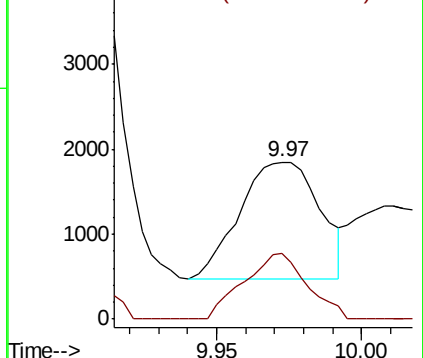
43 100

58 44.3 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.951 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

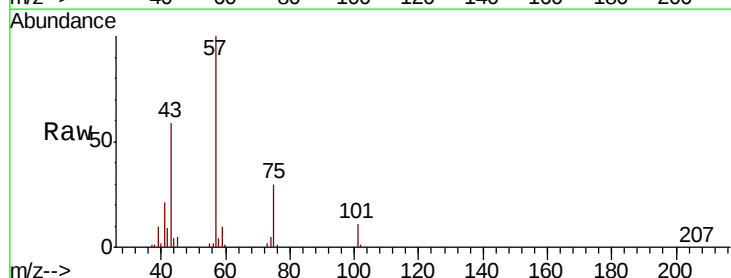
Tgt Ion: 75 Resp: 21989

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

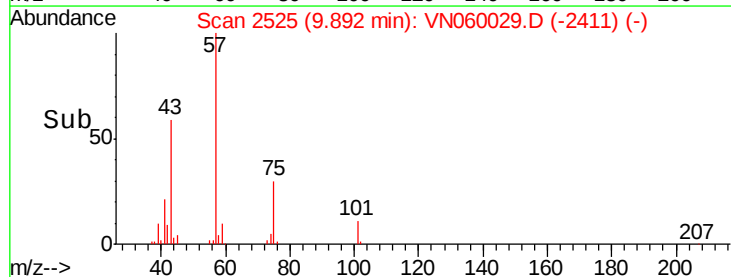
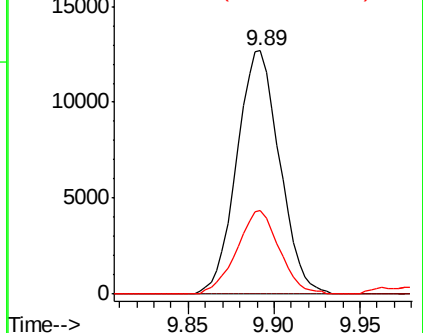
39 34.3 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.202 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

Instrument :

MSVOA_N

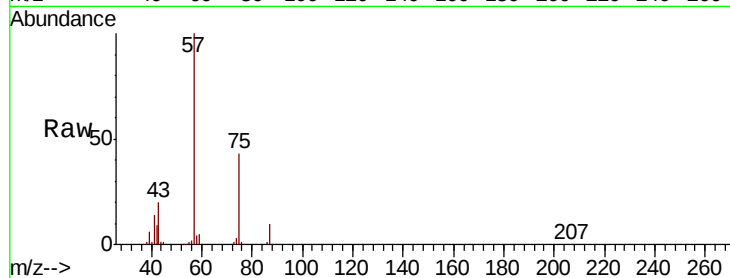
ClientSampled :

Tot Ion: 76 Resp: 3655

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

2500

2000

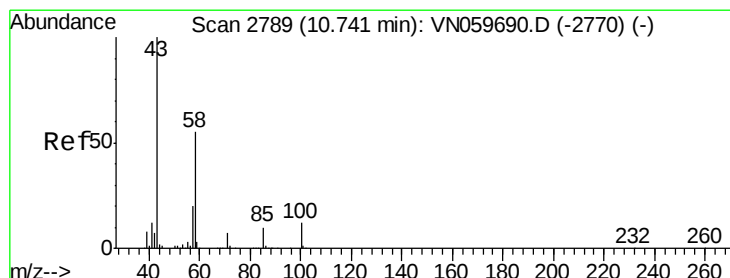
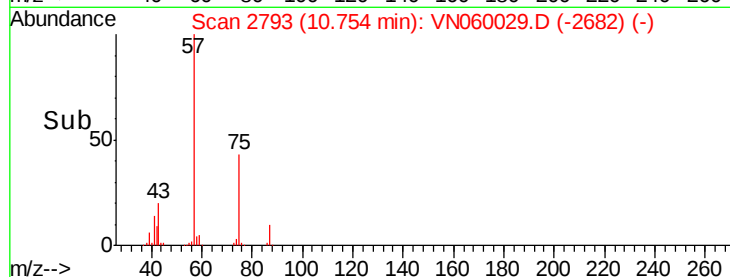
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 28.735 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060029.D

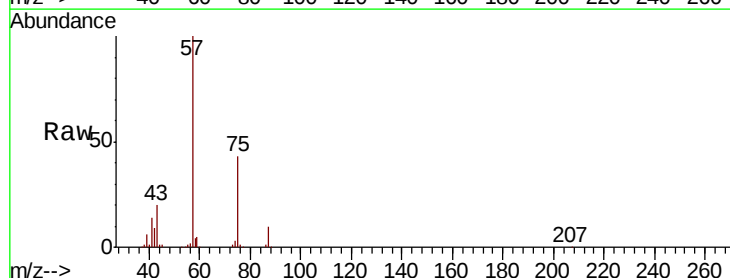
Acq: 7 Feb 2020 14:15

Tgt Ion: 43 Resp: 50673

Ion Ratio Lower Upper

43 100

58 19.4 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

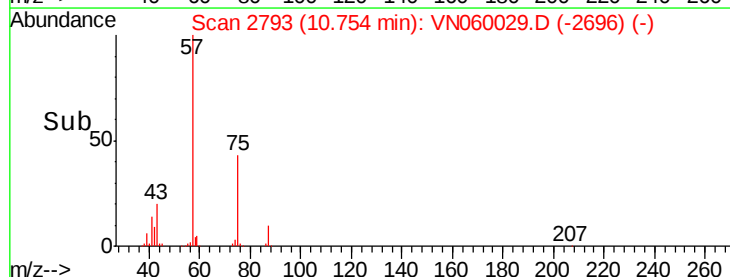
30000

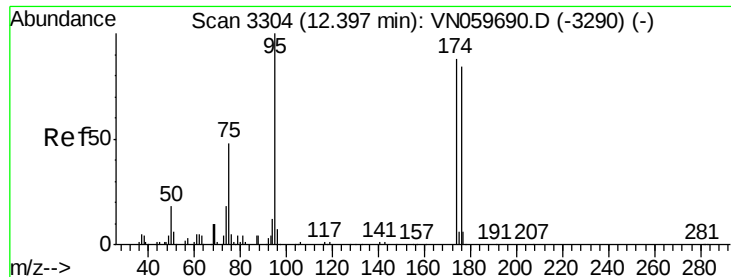
20000

10000

0

Time--> 10.70 10.75 10.80

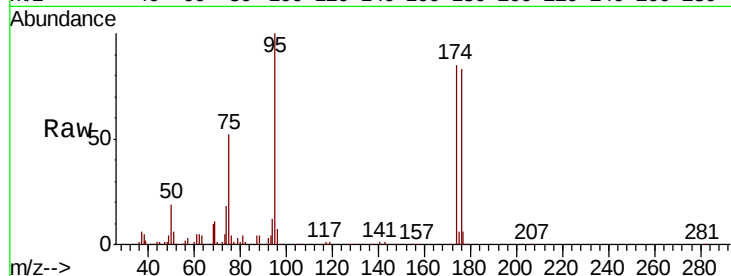




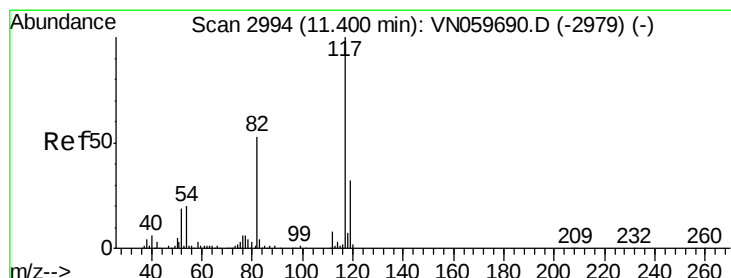
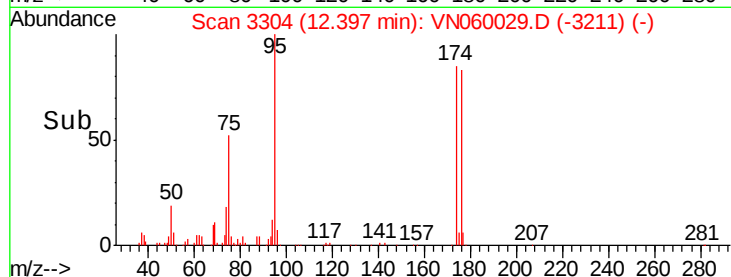
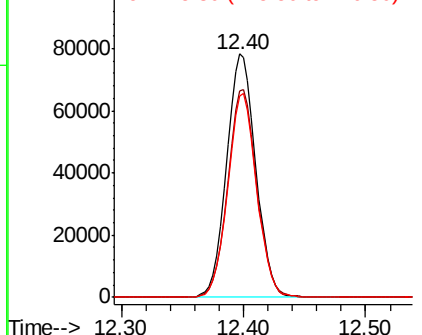
#62
4-Bromofluorobenzene
Concen: 53.213 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 130642
Ion Ratio Lower Upper
95 100
174 85.1 0.0 151.4
176 82.8 0.0 146.0

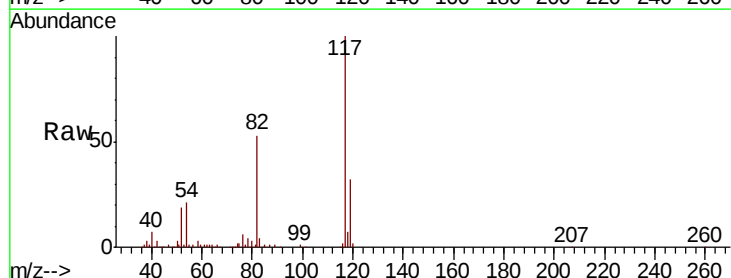


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): VN
Ion 175.80 (175.50 to 176.50): VN

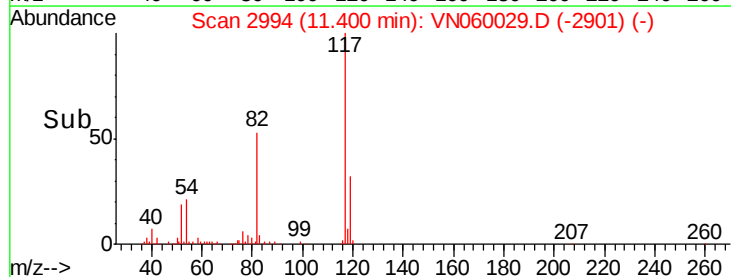
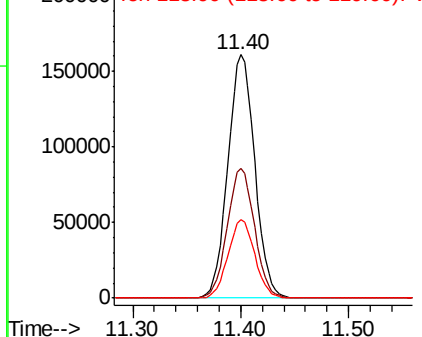


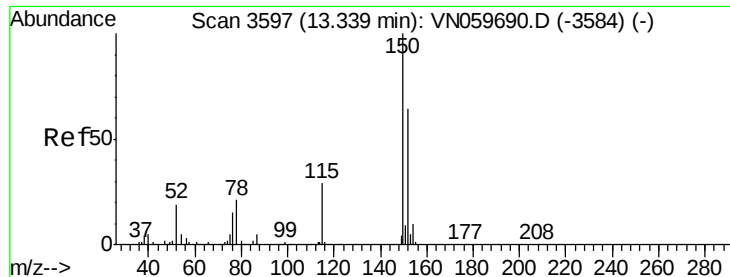
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Tgt Ion: 117 Resp: 280707
Ion Ratio Lower Upper
117 100
82 53.4 45.9 68.9
119 32.3 25.5 38.3



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

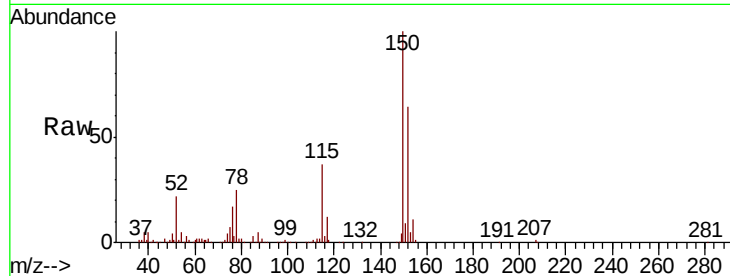
Tot Ion:152 Resp: 127372

Ion Ratio Lower Upper

152 100

115 57.7 30.3 90.9

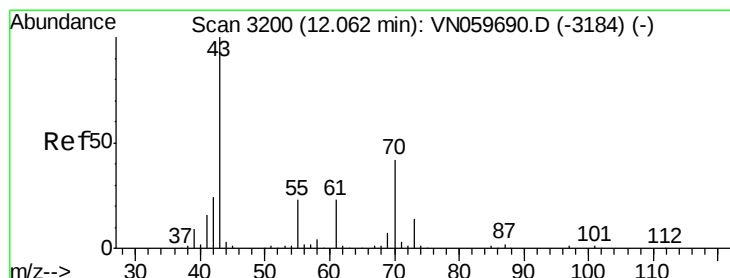
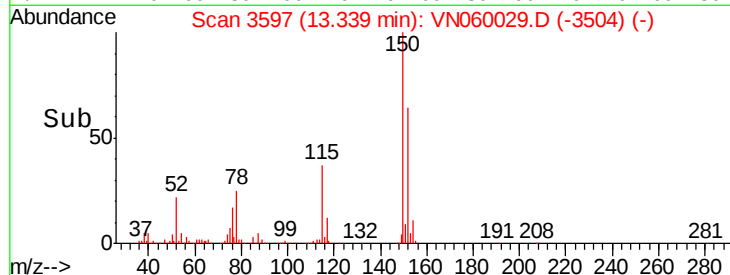
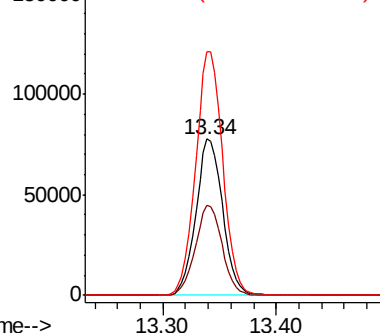
150 158.2 0.0 345.2



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: 0.790 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

Tgt Ion: 43 Resp: 2863

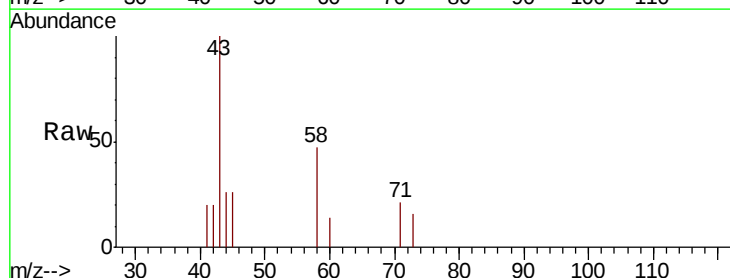
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

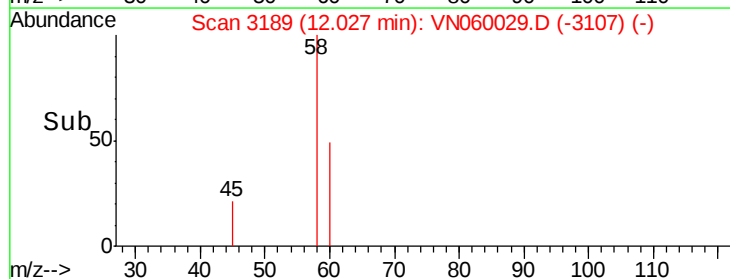
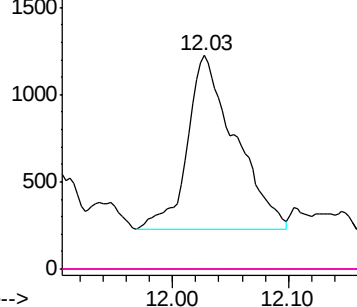


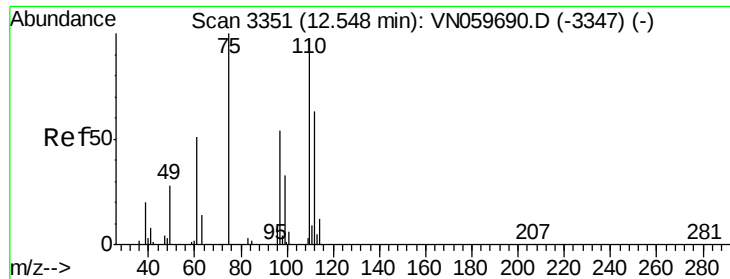
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.595 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060029.D

Acq: 7 Feb 2020 14:15

Instrument :

MSVOA_N

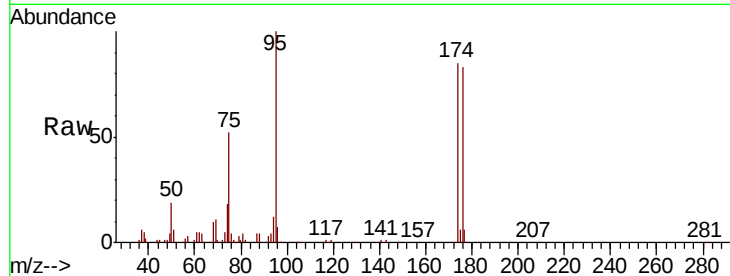
ClientSampled :

Tot Ion: 75 Resp: 67726

Ion Ratio Lower Upper

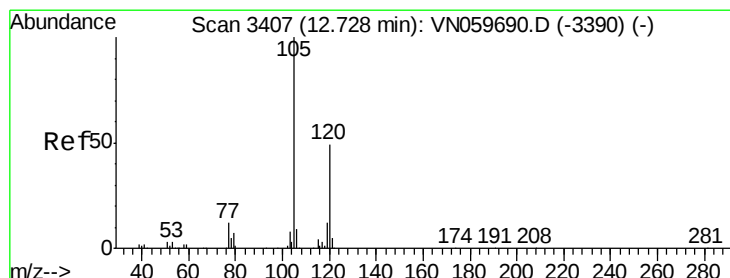
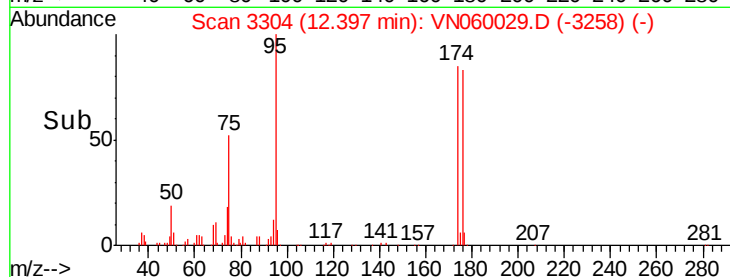
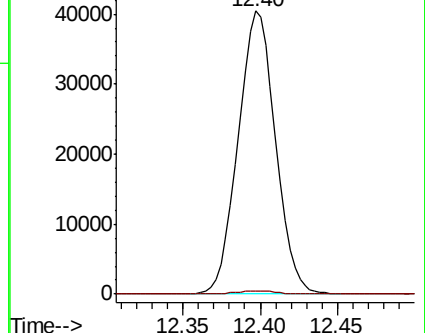
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060029.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN060029.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.278 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060029.D

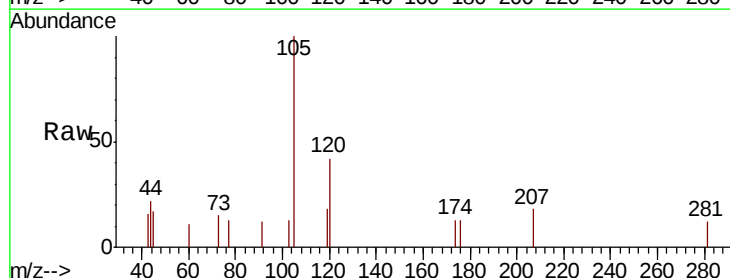
Acq: 7 Feb 2020 14:15

Tgt Ion: 105 Resp: 2186

Ion Ratio Lower Upper

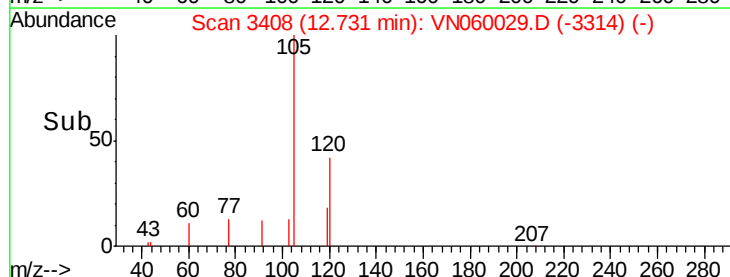
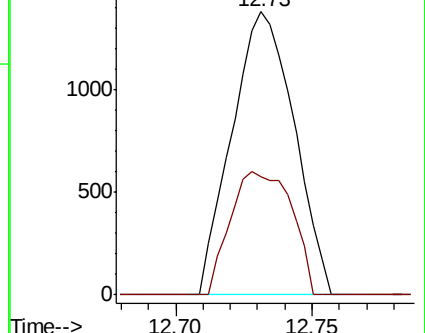
105 100

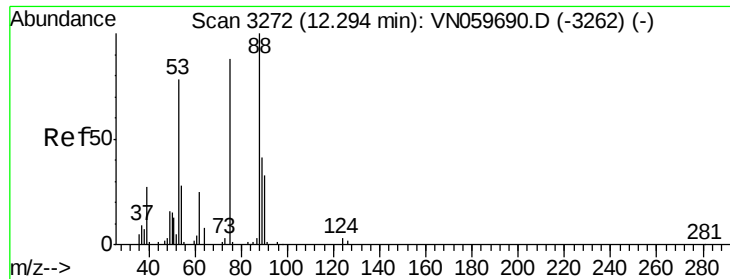
120 43.2 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060029.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060029.D (-3314) (-)

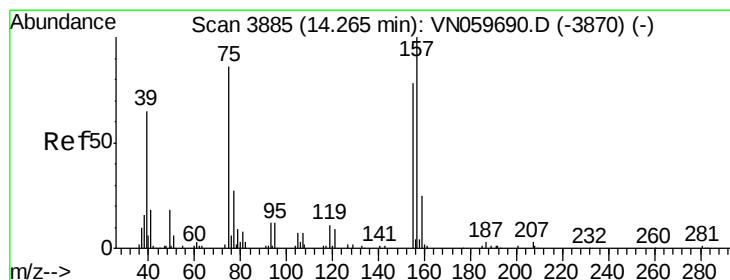
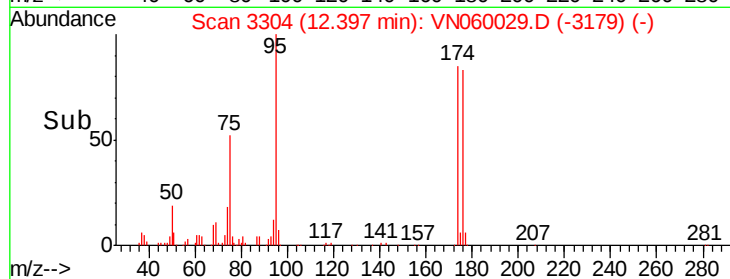
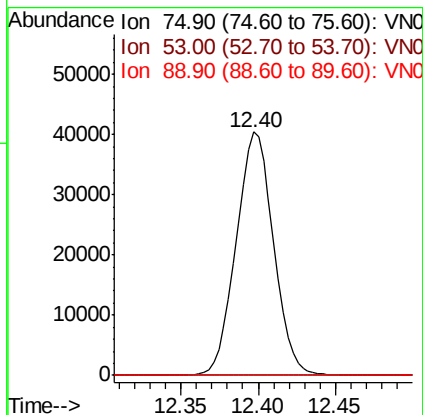
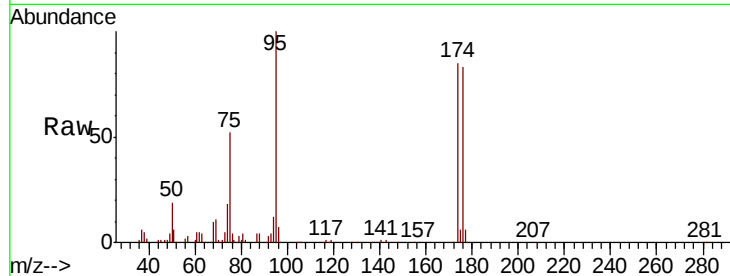




#81
trans-1,4-Dichloro-2-butene
Concen: 67.851 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 67726
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.26 min Scan# 3884
Delta R.T. -0.00 min
Lab File: VN060029.D
Acq: 7 Feb 2020 14:15

Tgt Ion: 75 Resp: 119
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#

