

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022620\
 Data File : VN060252.D
 Acq On : 26 Feb 2020 15:34
 Operator : JC/MD
 Sample : L1370-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 27 04:34:25 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

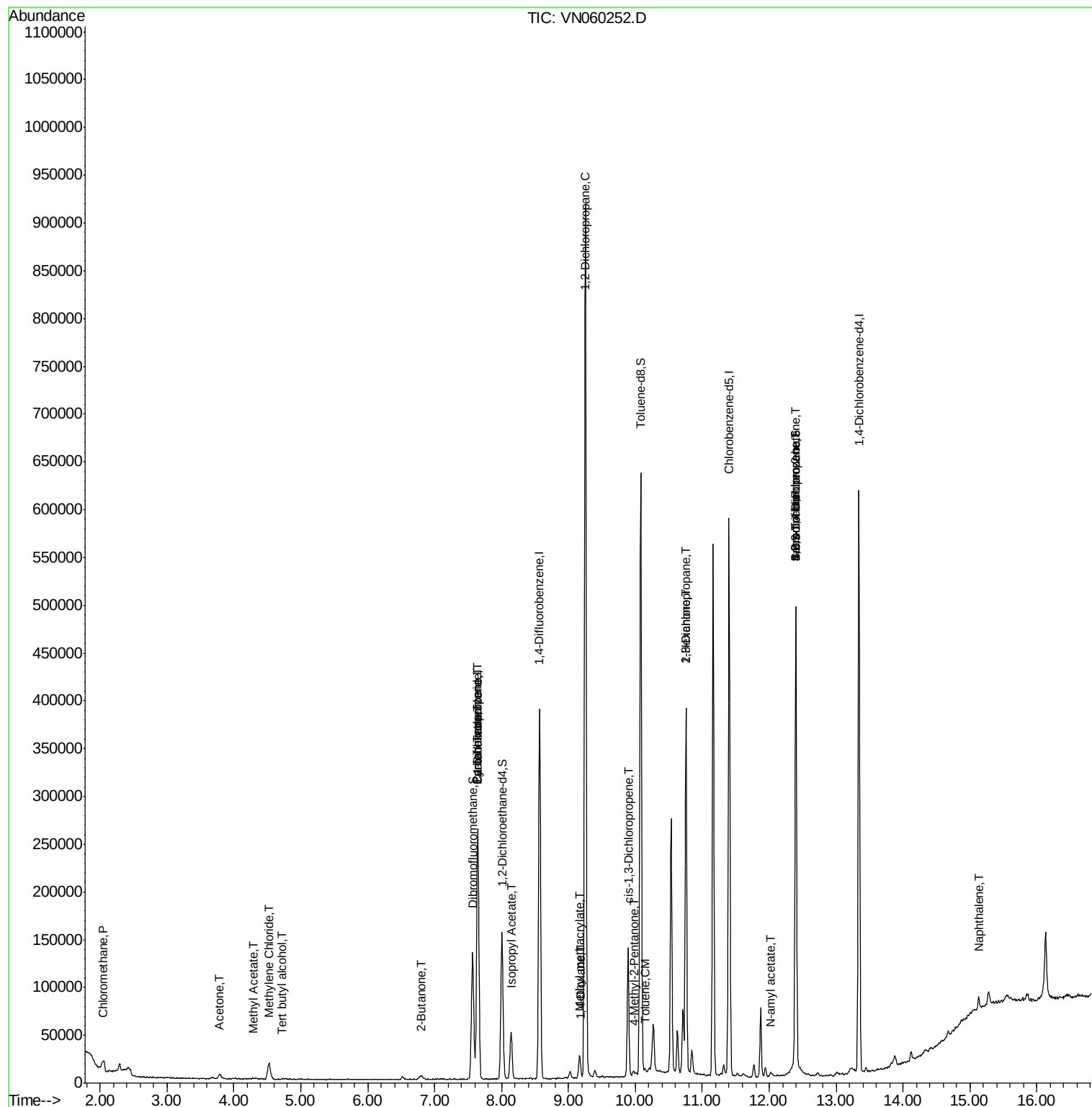
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	213246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	345807	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	327943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158866	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	133908	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
35) Dibromofluoromethane	7.57	113	99818	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
50) Toluene-d8	10.08	98	423857	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	163909	53.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	754	0.297	ug/l	99
11) Tert butyl alcohol	4.72	59	371	0.955	ug/l #	72
16) Acetone	3.79	43	8931	7.891	ug/l	93
18) Methyl Acetate	4.29	43	1103	0.519	ug/l #	88
20) Methylene Chloride	4.52	84	12821	5.678	ug/l	97
25) 2-Butanone	6.81	43	5419	3.807	ug/l #	89
31) Cyclohexane	7.64	56	4872	1.328	ug/l #	27
36) 1,1-Dichloropropene	7.64	75	16324	5.096	ug/l #	46
38) Carbon Tetrachloride	7.64	117	20715	5.955	ug/l #	16
43) Isopropyl Acetate	8.14	43	58353	11.792	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1147	0.488	ug/l #	43
48) Methyl methacrylate	9.16	41	3956	1.782	ug/l #	9
49) 1,4-Dioxane	9.19	88	331	8.726	ug/l #	25
51) 4-Methyl-2-Pentanone	9.97	43	3932	1.373	ug/l	90
52) Toluene	10.14	92	2258	0.371	ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	24648	6.136	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3655	0.932	ug/l #	43
59) 2-Hexanone	10.75	43	58834	26.591	ug/l #	51
71) Bromoform	12.39	173	442	0.217	ug/l #	1
74) N-amyl acetate	12.02	43	3454	0.807	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	84550	27.818	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84550	68.111	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	171	Below Cal	#	1
95) Naphthalene	15.13	128	9443	1.167	ug/l	99

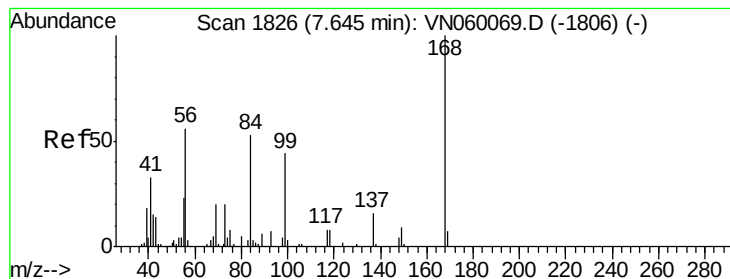
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
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# 1826

Delta R.T. -0.00 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

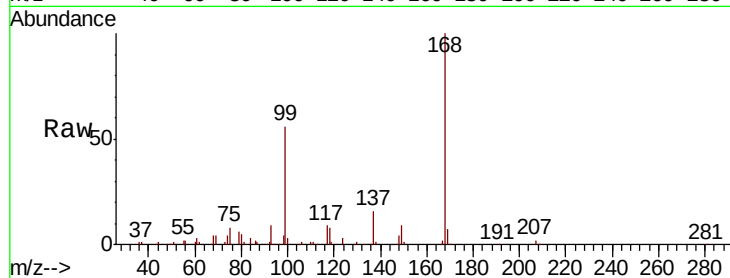
ClientSampleId :

Tot Ion:168 Resp: 213246

Ion Ratio Lower Upper

168 100

99 56.2 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060069.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN060069.D (-1806) (-)

7.64

100000

80000

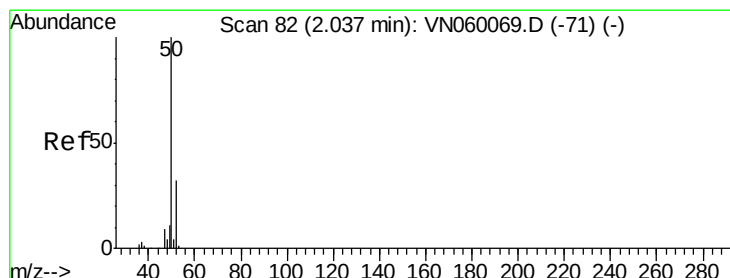
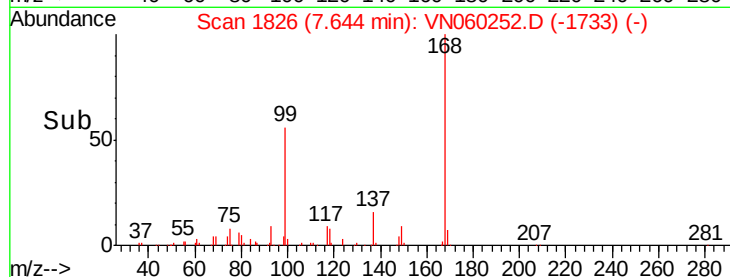
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.297 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN060252.D

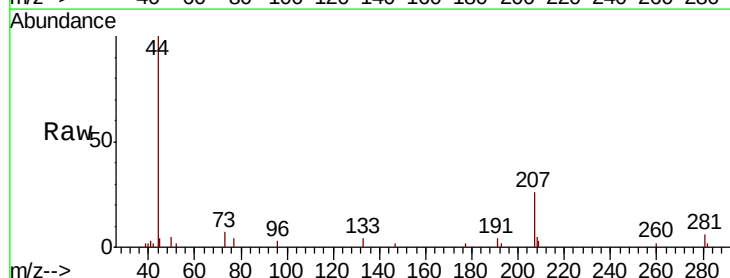
Acq: 26 Feb 2020 15:34

Tgt Ion: 50 Resp: 754

Ion Ratio Lower Upper

50 100

52 31.5 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN060069.D (-71) (-)

Ion 51.90 (51.60 to 52.60): VN060069.D (-71) (-)

2.04

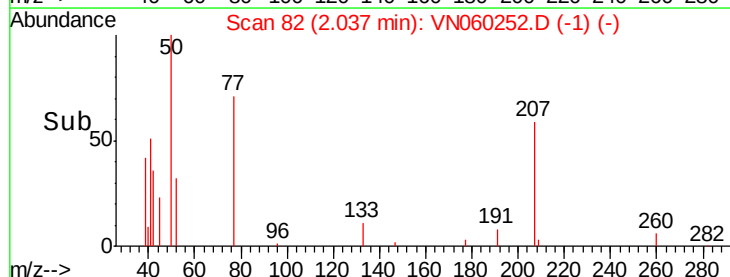
600

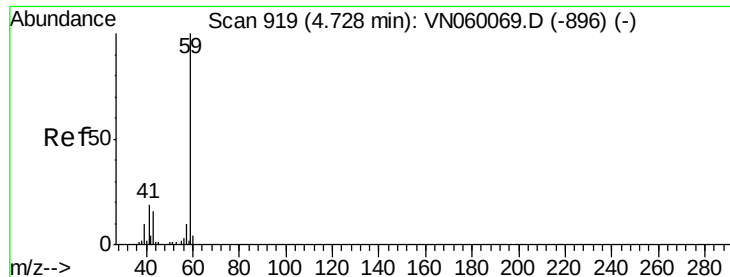
400

200

0

Time-->



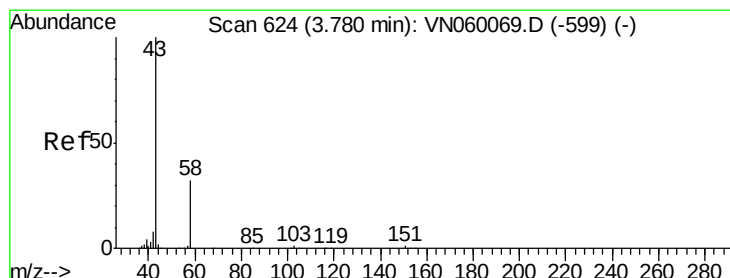
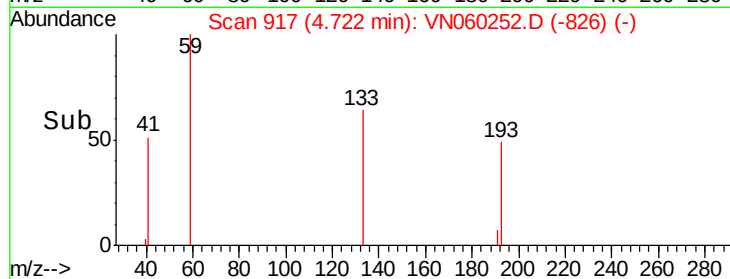
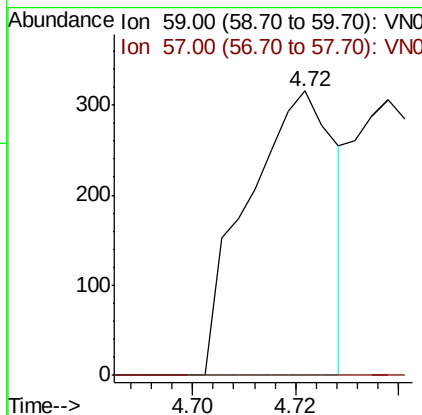
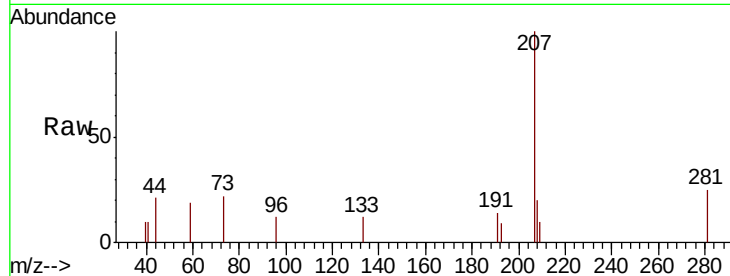


#11

Tert butyl alcohol
 Concen: 0.955 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.01 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

Instrument :
 MSVOA_N
 ClientSampled :

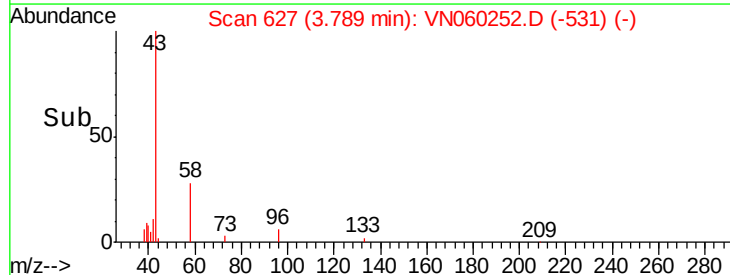
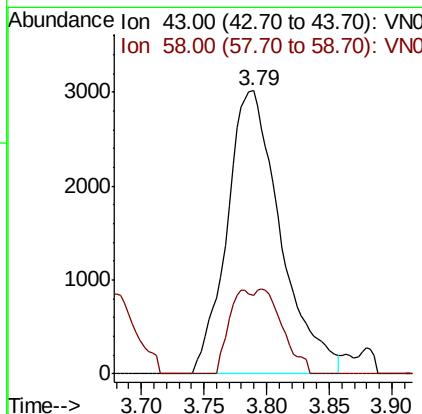
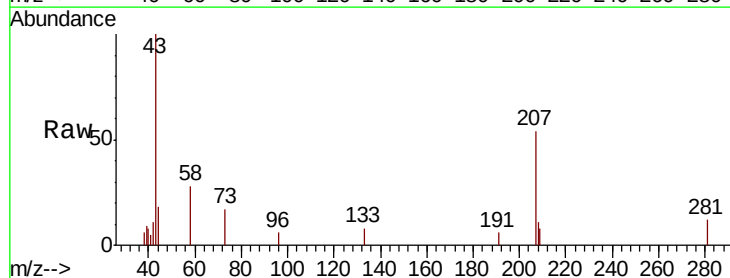
Tot Ion: 59 Resp: 371
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

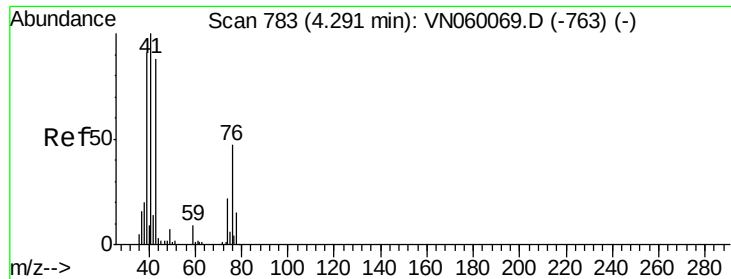


#16

Acetone
 Concen: 7.891 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. 0.01 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

Tgt Ion: 43 Resp: 8931
 Ion Ratio Lower Upper
 43 100
 58 27.9 25.2 37.8

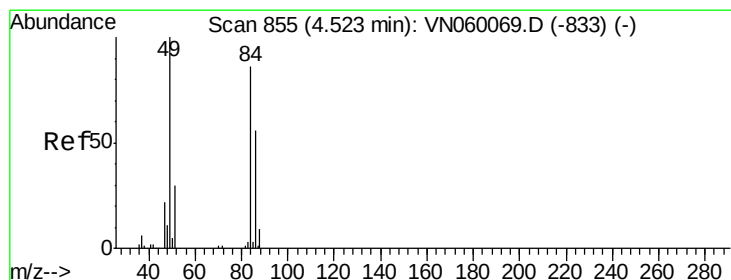
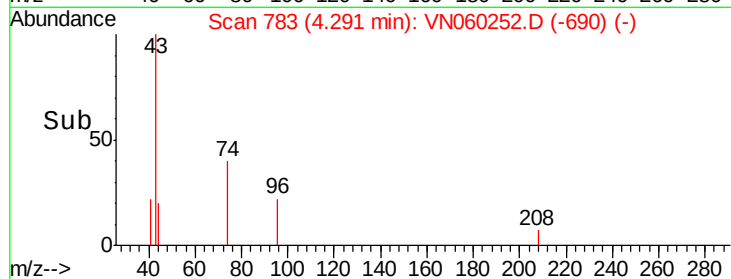
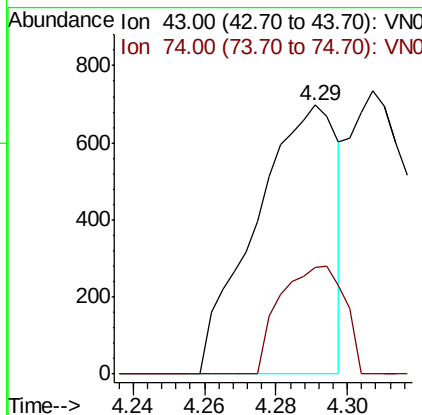
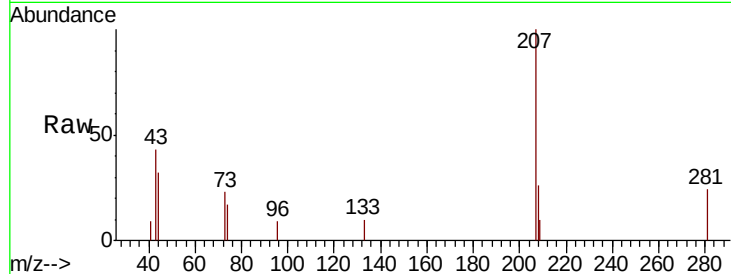




#18
Methyl Acetate
Concen: 0.519 ug/l
RT: 4.29 min Scan# 783
Delta R.T. -0.00 min
Lab File: VN060252.D
Acq: 26 Feb 2020 15:34

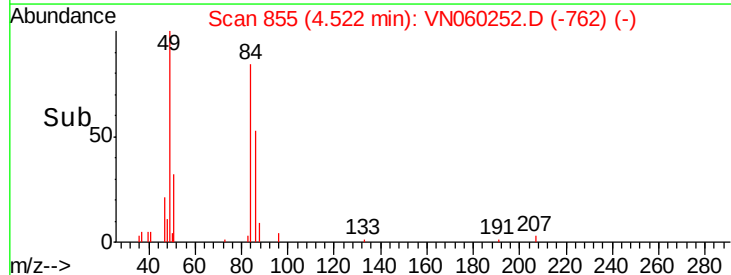
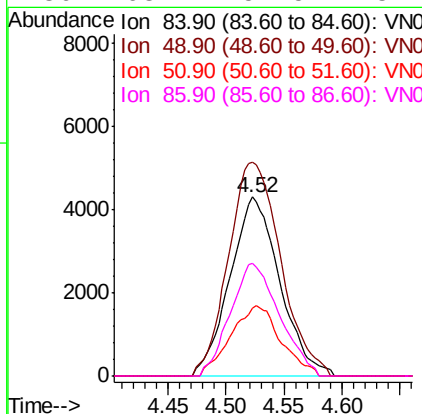
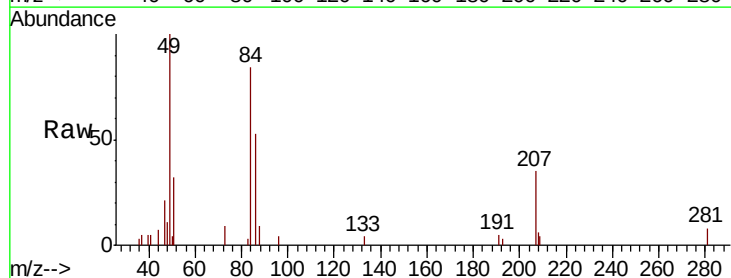
Instrument :
MSVOA_N
ClientSampled :

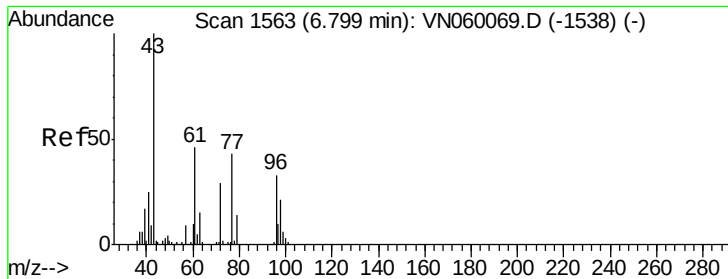
Tot Ion: 43 Resp: 1103
Ion Ratio Lower Upper
43 100
74 31.6 20.3 30.5#



#20
Methylene Chloride
Concen: 5.678 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060252.D
Acq: 26 Feb 2020 15:34

Tgt Ion: 84 Resp: 12821
Ion Ratio Lower Upper
84 100
49 119.6 93.4 140.0
51 38.0 28.4 42.6
86 63.4 52.5 78.7





#25

2-Butanone

Concen: 3.807 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

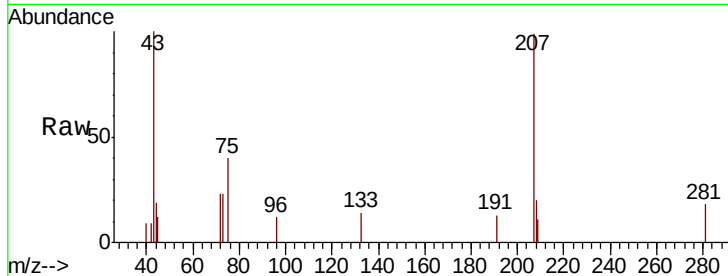
ClientSampleId :

Tot Ion: 43 Resp: 5419

Ion Ratio Lower Upper

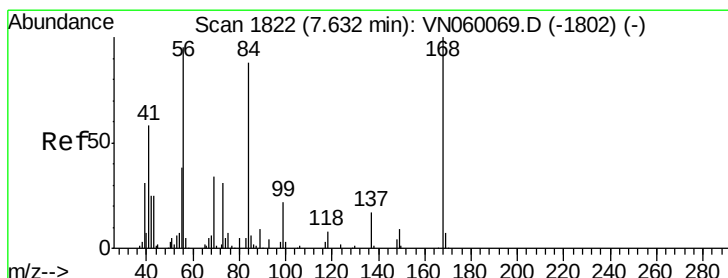
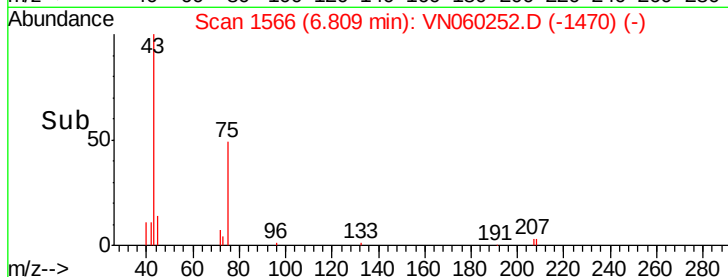
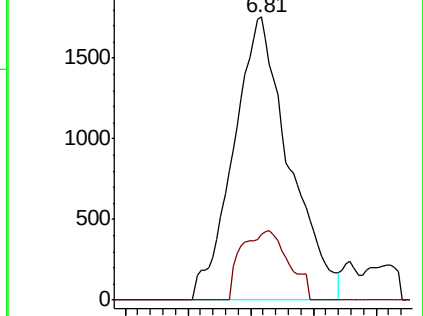
43 100

72 23.1 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.328 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

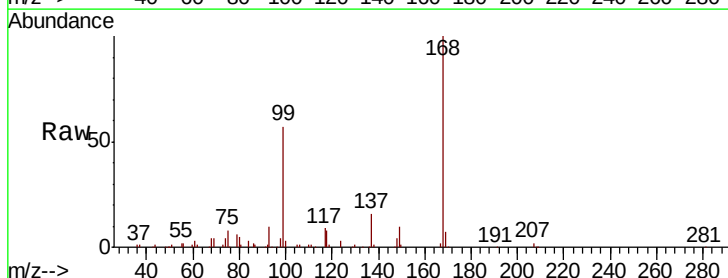
Tgt Ion: 56 Resp: 4872

Ion Ratio Lower Upper

56 100

69 159.4 28.3 42.5#

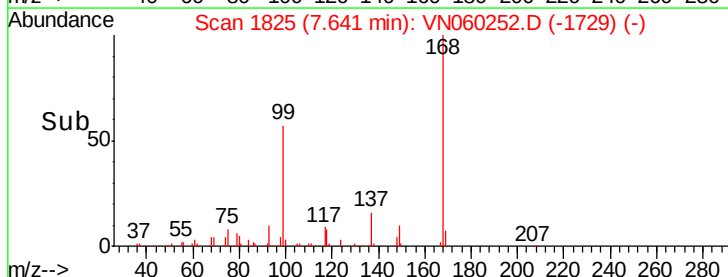
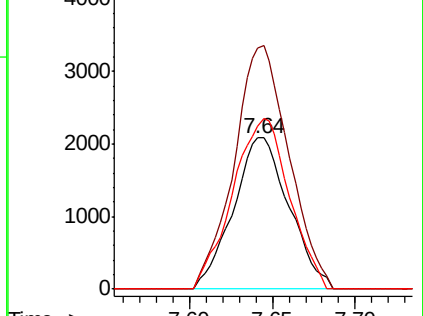
84 108.0 72.6 108.8

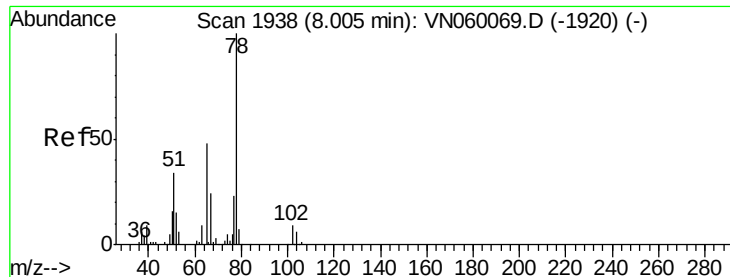


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

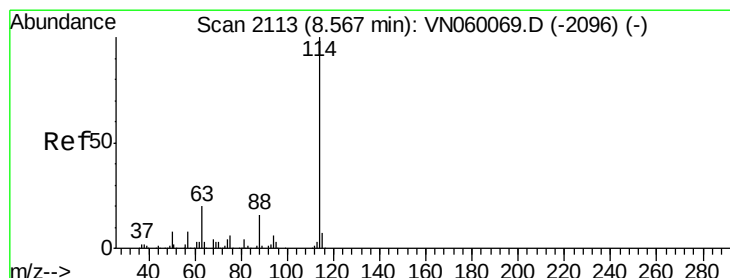
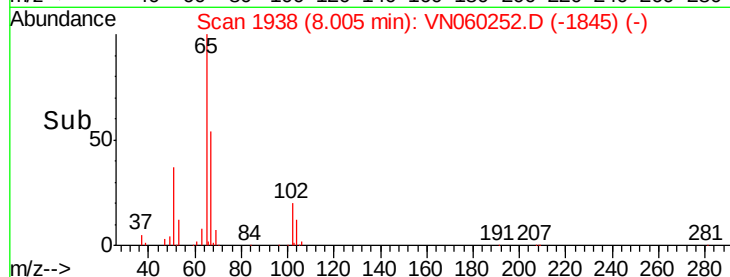
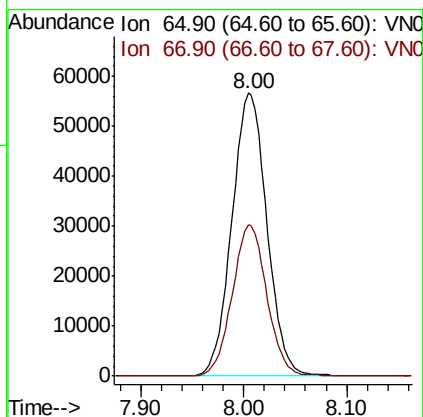
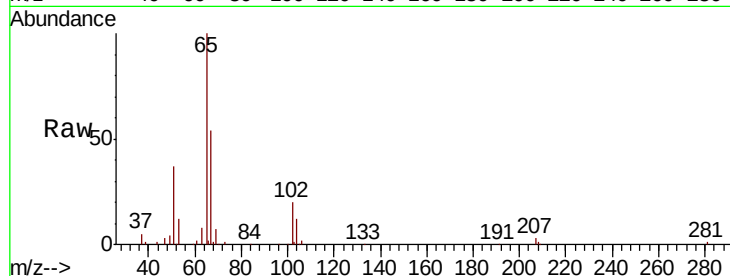




#33
 1,2-Dichloroethane-d4
 Concen: 51.605 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

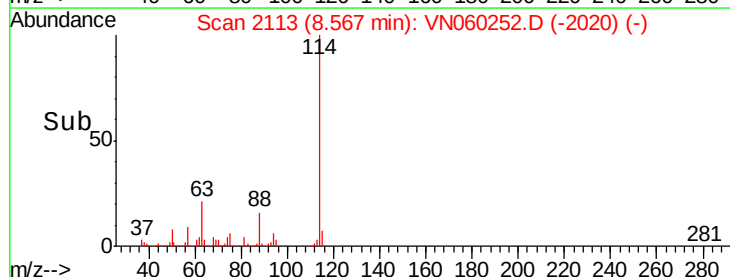
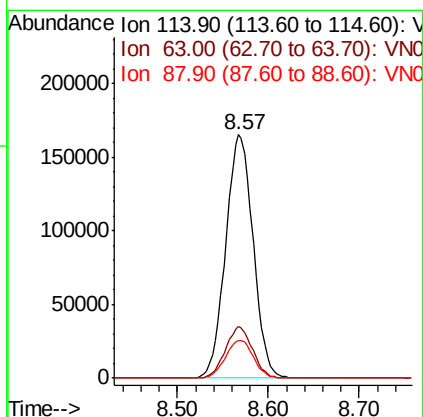
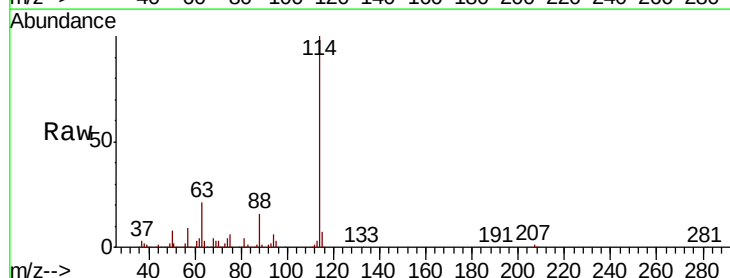
Instrument :
 MSVOA_N
 ClientSampleId :

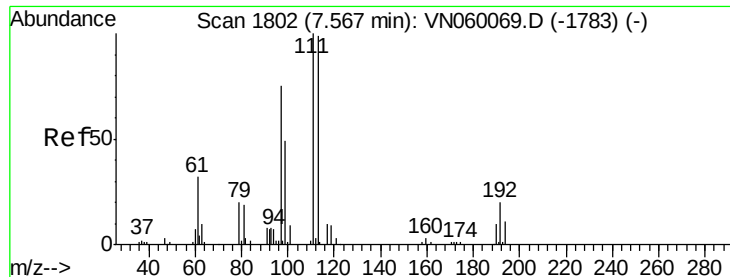
Tot Ion: 65 Resp: 133908
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

Tgt Ion: 114 Resp: 345807
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.0
 88 15.6 0.0 31.6

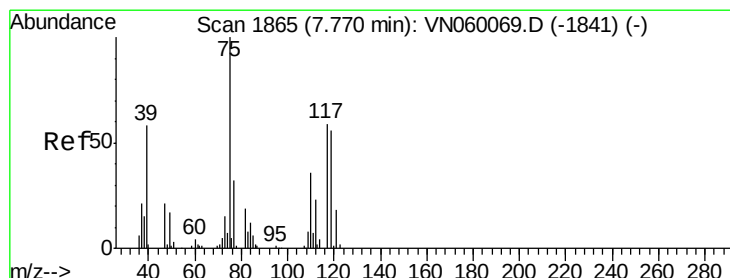
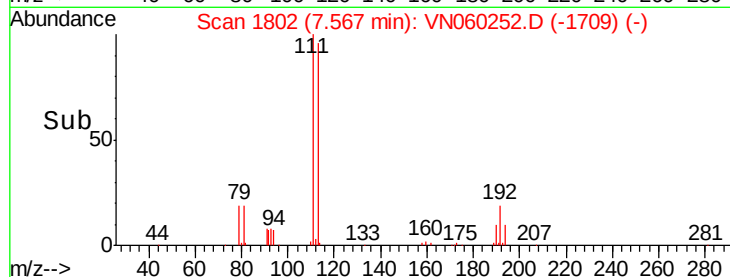
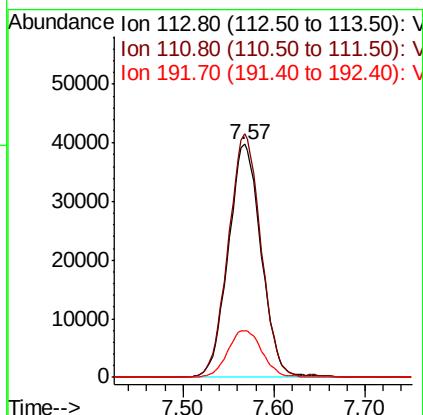
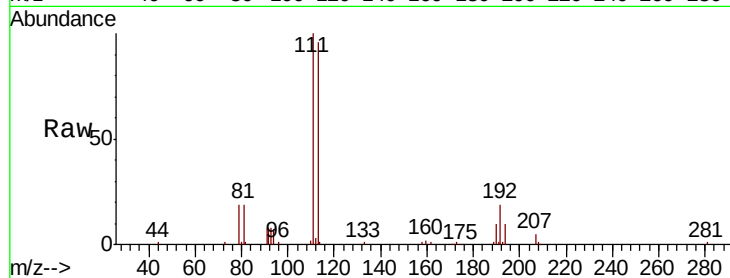




#35
 Dibromofluoromethane
 Concen: 46.958 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

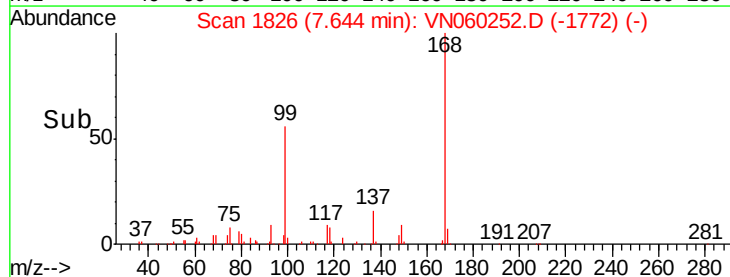
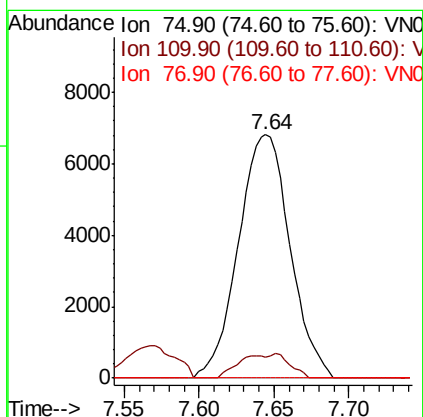
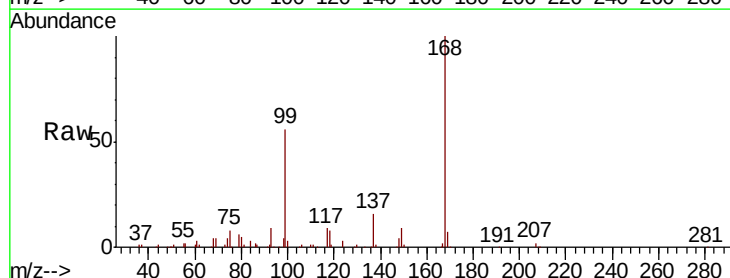
Instrument :
 MSVOA_N
 ClientSampleId :

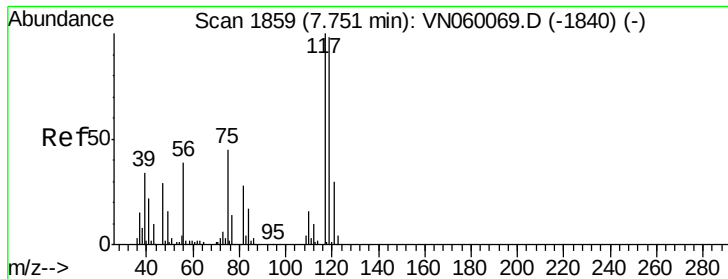
Tot Ion:113 Resp: 99818
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.4 122.2
 192 21.0 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.096 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

Tgt Ion: 75 Resp: 16324
 Ion Ratio Lower Upper
 75 100
 110 5.5 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.955 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

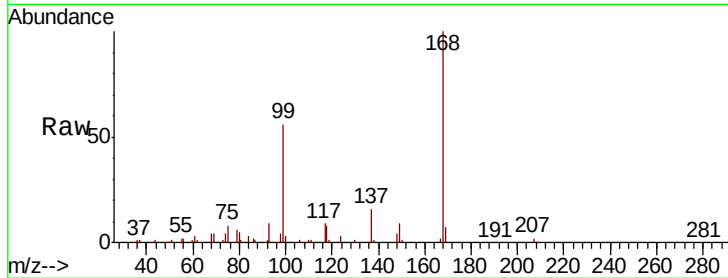
Tot Ion:117 Resp: 20715

Ion Ratio Lower Upper

117 100

119 6.4 78.2 117.4#

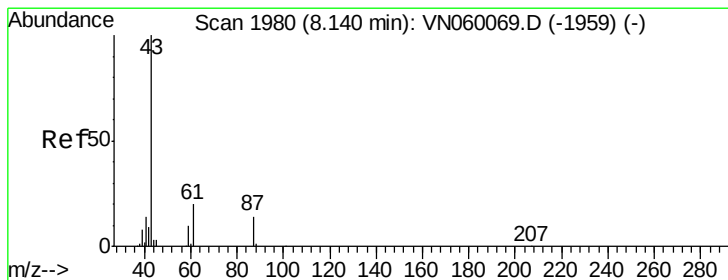
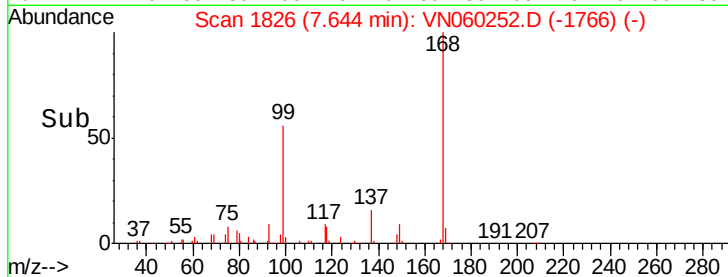
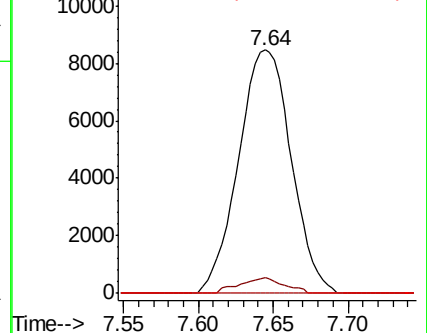
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.792 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

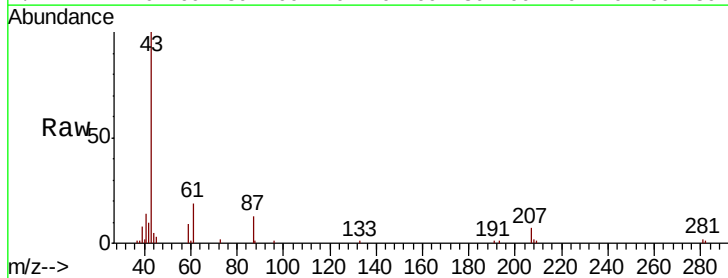
Tgt Ion: 43 Resp: 58353

Ion Ratio Lower Upper

43 100

61 19.5 21.8 32.6#

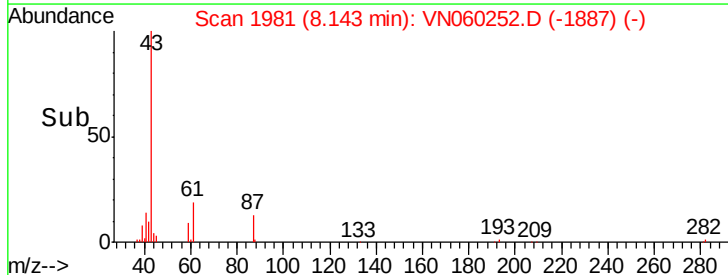
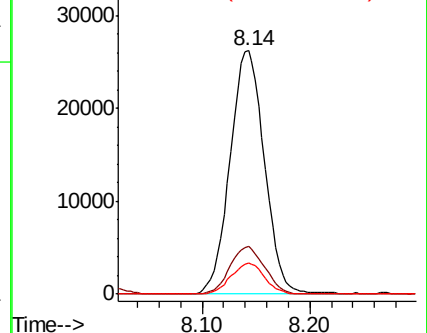
87 12.3 11.4 17.2

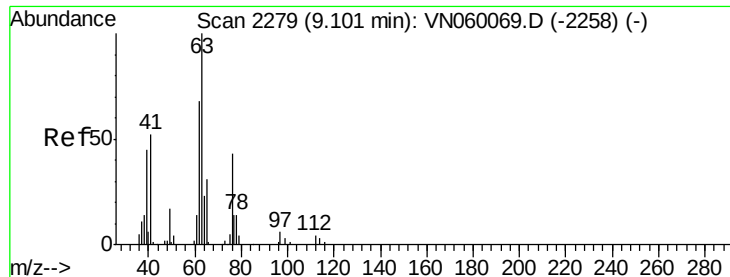


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

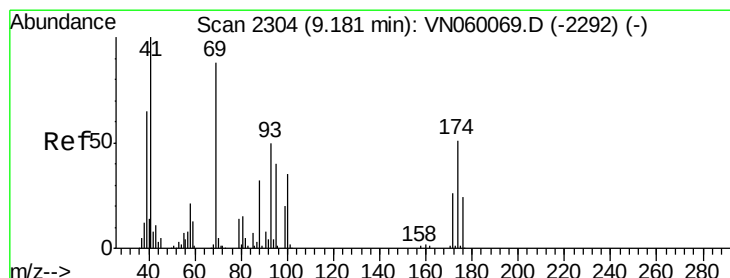
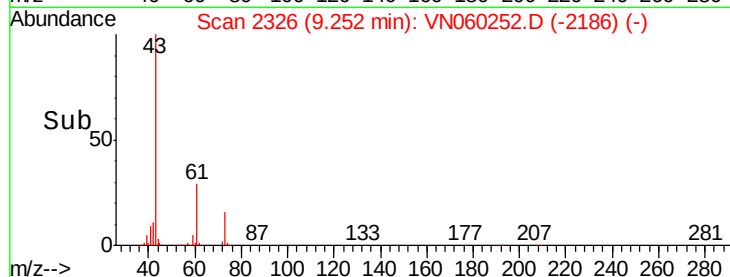
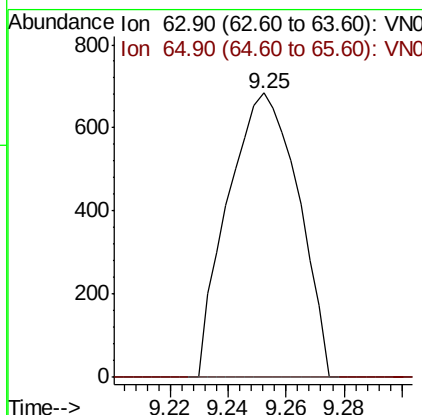
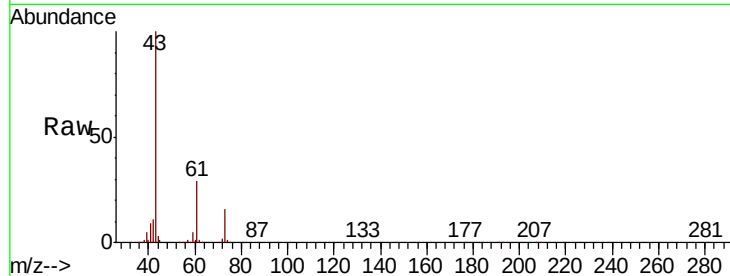




#45
 1,2-Dichloropropane
 Concen: 0.488 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

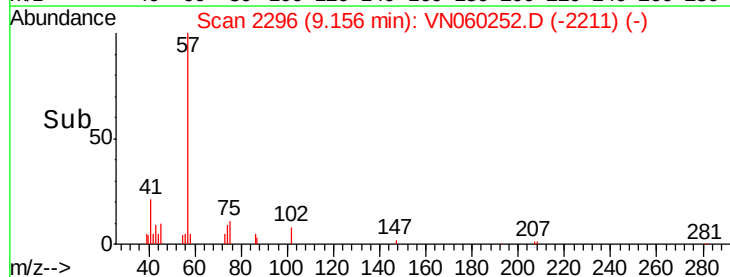
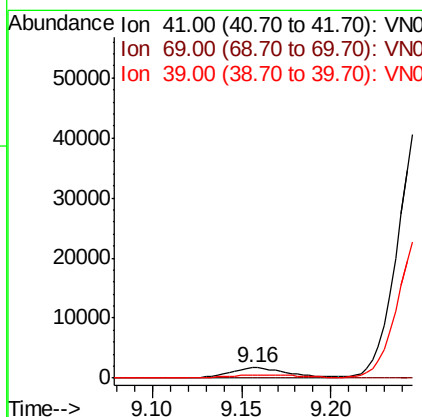
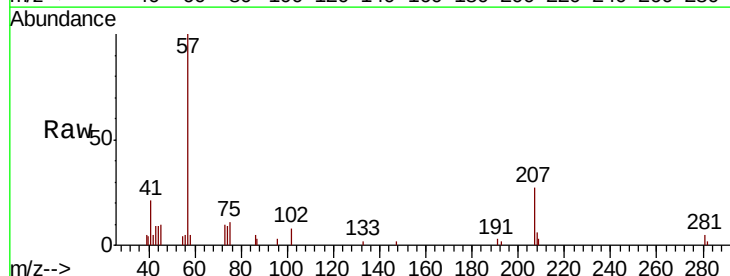
Instrument :
 MSVOA_N
 ClientSampleId :

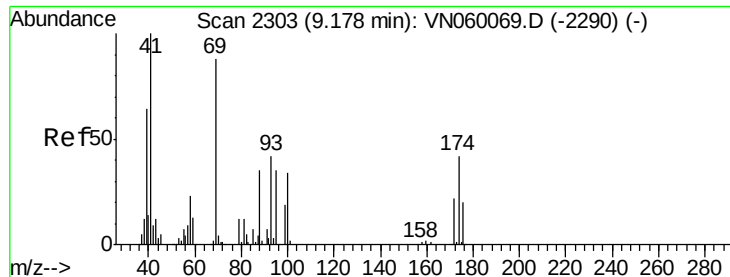
Tot Ion: 63 Resp: 1147
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.782 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.03 min
 Lab File: VN060252.D
 Acq: 26 Feb 2020 15:34

Tgt Ion: 41 Resp: 3956
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#

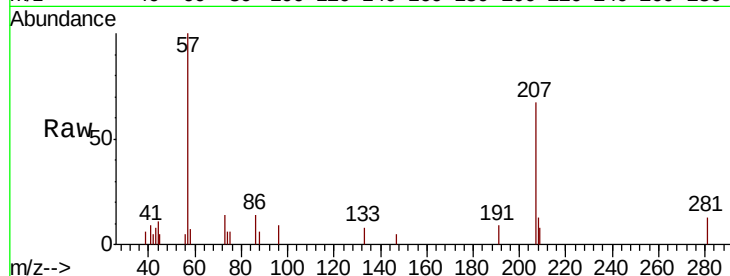




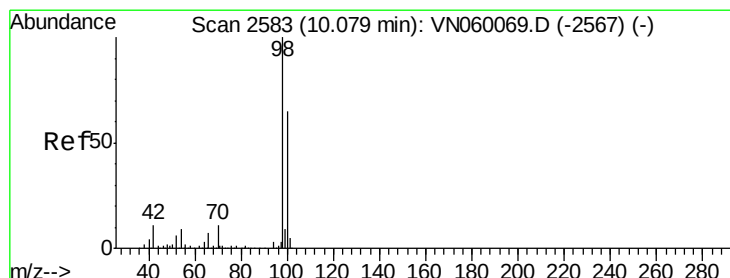
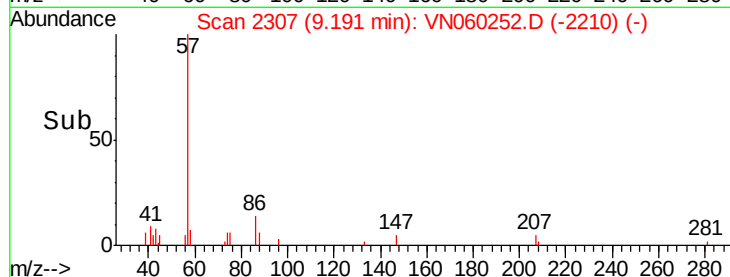
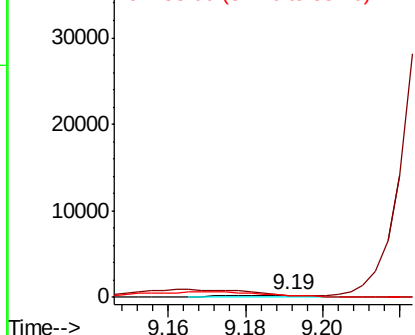
#49
1,4-Dioxane
Concen: 8.726 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.01 min
Lab File: VN060252.D
Acq: 26 Feb 2020 15:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 331
Ion Ratio Lower Upper
88 100
43 0.0 26.2 39.2#
58 0.0 53.2 79.8#

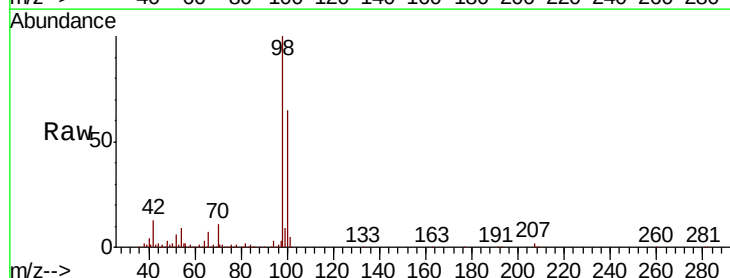


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

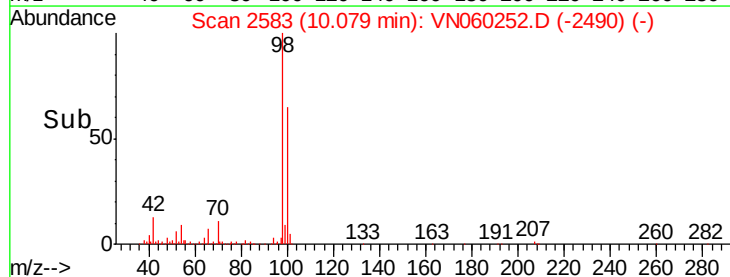
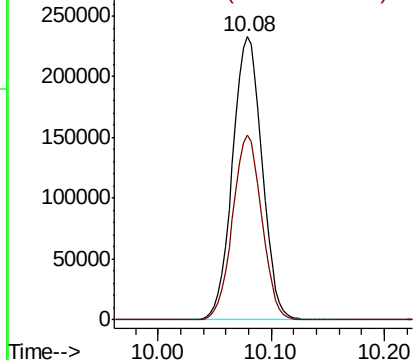


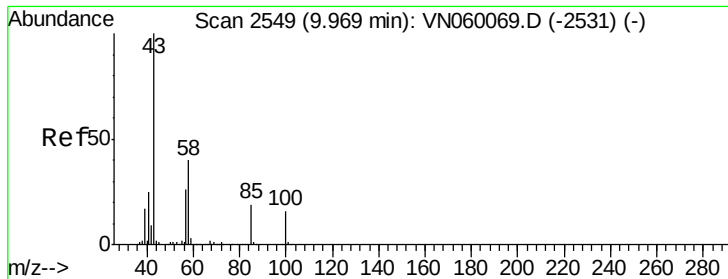
#50
Toluene-d8
Concen: 50.635 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060252.D
Acq: 26 Feb 2020 15:34

Tgt Ion: 98 Resp: 423857
Ion Ratio Lower Upper
98 100
100 64.5 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: 1.373 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

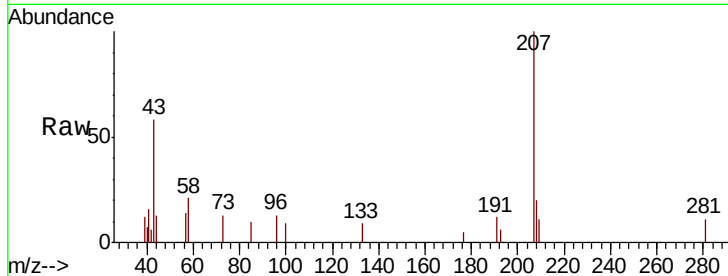
ClientSampled :

Tot Ion: 43 Resp: 3932

Ion Ratio Lower Upper

43 100

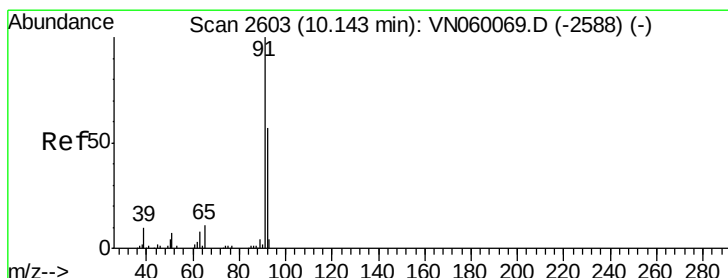
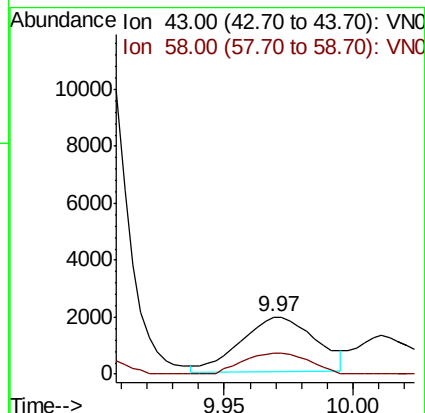
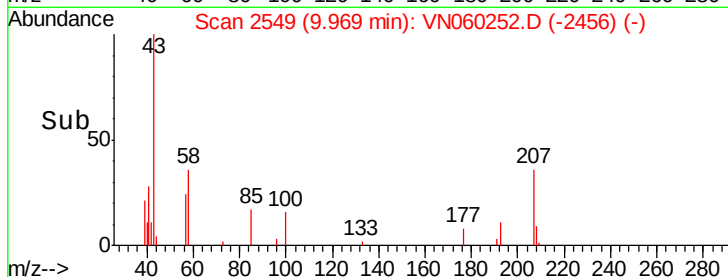
58 33.5 31.8 47.8



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

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

Time-->



#52

Toluene

Concen: 0.371 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060252.D

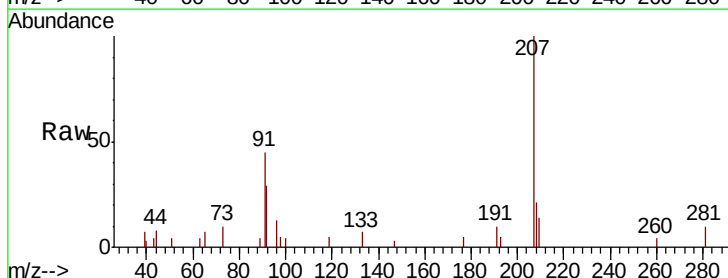
Acq: 26 Feb 2020 15:34

Tgt Ion: 92 Resp: 2258

Ion Ratio Lower Upper

92 100

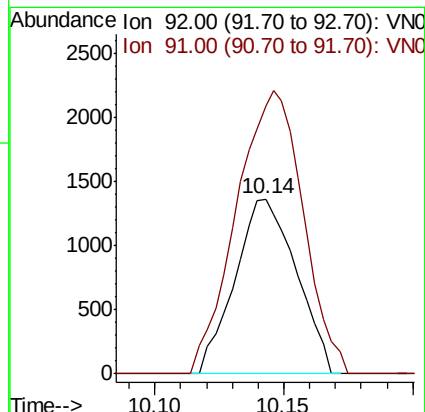
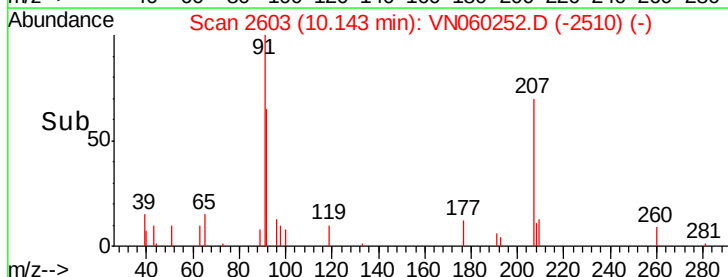
91 176.3 140.9 211.3

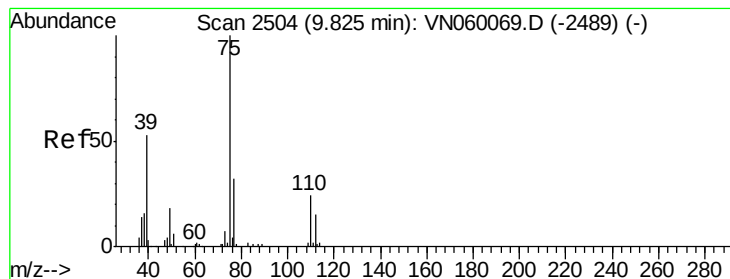


Abundance Ion 92.00 (91.70 to 92.70): VN060069.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN060069.D (-2588) (-)

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.136 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

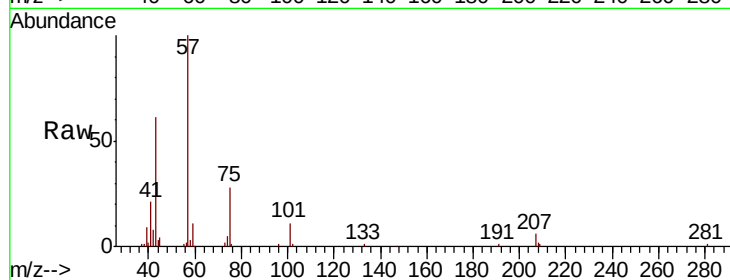
Tot Ion: 75 Resp: 24648

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

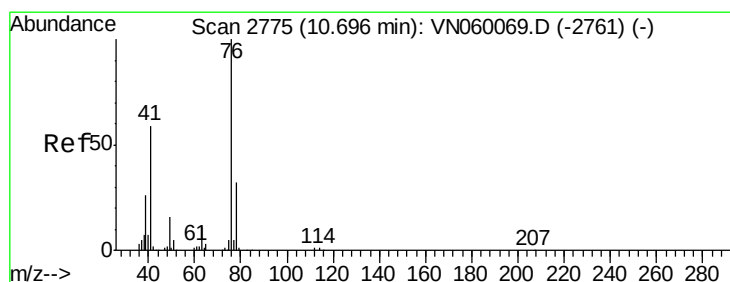
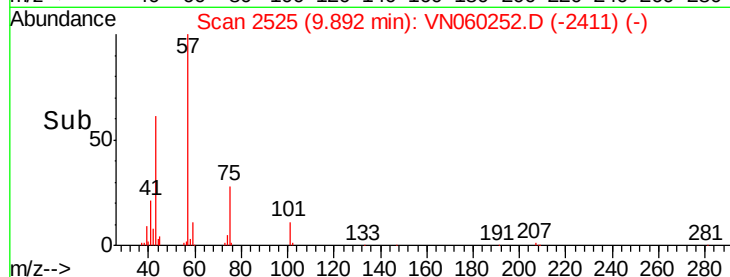
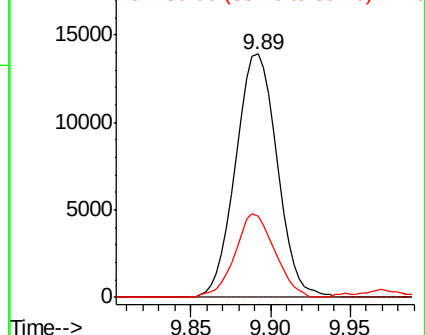
39 33.1 42.2 63.4#



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: 0.932 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060252.D

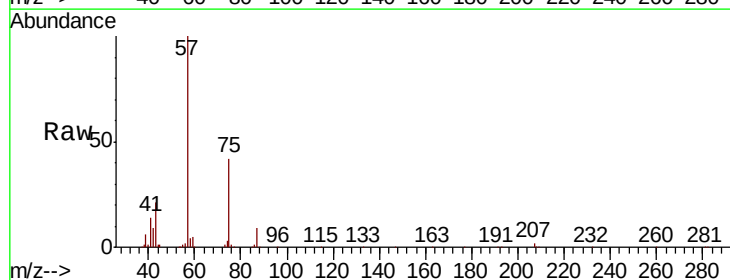
Acq: 26 Feb 2020 15:34

Tgt Ion: 76 Resp: 3655

Ion Ratio Lower Upper

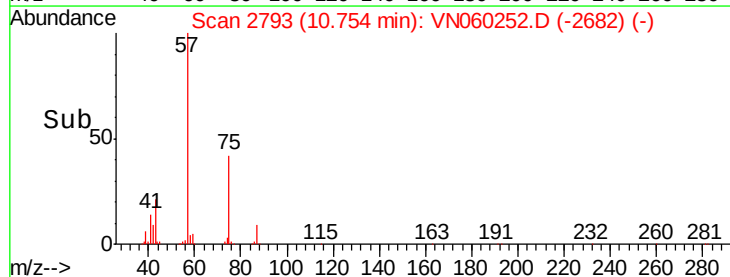
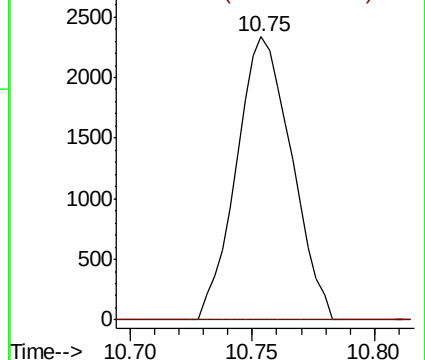
76 100

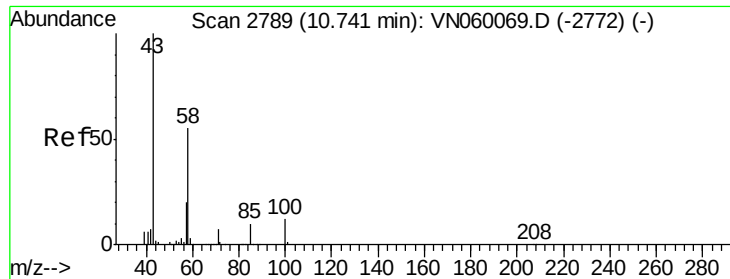
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

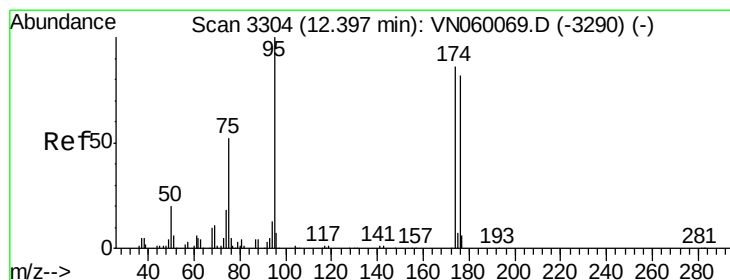
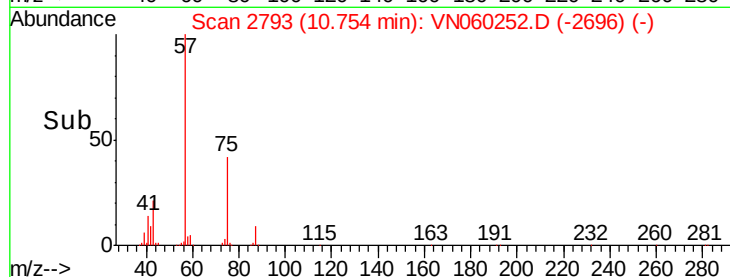
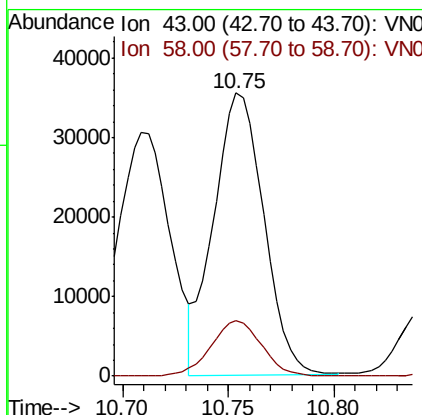
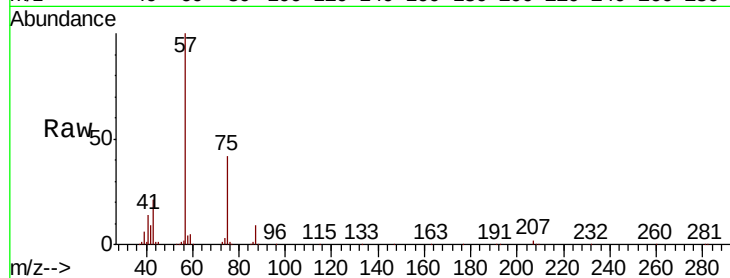




#59
2-Hexanone
Concen: 26.591 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060252.D
Acq: 26 Feb 2020 15:34

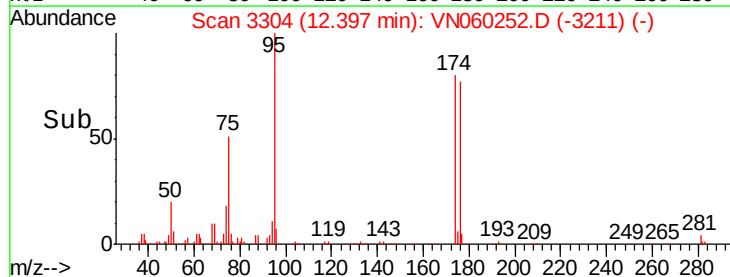
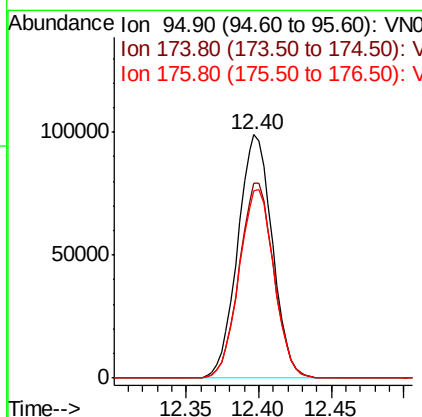
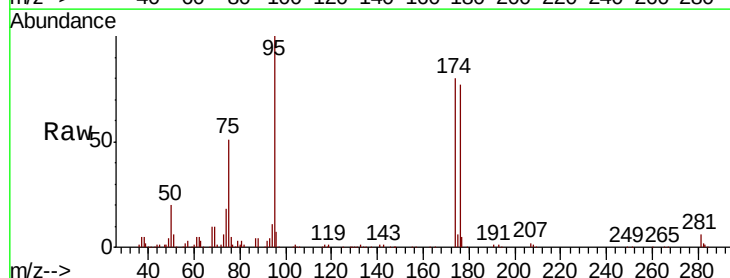
Instrument :
MSVOA_N
ClientSampleId :

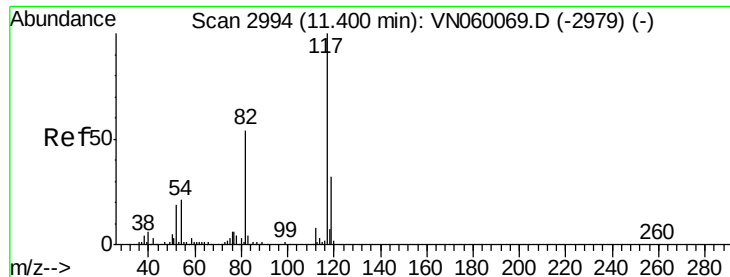
Tot Ion: 43 Resp: 58834
Ion Ratio Lower Upper
43 100
58 19.9 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 53.288 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060252.D
Acq: 26 Feb 2020 15:34

Tgt Ion: 95 Resp: 163909
Ion Ratio Lower Upper
95 100
174 79.9 0.0 169.8
176 78.3 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: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

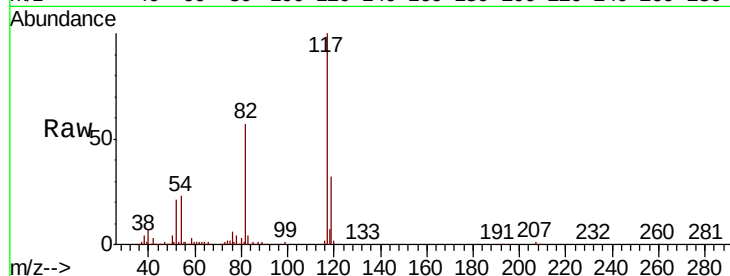
Tot Ion:117 Resp: 327943

Ion Ratio Lower Upper

117 100

82 56.8 43.4 65.0

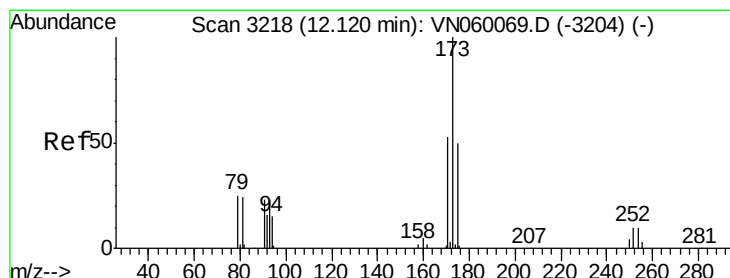
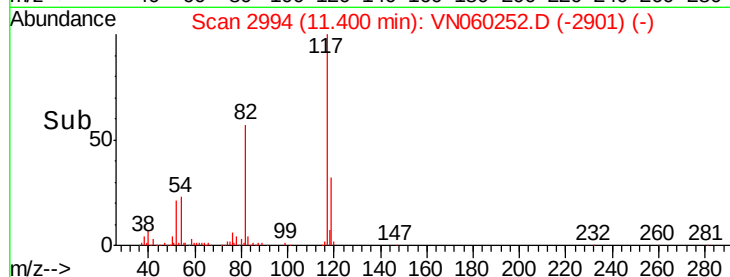
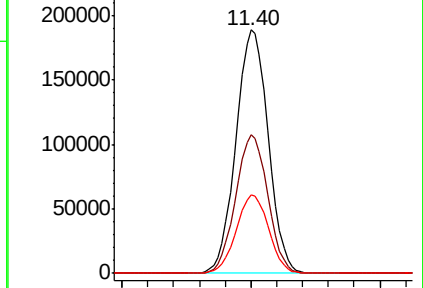
119 32.2 25.8 38.6



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: 0.217 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

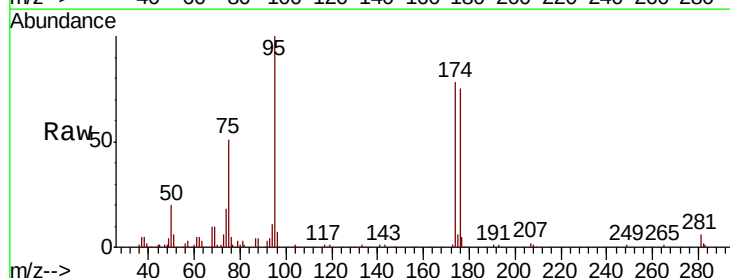
Tgt Ion:173 Resp: 442

Ion Ratio Lower Upper

173 100

175 1876.0 24.9 74.6#

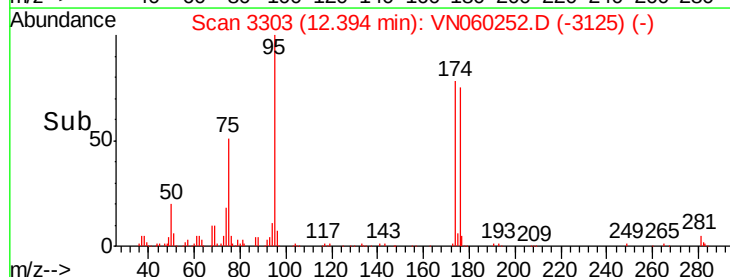
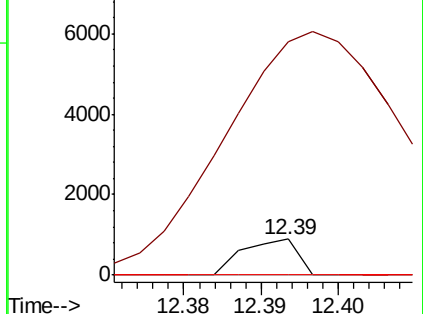
254 0.0 0.0 0.0

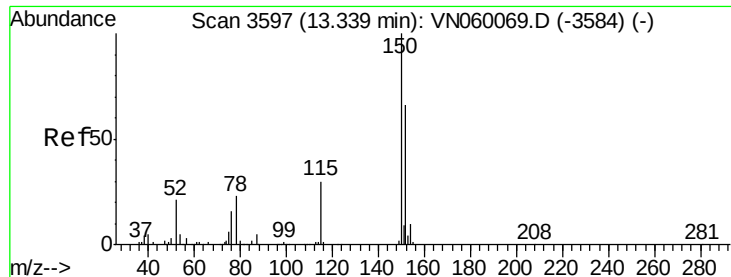


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

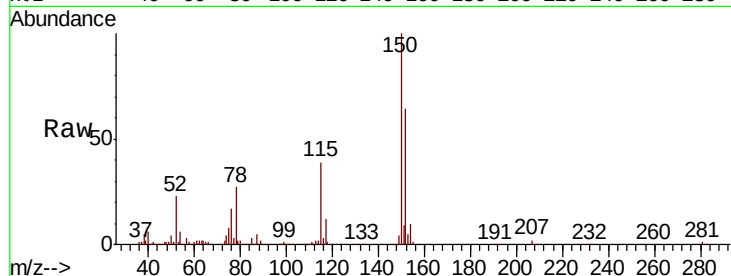
Tot Ion:152 Resp: 158866

Ion Ratio Lower Upper

152 100

115 60.3 28.9 86.8

150 156.3 0.0 342.4

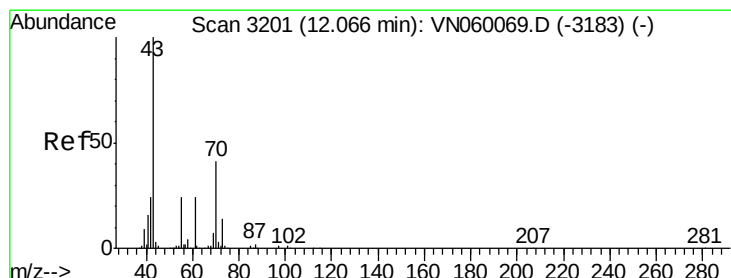
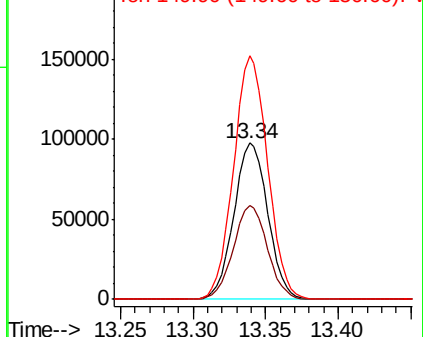
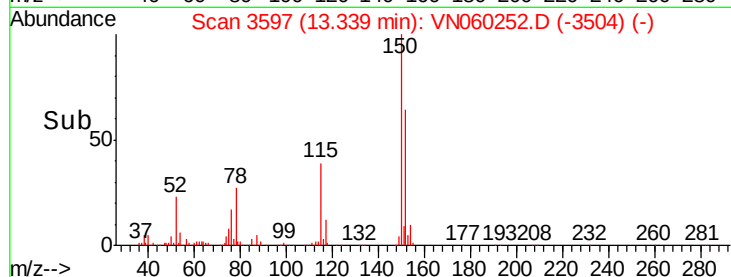


Abundance

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: 0.807 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.05 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Tgt Ion: 43 Resp: 3454

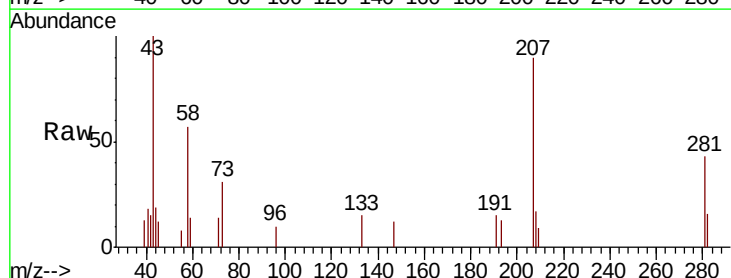
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 2.8 18.8 28.2#

61 0.0 19.2 28.8#



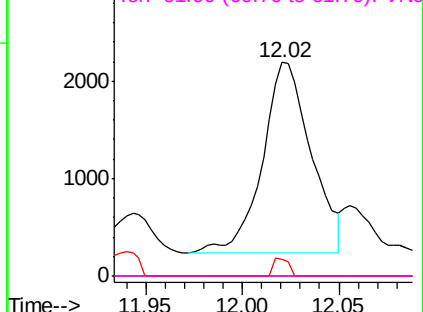
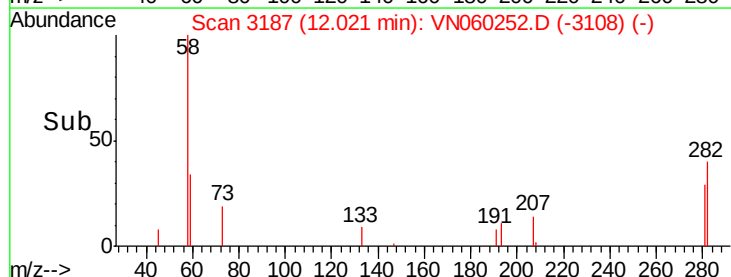
Abundance

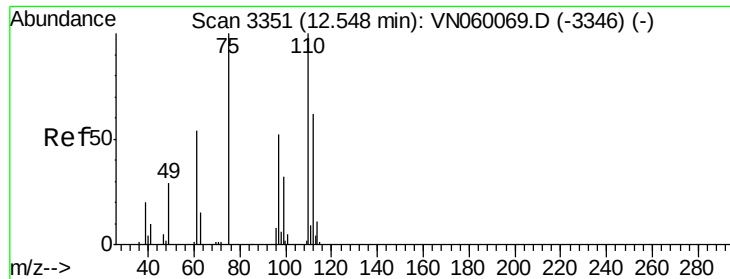
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.818 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

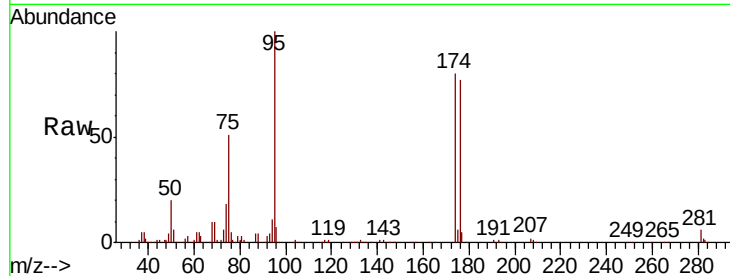
ClientSampled :

Tot Ion: 75 Resp: 84550

Ion Ratio Lower Upper

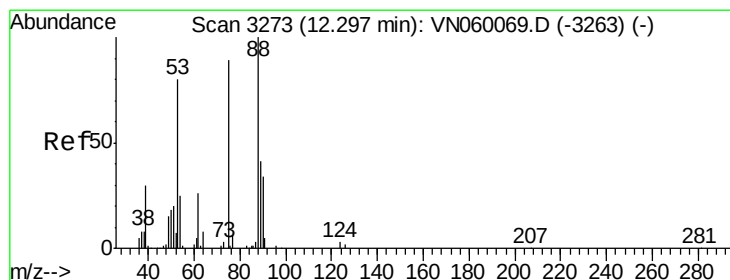
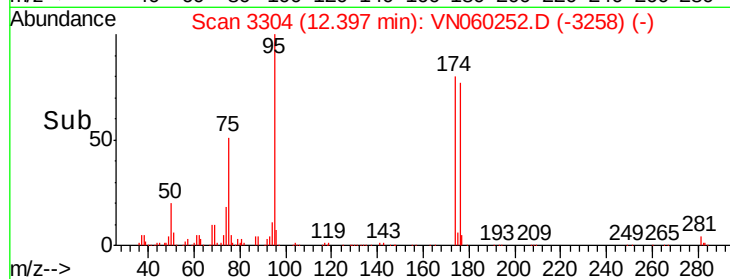
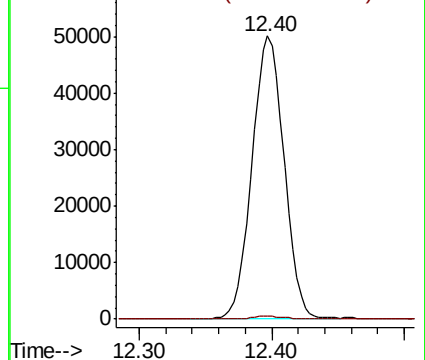
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 68.111 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

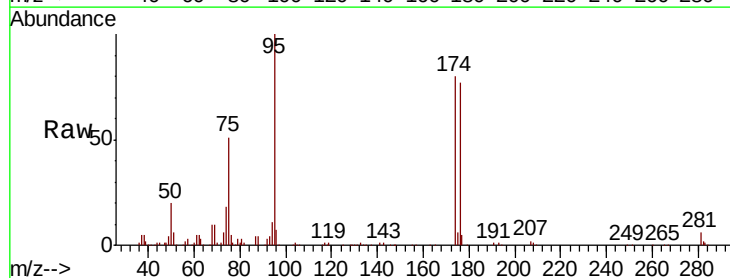
Tgt Ion: 75 Resp: 84550

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

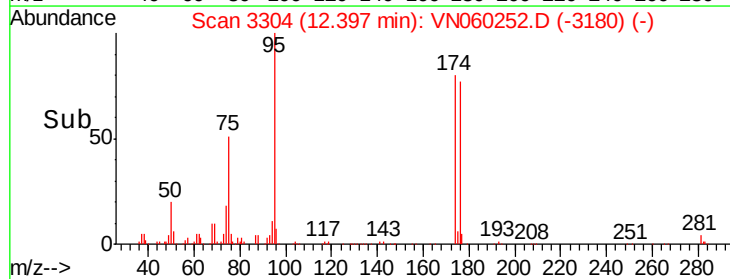
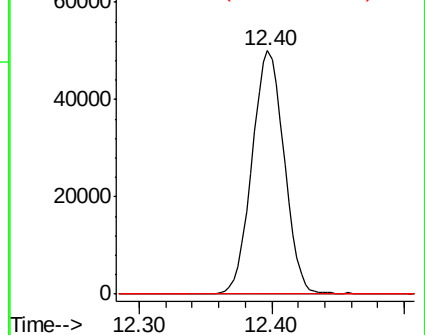
89 0.1 37.0 55.4#

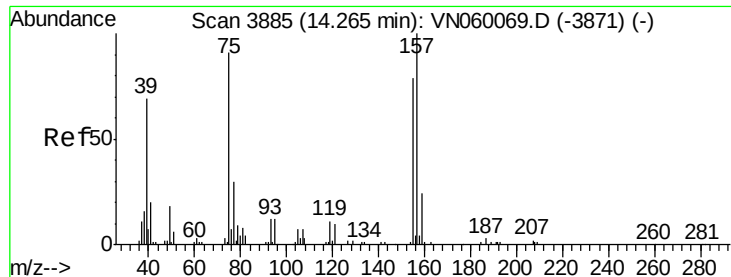


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3882

Delta R.T. -0.01 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

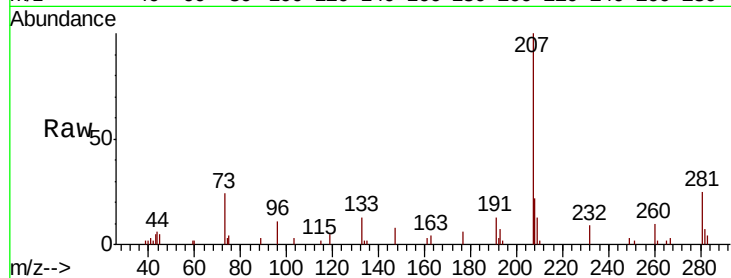
Tot Ion: 75 Resp: 171

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

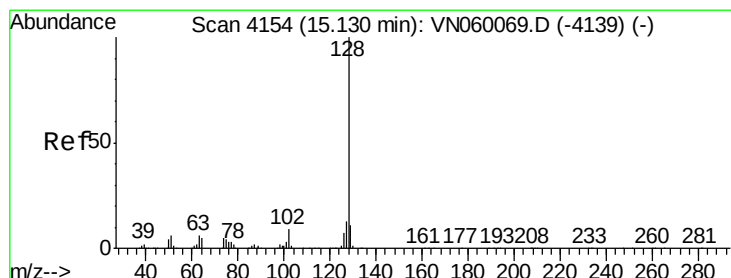
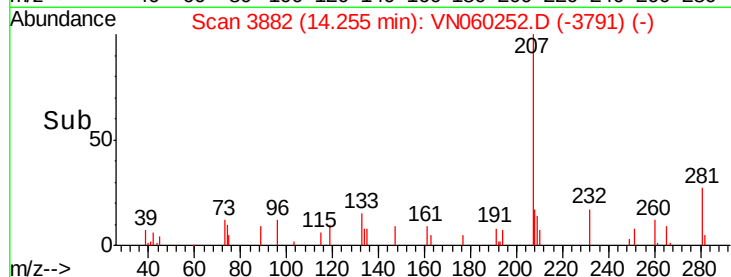
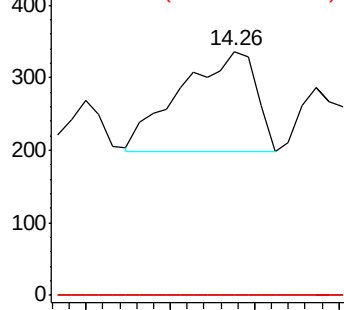
157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 1.167 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN060252.D

Acq: 26 Feb 2020 15:34

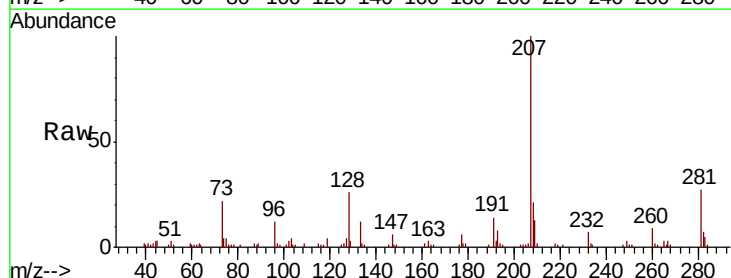
Tgt Ion: 128 Resp: 9443

Ion Ratio Lower Upper

128 100

127 12.4 10.3 15.5

129 11.3 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

