

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032620\
 Data File : VN060717.D
 Acq On : 26 Mar 2020 16:24
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Mar 27 05:34:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200499	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	330933	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136933	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	128361	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
35) Dibromofluoromethane	7.56	113	98006	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	10.08	98	404917	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
62) 4-Bromofluorobenzene	12.40	95	150754	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	

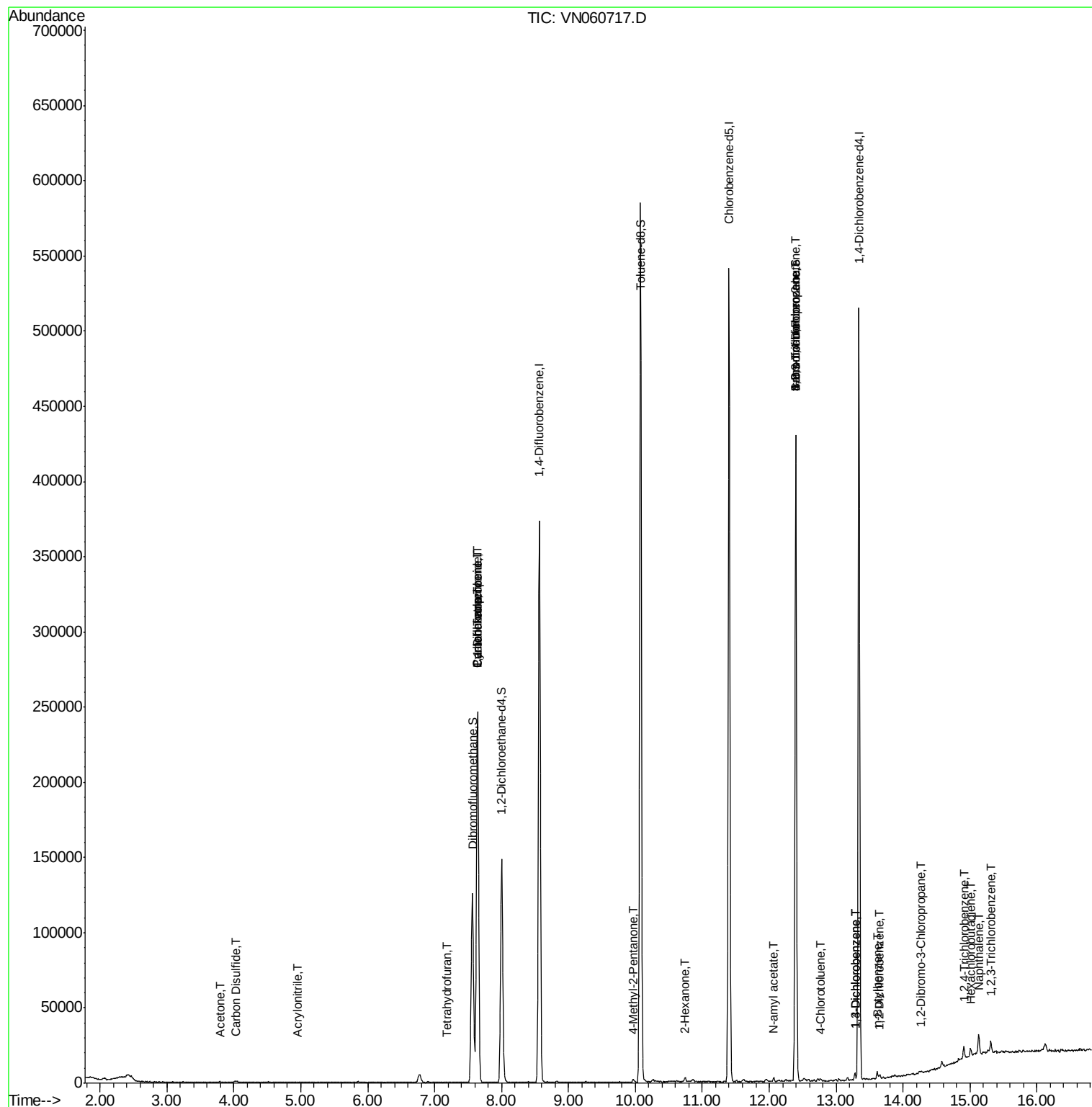
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acrylonitrile	4.95	53	279	0.234	ug/l #	78
16) Acetone	3.79	43	1034	1.061	ug/l	92
17) Carbon Disulfide	4.03	76	2353	0.356	ug/l #	75
29) Tetrahydrofuran	7.17	42	249	0.223	ug/l #	35
31) Cyclohexane	7.65	56	4201	0.948	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15577	4.861	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18950	6.598	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	1932	0.595	ug/l #	80
59) 2-Hexanone	10.74	43	2687	1.148	ug/l	76
71) Bromoform	12.40	173	431	1.907	ug/l #	1
74) N-amyl acetate	12.07	43	1921	0.405	ug/l #	66
76) 1,2,3-Trichloropropane	12.40	75	76205	25.791	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76205	66.239	ug/l #	13
82) 4-Chlorotoluene	12.77	91	1774	0.240	ug/l	88
87) 1,3-Dichlorobenzene	13.28	146	1252	0.287	ug/l	94
88) 1,4-Dichlorobenzene	13.28	146	1252	0.285	ug/l	92
89) n-Butylbenzene	13.61	91	3067	0.389	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	1179	0.282	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.26	75	337	0.251	ug/l #	18
93) 1,2,4-Trichlorobenzene	14.91	180	2755	1.074	ug/l	92
94) Hexachlorobutadiene	15.00	225	1326	1.055	ug/l	84
95) Naphthalene	15.13	128	10596	1.374	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	3194	1.264	ug/l	89

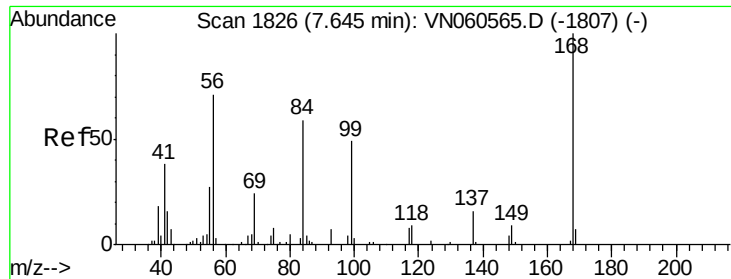
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 18 08:49:09 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: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

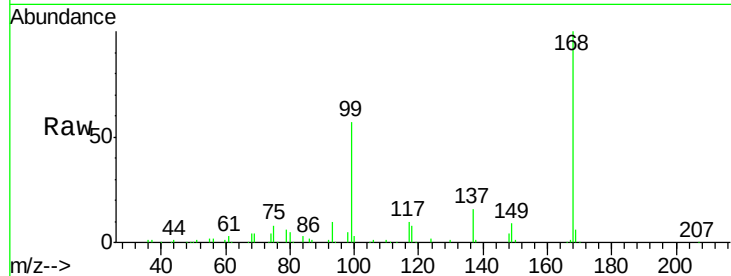
IBLK

Tgt Ion: 168 Resp: 200499

Ion Ratio Lower Upper

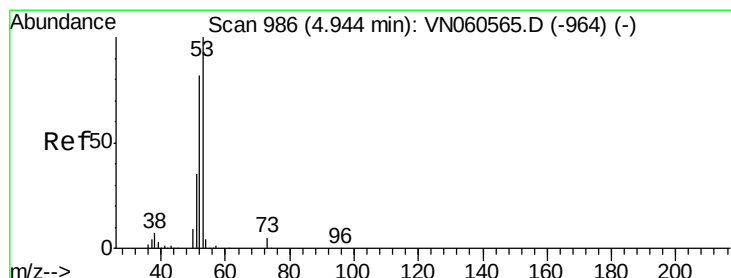
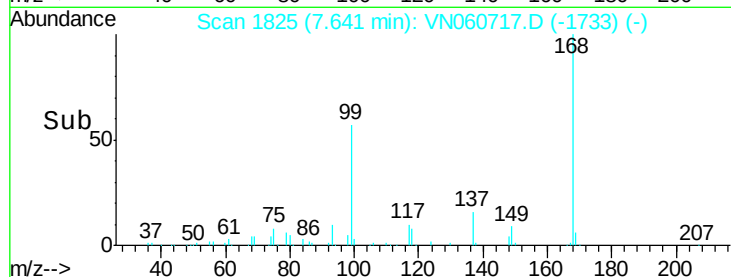
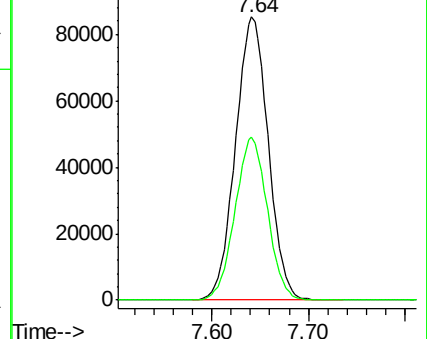
168 100

99 57.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#15

Acrylonitrile

Concen: 0.234 ug/l

RT: 4.95 min Scan# 987

Delta R.T. 0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

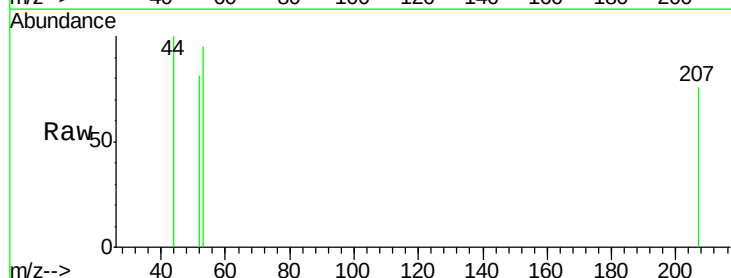
Tgt Ion: 53 Resp: 279

Ion Ratio Lower Upper

53 100

52 78.1 66.2 99.4

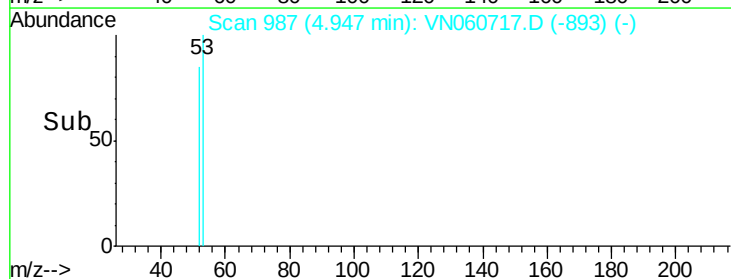
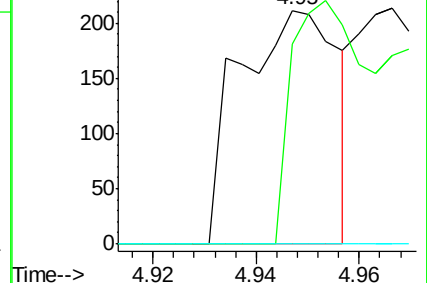
51 0.0 28.7 43.1#

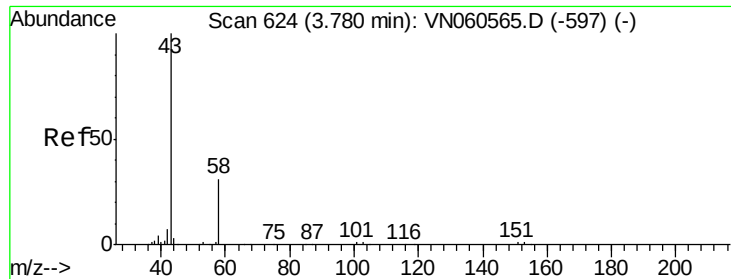


Abundance Ion 53.00 (52.70 to 53.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

Ion 51.00 (50.70 to 51.70): VNO





#16

Acetone

Concen: 1.061 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampled :

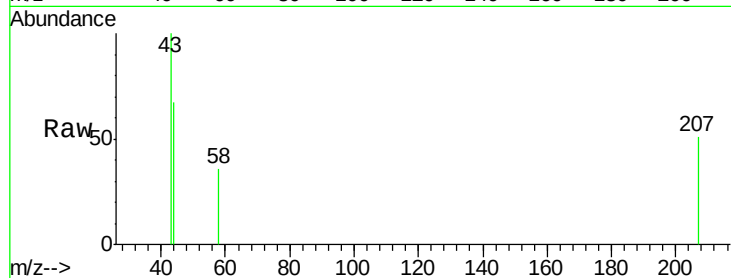
IBLK

Tgt Ion: 43 Resp: 1034

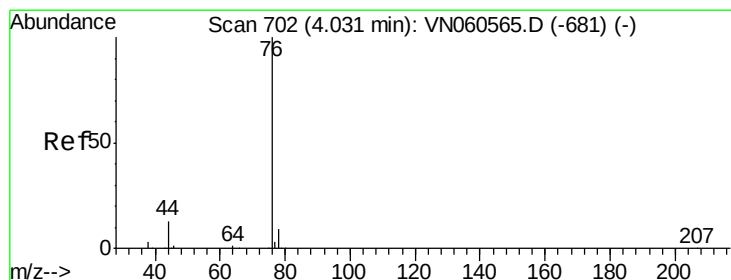
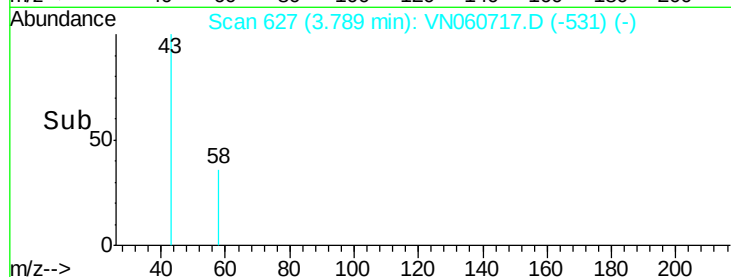
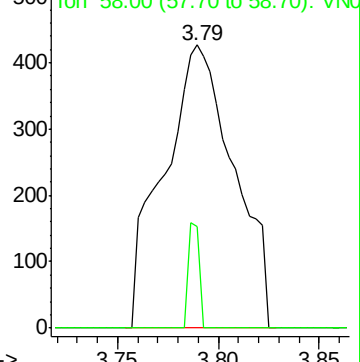
Ion Ratio Lower Upper

43 100

58 35.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060717.D (-597) (-)



#17

Carbon Disulfide

Concen: 0.356 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060717.D

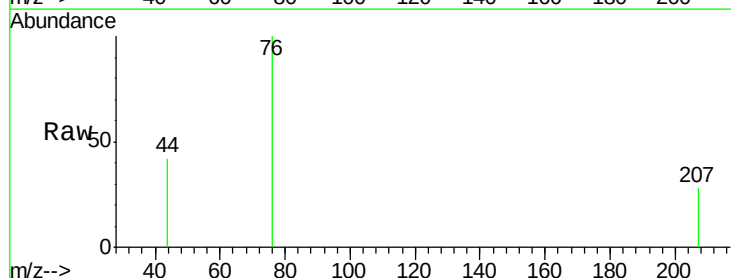
Acq: 26 Mar 2020 16:24

Tgt Ion: 76 Resp: 2353

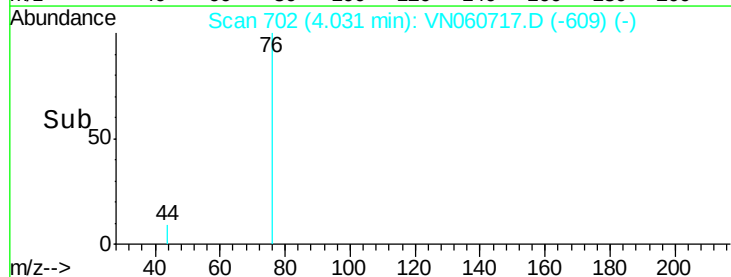
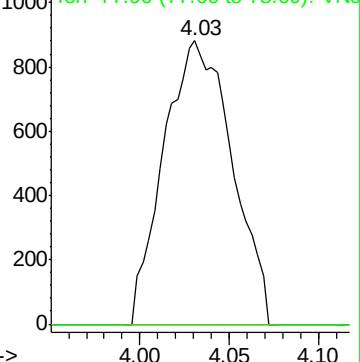
Ion Ratio Lower Upper

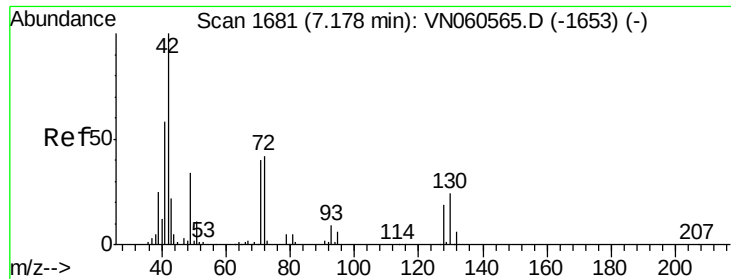
76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN060717.D (-681) (-)





#29

Tetrahydrofuran

Concen: 0.223 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.01 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

IBLK

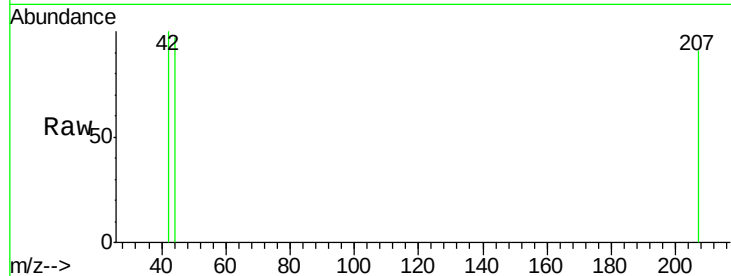
Tgt Ion: 42 Resp: 249

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

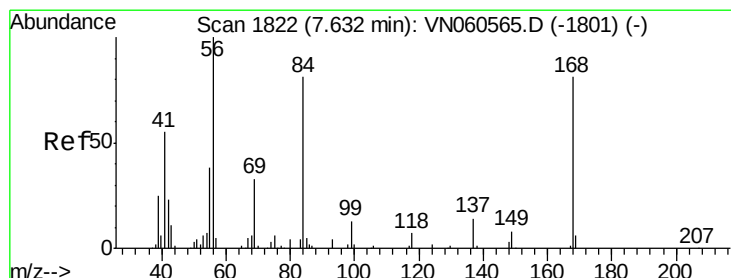
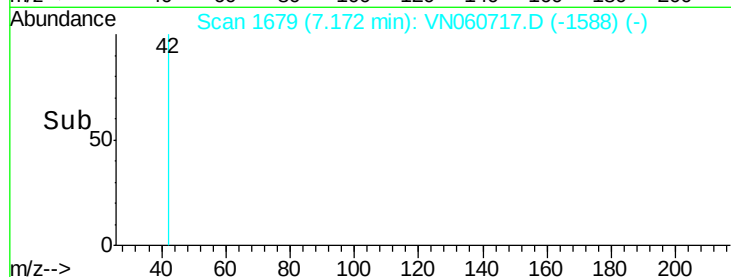
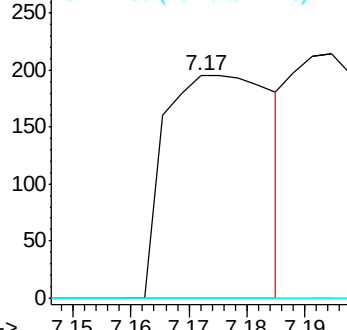
71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.948 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

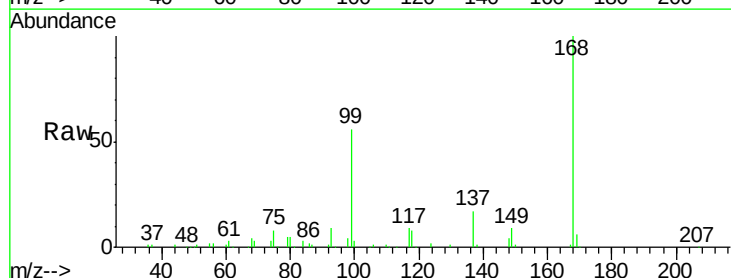
Tgt Ion: 56 Resp: 4201

Ion Ratio Lower Upper

56 100

69 153.8 26.6 40.0#

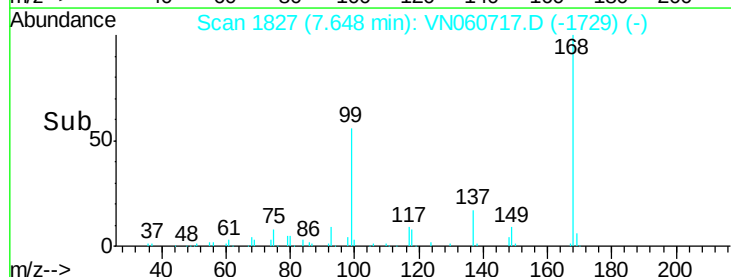
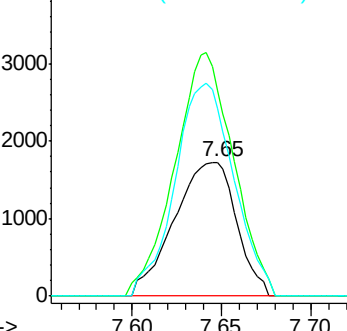
84 139.8 64.3 96.5#

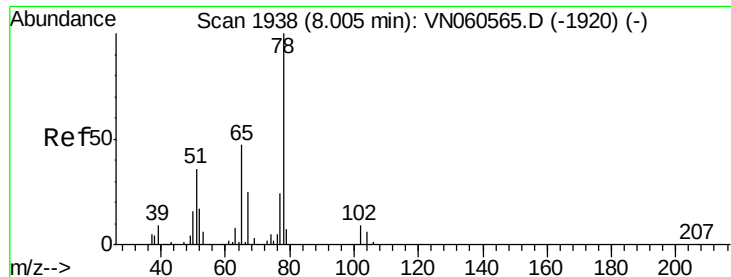


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

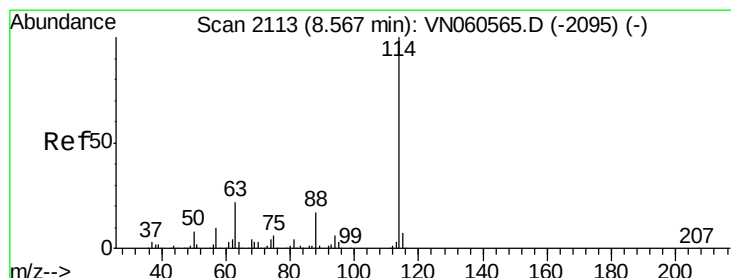
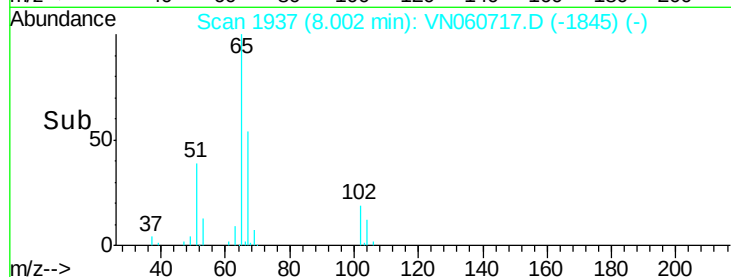
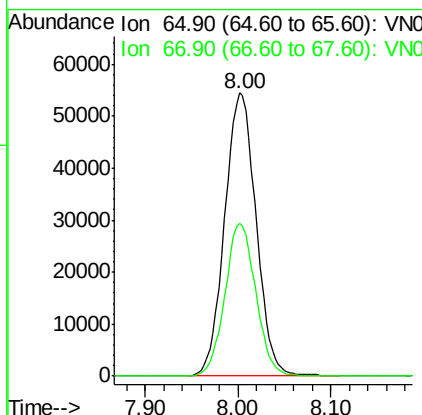
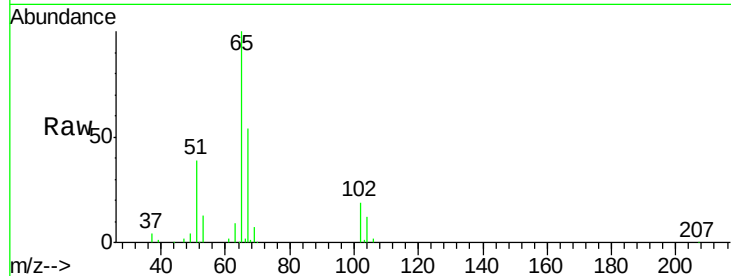




#33
 1,2-Dichloroethane-d4
 Concen: 46.636 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

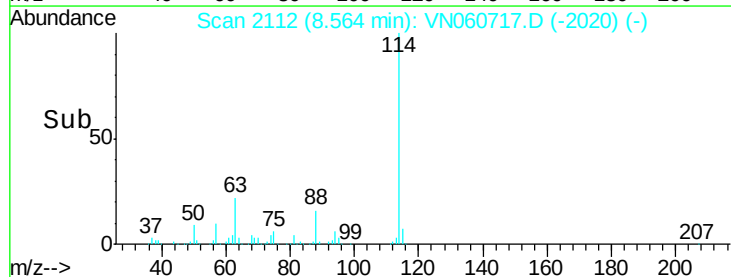
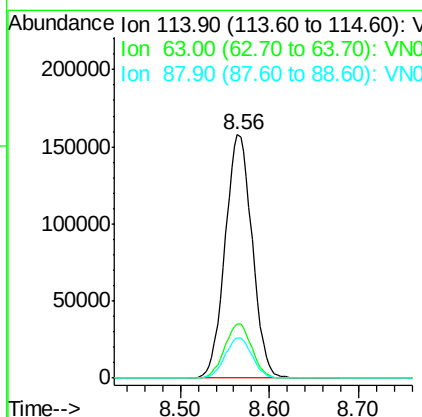
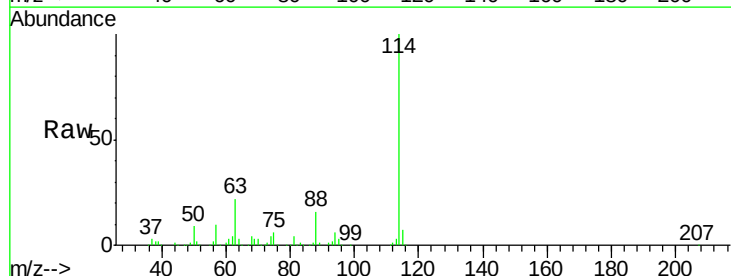
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

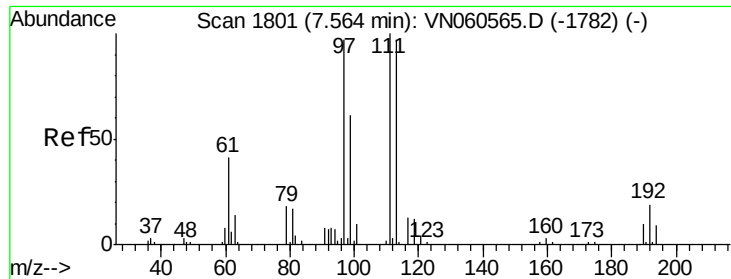
Tgt Ion: 65 Resp: 128361
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

Tgt Ion: 114 Resp: 330933
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.8
 88 16.5 0.0 33.0

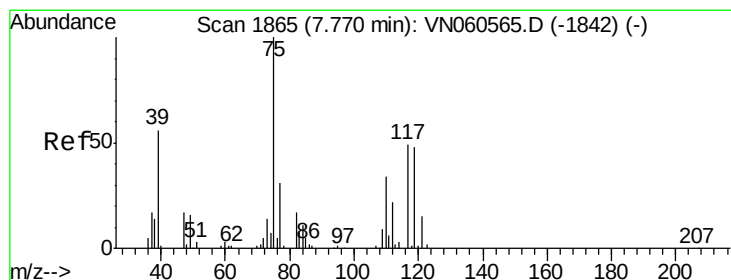
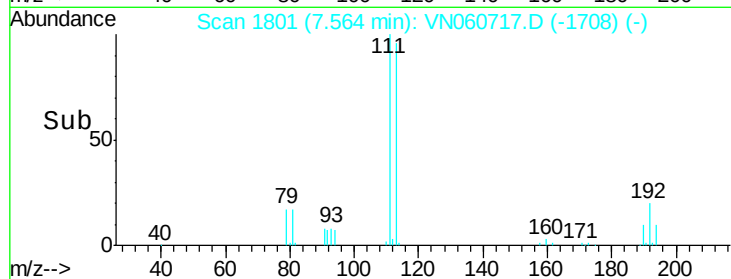
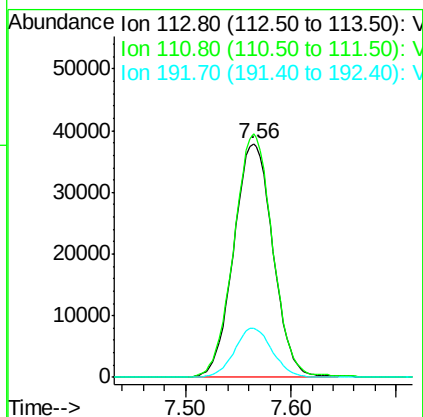
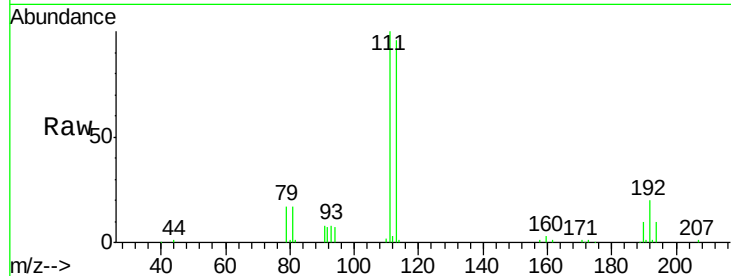




#35
 Dibromofluoromethane
 Concen: 48.977 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

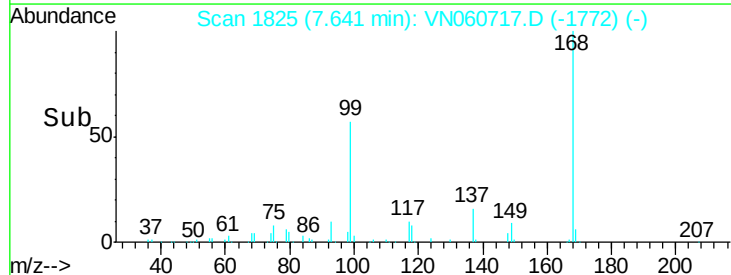
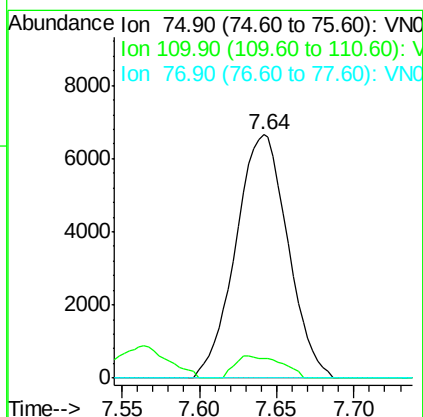
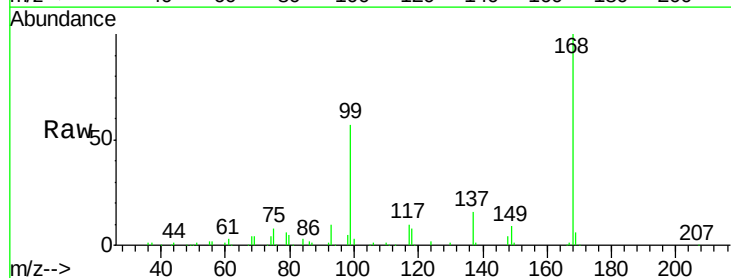
Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

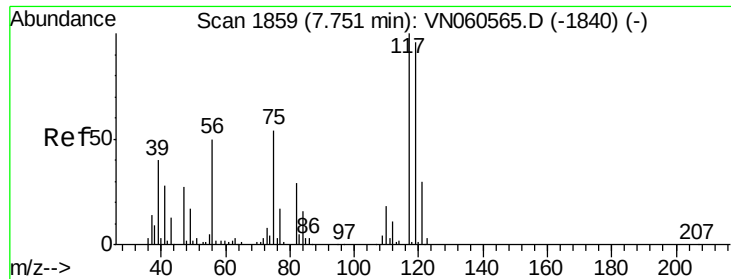
Tgt Ion:113 Resp: 98006
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.9 124.3
 192 20.1 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.861 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

Tgt Ion: 75 Resp: 15577
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.9 50.6#
 77 0.0 24.6 36.8#

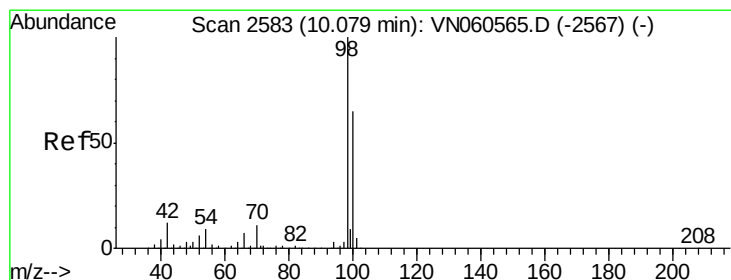
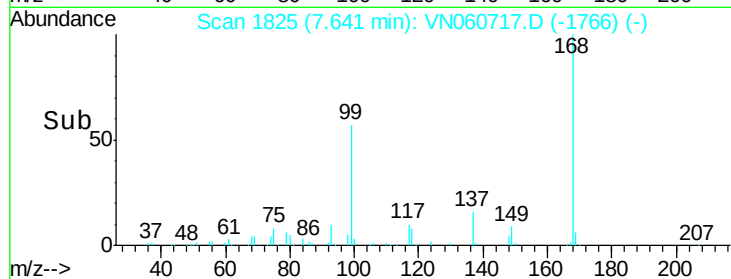
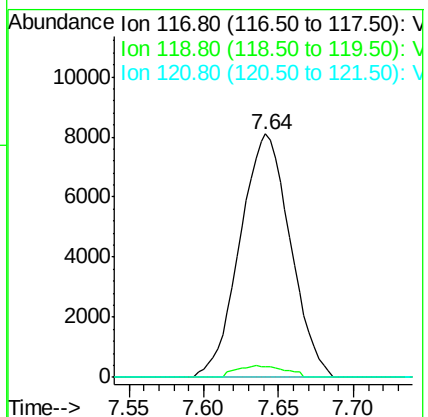
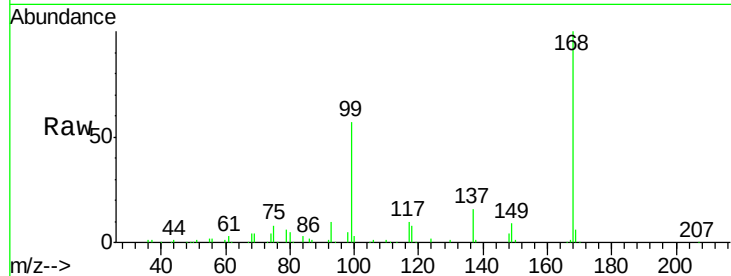




#38
Carbon Tetrachloride
Concen: 6.598 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060717.D
Acq: 26 Mar 2020 16:24

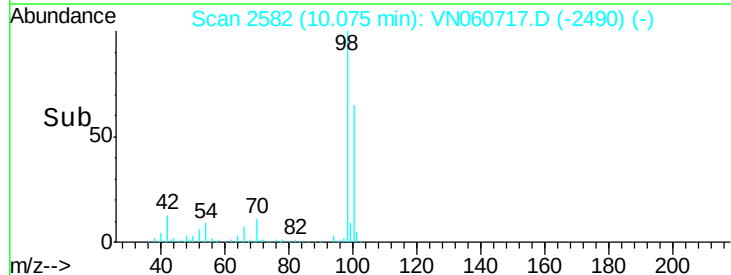
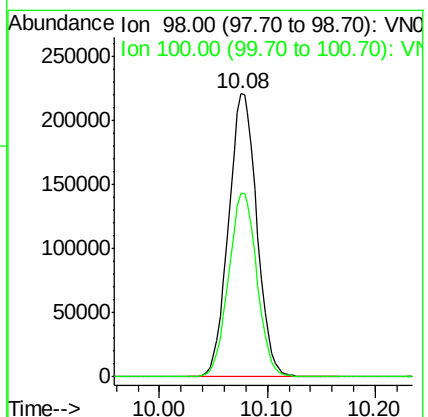
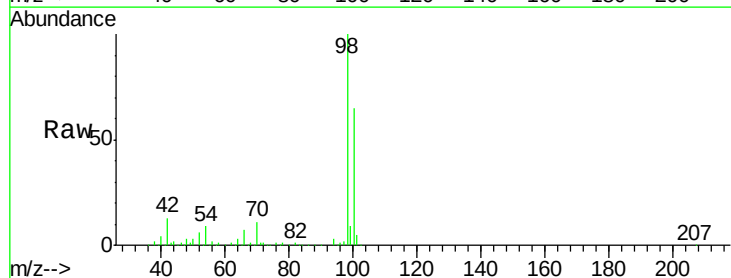
Instrument :
MSVOA_N
ClientSampled :
IBLK

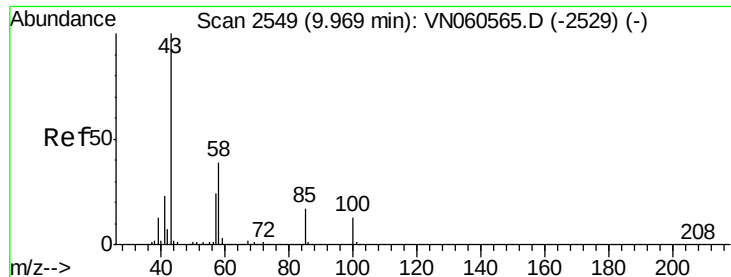
Tgt Ion: 117 Resp: 18950
Ion Ratio Lower Upper
117 100
119 4.2 76.2 114.2#
121 0.0 23.7 35.5#



#50
Toluene-d8
Concen: 49.540 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060717.D
Acq: 26 Mar 2020 16:24

Tgt Ion: 98 Resp: 404917
Ion Ratio Lower Upper
98 100
100 65.0 51.8 77.8

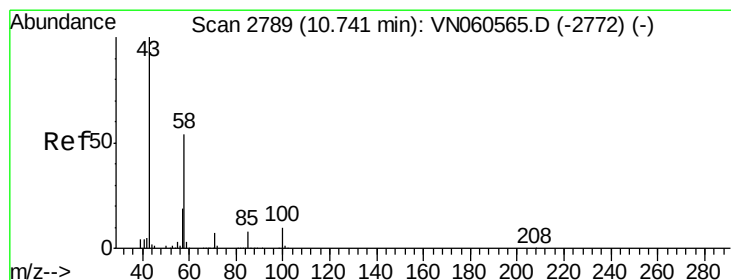
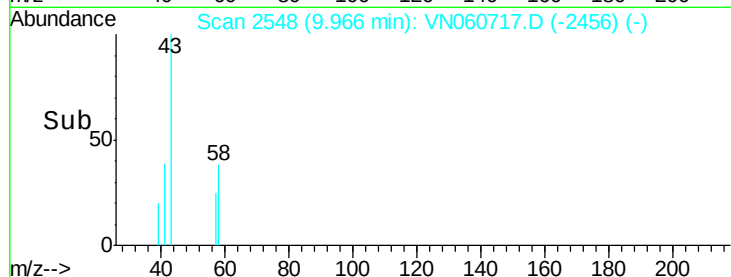
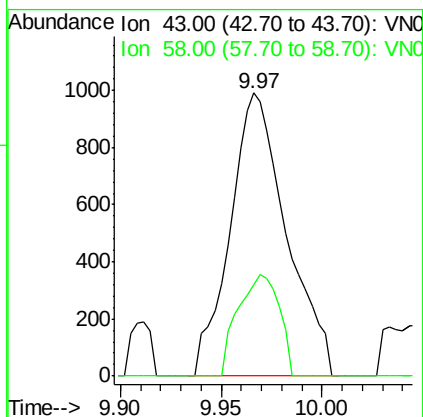
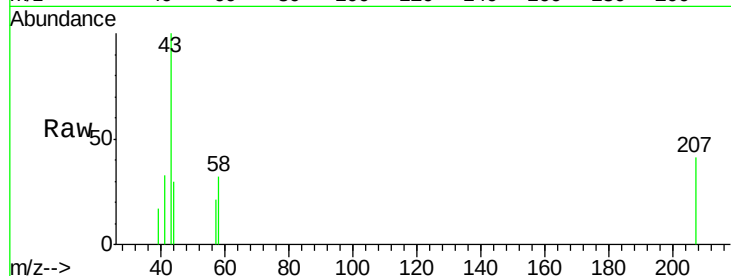




#51
 4-Methyl-2-Pentanone
 Concen: 0.595 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

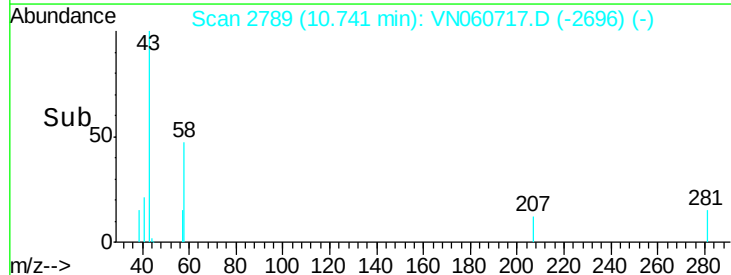
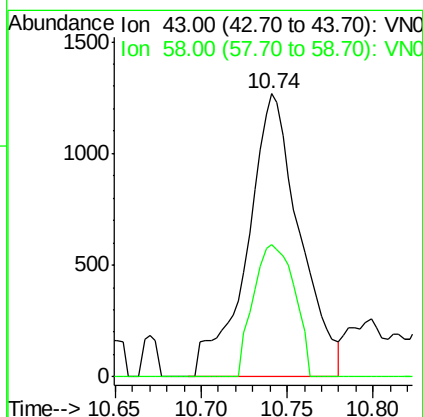
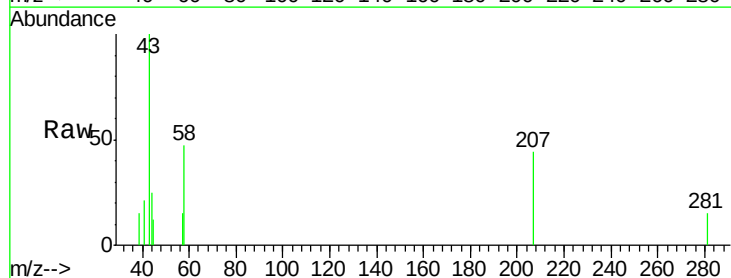
Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

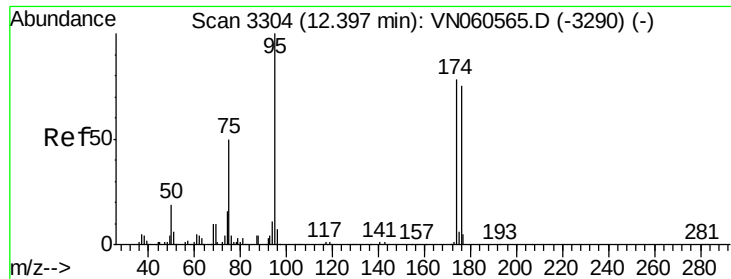
Tgt Ion: 43 Resp: 1932
 Ion Ratio Lower Upper
 43 100
 58 26.3 30.8 46.2#



#59
 2-Hexanone
 Concen: 1.148 ug/l
 RT: 10.74 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

Tgt Ion: 43 Resp: 2687
 Ion Ratio Lower Upper
 43 100
 58 36.4 26.7 80.1





#62

4-Bromofluorobenzene

Concen: 50.327 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

IBLK

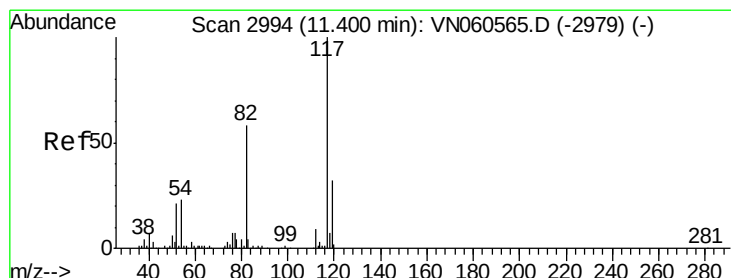
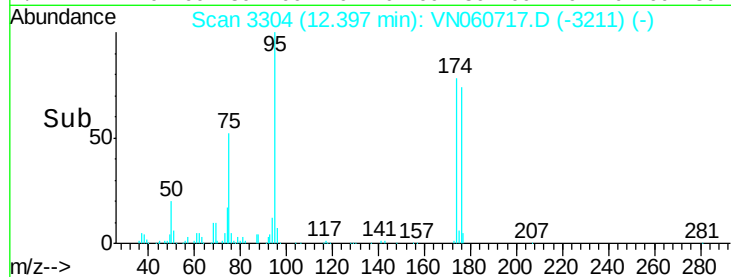
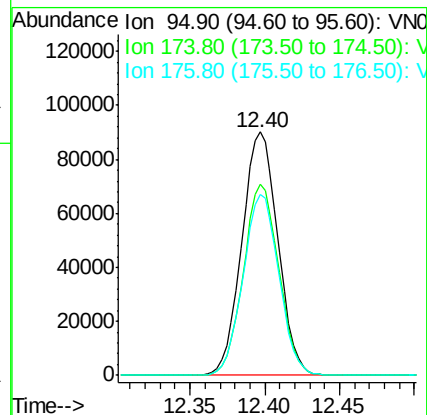
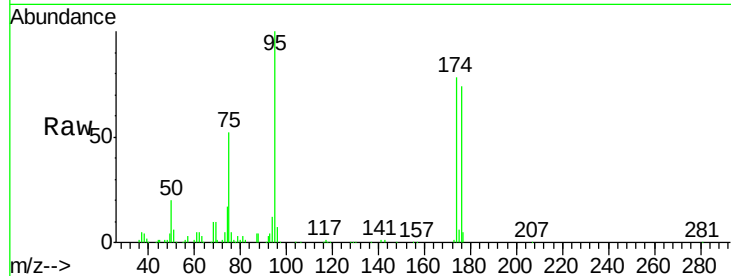
Tgt Ion: 95 Resp: 150754

Ion Ratio Lower Upper

95 100

174 77.4 0.0 157.6

176 74.1 0.0 150.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

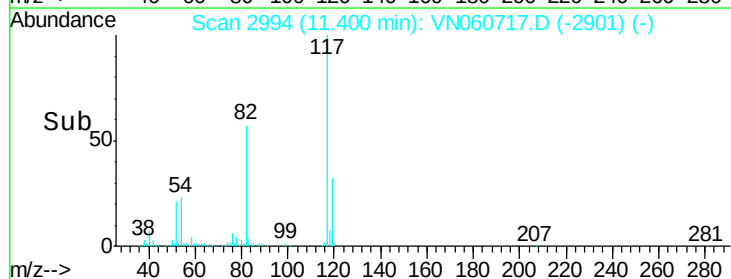
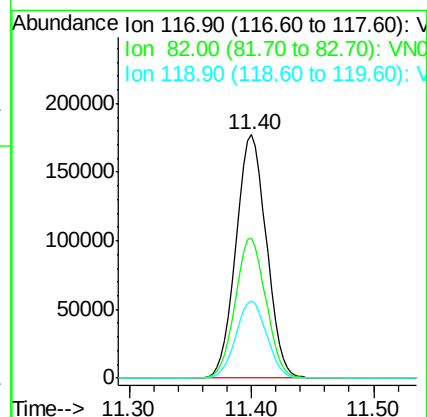
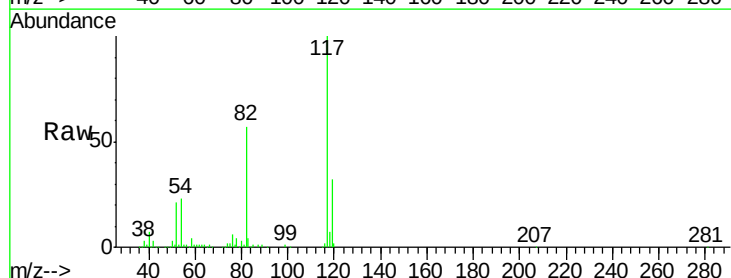
Tgt Ion: 117 Resp: 307795

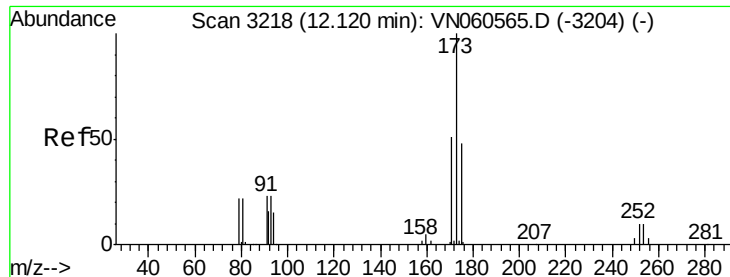
Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

119 31.9 25.5 38.3





#71

Bromoform

Concen: 1.907 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampled :

IBLK

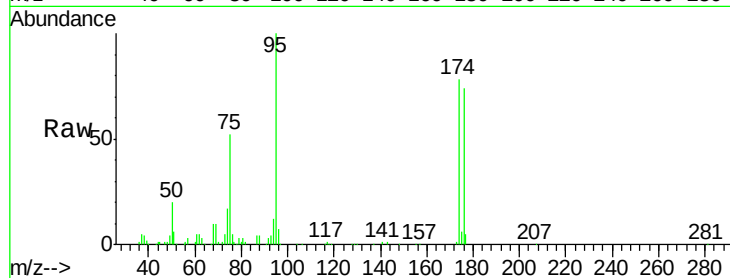
Tgt Ion:173 Resp: 431

Ion Ratio Lower Upper

173 100

175 1765.7 24.1 72.4#

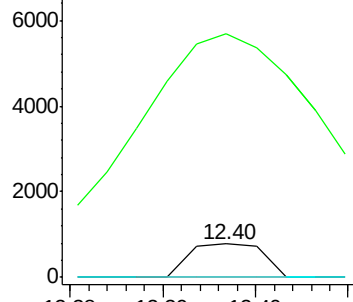
254 0.0 0.0 0.0



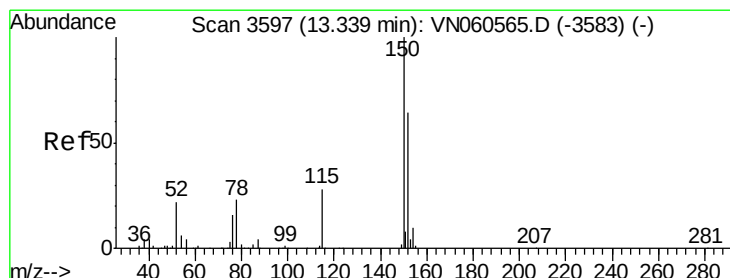
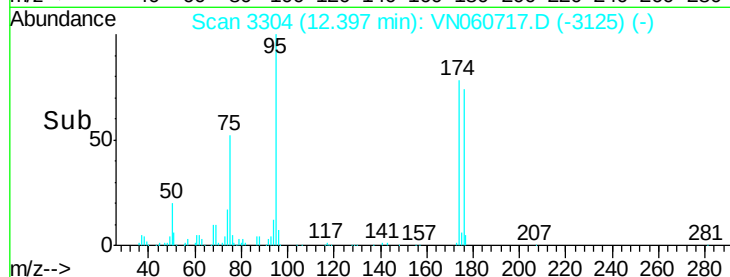
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time--> 12.38 12.39 12.40



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

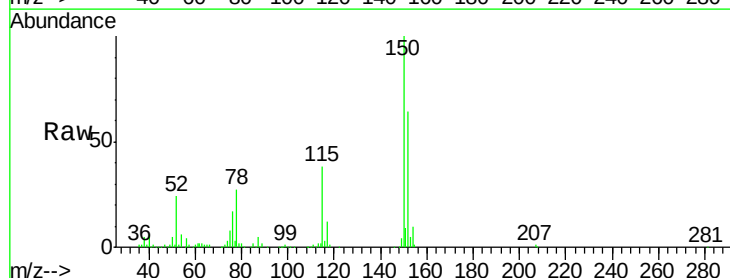
Tgt Ion:152 Resp: 136933

Ion Ratio Lower Upper

152 100

115 59.6 30.2 90.6

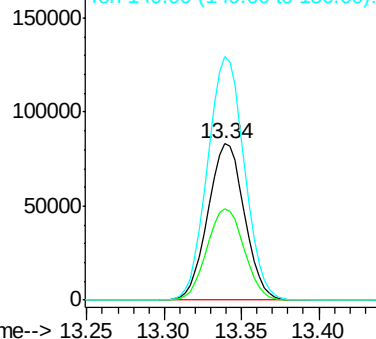
150 156.6 0.0 350.2



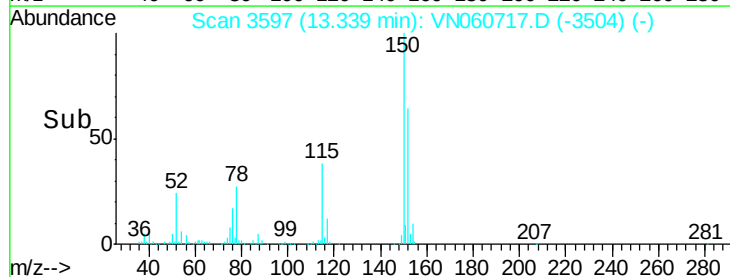
Abundance Ion 151.90 (151.60 to 152.60): V

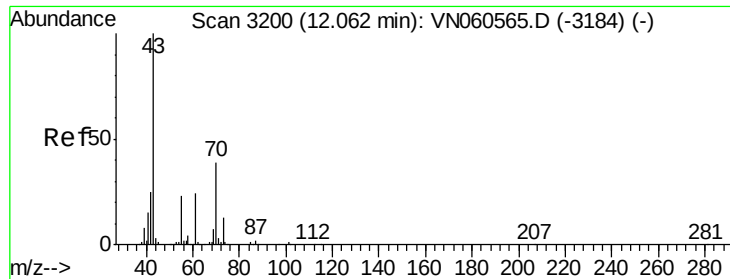
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time--> 13.25 13.30 13.35 13.40





#74

N-ethyl acetate

Concen: 0.405 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.01 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampled :

IBLK

Tgt Ion: 43 Resp: 1921

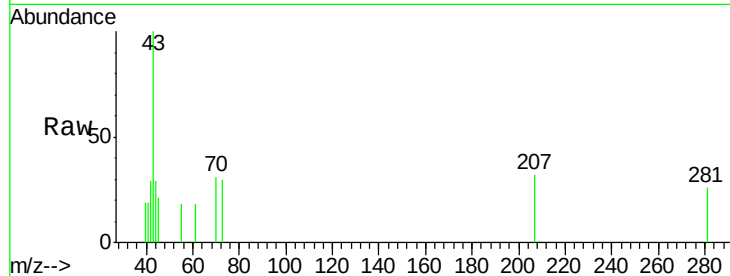
Ion Ratio Lower Upper

43 100

70 18.8 31.1 46.7#

55 3.2 18.6 27.8#

61 9.9 18.9 28.3#

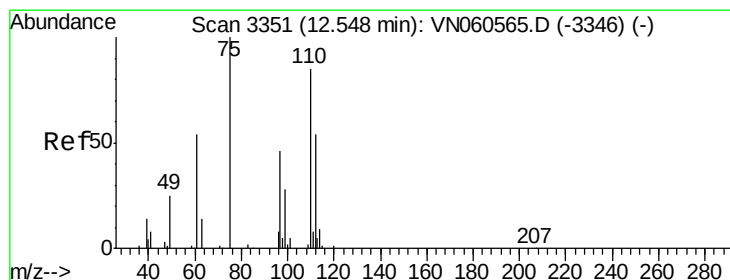
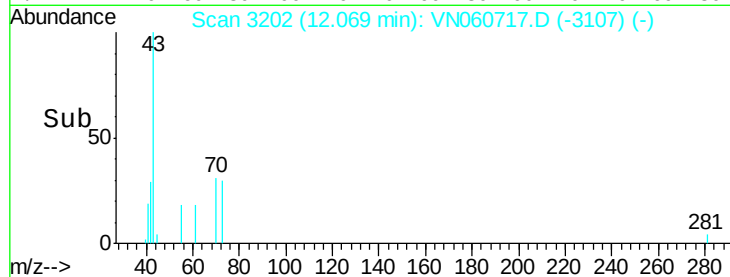
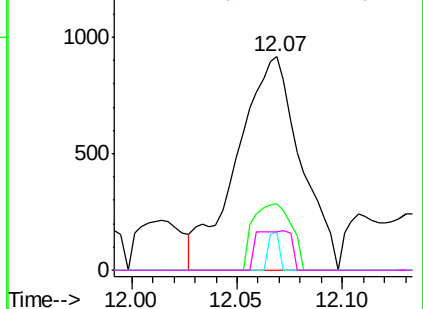


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.791 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060717.D

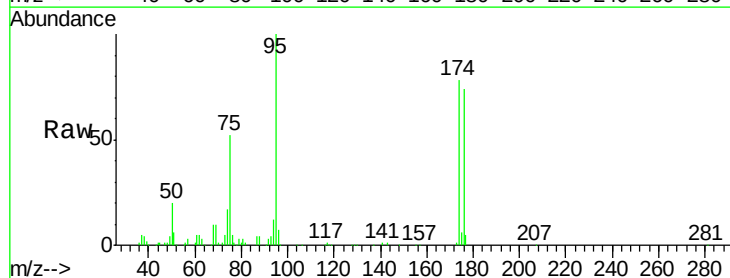
Acq: 26 Mar 2020 16:24

Tgt Ion: 75 Resp: 76205

Ion Ratio Lower Upper

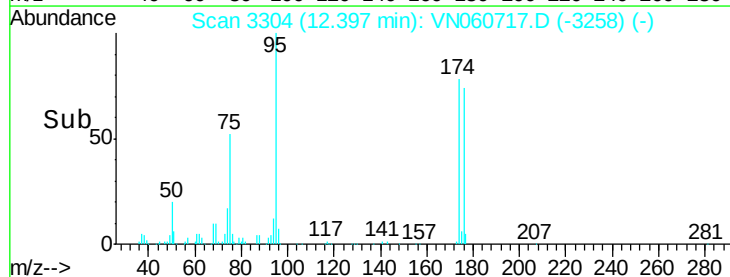
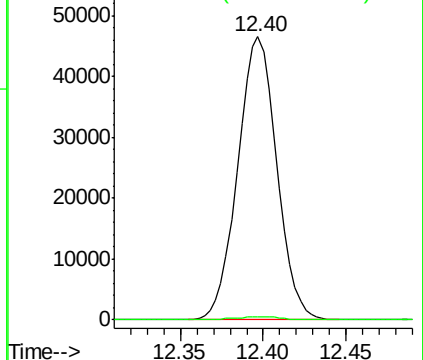
75 100

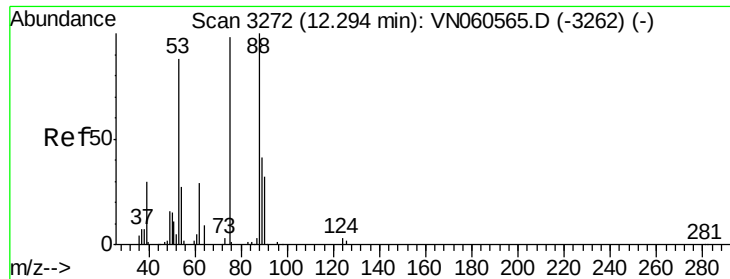
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.239 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampled :

IBLK

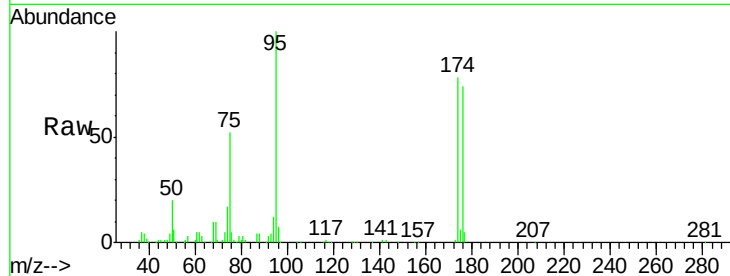
Tgt Ion: 75 Resp: 76205

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

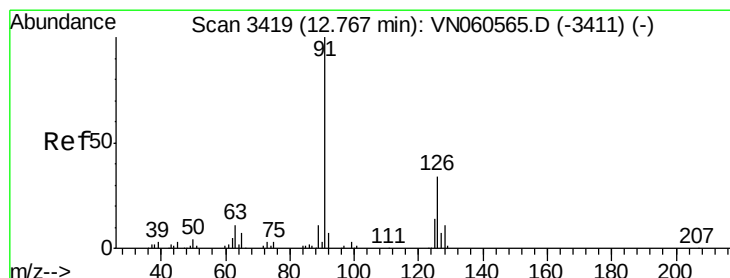
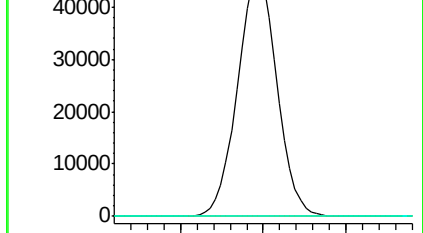
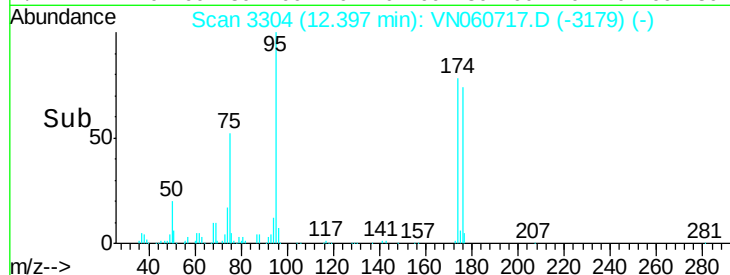


Abundance Ion 74.90 (74.60 to 75.60): VN060717.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060717.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060717.D (-3179) (-)

Time-->



#82

4-Chlorotoluene

Concen: 0.240 ug/l

RT: 12.77 min Scan# 3419

Delta R.T. 0.00 min

Lab File: VN060717.D

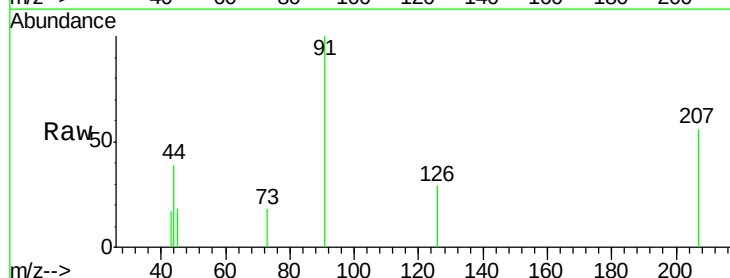
Acq: 26 Mar 2020 16:24

Tgt Ion: 91 Resp: 1774

Ion Ratio Lower Upper

91 100

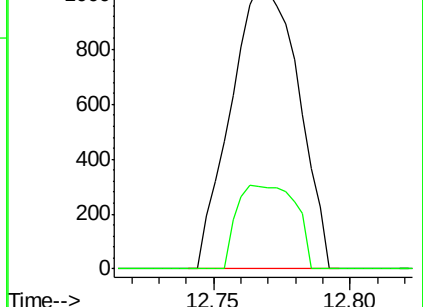
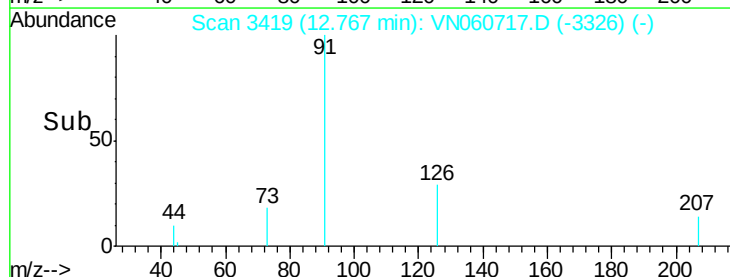
126 25.8 16.2 48.5

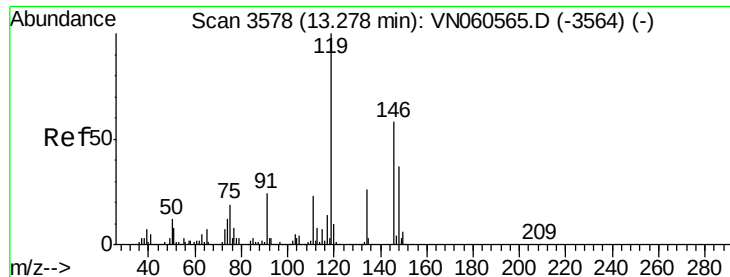


Abundance Ion 91.00 (90.70 to 91.70): VN060717.D (-3326) (-)

Ion 125.90 (125.60 to 126.60): VN060717.D (-3326) (-)

Time-->

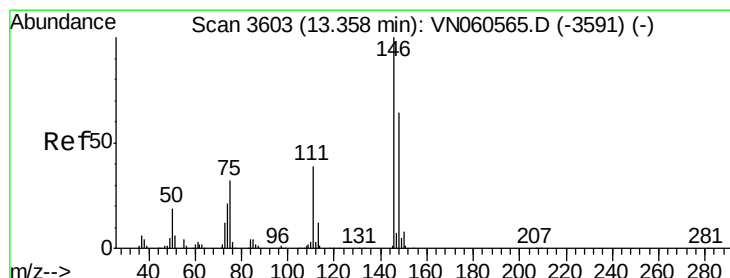
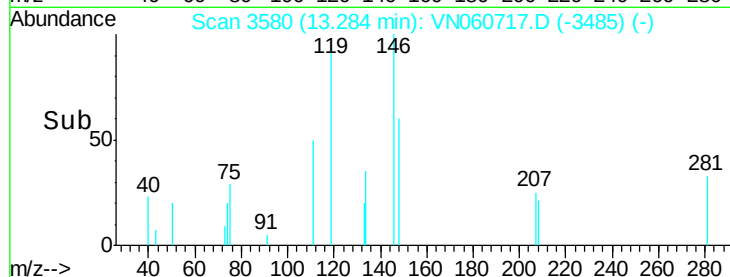
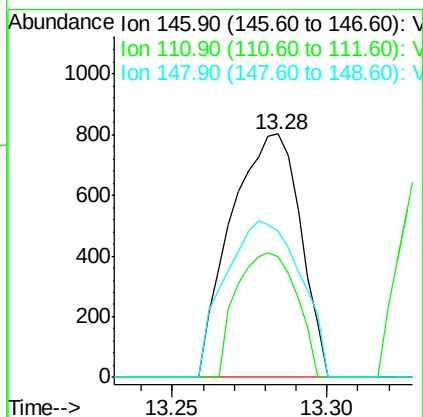
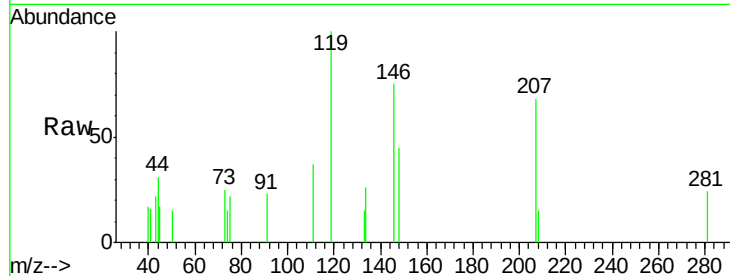




#87
 1,3-Dichlorobenzene
 Concen: 0.287 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.01 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

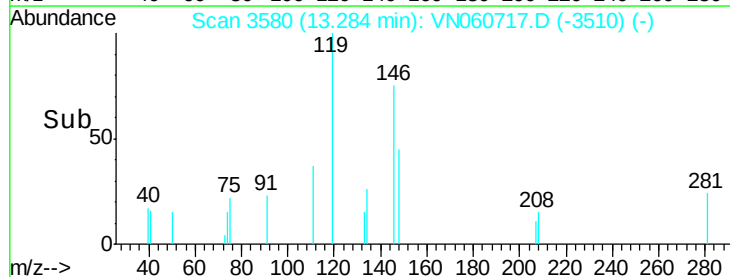
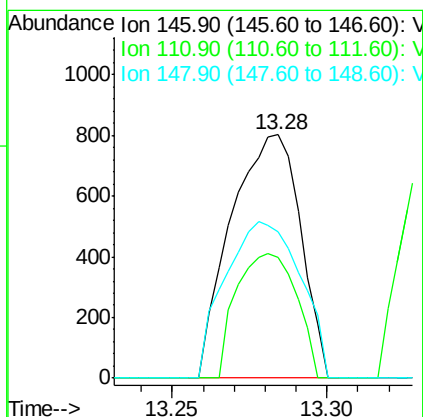
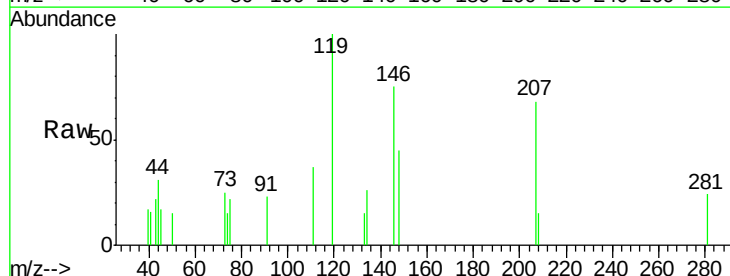
Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

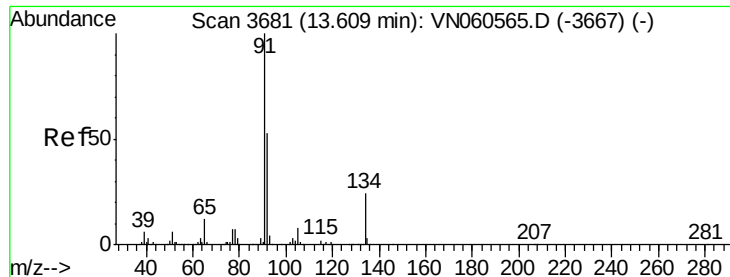
Tgt Ion:146 Resp: 1252
 Ion Ratio Lower Upper
 146 100
 111 44.2 20.3 60.8
 148 70.0 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 0.285 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.07 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

Tgt Ion:146 Resp: 1252
 Ion Ratio Lower Upper
 146 100
 111 44.2 19.6 58.7
 148 70.0 32.1 96.3

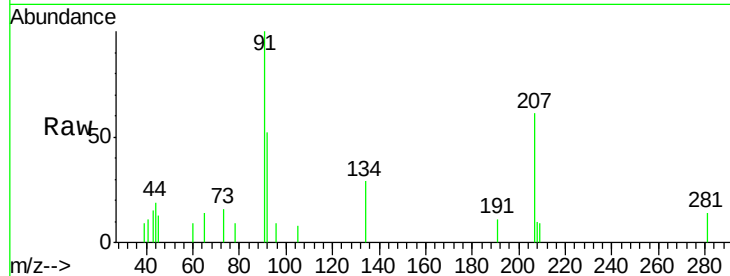




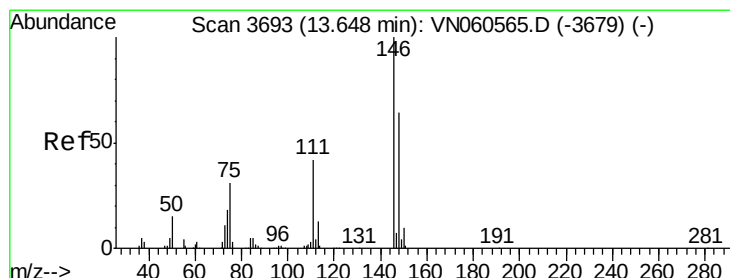
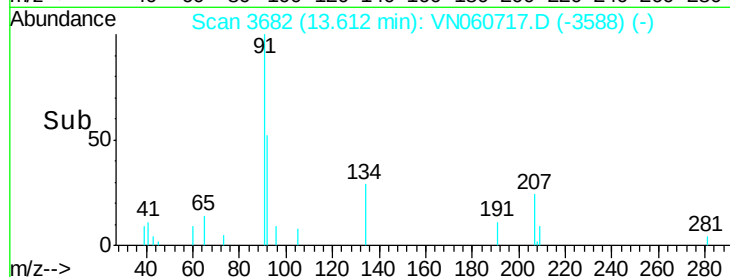
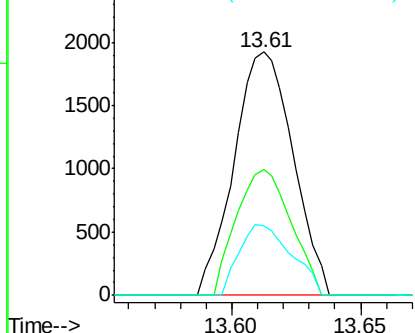
#89
n-Butylbenzene
Concen: 0.389 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060717.D
Acq: 26 Mar 2020 16:24

Instrument :
MSVOA_N
ClientSampled :
IBLK

Tgt Ion: 91 Resp: 3067
Ion Ratio Lower Upper
91 100
92 48.0 26.2 78.5
134 25.8 12.3 36.9

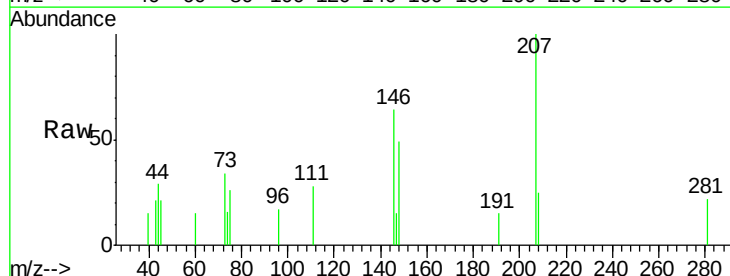


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

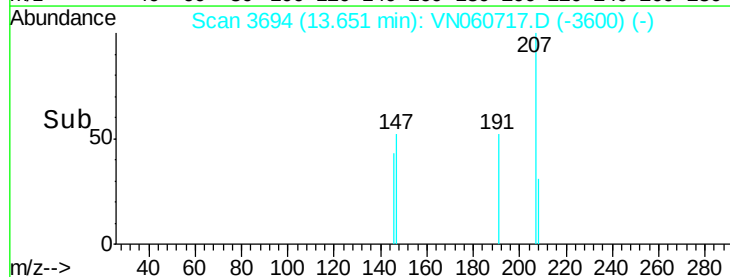
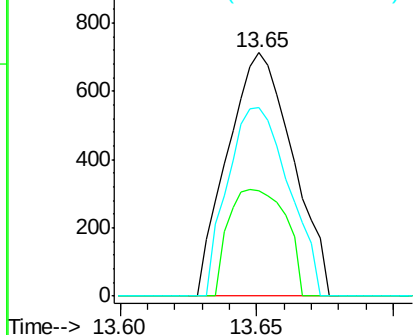


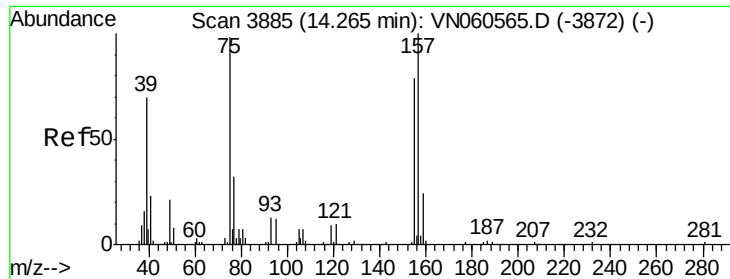
#91
1,2-Dichlorobenzene
Concen: 0.282 ug/l
RT: 13.65 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VN060717.D
Acq: 26 Mar 2020 16:24

Tgt Ion: 146 Resp: 1179
Ion Ratio Lower Upper
146 100
111 38.5 21.0 63.0
148 72.8 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.251 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampled :

IBLK

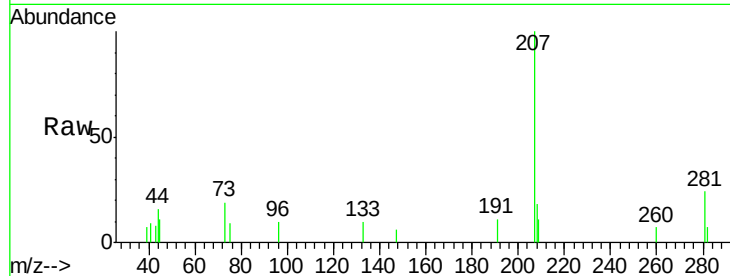
Tgt Ion: 75 Resp: 337

Ion Ratio Lower Upper

75 100

155 0.0 40.7 122.1#

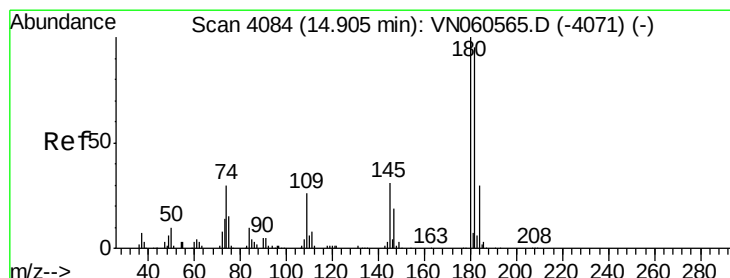
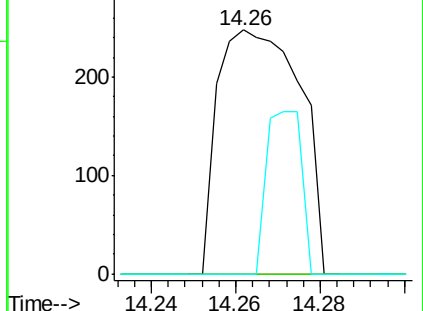
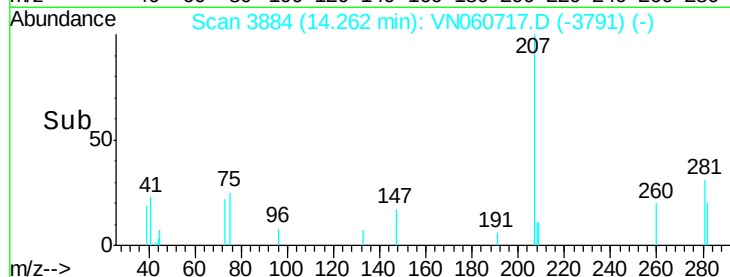
157 27.9 51.5 154.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060717.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060717.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060717.D (-3791) (-)



#93

1,2,4-Trichlorobenzene

Concen: 1.074 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

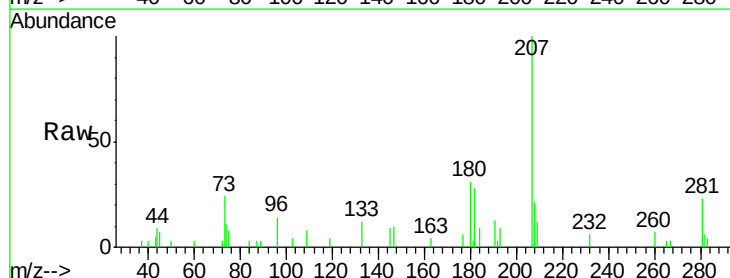
Tgt Ion: 180 Resp: 2755

Ion Ratio Lower Upper

180 100

182 89.0 47.9 143.8

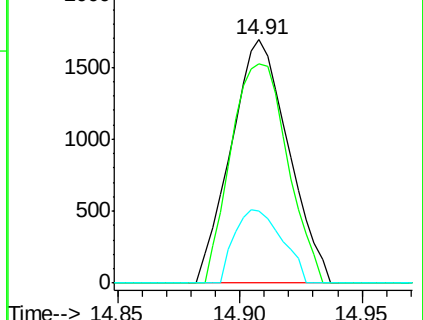
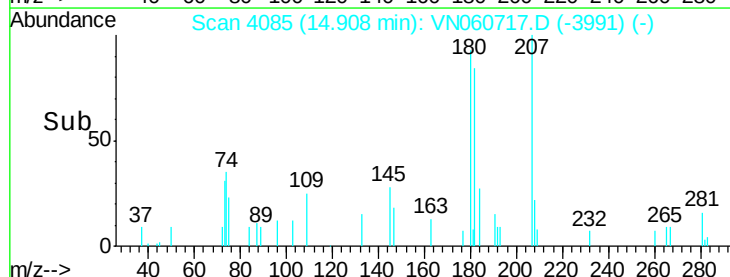
145 25.0 15.4 46.2

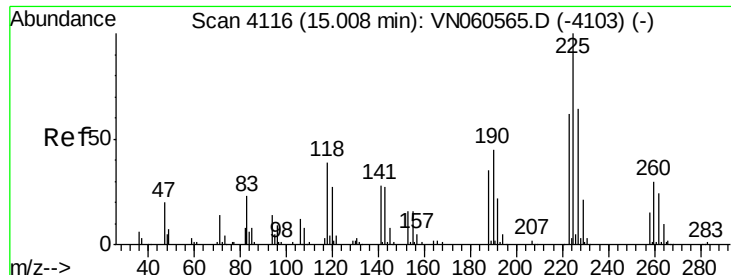


Abundance Ion 179.80 (179.50 to 180.50): VN060717.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN060717.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN060717.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: 1.055 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

Instrument :

MSVOA_N

ClientSampled :

IBLK

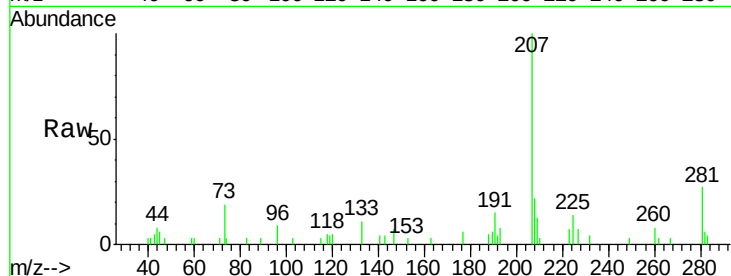
Tgt Ion:225 Resp: 1326

Ion Ratio Lower Upper

225 100

223 53.4 31.6 95.0

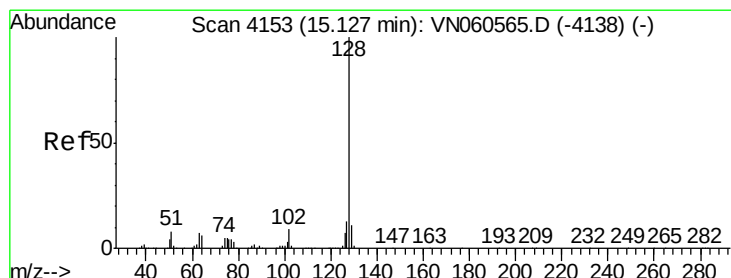
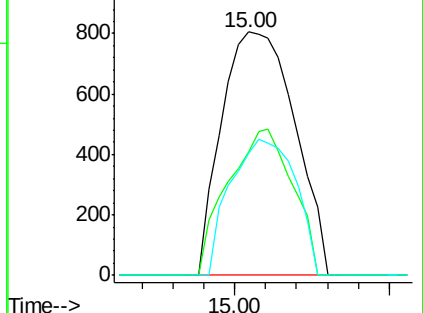
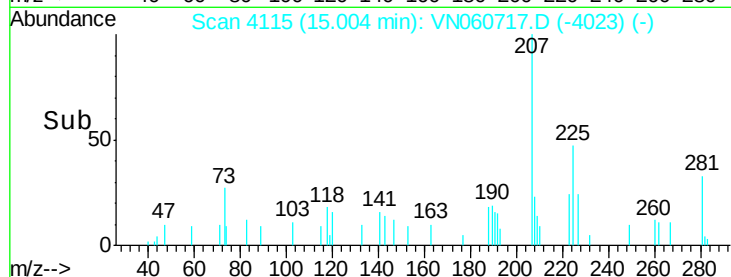
227 50.0 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.374 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.01 min

Lab File: VN060717.D

Acq: 26 Mar 2020 16:24

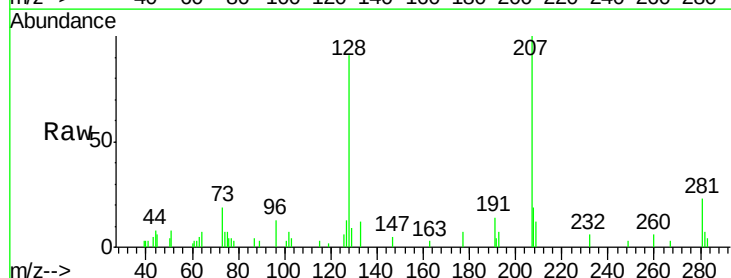
Tgt Ion:128 Resp: 10596

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

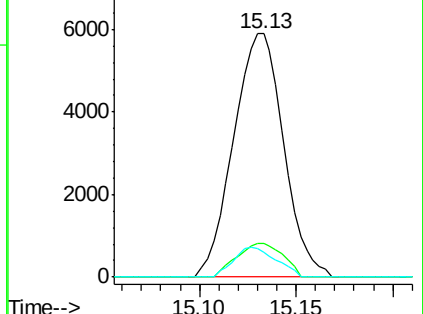
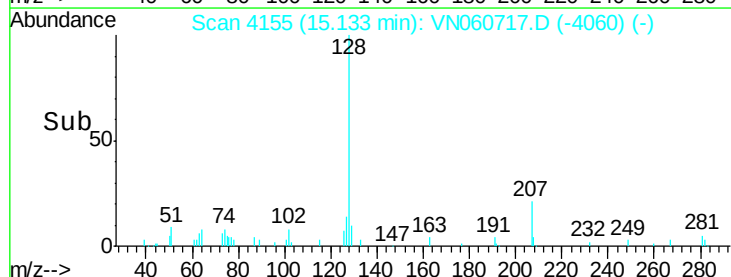
129 10.4 8.8 13.2

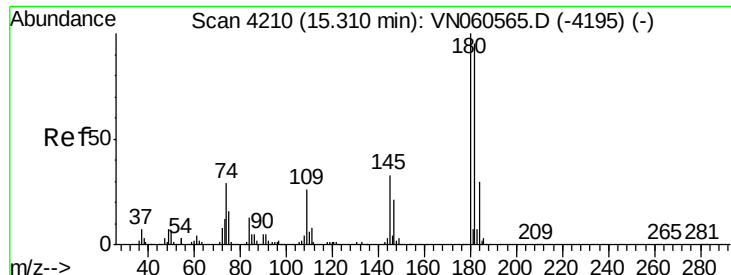


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

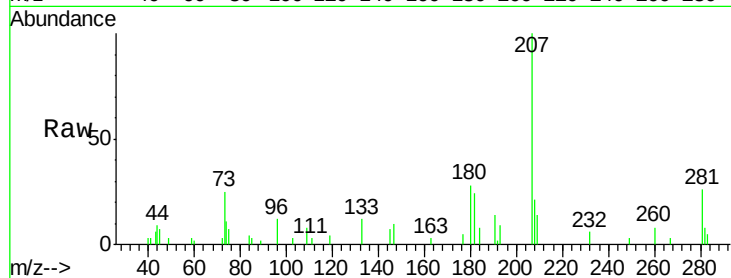




#96
 1,2,3-Trichlorobenzene
 Concen: 1.264 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN060717.D
 Acq: 26 Mar 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tgt Ion:	180	Resp:	3194
Ion	Ratio	Lower	Upper
180	100		
182	84.3	47.5	142.6
145	27.7	16.3	48.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

