

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011620\
 Data File : VN059734.D
 Acq On : 16 Jan 2020 16:05
 Operator : JC/MD
 Sample : L1006-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-011520

Quant Time: Jan 17 04:37:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	196905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	291306	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	254813	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109959	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	100961	46.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.34%	
35) Dibromofluoromethane	7.56	113	88520	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
50) Toluene-d8	10.08	98	335271	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.40	95	115786	47.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.44%	

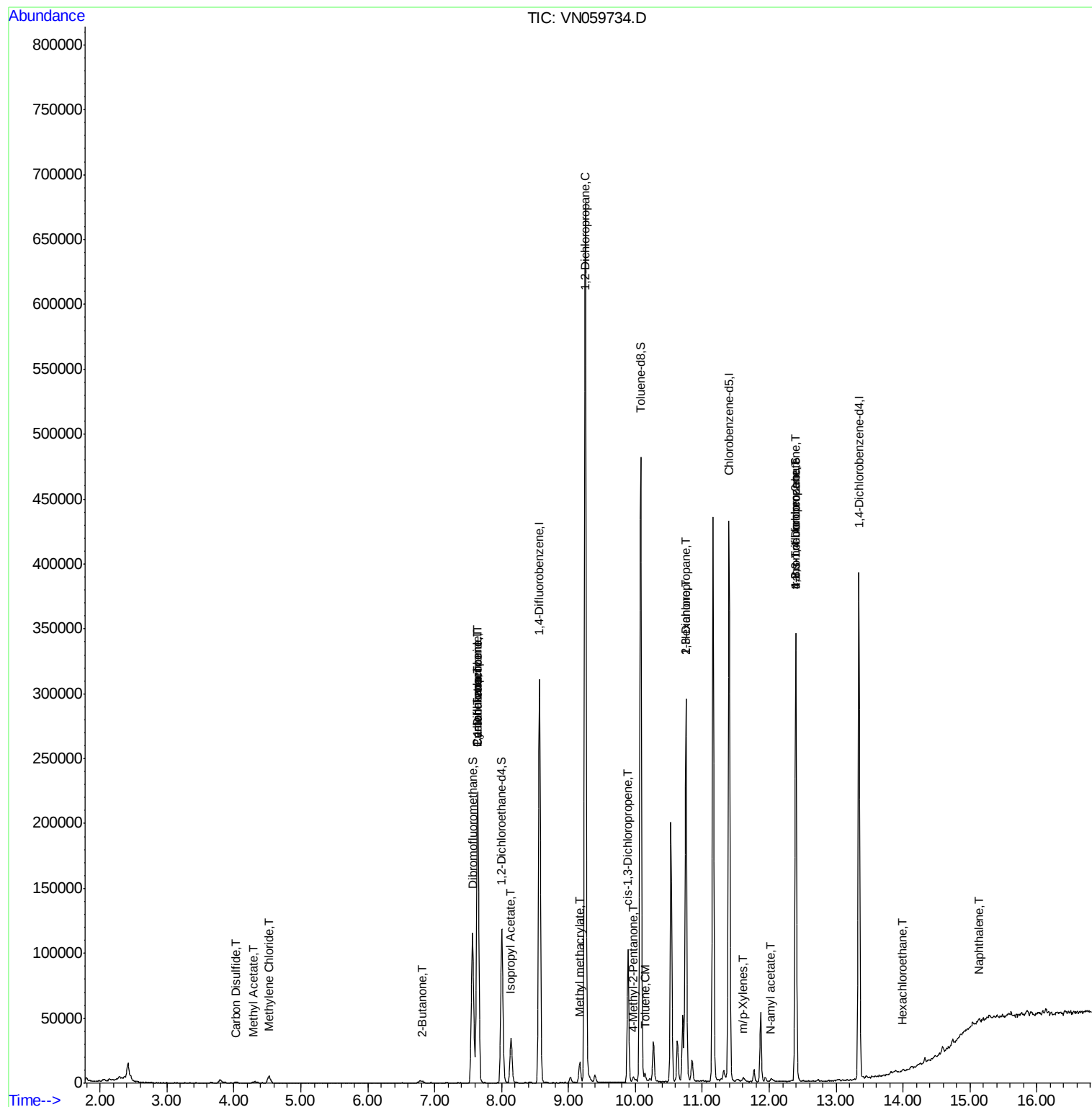
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4805	Below Cal	#	89
17) Carbon Disulfide	4.03	76	1332	0.260	ug/l #	75
18) Methyl Acetate	4.29	43	1186	0.464	ug/l #	72
20) Methylene Chloride	4.52	84	4277	0.891	ug/l	85
25) 2-Butanone	6.82	43	1757	1.419	ug/l #	50
31) Cyclohexane	7.63	56	3708	1.146	ug/l #	17
36) 1,1-Dichloropropene	7.64	75	13290	5.239	ug/l #	50
38) Carbon Tetrachloride	7.64	117	17541	6.357	ug/l #	16
43) Isopropyl Acetate	8.14	43	42234	10.320	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	778	0.416	ug/l #	44
48) Methyl methacrylate	9.16	41	2340	1.278	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2838	1.200	ug/l	100
52) Toluene	10.14	92	2888	0.604	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	19449	6.221	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	3233	1.076	ug/l #	42
59) 2-Hexanone	10.75	43	42114	24.164	ug/l #	55
68) m/p-Xylenes	11.62	106	691	0.201	ug/l #	70
74) N-amyl acetate	12.03	43	2292	0.732	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	58356	31.535	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	58356	67.722	ug/l #	11
90) Hexachloroethane	13.99	117	671	0.503	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.28	75	140	Below Cal	#	6
95) Naphthalene	15.13	128	2149	0.359	ug/l #	75

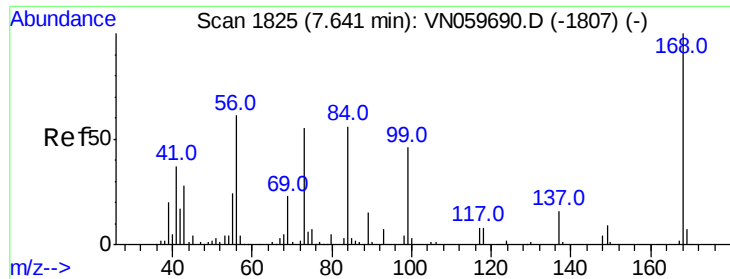
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059734.D

Acq: 16 Jan 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

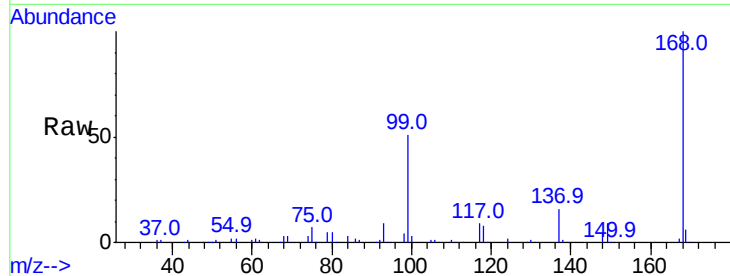
HD-01-011520

Tgt Ion:168 Resp: 196905

Ion Ratio Lower Upper

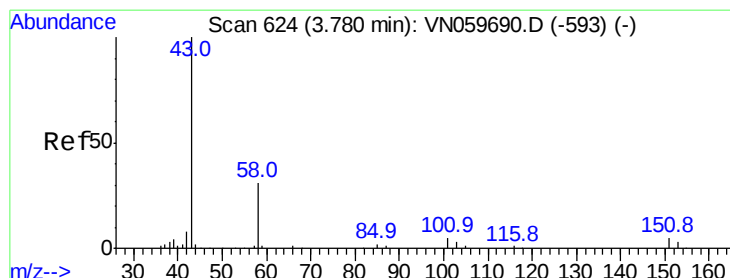
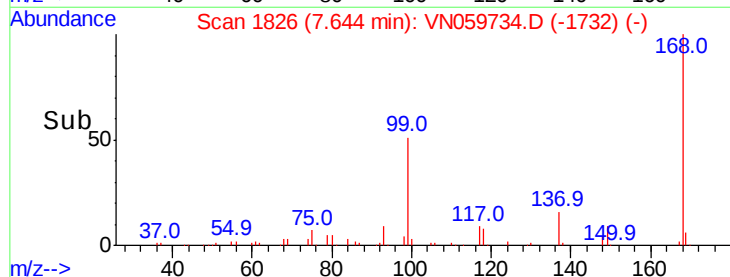
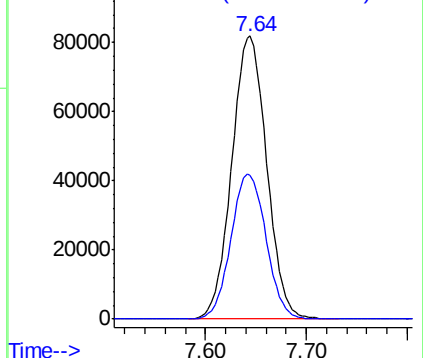
168 100

99 50.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059734.D

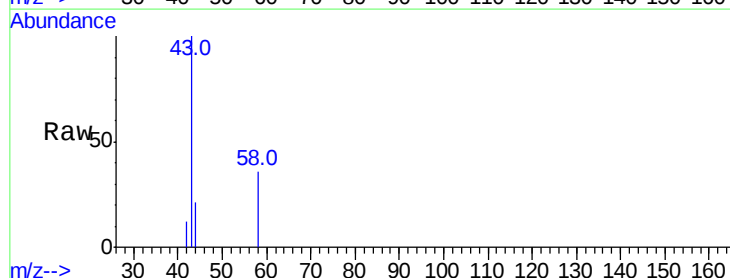
Acq: 16 Jan 2020 16:05

Tgt Ion: 43 Resp: 4805

Ion Ratio Lower Upper

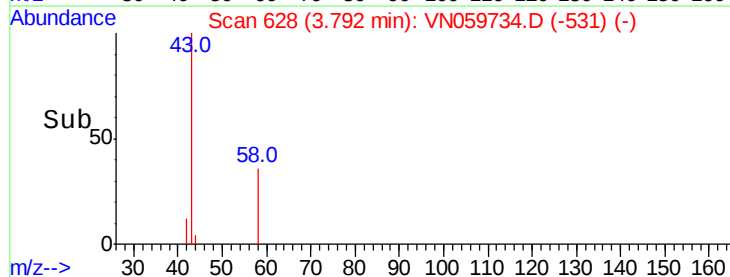
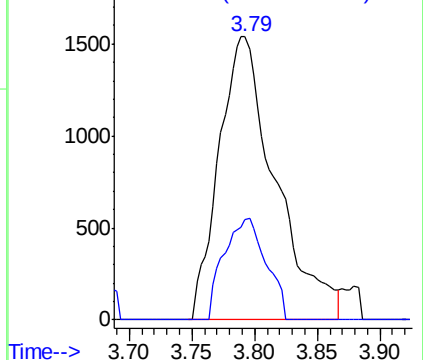
43 100

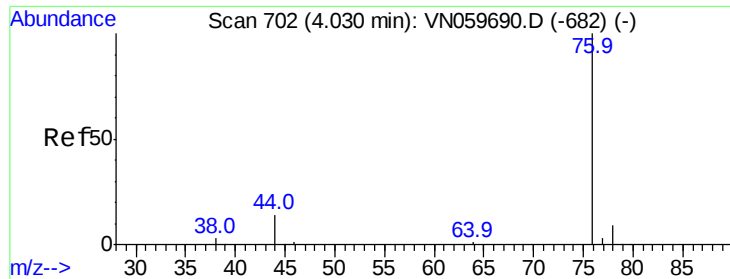
58 35.6 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

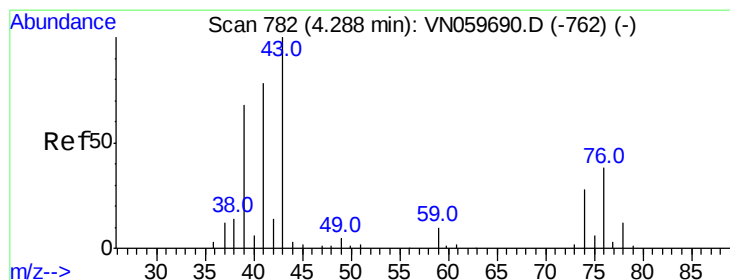
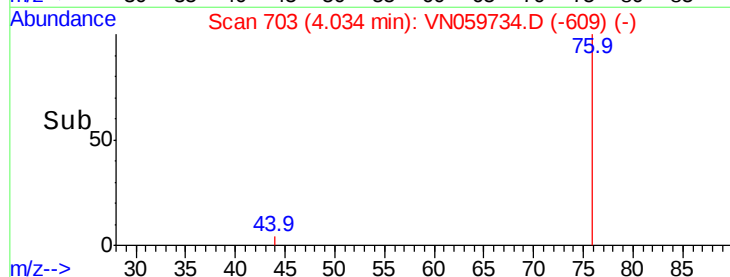
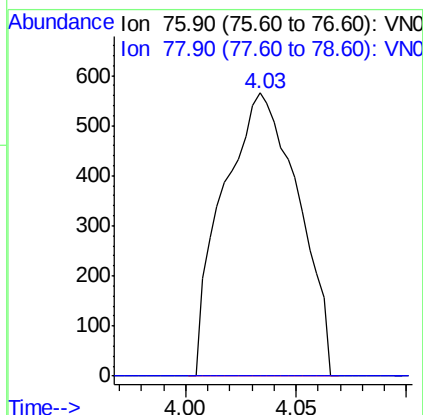
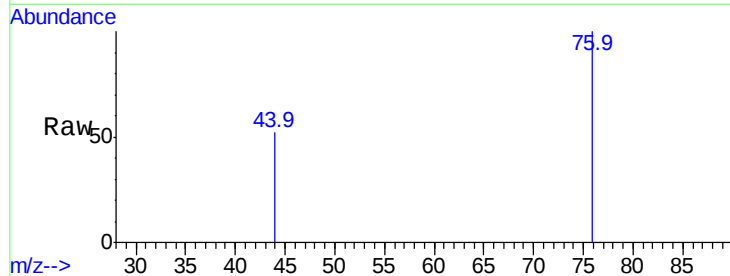




#17
Carbon Disulfide
Concen: 0.260 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

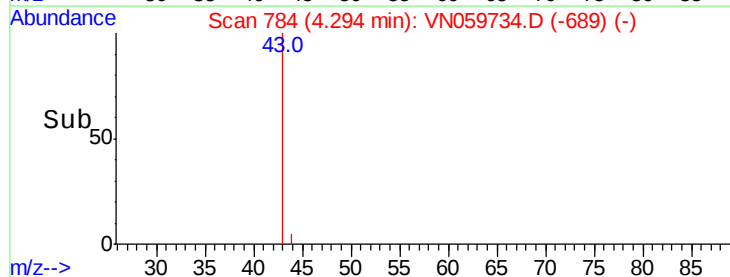
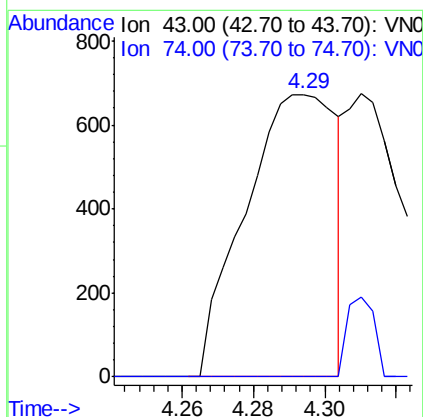
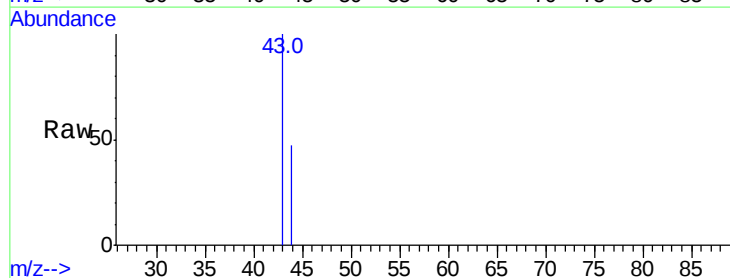
Instrument :
MSVOA_N
ClientSampleId :
HD-01-011520

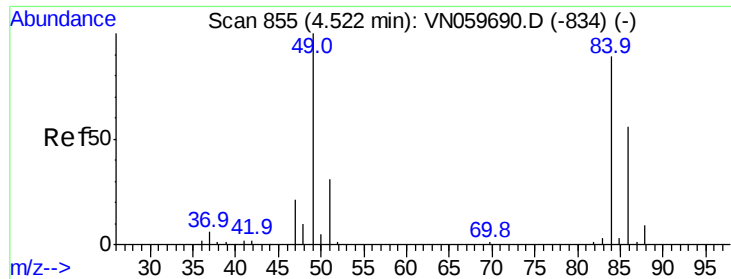
Tgt Ion: 76 Resp: 1332
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.464 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Tgt Ion: 43 Resp: 1186
Ion Ratio Lower Upper
43 100
74 8.4 17.5 26.3#

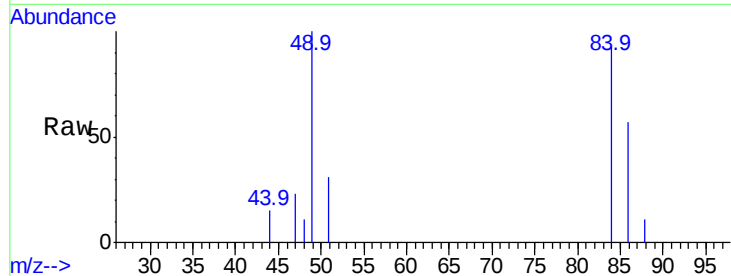




#20
Methylene Chloride
Concen: 0.891 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Instrument :
MSVOA_N
ClientSampleId :
HD-01-011520

Tgt Ion: 84 Resp: 4277
Ion Ratio Lower Upper
84 100
49 107.4 106.6 160.0
51 33.1 31.9 47.9
86 60.7 50.8 76.2



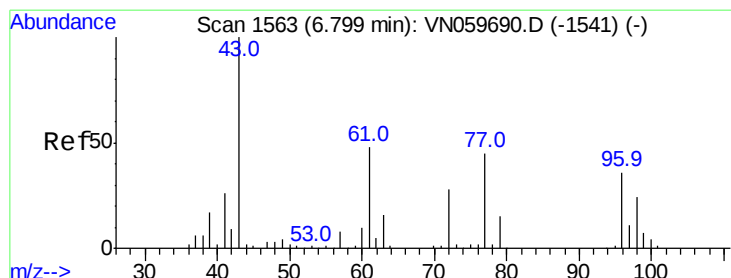
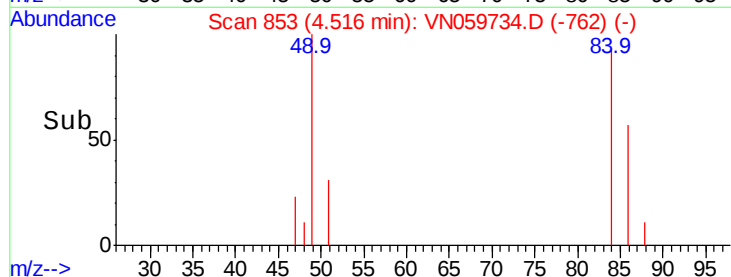
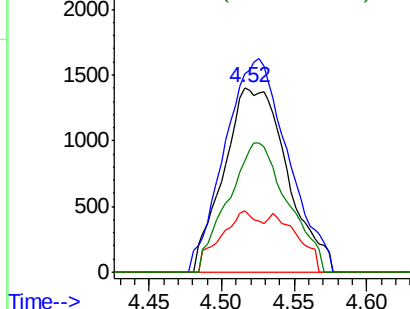
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

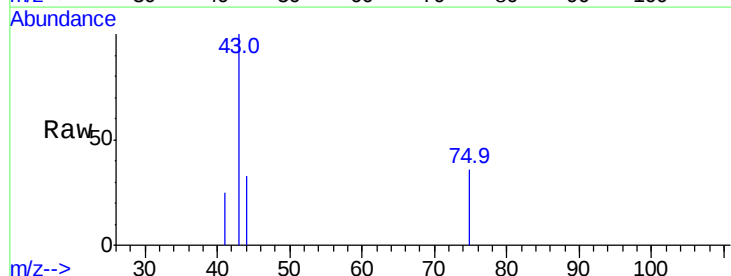
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 1.419 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

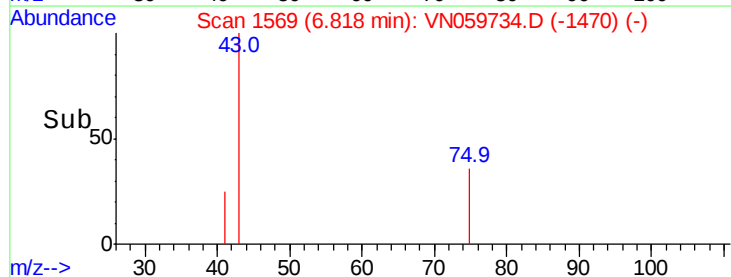
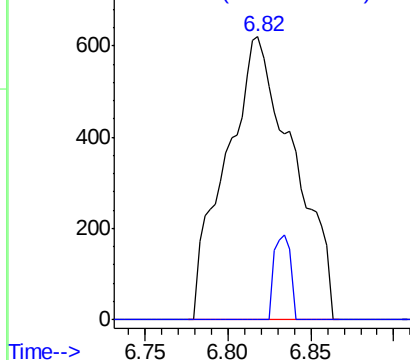
Tgt Ion: 43 Resp: 1757
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

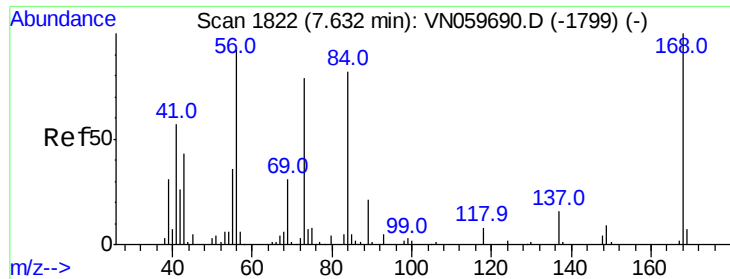


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

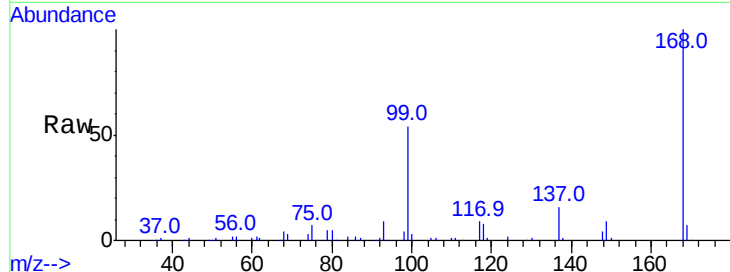




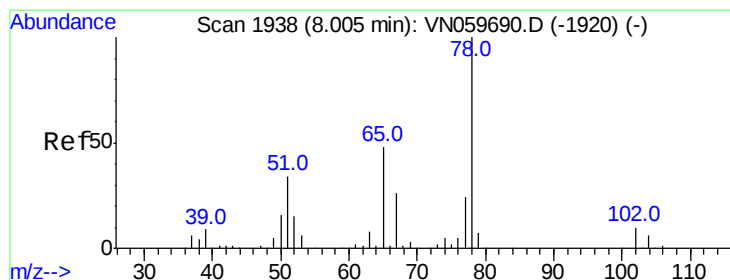
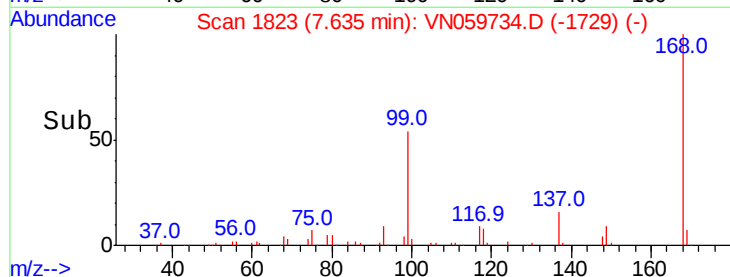
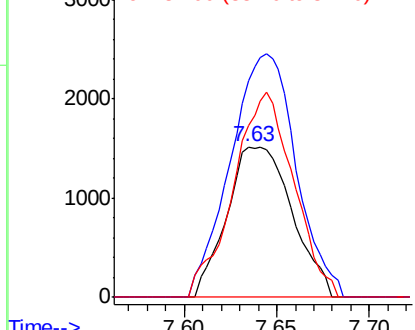
#31
Cyclohexane
Concen: 1.146 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Instrument :
MSVOA_N
ClientSampleId :
HD-01-011520

Tgt Ion: 56 Resp: 3708
Ion Ratio Lower Upper
56 100
69 144.3 26.5 39.7#
84 114.6 65.3 97.9#

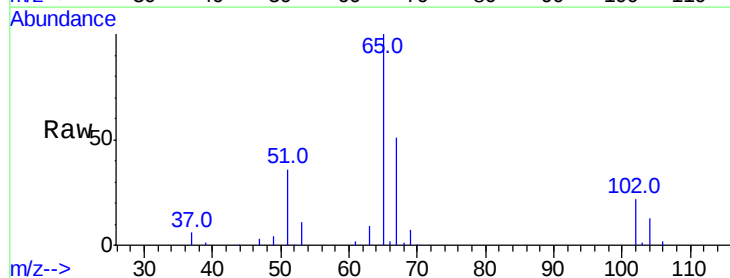


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

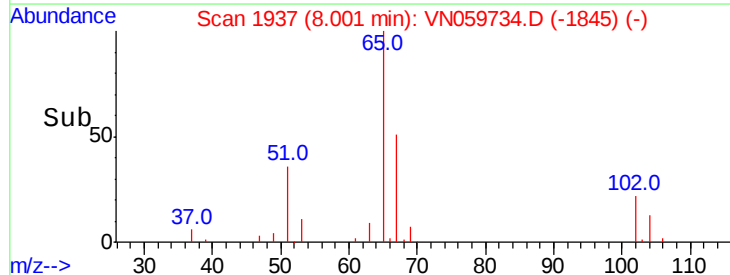
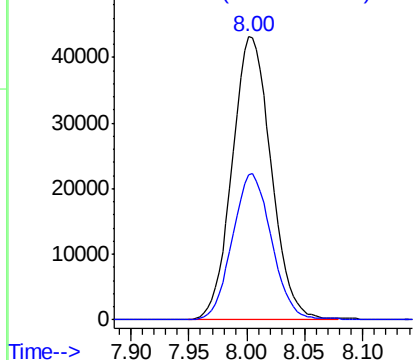


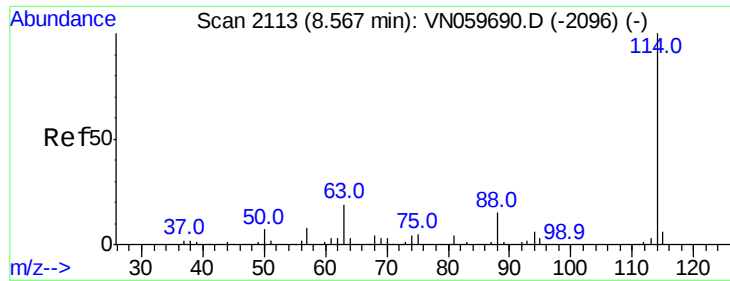
#33
1,2-Dichloroethane-d4
Concen: 46.171 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Tgt Ion: 65 Resp: 100961
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.0



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

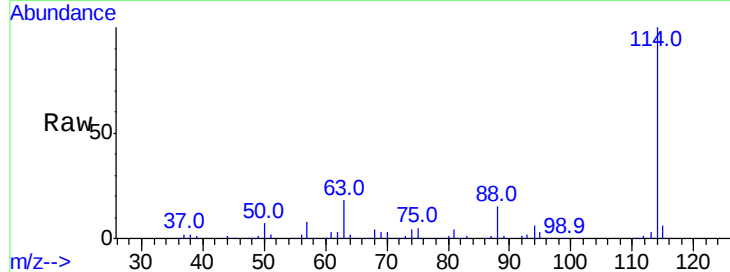




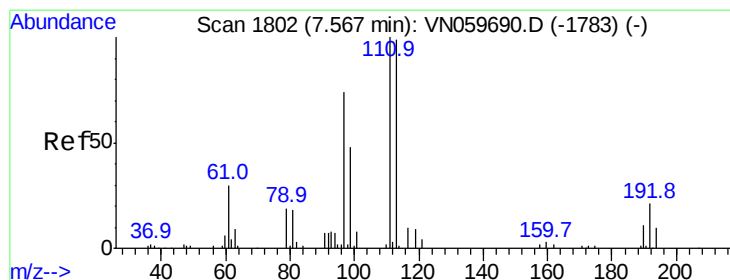
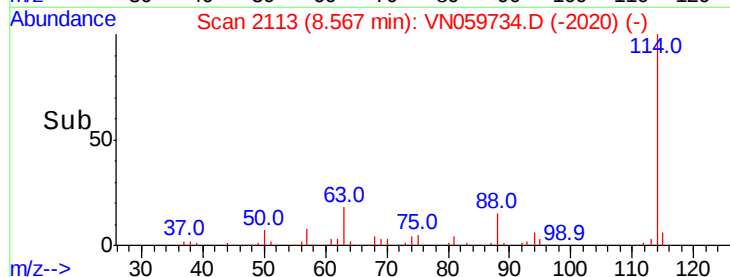
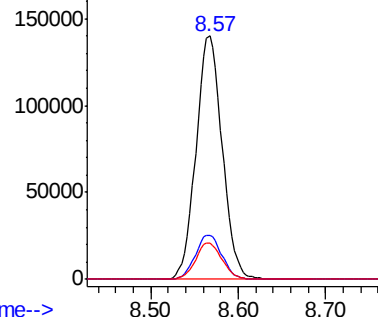
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Instrument :
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Tgt Ion:114 Resp: 291306
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 43.6
 88 14.6 0.0 31.4

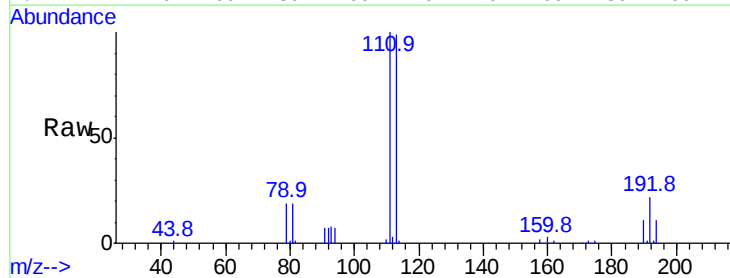


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

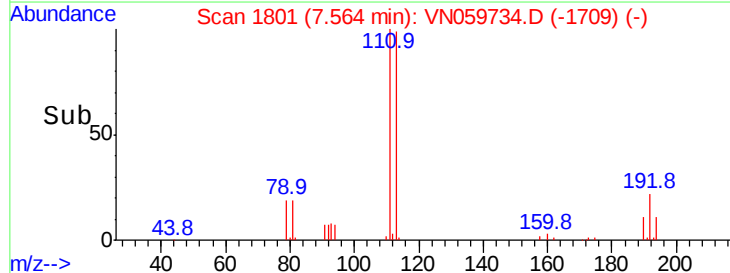
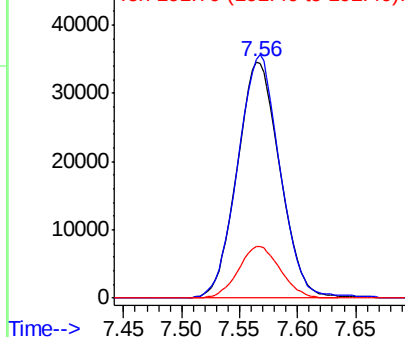


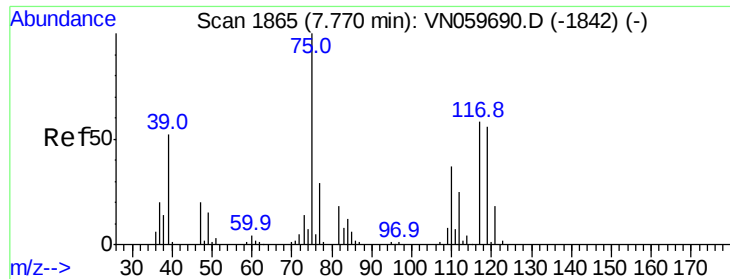
#35
 Dibromofluoromethane
 Concen: 50.956 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Tgt Ion:113 Resp: 88520
 Ion Ratio Lower Upper
 113 100
 111 102.2 83.5 125.3
 192 21.5 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

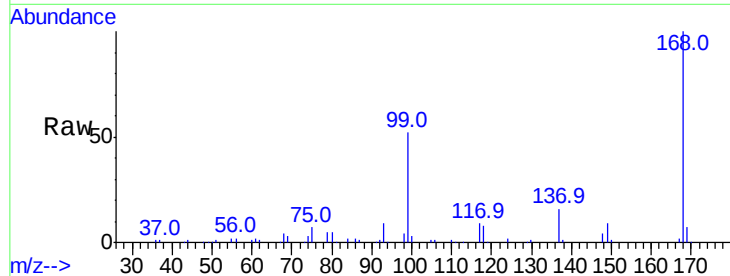




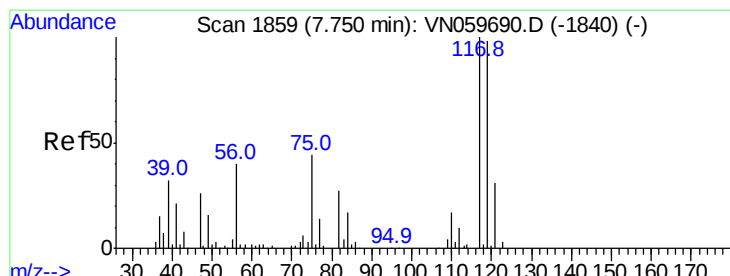
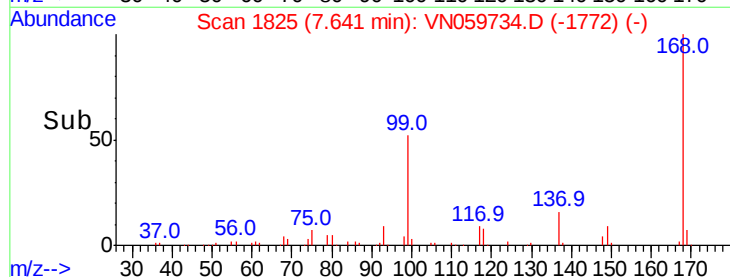
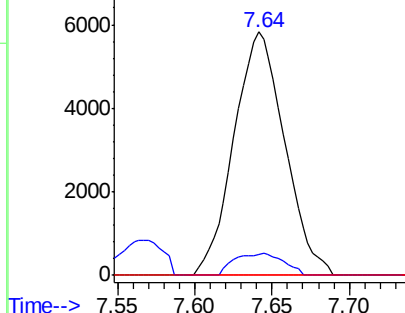
#36
 1,1-Dichloropropene
 Concen: 5.239 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Instrument :
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 HD-01-011520

Tgt Ion: 75 Resp: 13290
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.6 49.7#
 77 0.0 25.1 37.7#

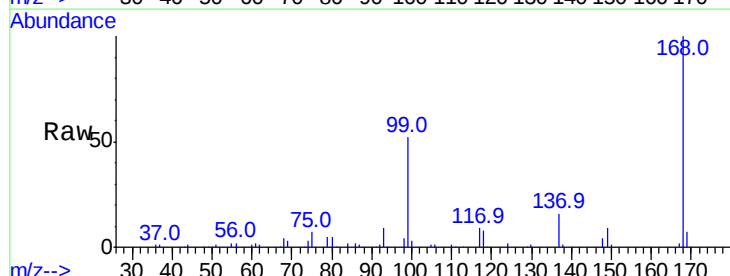


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

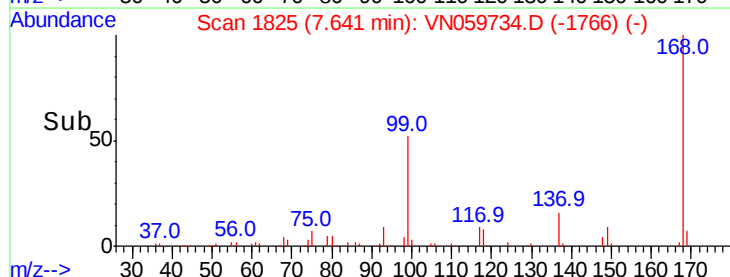
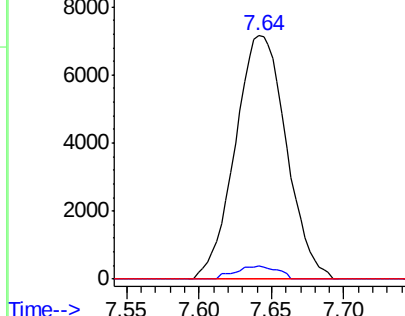


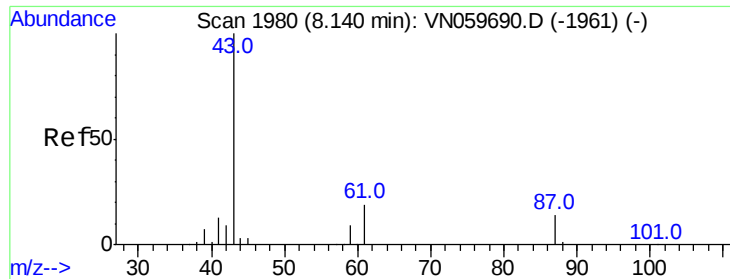
#38
 Carbon Tetrachloride
 Concen: 6.357 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Tgt Ion: 117 Resp: 17541
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.5 114.7#
 121 0.0 25.1 37.7#



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: 10.320 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059734.D

Acq: 16 Jan 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

HD-01-011520

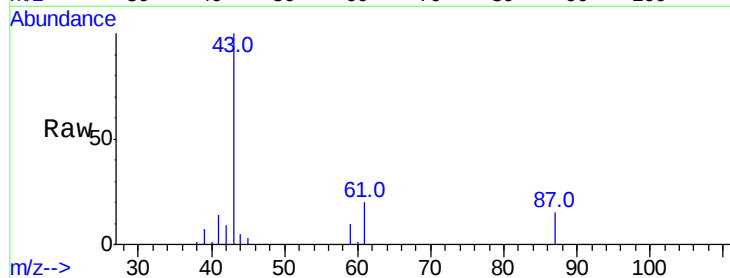
Tgt Ion: 43 Resp: 42234

Ion Ratio Lower Upper

43 100

61 19.5 20.2 30.2#

87 14.1 9.5 14.3

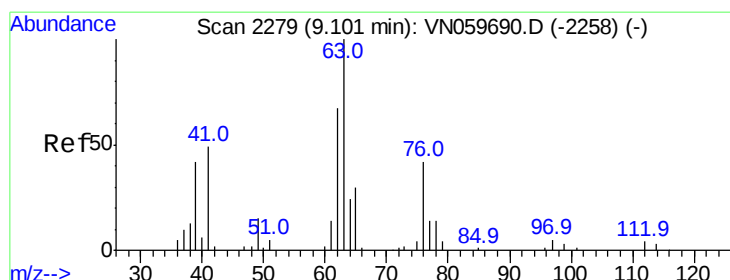
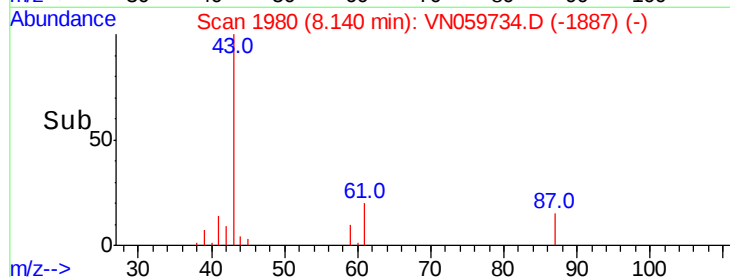
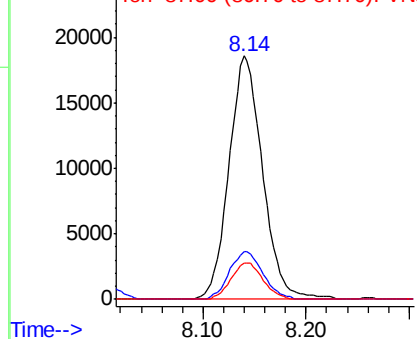


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.416 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059734.D

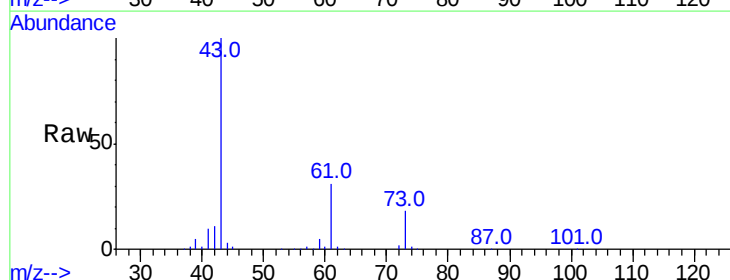
Acq: 16 Jan 2020 16:05

Tgt Ion: 63 Resp: 778

Ion Ratio Lower Upper

63 100

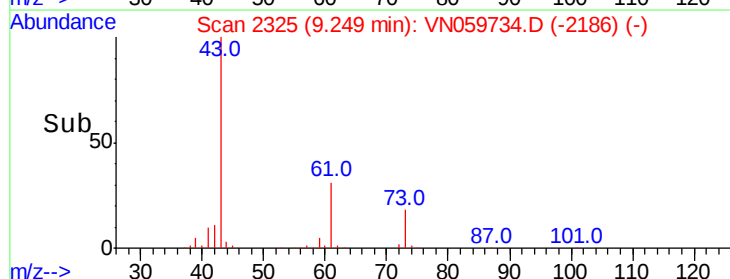
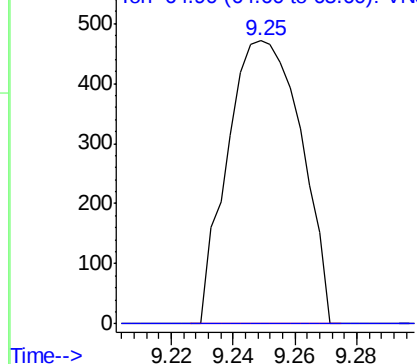
65 0.0 24.9 37.3#

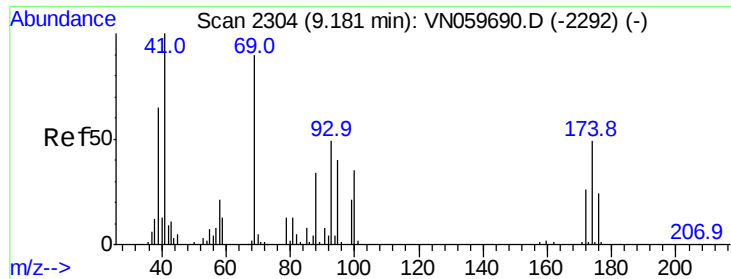


Abundance

Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 1.278 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN059734.D

Acq: 16 Jan 2020 16:05

Instrument :

MSVOA_N

ClientSampled :

HD-01-011520

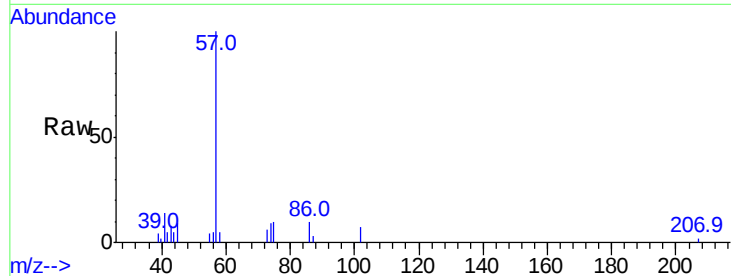
Tgt Ion: 41 Resp: 2340

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 51.3 76.9#

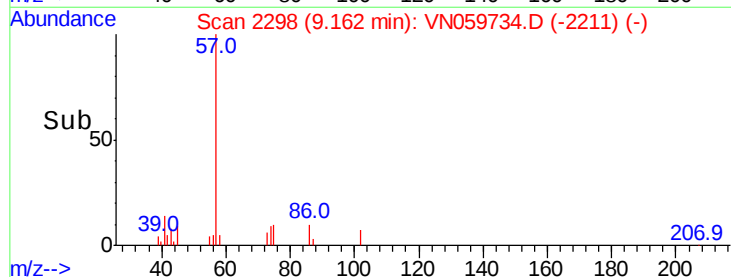
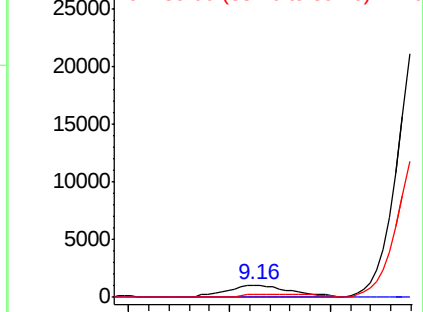


Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 49.812 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059734.D

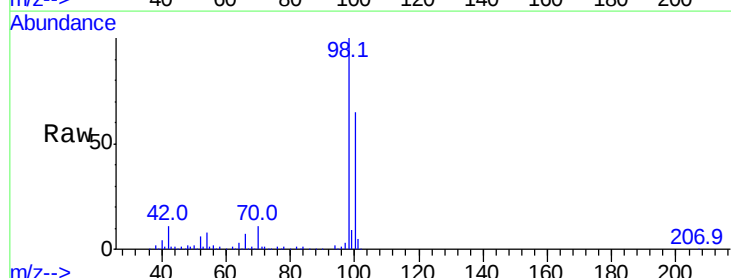
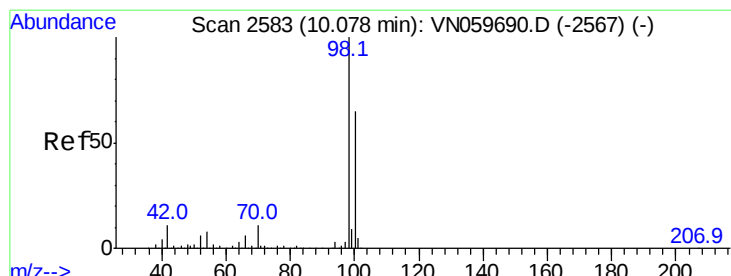
Acq: 16 Jan 2020 16:05

Tgt Ion: 98 Resp: 335271

Ion Ratio Lower Upper

98 100

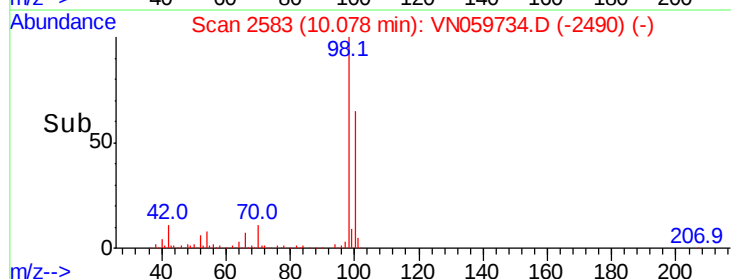
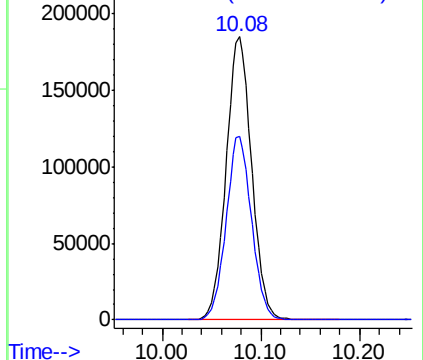
100 64.7 51.2 76.8

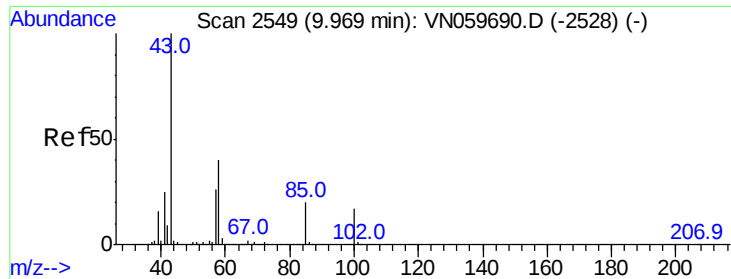


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

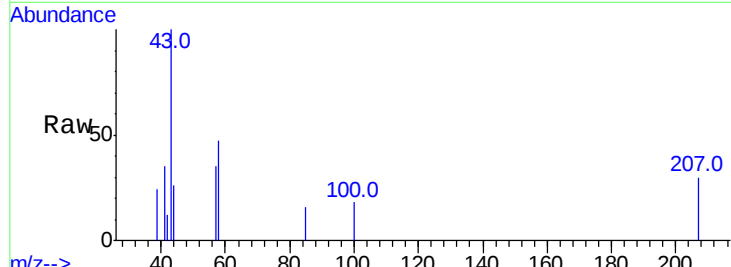




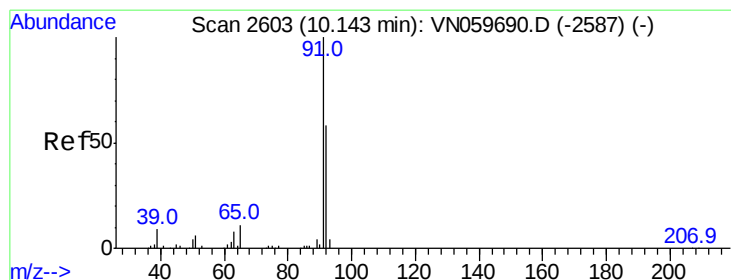
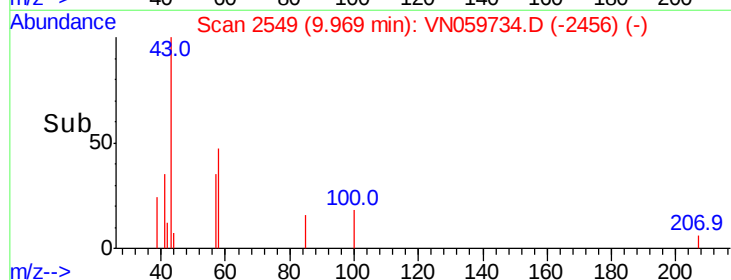
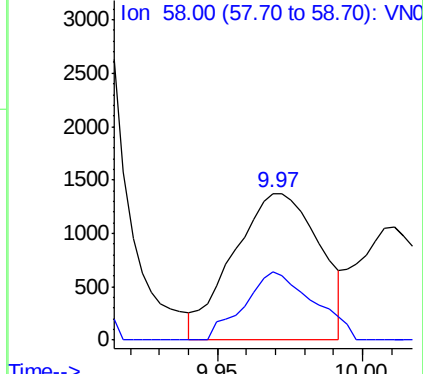
#51
4-Methyl-2-Pentanone
Concen: 1.200 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Instrument :
MSVOA_N
ClientSampleId :
HD-01-011520

Tgt Ion: 43 Resp: 2838
Ion Ratio Lower Upper
43 100
58 37.6 29.8 44.8

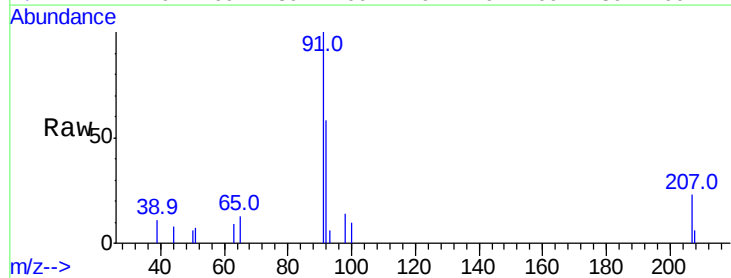


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

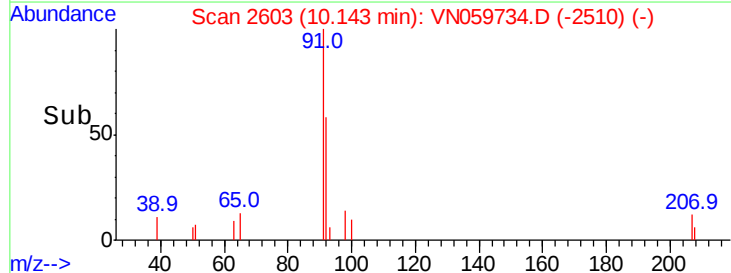
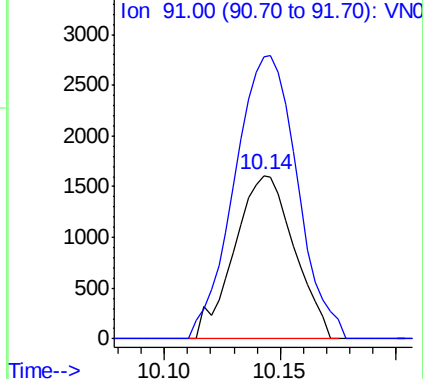


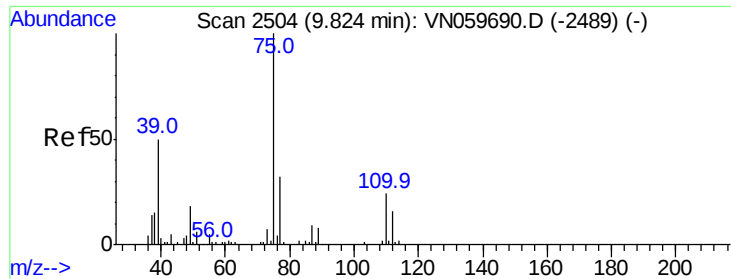
#52
Toluene
Concen: 0.604 ug/l
RT: 10.14 min Scan# 2603
Delta R.T. 0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Tgt Ion: 92 Resp: 2888
Ion Ratio Lower Upper
92 100
91 181.6 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0
Ion 91.00 (90.70 to 91.70): VN0

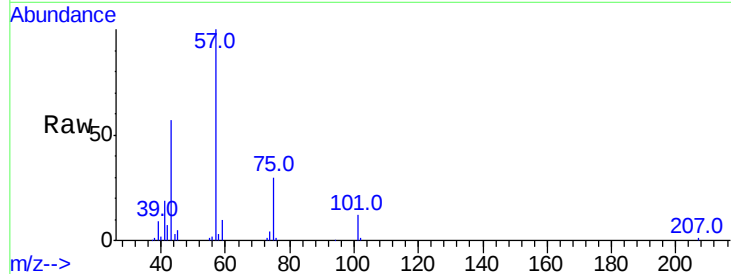




#54
 cis-1,3-Dichloropropene
 Concen: 6.221 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-011520

Tgt Ion: 75 Resp: 19449
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 29.9 46.1 69.1#

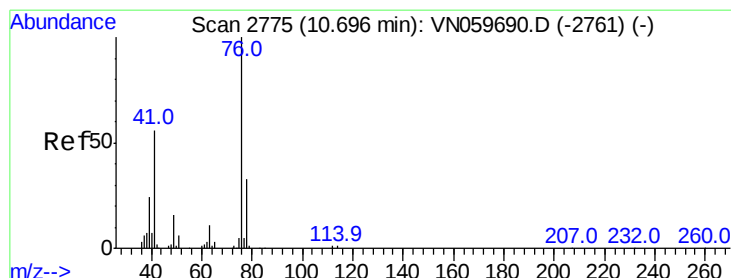
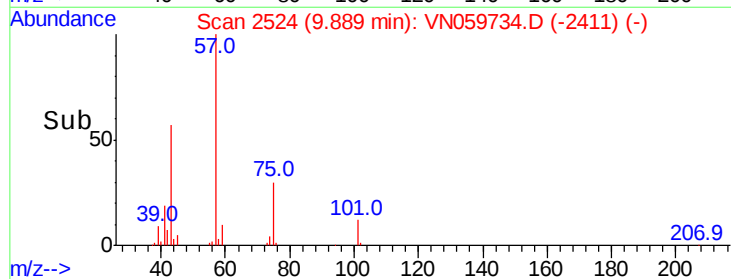
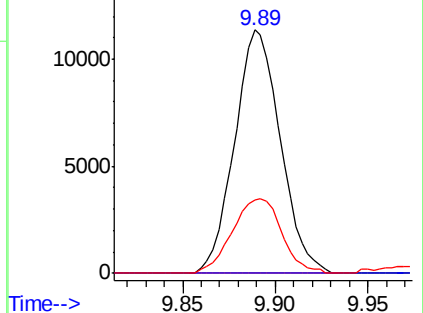


Abundance

Ion 74.90 (74.60 to 75.60): VNC

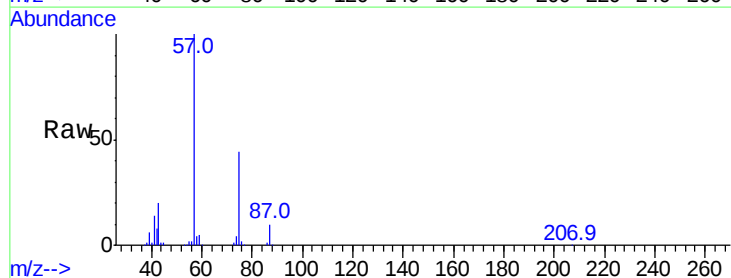
Ion 76.90 (76.60 to 77.60): VNC

Ion 39.00 (38.70 to 39.70): VNC



#57
 1,3-Dichloropropane
 Concen: 1.076 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

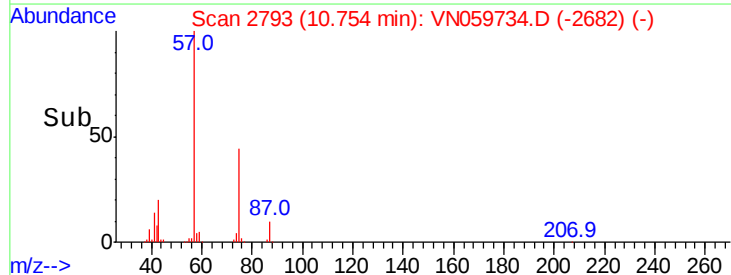
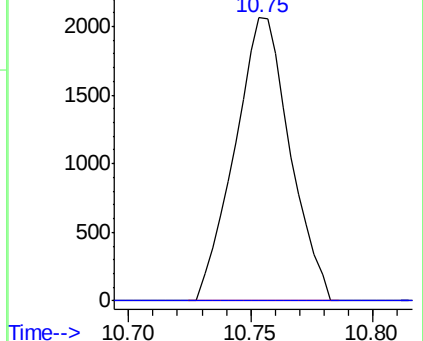
Tgt Ion: 76 Resp: 3233
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

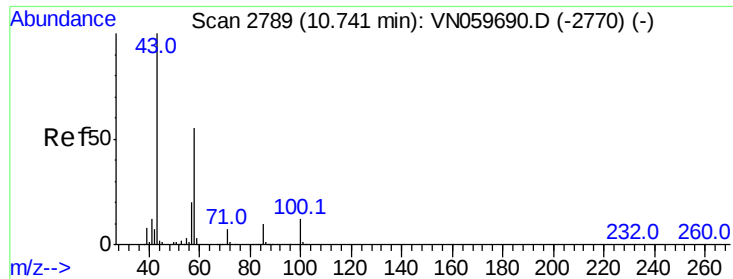


Abundance

Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

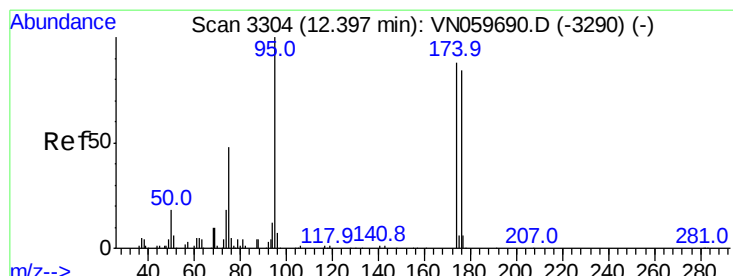
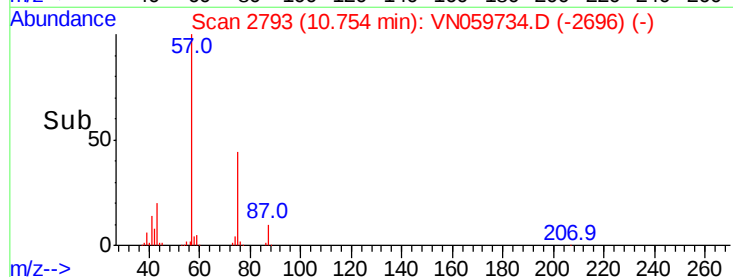
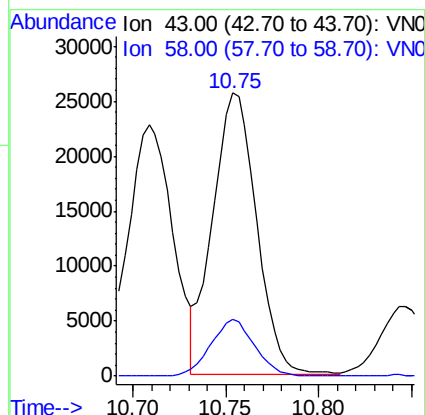
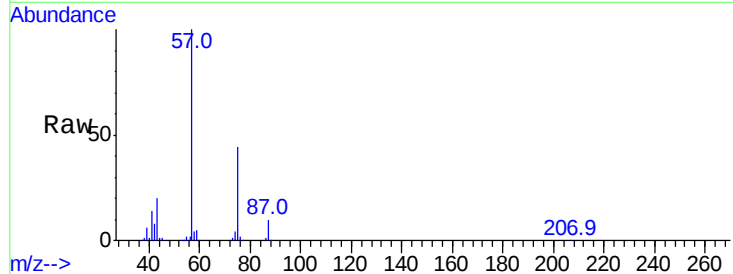




#59
2-Hexanone
Concen: 24.164 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

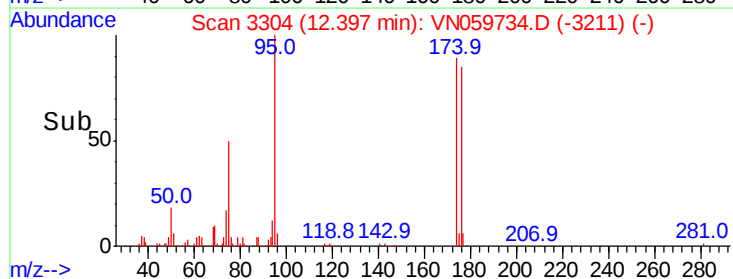
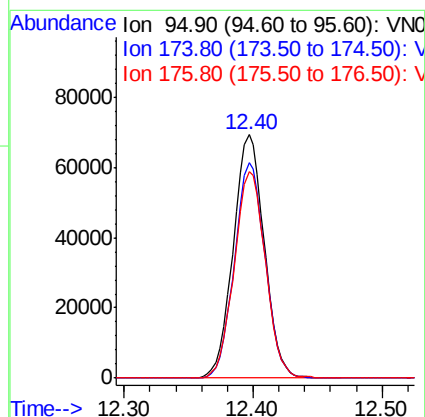
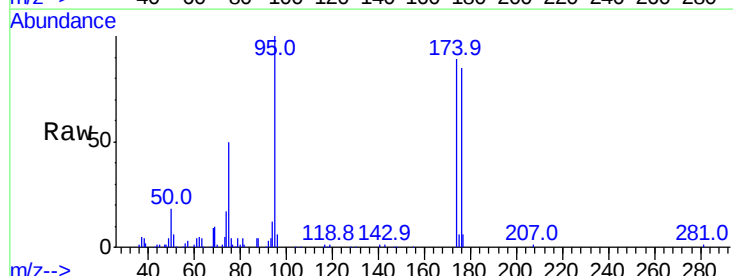
Instrument :
MSVOA_N
ClientSampled :
HD-01-011520

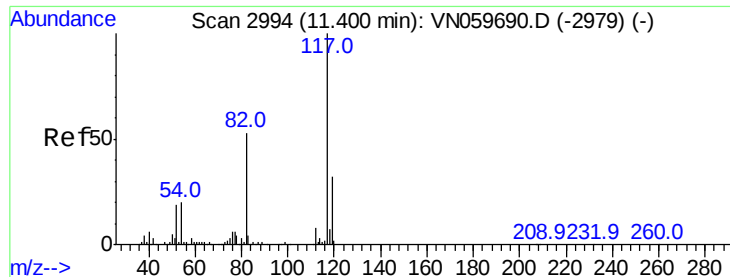
Tgt Ion: 43 Resp: 42114
Ion Ratio Lower Upper
43 100
58 20.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.719 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Tgt Ion: 95 Resp: 115786
Ion Ratio Lower Upper
95 100
174 87.7 0.0 151.4
176 85.7 0.0 146.0

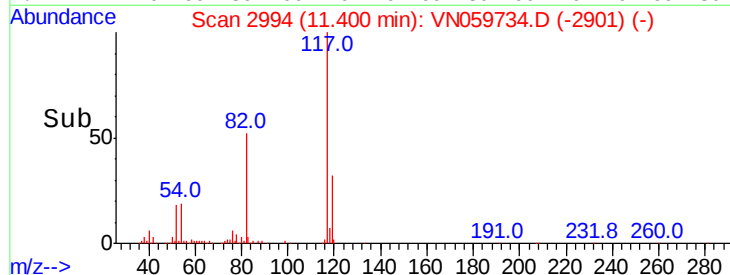
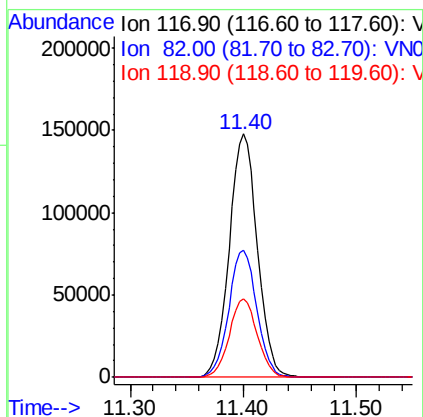
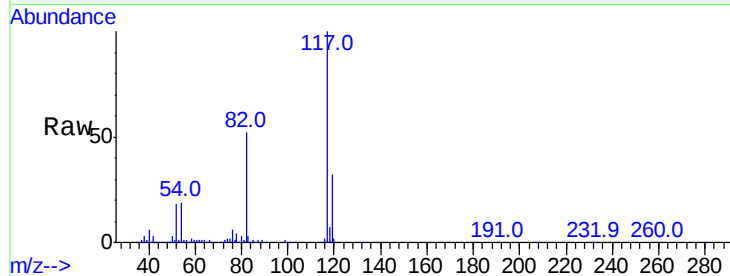




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

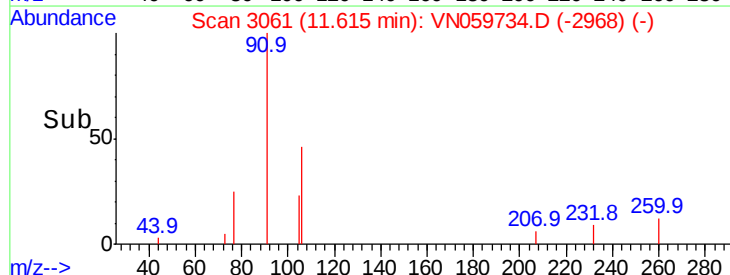
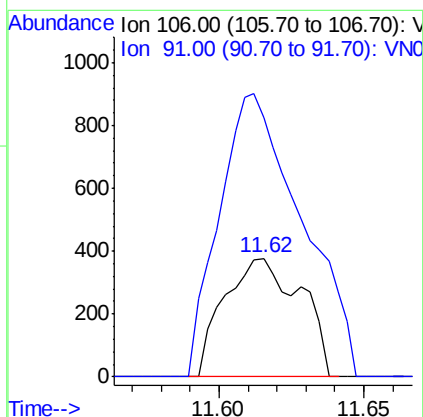
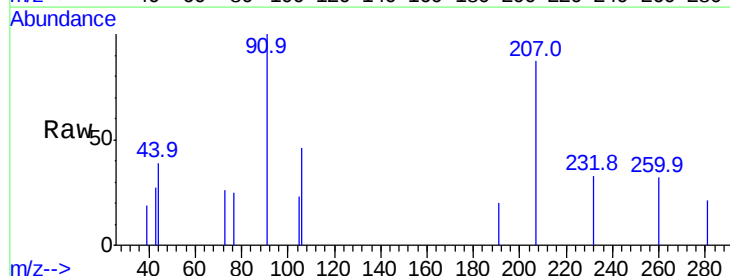
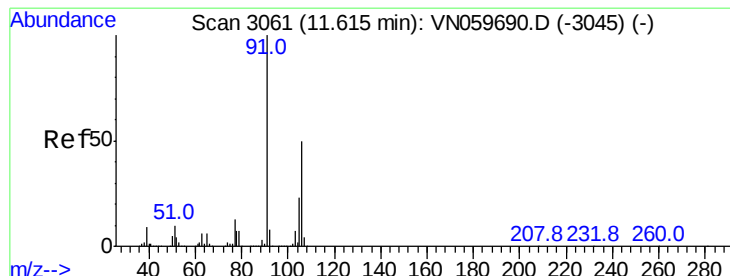
Instrument :
MSVOA_N
ClientSampleId :
HD-01-011520

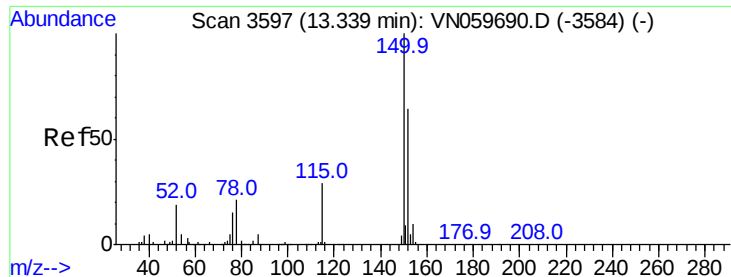
Tgt Ion:117 Resp: 254813
Ion Ratio Lower Upper
117 100
82 52.2 45.9 68.9
119 32.3 25.5 38.3



#68
m/p-Xylenes
Concen: 0.201 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059734.D
Acq: 16 Jan 2020 16:05

Tgt Ion:106 Resp: 691
Ion Ratio Lower Upper
106 100
91 257.3 167.9 251.9#

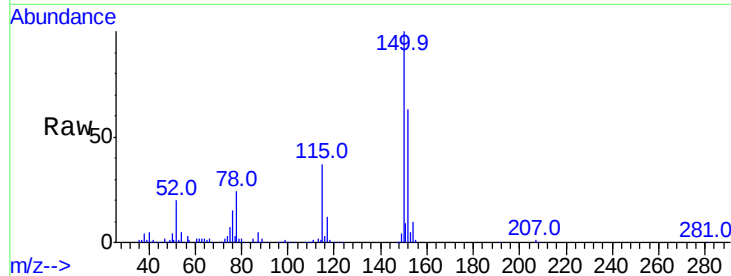




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-011520

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.2	30.3	90.9
150	156.8	0.0	345.2

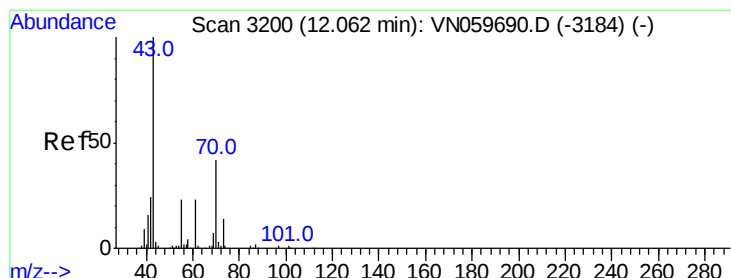
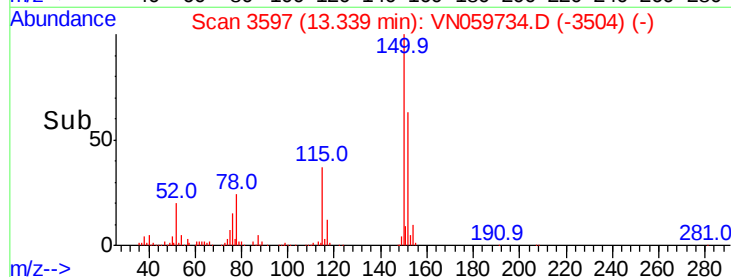
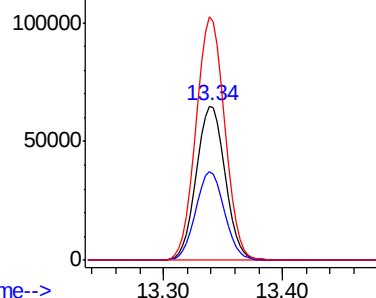


Abundance

Ion 151.90 (151.60 to 152.60): V

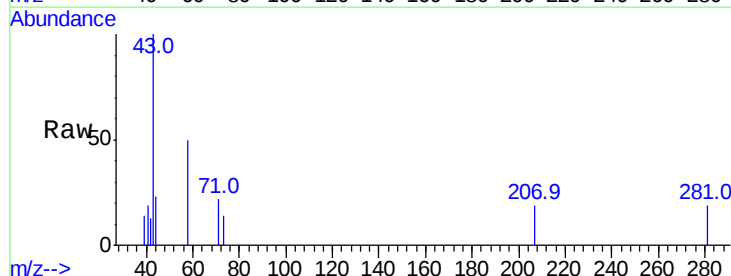
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74
 N-ethyl acetate
 Concen: 0.732 ug/l
 RT: 12.03 min Scan# 3189
 Delta R.T. -0.04 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.3	46.9#
55	0.0	19.8	29.6#
61	0.0	18.3	27.5#



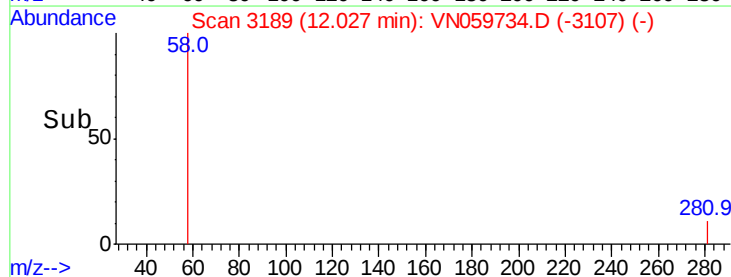
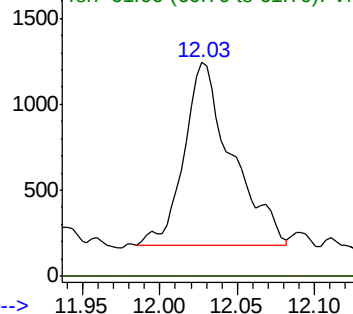
Abundance

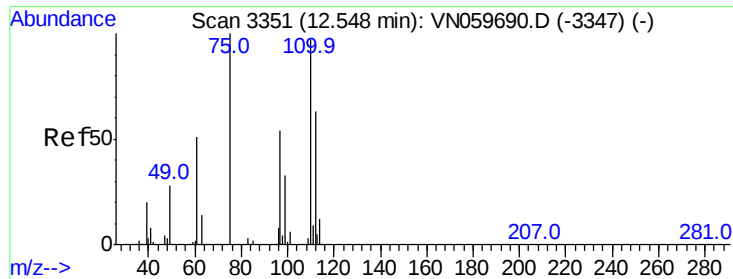
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

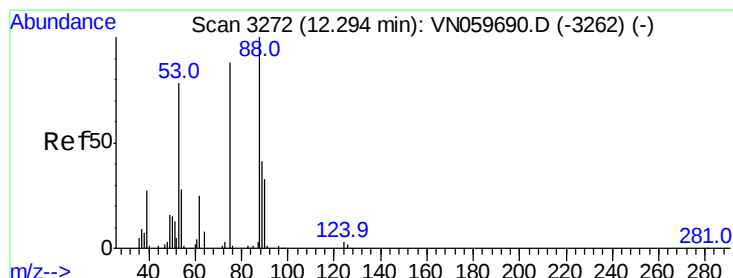
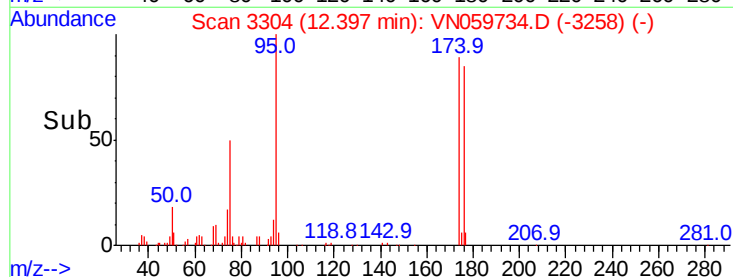
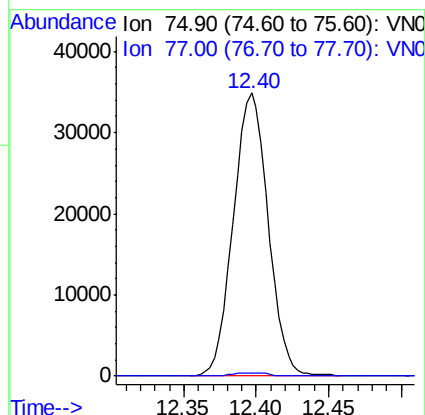
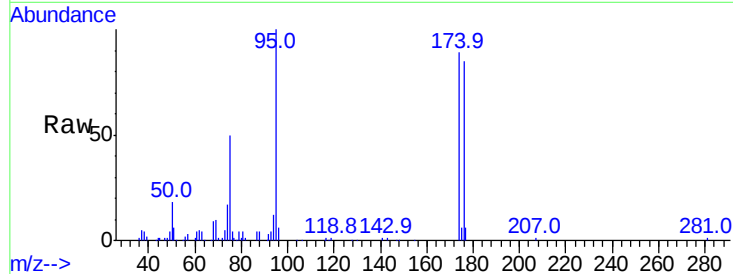




#76
 1,2,3-Trichloropropane
 Concen: 31.535 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

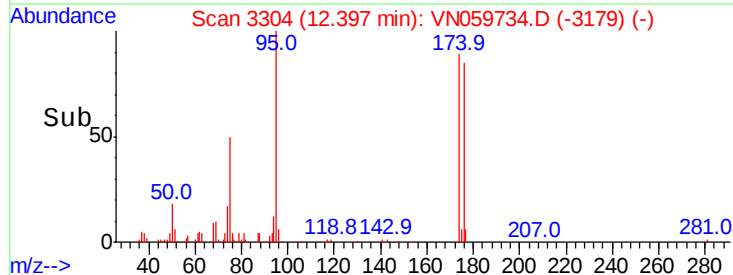
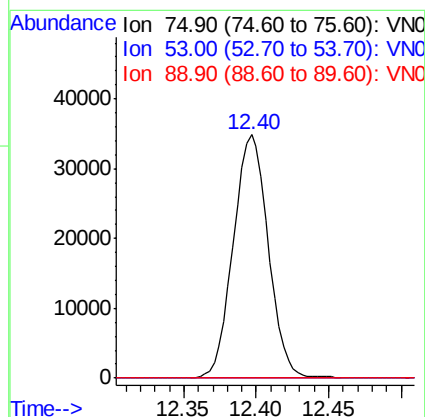
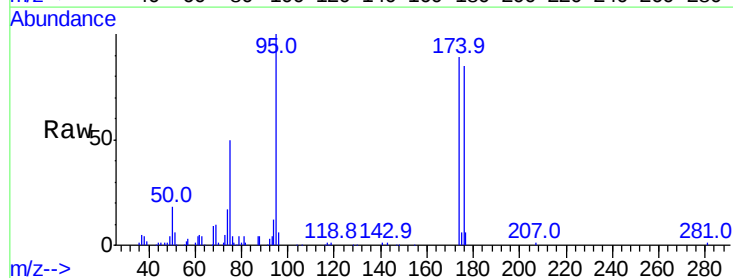
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-011520

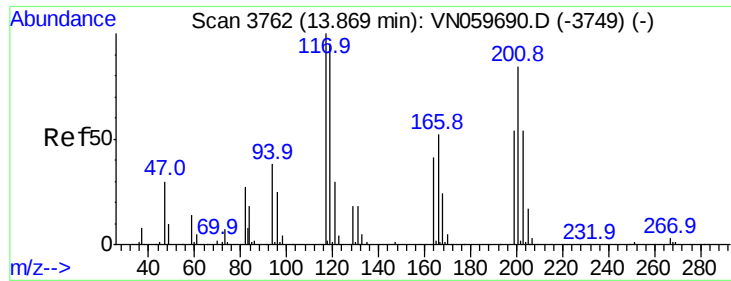
Tgt Ion: 75 Resp: 58356
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.722 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059734.D
 Acq: 16 Jan 2020 16:05

Tgt Ion: 75 Resp: 58356
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#





#90

Hexachloroethane

Concen: 0.503 ug/l

RT: 13.99 min Scan# 3799

Delta R.T. 0.12 min

Lab File: VN059734.D

Acq: 16 Jan 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

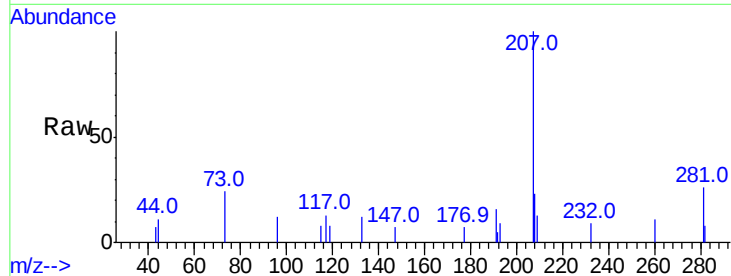
HD-01-011520

Tgt Ion: 117 Resp: 671

Ion Ratio Lower Upper

117 100

201 0.0 37.8 113.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

400

300

200

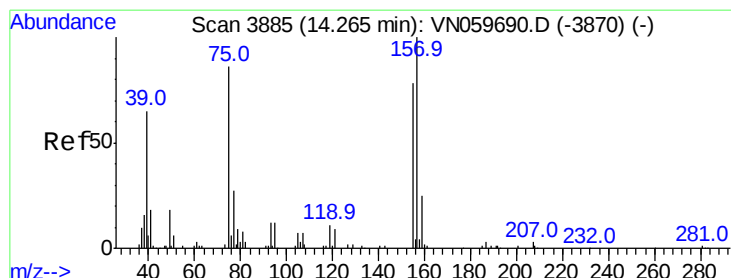
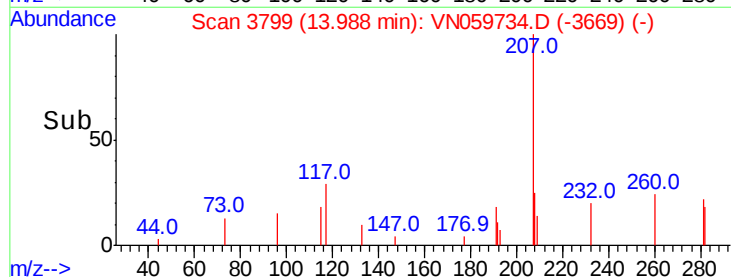
100

0

13.95

14.00

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN059734.D

Acq: 16 Jan 2020 16:05

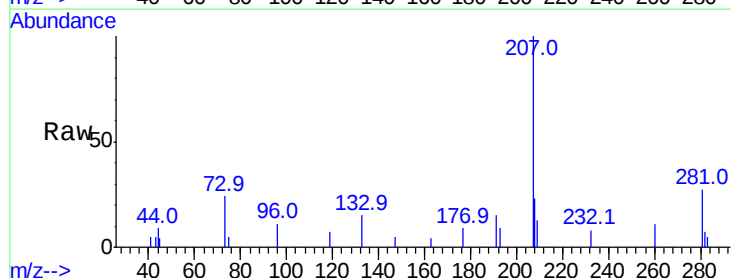
Tgt Ion: 75 Resp: 140

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.28

250

200

150

100

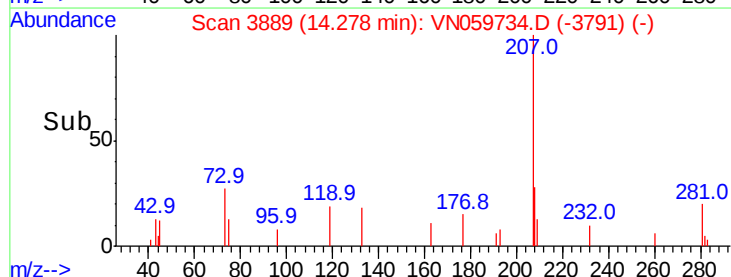
50

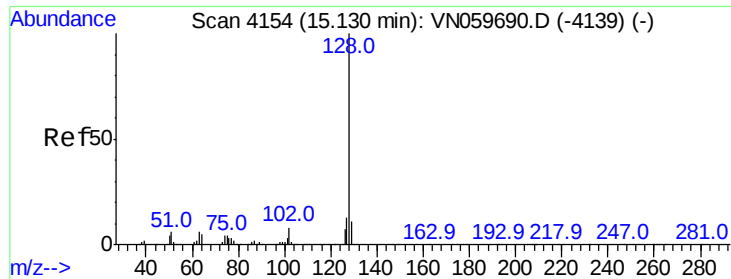
0

14.26

14.28

Time-->





#95

Naphthalene

Concen: 0.359 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059734.D

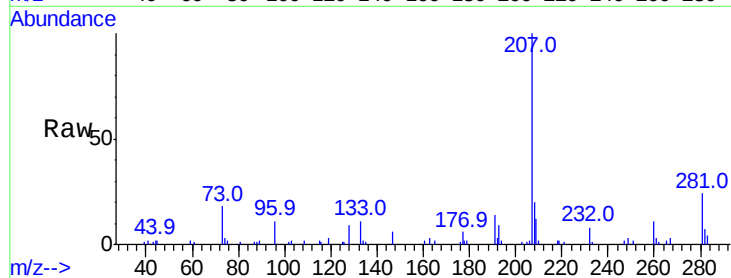
Acq: 16 Jan 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

HD-01-011520



Tgt Ion:	128	Resp:	2149
Ion	Ratio	Lower	Upper
128	100		
127	4.4	10.4	15.6#
129	0.0	8.6	12.8#

