

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030620\
 Data File : VN060386.D
 Acq On : 6 Mar 2020 17:21
 Operator : JC/MD
 Sample : L1761-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 07 00:57:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	198943	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330877	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	312580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149183	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	128864	50.49	ug/l	0.00
Spiked Amount						
			Recovery	=	100.98%	
35) Dibromofluoromethane	7.57	113	94947	61.82	ug/l	0.00
Spiked Amount						
			Recovery	=	123.64%	
50) Toluene-d8	10.08	98	407058	52.37	ug/l	0.00
Spiked Amount						
			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	12.40	95	154897	52.57	ug/l	0.00
Spiked Amount						
			Recovery	=	105.14%	

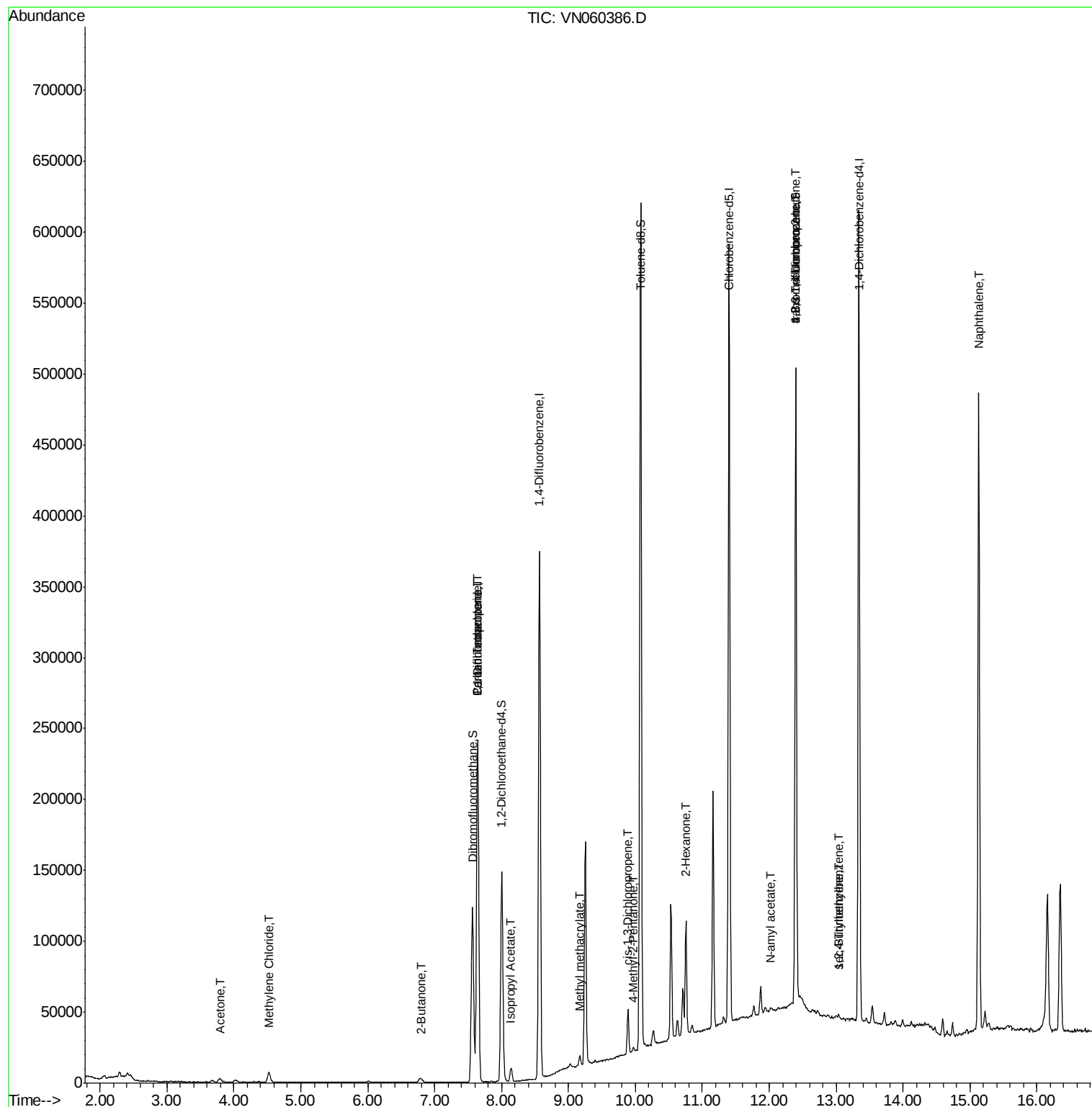
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5251	6.370	ug/l	93
20) Methylene Chloride	4.51	84	5399	2.385	ug/l	93
25) 2-Butanone	6.81	43	2352	1.767	ug/l	96
31) Cyclohexane	7.64	56	4403	Below Cal	#	8
36) 1,1-Dichloropropene	7.64	75	15612	4.951	ug/l #	49
38) Carbon Tetrachloride	7.64	117	19350	6.302	ug/l #	15
43) Isopropyl Acetate	8.14	43	11318	2.165	ug/l #	91
48) Methyl methacrylate	9.16	41	1222	0.513	ug/l #	32
51) 4-Methyl-2-Pentanone	9.97	43	2462	0.831	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	5662	1.408	ug/l #	61
59) 2-Hexanone	10.75	43	12470	5.730	ug/l #	55
74) N-amyl acetate	12.02	43	2009	0.416	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	80904	24.718	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80904	68.233	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.04	105	2286	0.243	ug/l	99
85) sec-Butylbenzene	13.04	105	2286	0.212	ug/l #	57
95) Naphthalene	15.13	128	385560	43.340	ug/l	100

(#) = 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: VN060386.D

Acq: 6 Mar 2020 17:21

Instrument :

MSVOA_N

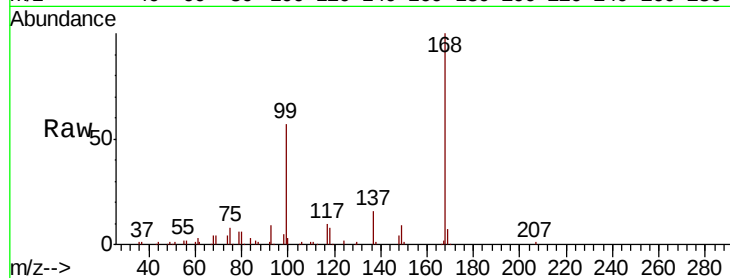
ClientSampled :

Tot Ion:168 Resp: 198943

Ion Ratio Lower Upper

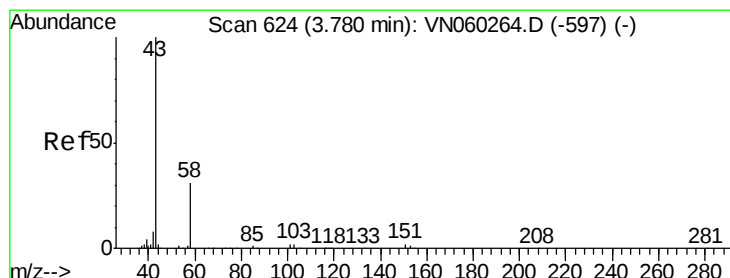
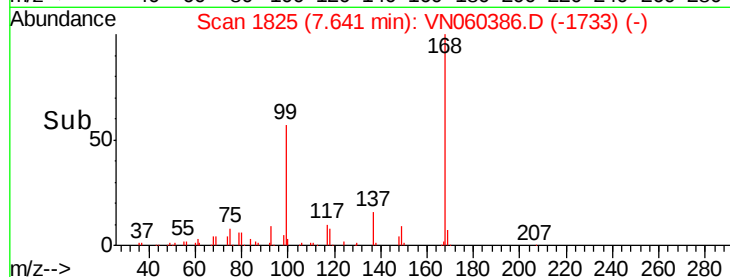
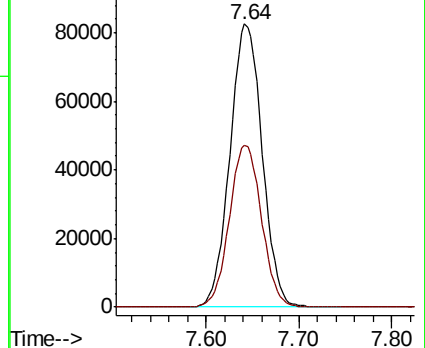
168 100

99 57.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.370 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060386.D

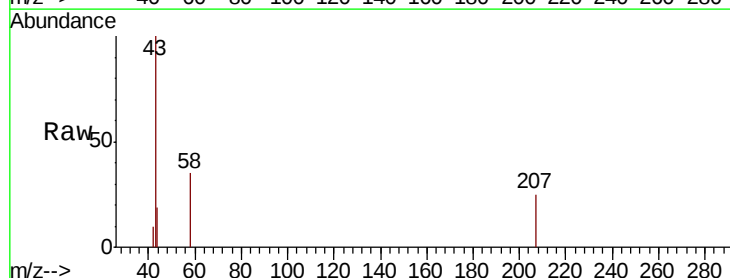
Acq: 6 Mar 2020 17:21

Tgt Ion: 43 Resp: 5251

Ion Ratio Lower Upper

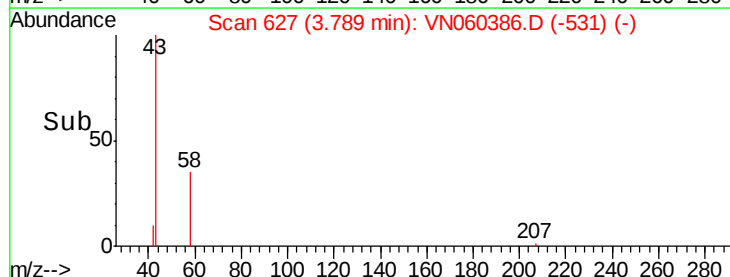
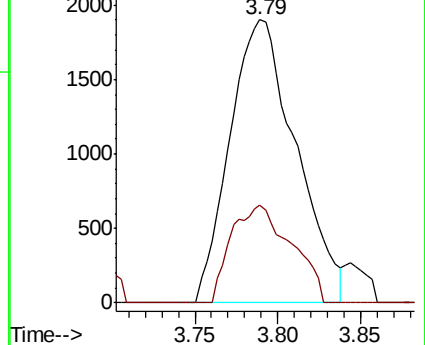
43 100

58 34.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

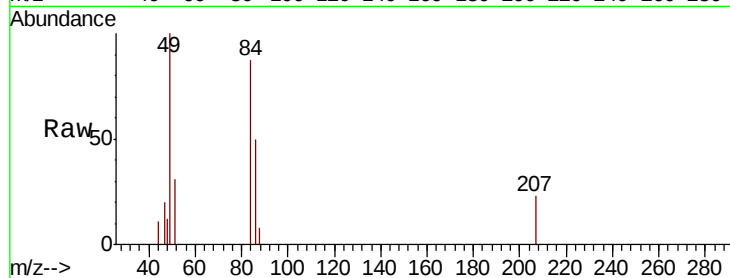




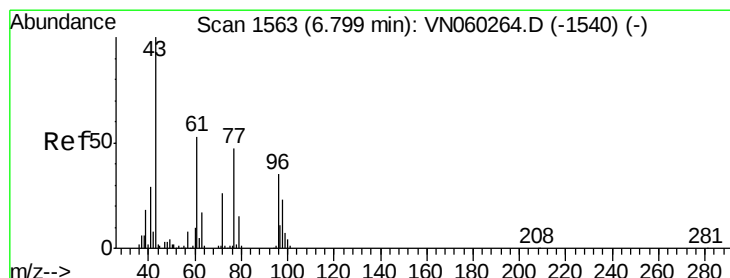
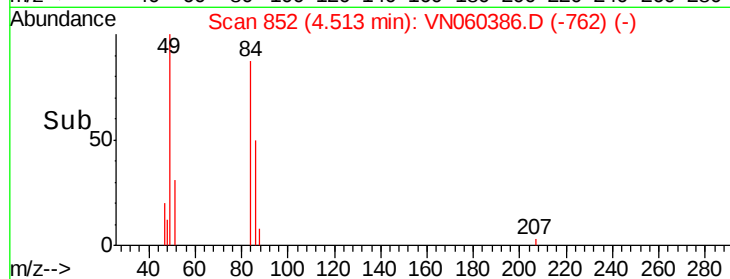
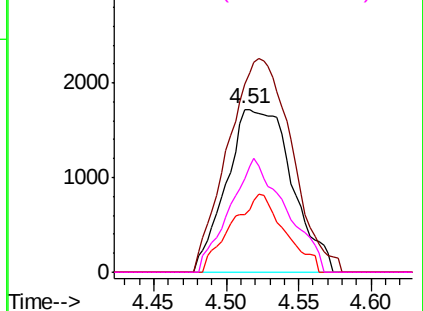
#20
Methylene Chloride
Concen: 2.385 ug/l
RT: 4.51 min Scan# 852
Delta R.T. -0.01 min
Lab File: VN060386.D
Acq: 6 Mar 2020 17:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	5399
Ion	Ratio	Lower	Upper
84	100		
49	115.1	99.3	148.9
51	35.3	30.1	45.1
86	57.3	51.1	76.7

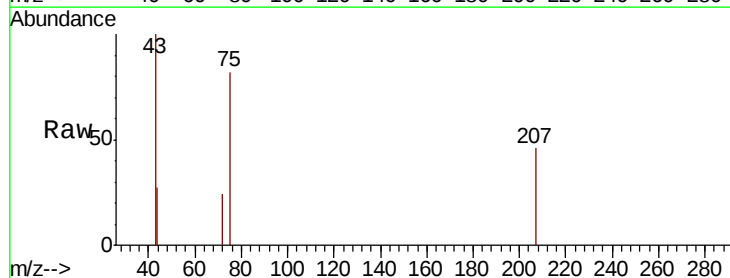


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

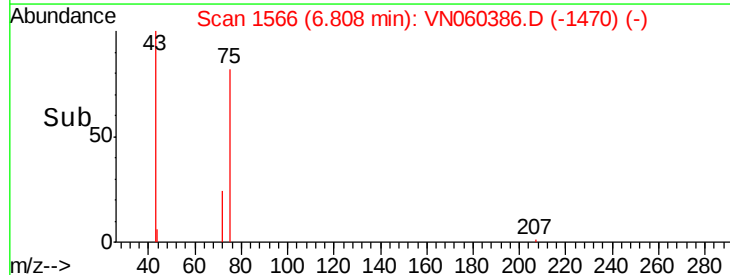
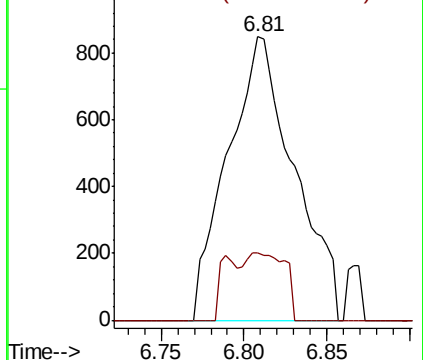


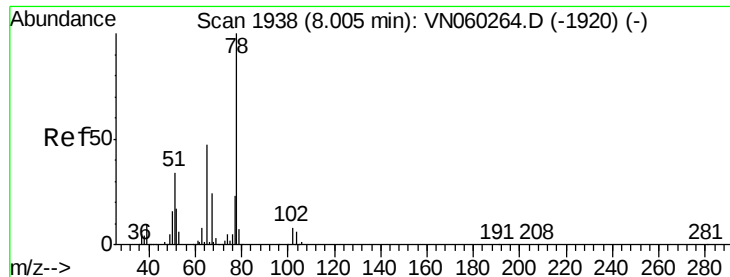
#25
2-Butanone
Concen: 1.767 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060386.D
Acq: 6 Mar 2020 17:21

Tgt Ion:	43	Resp:	2352
Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.9	31.3



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO

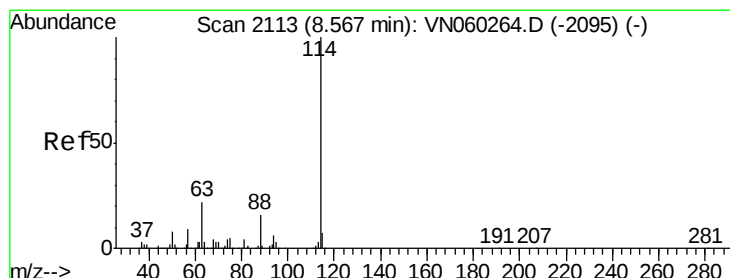
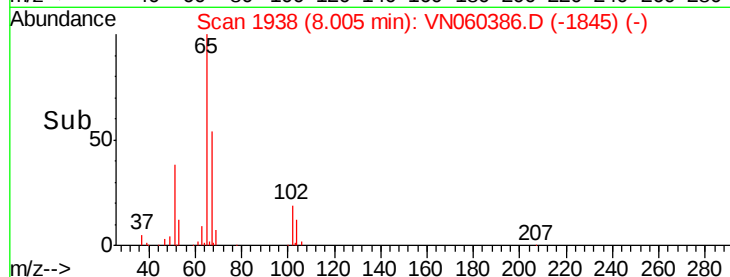
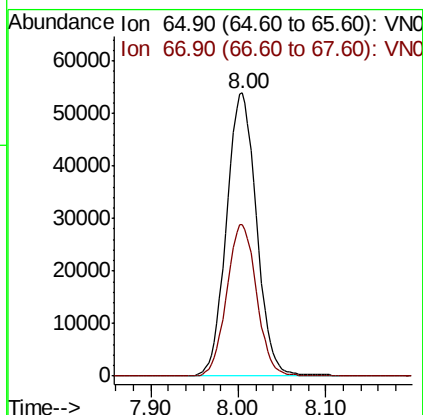
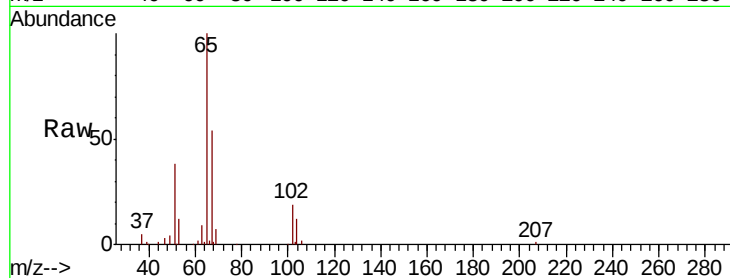




#33
 1,2-Dichloroethane-d4
 Concen: 50.486 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060386.D
 Acq: 6 Mar 2020 17:21

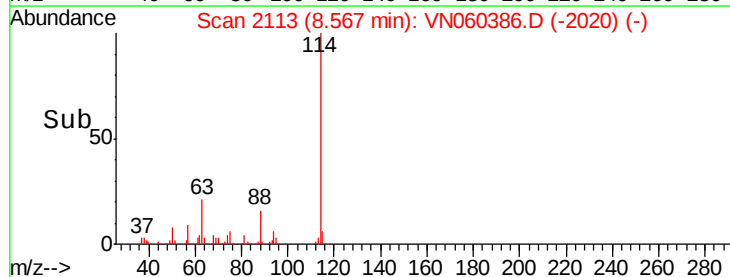
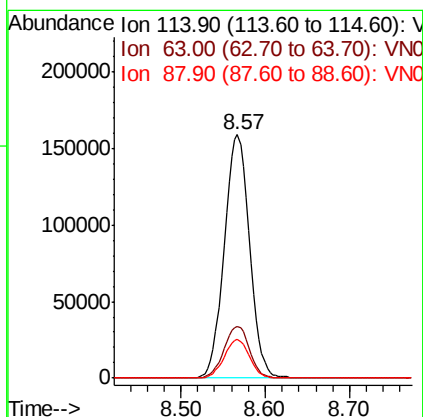
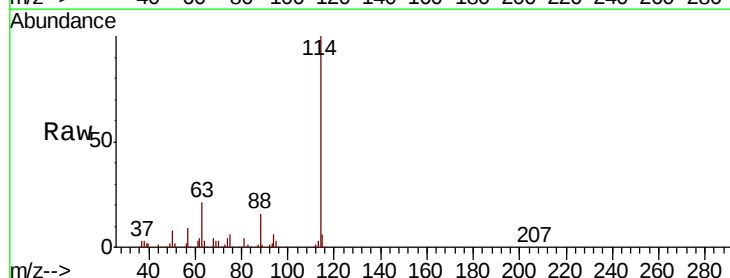
Instrument :
 MSVOA_N
 ClientSampled :

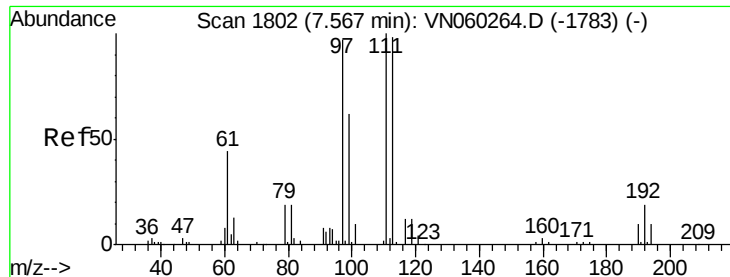
Tot Ion: 65 Resp: 128864
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060386.D
 Acq: 6 Mar 2020 17:21

Tgt Ion: 114 Resp: 330877
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 43.2
 88 15.7 0.0 31.6

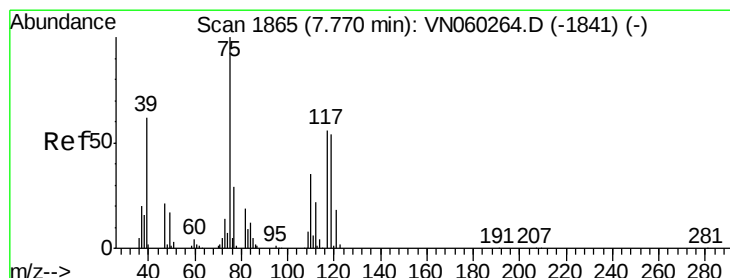
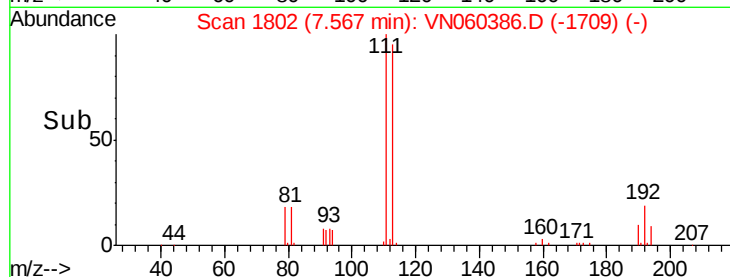
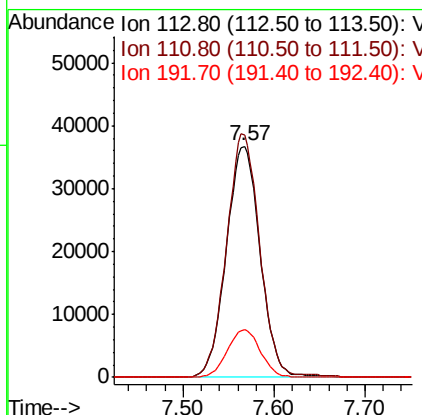
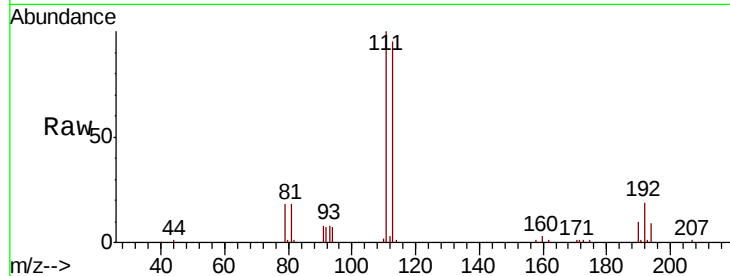




#35
 Dibromofluoromethane
 Concen: 61.822 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060386.D
 Acq: 6 Mar 2020 17:21

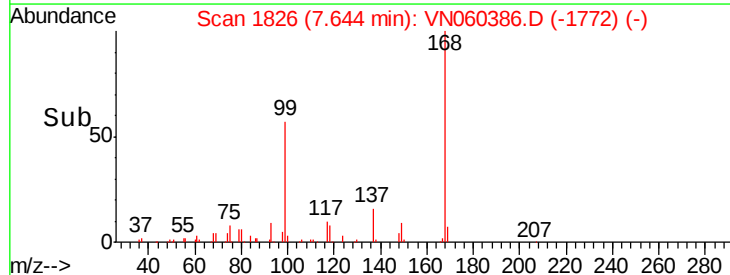
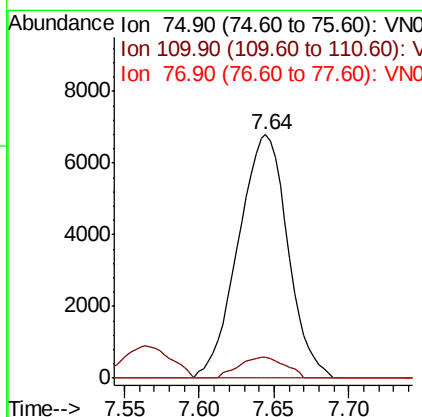
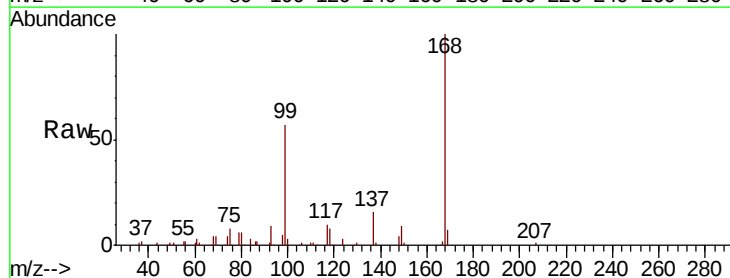
Instrument :
 MSVOA_N
 ClientSampleId :

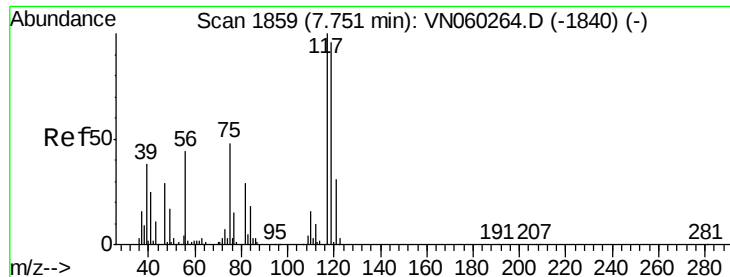
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	20.1	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.951 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060386.D
 Acq: 6 Mar 2020 17:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.302 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

Instrument :

MSVOA_N

ClientSampleId :

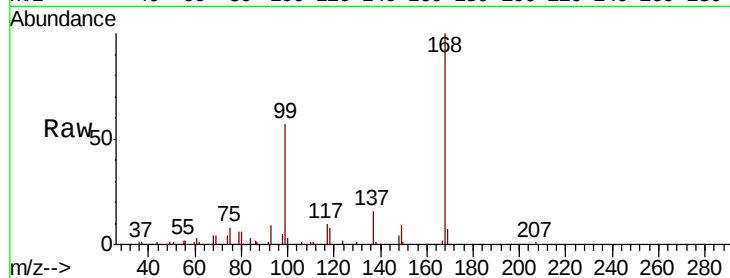
Tot Ion:117 Resp: 19350

Ion Ratio Lower Upper

117 100

119 3.6 76.7 115.1#

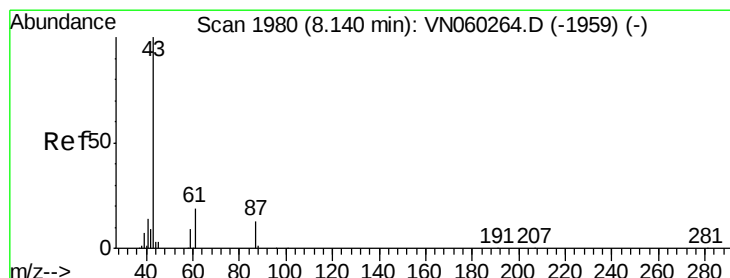
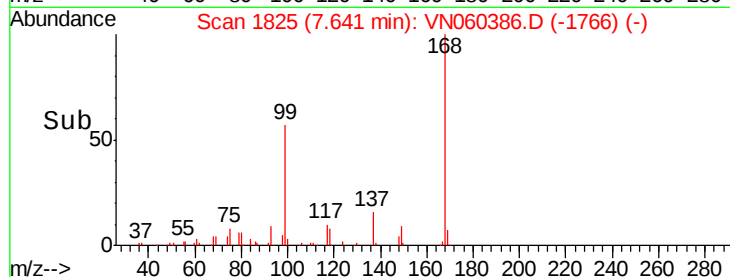
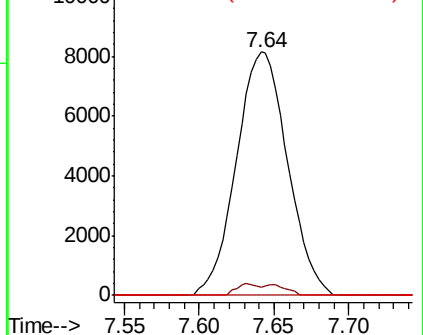
121 0.0 24.5 36.7#



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: 2.165 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

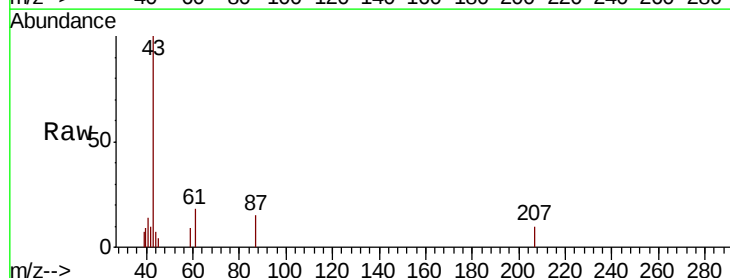
Tgt Ion: 43 Resp: 11318

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

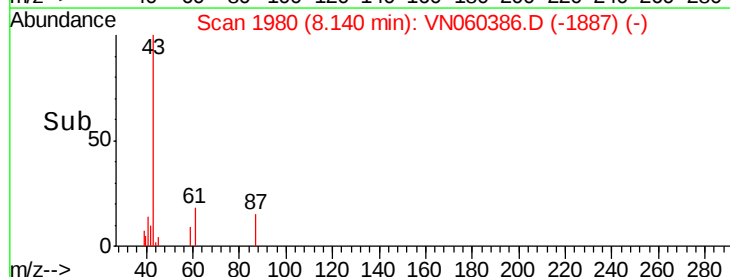
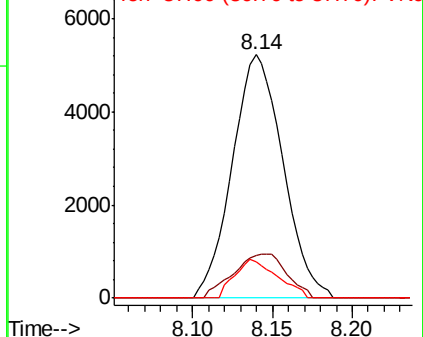
87 13.2 10.6 16.0

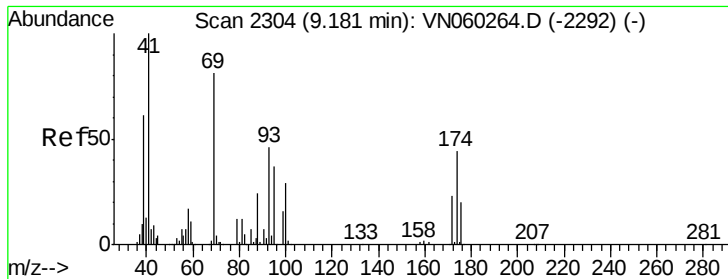


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

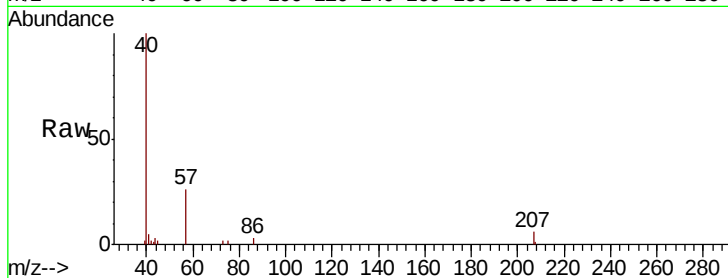




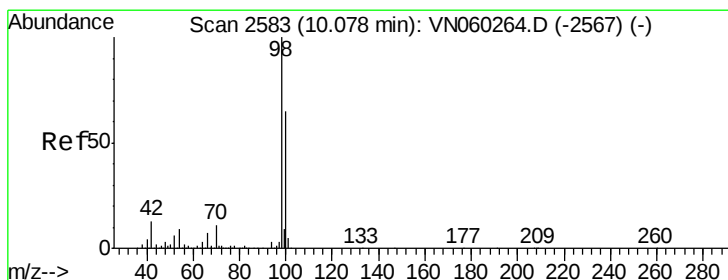
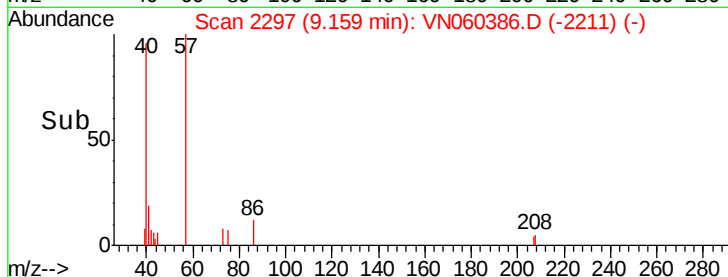
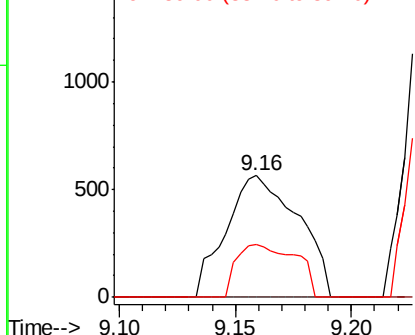
#48
Methvl methacrylate
Concen: 0.513 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060386.D
Acq: 6 Mar 2020 17:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 1222
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 35.5 50.1 75.1#

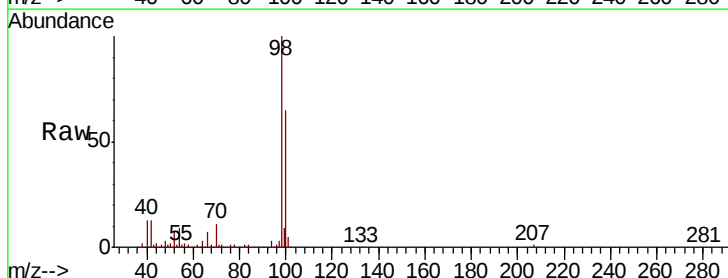


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

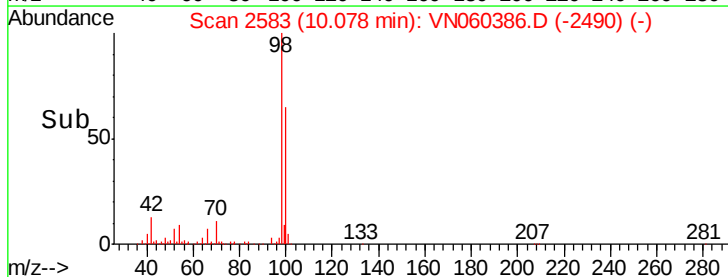
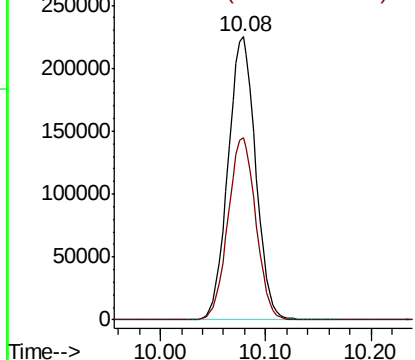


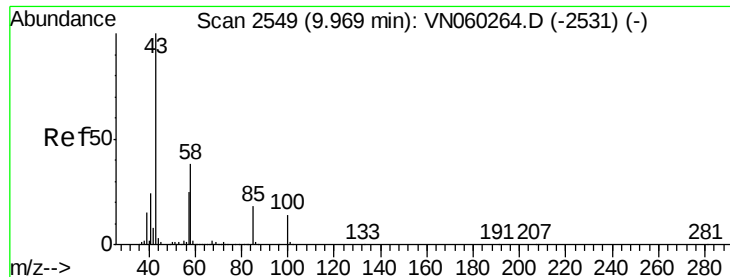
#50
Toluene-d8
Concen: 52.368 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060386.D
Acq: 6 Mar 2020 17:21

Tgt Ion: 98 Resp: 407058
Ion Ratio Lower Upper
98 100
100 64.7 52.2 78.2



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





#51

4-Methyl-2-Pentanone

Concen: 0.831 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

Instrument :

MSVOA_N

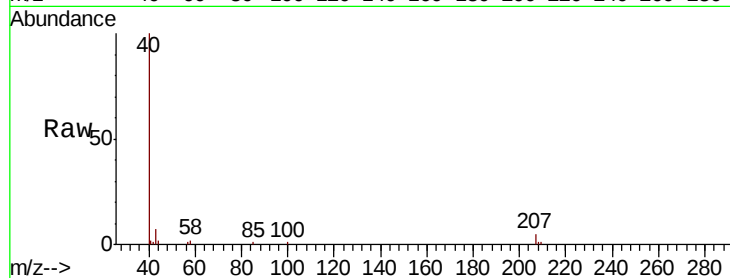
ClientSampled :

Tot Ion: 43 Resp: 2462

Ion Ratio Lower Upper

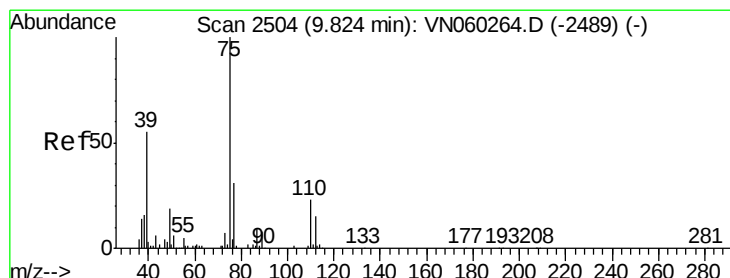
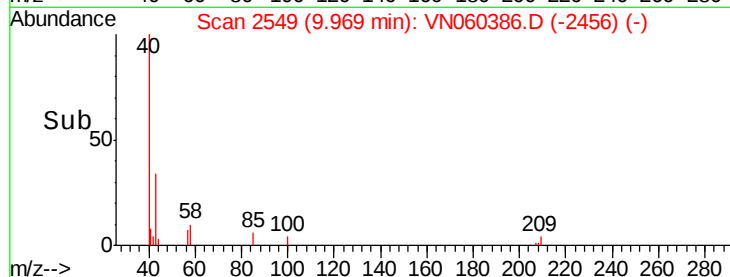
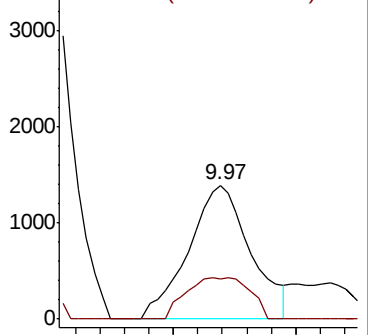
43 100

58 31.6 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)



#54

cis-1,3-Dichloropropene

Concen: 1.408 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

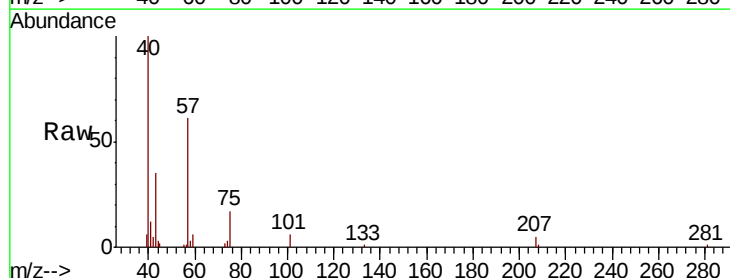
Tgt Ion: 75 Resp: 5662

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

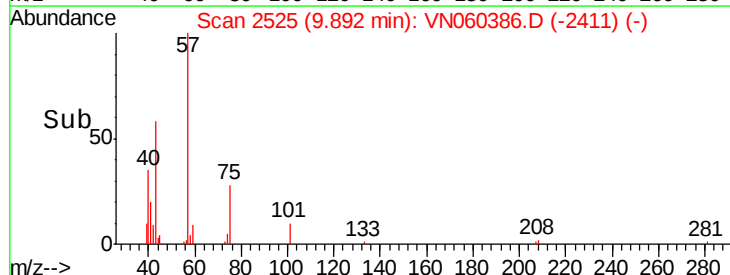
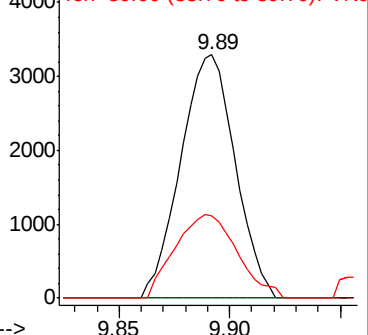
39 34.0 43.8 65.8#

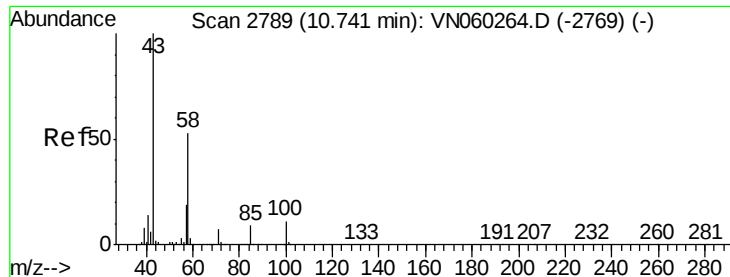


Abundance Ion 74.90 (74.60 to 75.60): VN060386.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060386.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060386.D (-2411) (-)

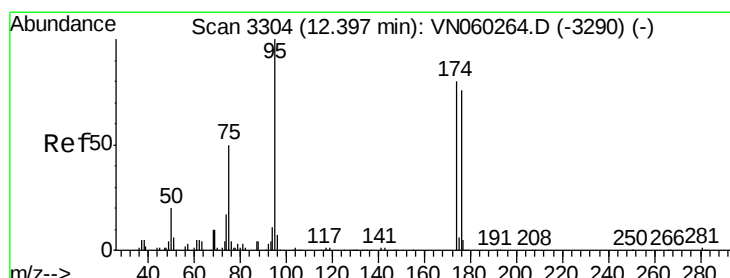
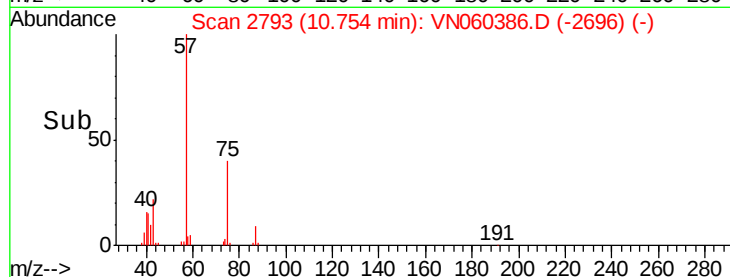
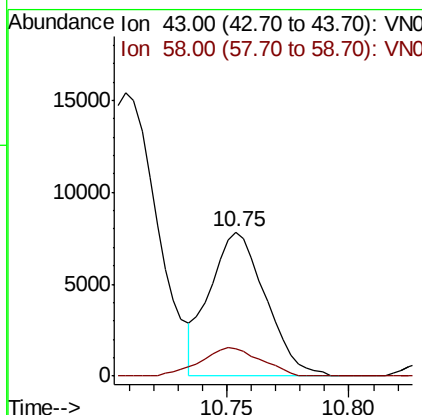
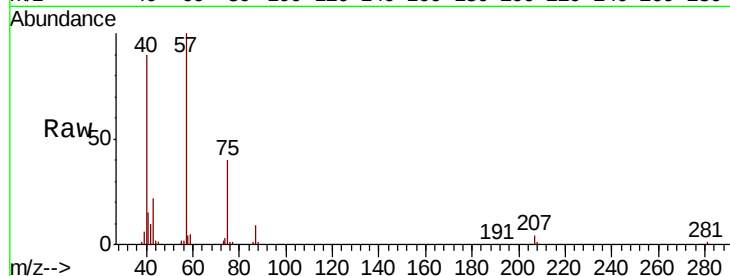




#59
2-Hexanone
Concen: 5.730 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060386.D
Acq: 6 Mar 2020 17:21

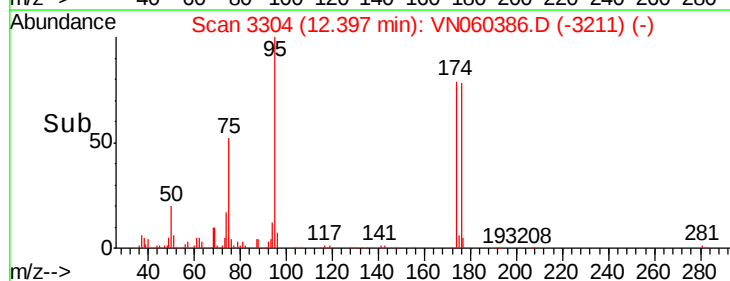
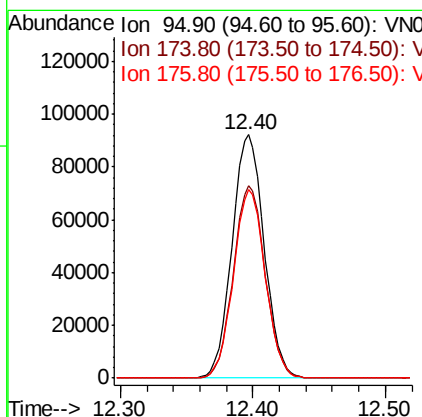
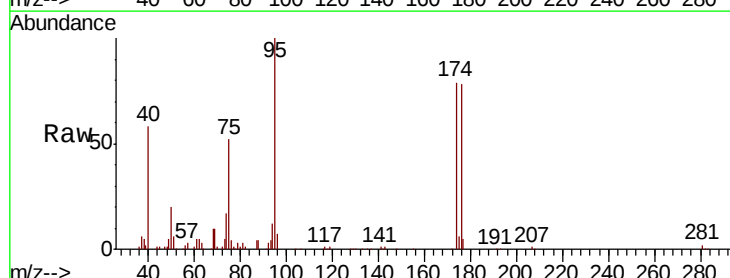
Instrument :
MSVOA_N
ClientSampleId :

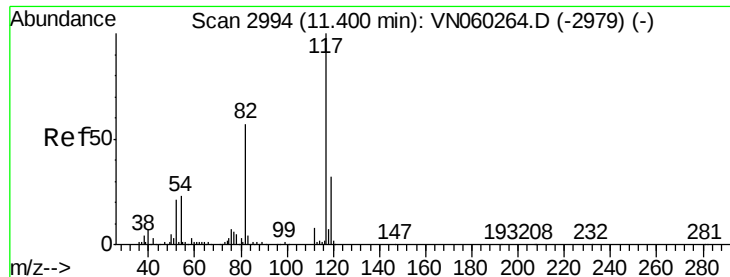
Tot Ion: 43 Resp: 12470
Ion Ratio Lower Upper
43 100
58 21.2 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.569 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060386.D
Acq: 6 Mar 2020 17:21

Tgt Ion: 95 Resp: 154897
Ion Ratio Lower Upper
95 100
174 78.4 0.0 159.2
176 76.7 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

Instrument :

MSVOA_N

ClientSampled :

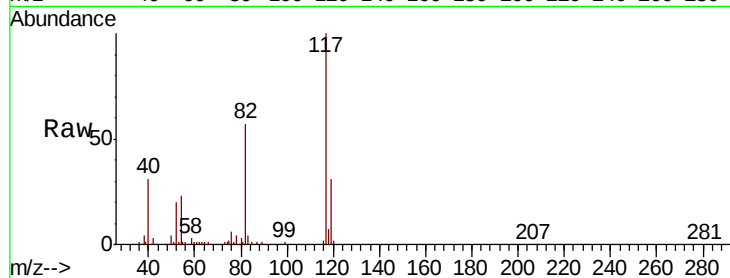
Tot Ion:117 Resp: 312580

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.8	68.6
119	31.3	25.8	38.8

117 100

82 56.8 45.8 68.6

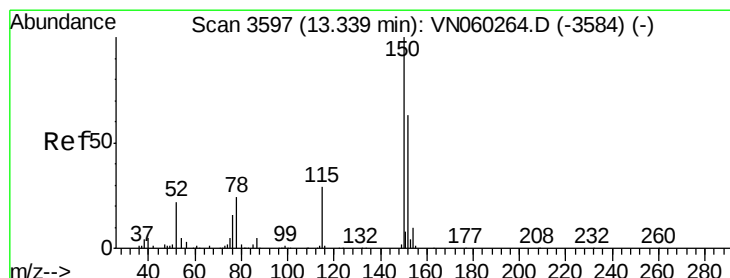
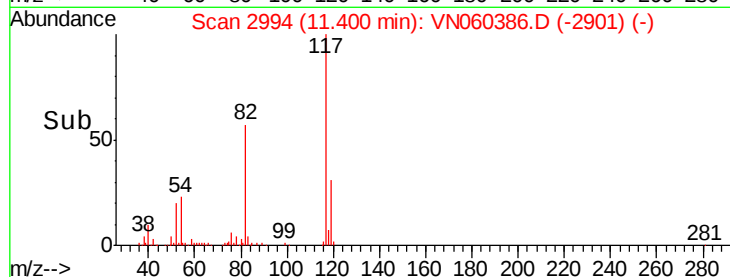
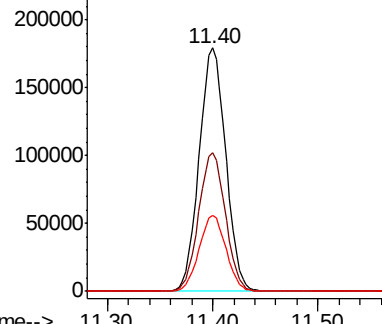
119 31.3 25.8 38.8



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

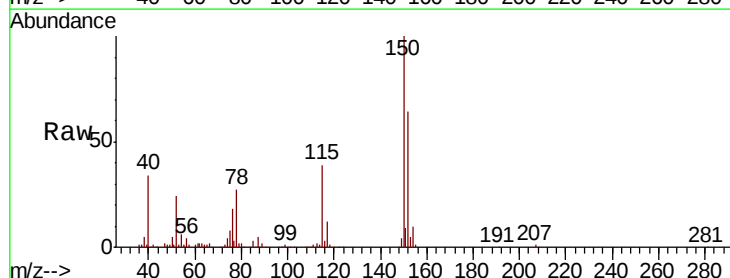
Tgt Ion:152 Resp: 149183

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.0	90.0
150	155.8	0.0	349.6

152 100

115 60.0 30.0 90.0

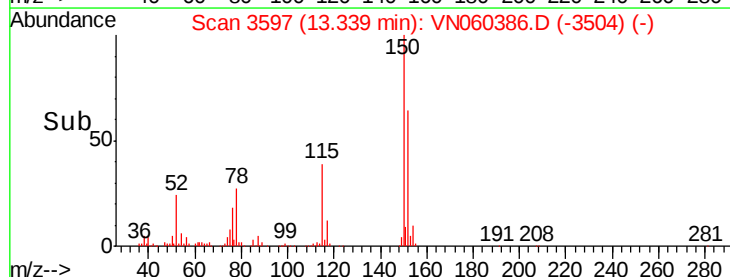
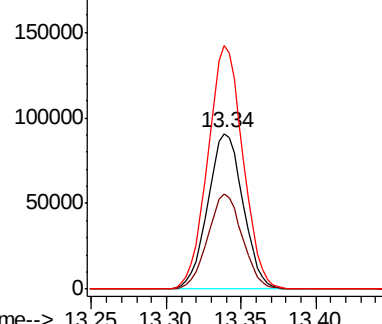
150 155.8 0.0 349.6

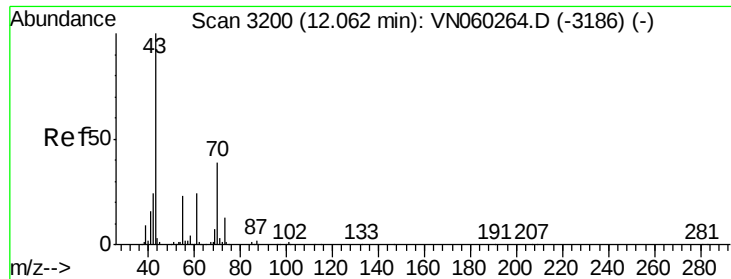


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.416 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 2009

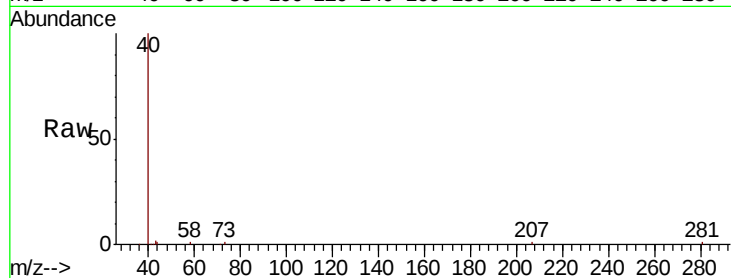
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

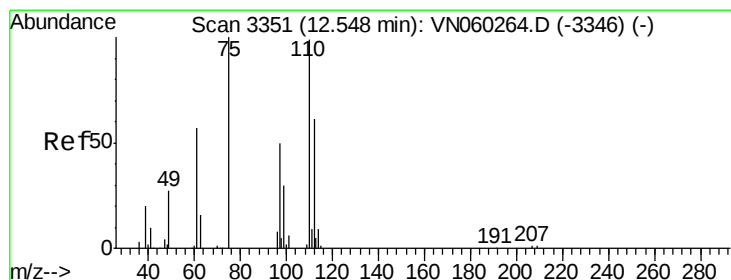
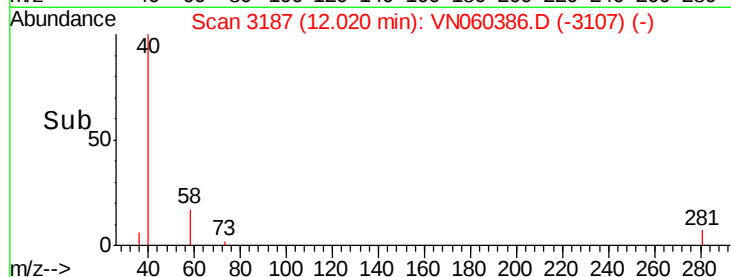
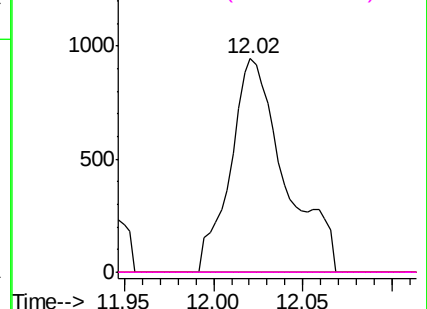


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.718 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060386.D

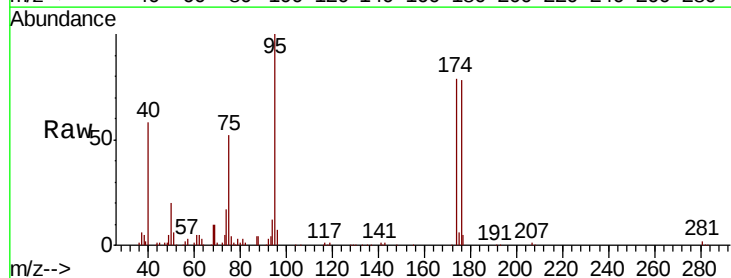
Acq: 6 Mar 2020 17:21

Tgt Ion: 75 Resp: 80904

Ion Ratio Lower Upper

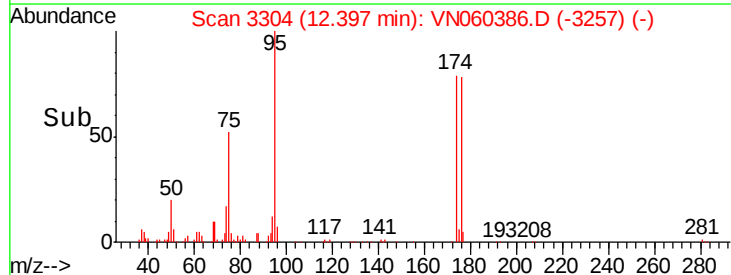
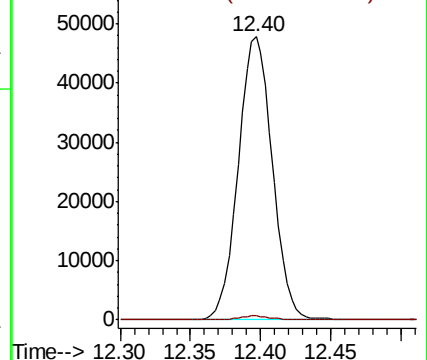
75 100

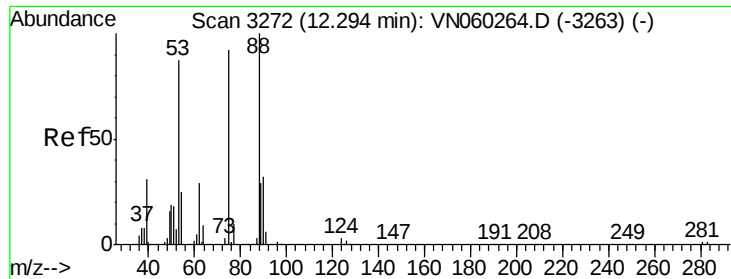
77 1.1 0.0 0.0#



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: 68.233 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060386.D

Acq: 6 Mar 2020 17:21

Instrument :

MSVOA_N

ClientSampleId :

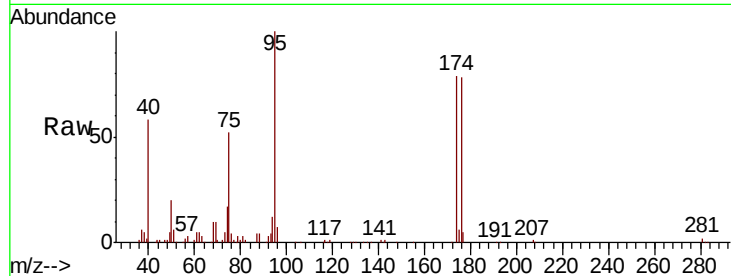
Tot Ion: 75 Resp: 80904

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

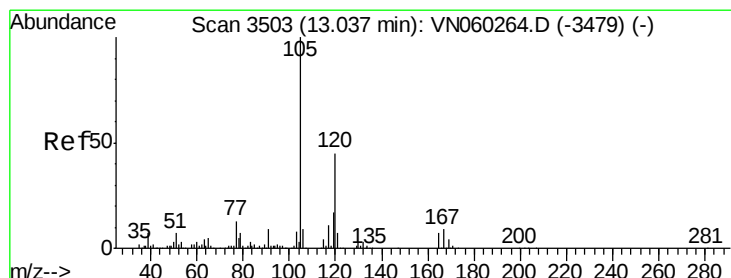
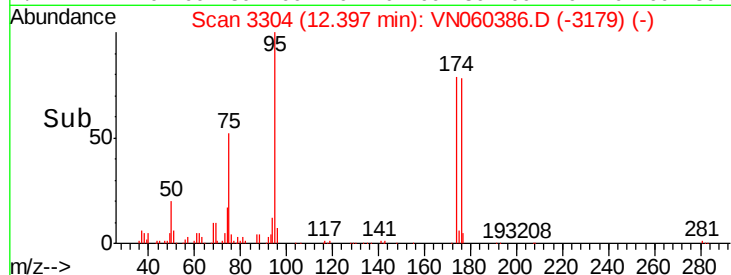
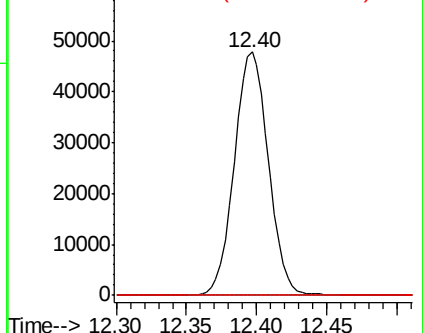
89 0.0 57.1 85.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.243 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN060386.D

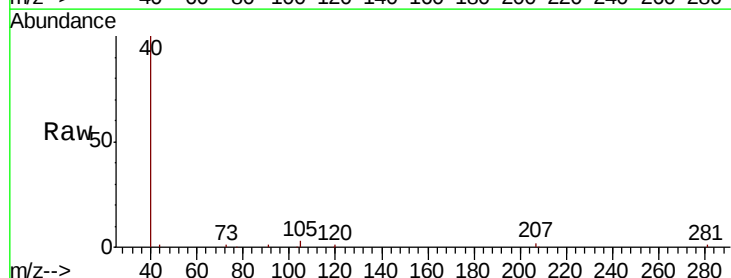
Acq: 6 Mar 2020 17:21

Tgt Ion:105 Resp: 2286

Ion Ratio Lower Upper

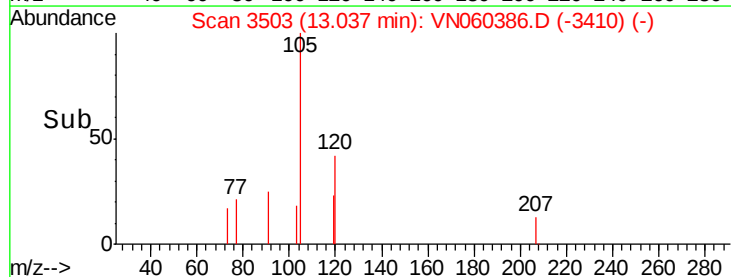
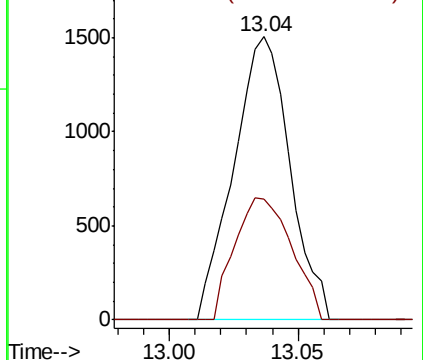
105 100

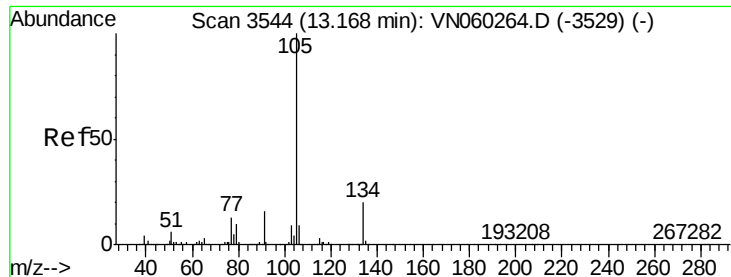
120 43.7 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

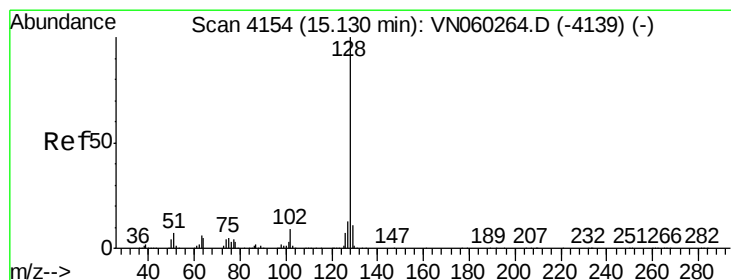
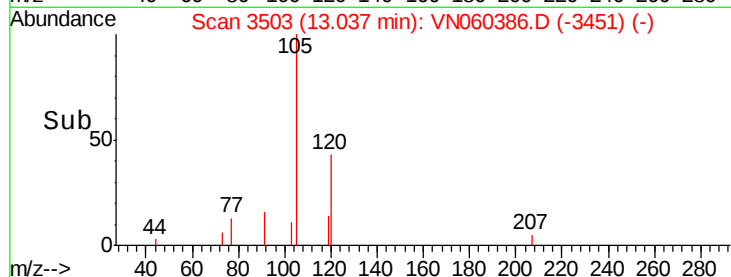
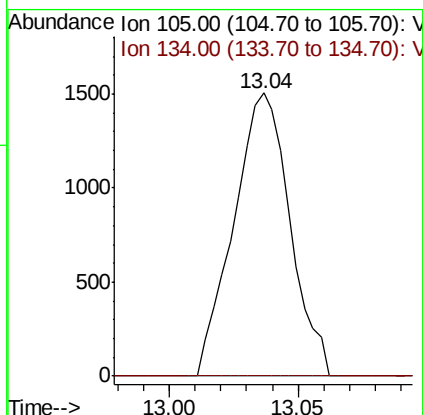
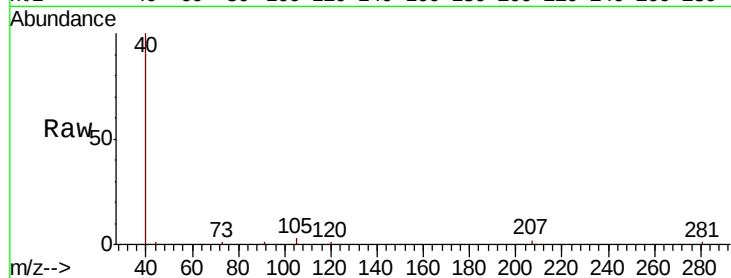




#85
 sec-Butylbenzene
 Concen: 0.212 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.13 min
 Lab File: VN060386.D
 Acq: 6 Mar 2020 17:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:105 Resp: 2286
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.5#



#95
 Naphthalene
 Concen: 43.340 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN060386.D
 Acq: 6 Mar 2020 17:21

Tgt Ion:128 Resp: 385560
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.4 15.6
 129 10.9 8.6 13.0

