

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081920\
 Data File : VN063020.D
 Acq On : 19 Aug 2020 18:22
 Operator : JC/MD
 Sample : L3499-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-081820

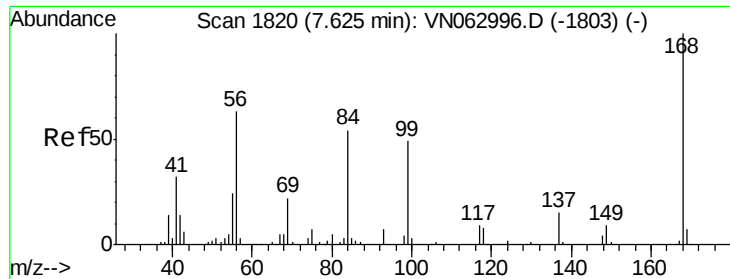
Quant Time: Aug 20 01:26:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	146107	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	251421	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	272051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	102269	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	95300	55.03	ug/l	0.00
Spiked Amount			Recovery	=	110.06%	
35) Dibromofluoromethane	7.55	113	83995	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
50) Toluene-d8	10.06	98	331988	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	12.38	95	113464	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.68	59	377	1.537	ug/l #	74
16) Acetone	3.78	43	9843	14.533	ug/l	94
18) Methyl Acetate	4.29	43	3174	1.844	ug/l #	77
20) Methylene Chloride	4.50	84	7073	3.388	ug/l	97
25) 2-Butanone	6.80	43	814	0.885	ug/l #	48
29) Tetrahydrofuran	7.18	42	127	0.214	ug/l #	34
31) Cyclohexane	7.63	56	2626	1.029	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10495	4.737	ug/l #	48
37) Ethyl Acetate	6.80	43	814	0.392	ug/l #	68
38) Carbon Tetrachloride	7.63	117	13245	5.921	ug/l #	17
43) Isopropyl Acetate	8.13	43	39254	11.413	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	863	0.425	ug/l #	43
48) Methyl methacrylate	9.15	41	2288	1.406	ug/l #	11
51) 4-Methyl-2-Pentanone	9.96	43	4355	2.003	ug/l	96
54) cis-1,3-Dichloropropene	9.88	75	17513	6.007	ug/l #	66
56) Ethyl methacrylate	10.51	69	1306	2.191	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3110	1.033	ug/l #	42
59) 2-Hexanone	10.74	43	42603	28.094	ug/l #	53
71) Bromoform	12.38	173	1063	0.628	ug/l #	1
74) N-amyl acetate	12.01	43	777	0.310	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	54548	27.440	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	54548	75.363	ug/l #	15
89) n-Butylbenzene	13.59	91	136	2.794	ug/l #	34
90) Hexachloroethane	13.97	117	619	0.495	ug/l #	5
95) Naphthalene	15.11	128	43633	15.129	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063020.D

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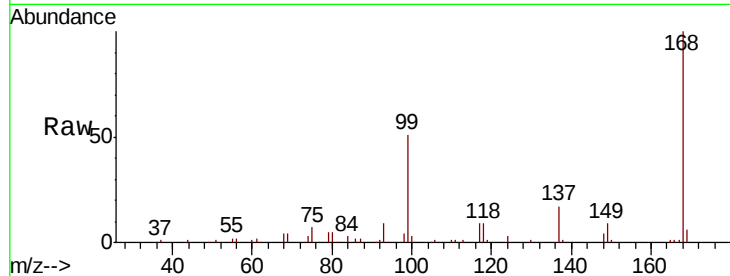
HD-01-081820

Tot Ion:168 Resp: 146107

Ion Ratio Lower Upper

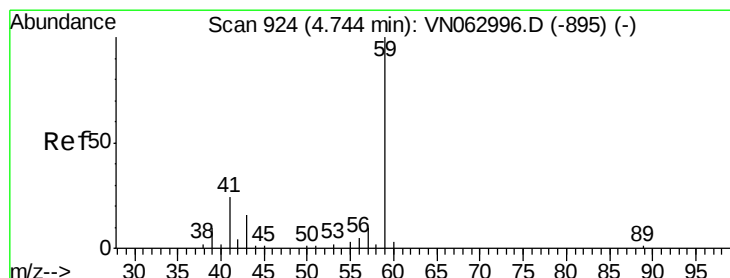
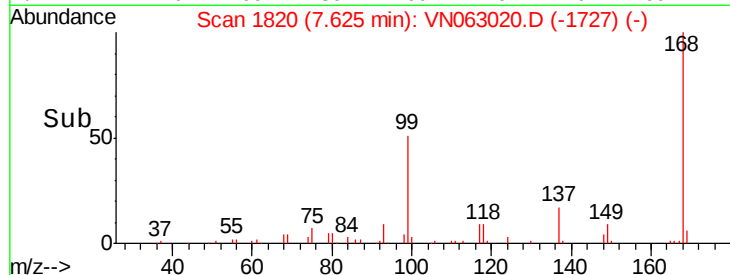
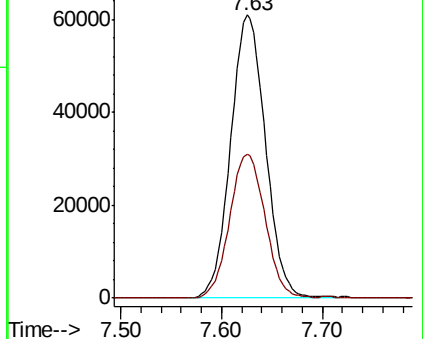
168 100

99 51.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 1.537 ug/l

RT: 4.68 min Scan# 904

Delta R.T. -0.06 min

Lab File: VN063020.D

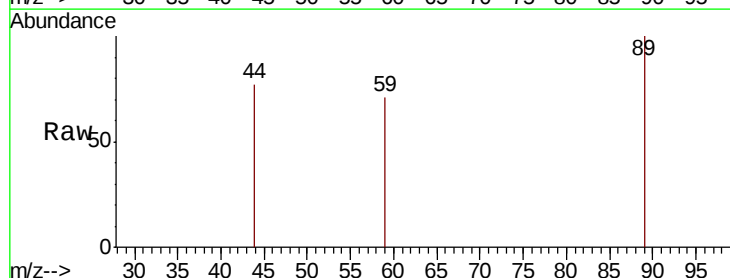
Acq: 19 Aug 2020 18:22

Tgt Ion: 59 Resp: 377

Ion Ratio Lower Upper

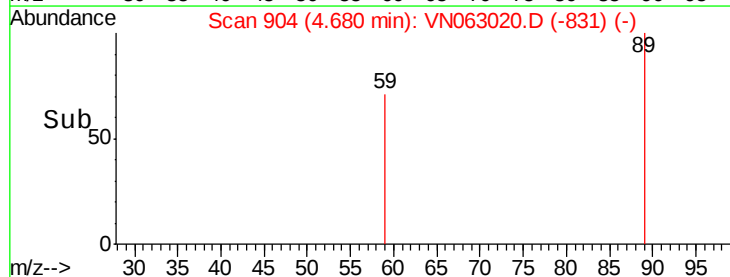
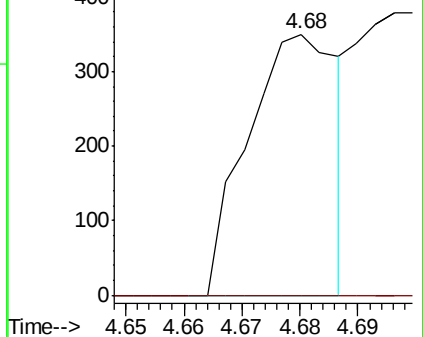
59 100

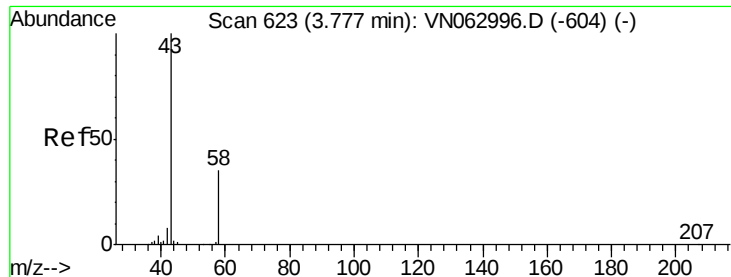
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 14.533 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

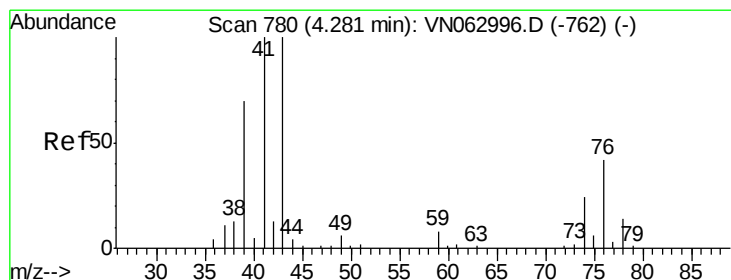
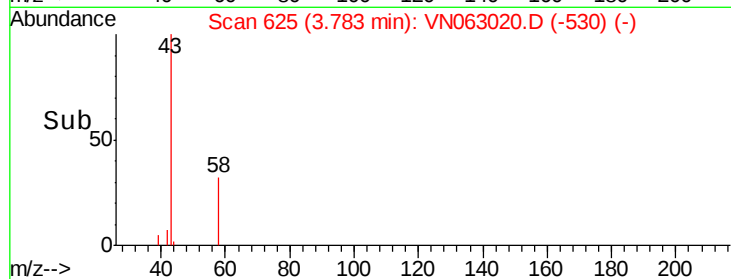
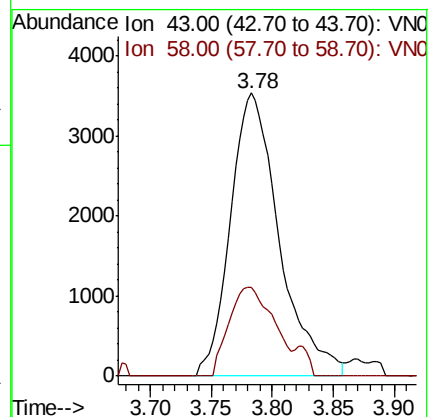
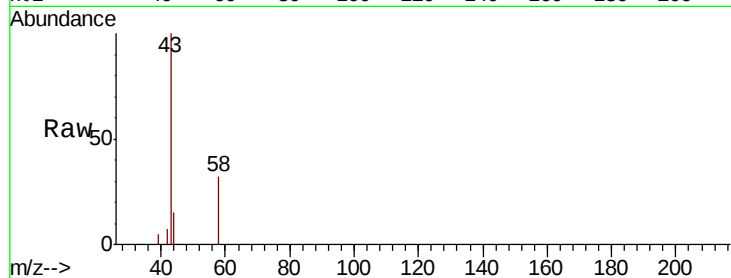
HD-01-081820

Tot Ion: 43 Resp: 9843

Ion Ratio Lower Upper

43 100

58 31.5 27.8 41.6



#18

Methyl Acetate

Concen: 1.844 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN063020.D

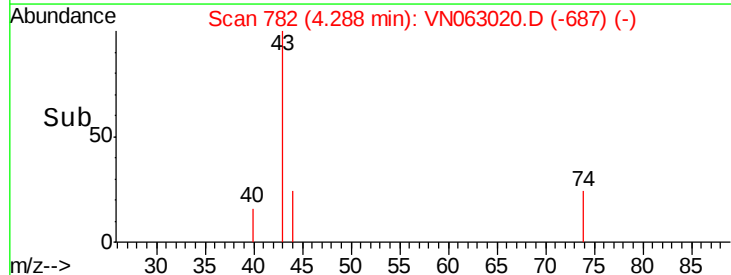
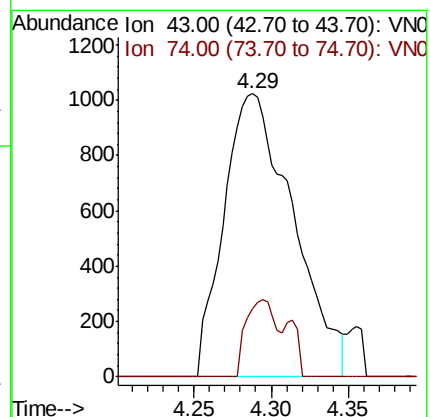
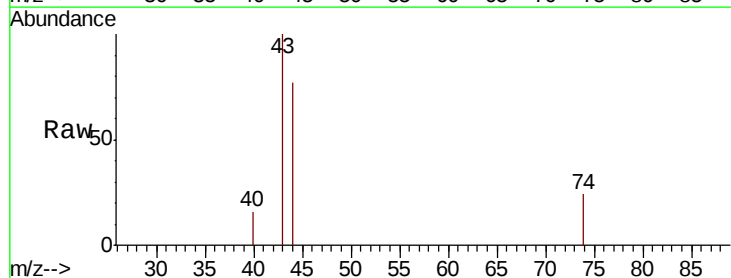
Acq: 19 Aug 2020 18:22

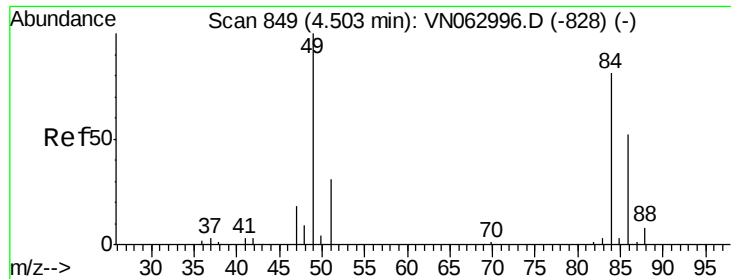
Tgt Ion: 43 Resp: 3174

Ion Ratio Lower Upper

43 100

74 12.1 18.6 28.0#

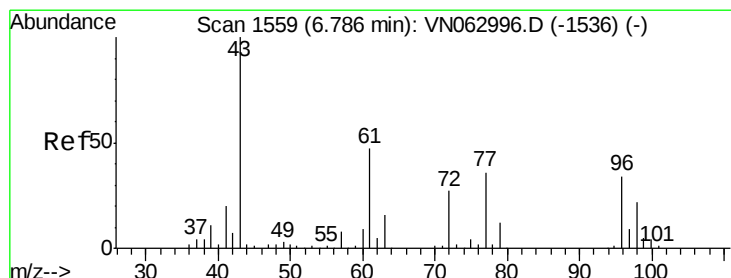
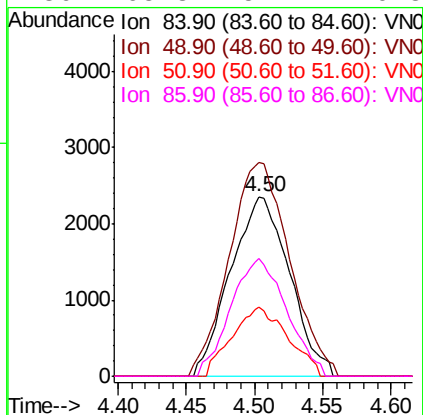
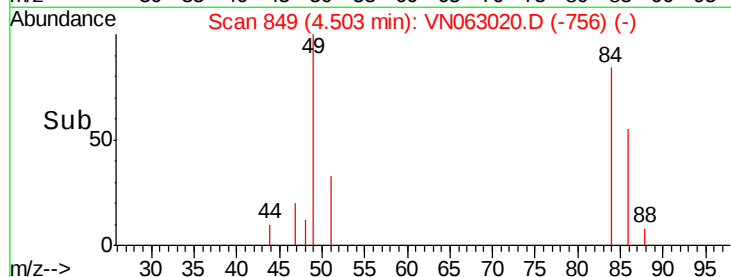
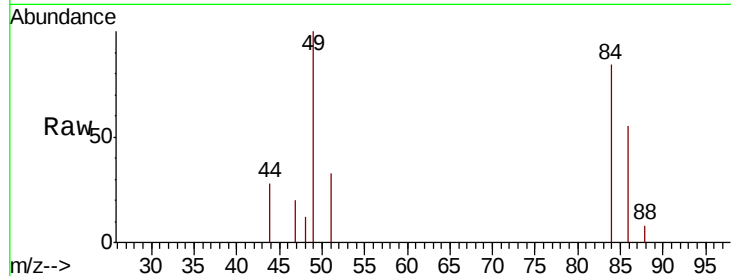




#20
Methvlene Chloride
Concen: 3.388 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

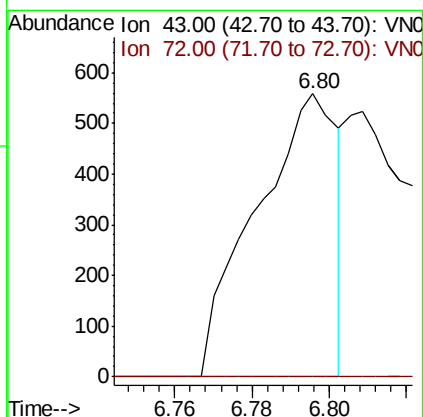
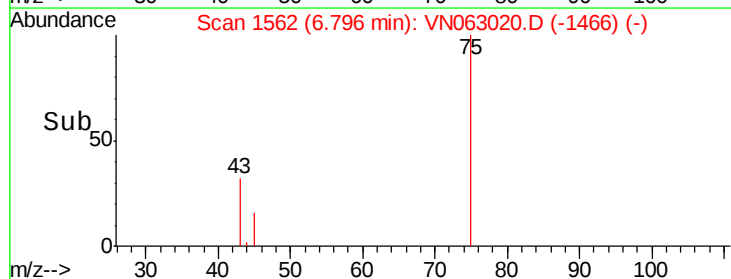
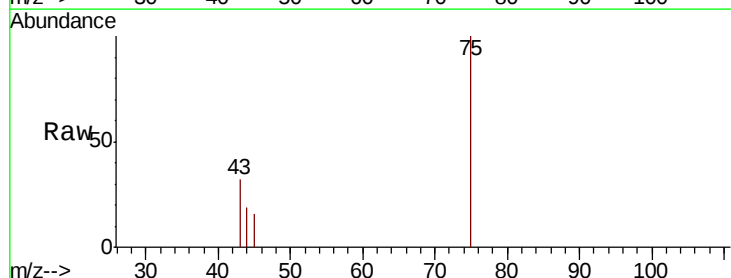
Instrument :
MSVOA_N
ClientSampled :
HD-01-081820

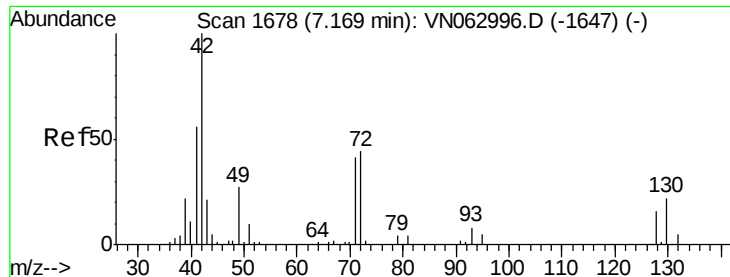
Tot Ion:	84	Resp:	7073
Ion	Ratio	Lower	Upper
84	100		
49	118.9	98.7	148.1
51	38.8	30.8	46.2
86	65.3	51.2	76.8



#25
2-Butanone
Concen: 0.885 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Tgt Ion:	43	Resp:	814
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.8	32.6#





#29

Tetrahydrofuran

Concen: 0.214 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

HD-01-081820

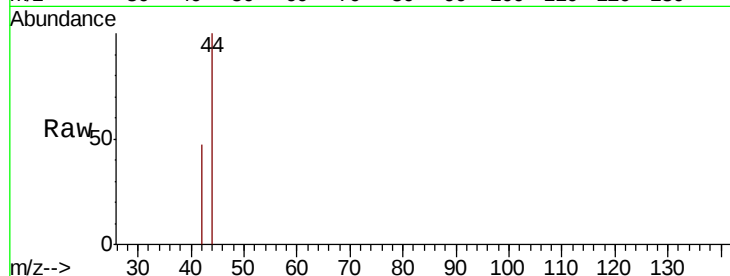
Tot Ion: 42 Resp: 127

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

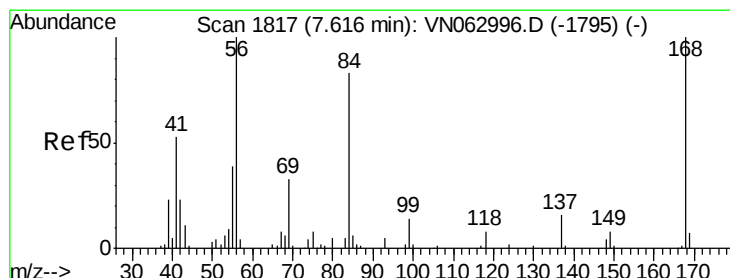
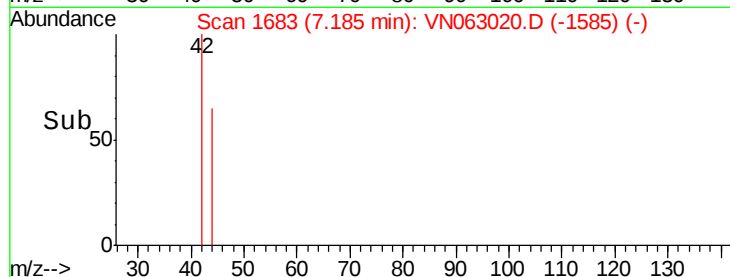
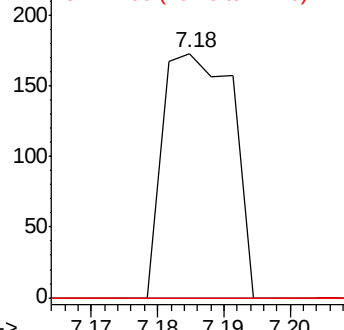
71 0.0 32.3 48.5#



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: 1.029 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

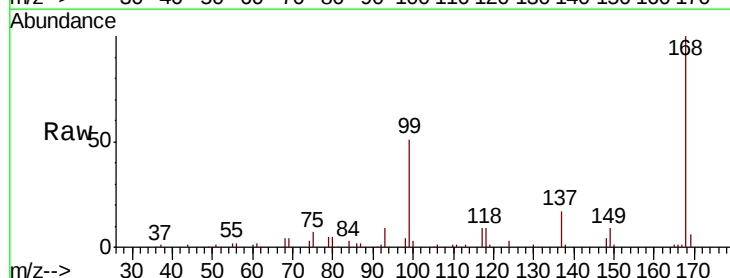
Tgt Ion: 56 Resp: 2626

Ion Ratio Lower Upper

56 100

69 188.9 26.6 40.0#

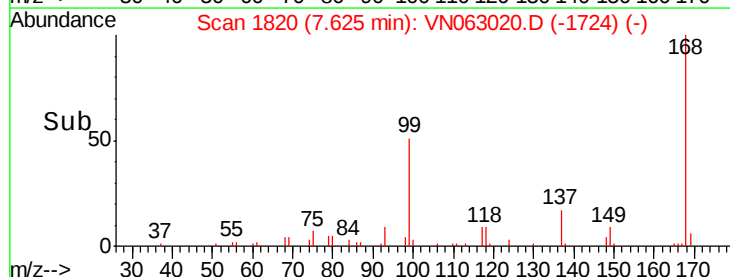
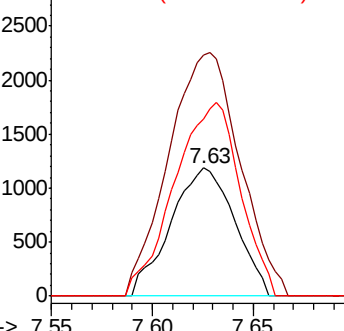
84 138.6 66.4 99.6#

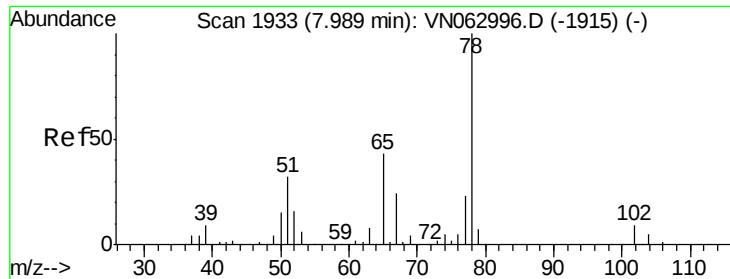


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

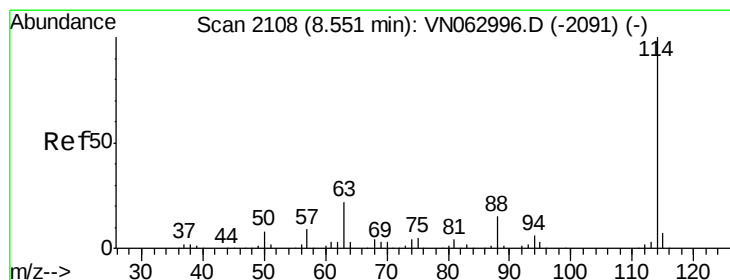
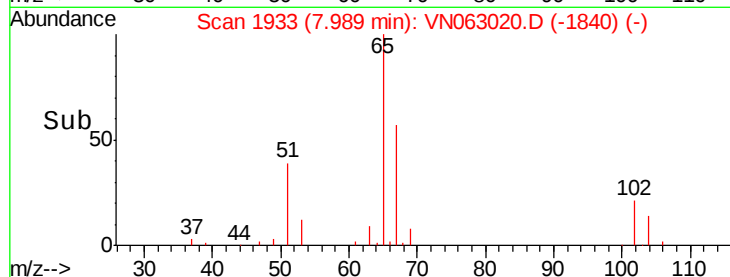
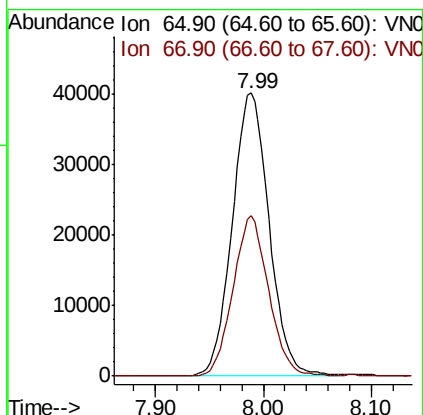
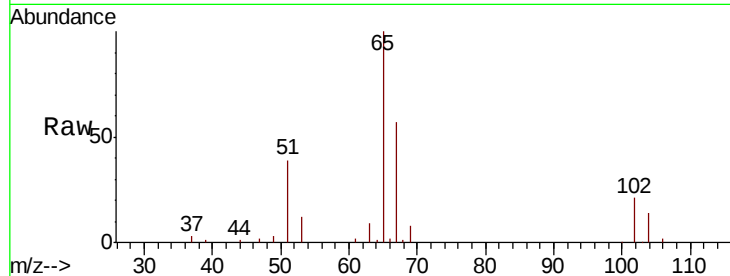




#33
 1,2-Dichloroethane-d4
 Concen: 55.035 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN063020.D
 Acq: 19 Aug 2020 18:22

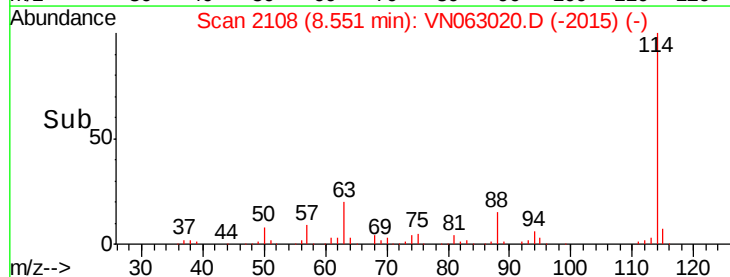
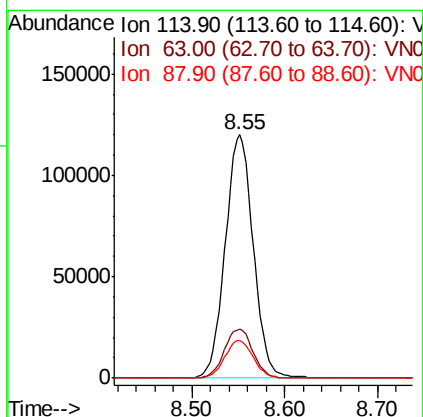
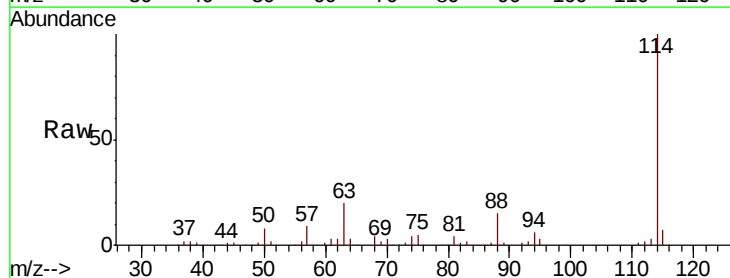
Instrument :
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 HD-01-081820

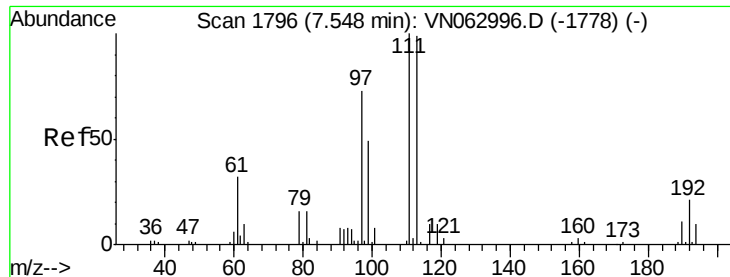
Tot Ion: 65 Resp: 95300
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063020.D
 Acq: 19 Aug 2020 18:22

Tgt Ion: 114 Resp: 251421
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 43.2
 88 15.3 0.0 30.6

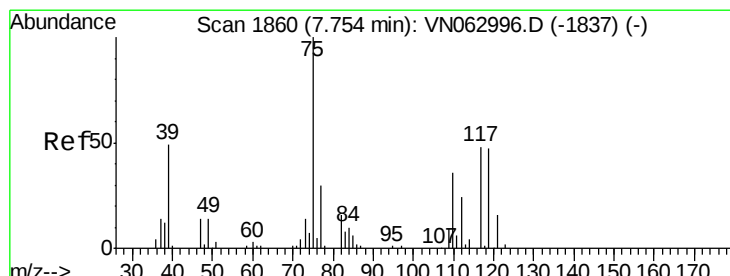
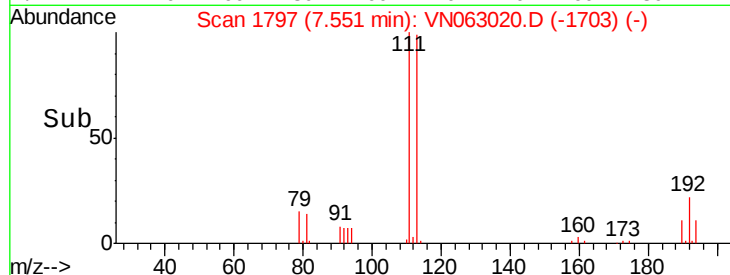
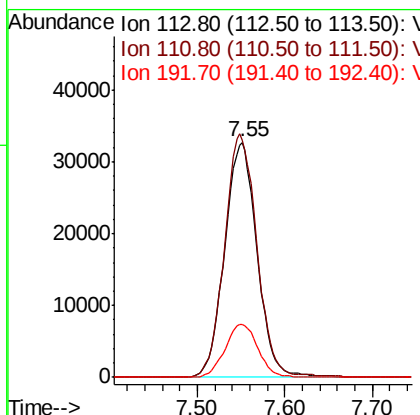
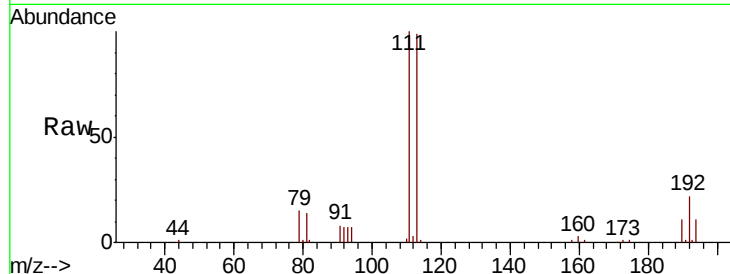




#35
 Dibromofluoromethane
 Concen: 51.271 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN063020.D
 Acq: 19 Aug 2020 18:22

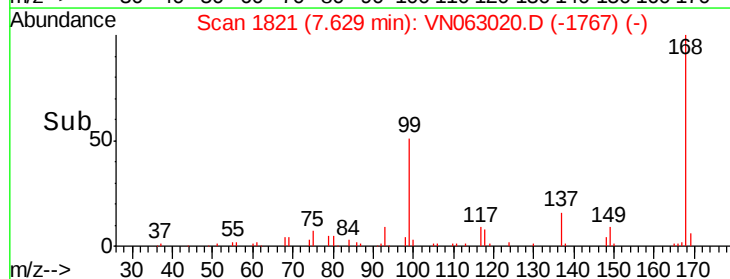
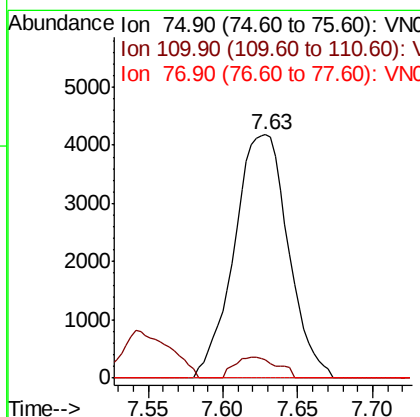
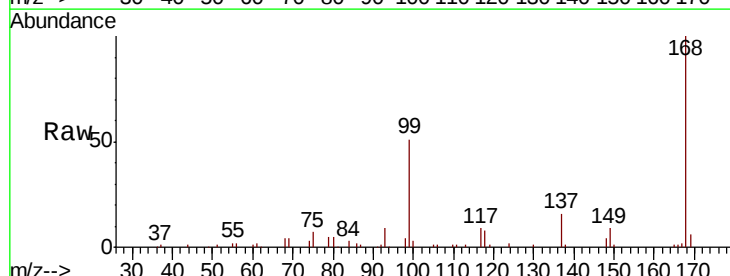
Instrument :
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 HD-01-081820

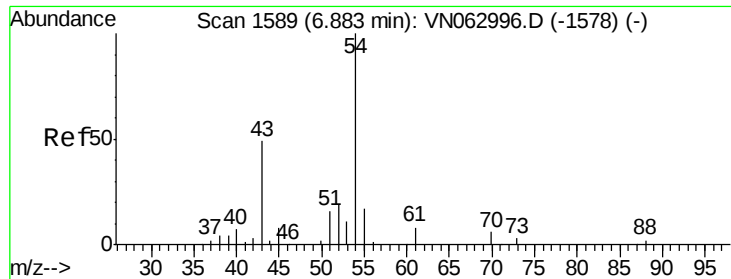
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.7	122.5
192	22.6	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.737 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN063020.D
 Acq: 19 Aug 2020 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.8	17.5	52.6#
77	0.0	24.2	36.4#

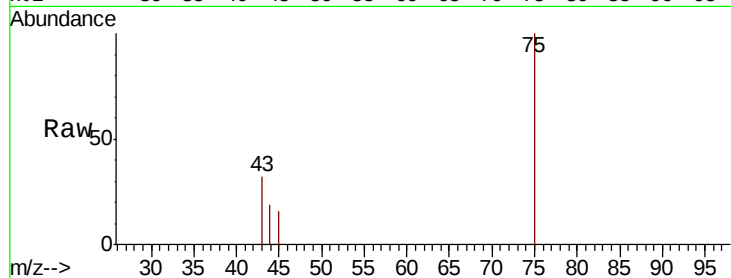




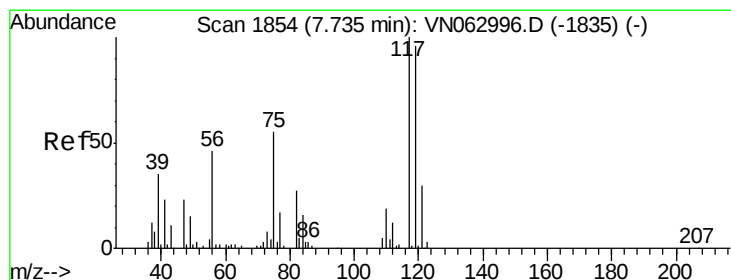
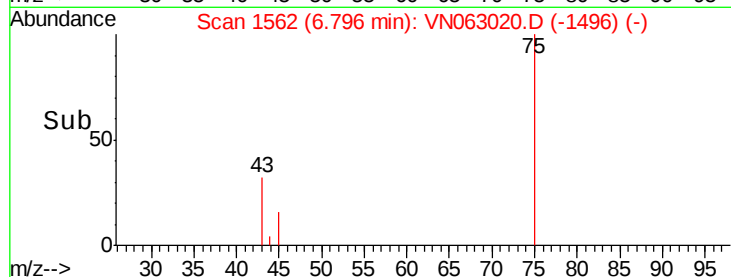
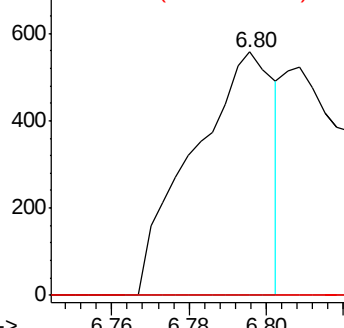
#37
Ethyl Acetate
Concen: 0.392 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.09 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Instrument :
MSVOA_N
ClientSampleId :
HD-01-081820

Tot Ion: 43 Resp: 814
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.2 12.2#

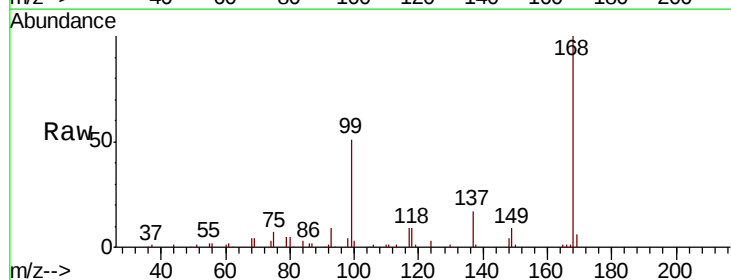


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

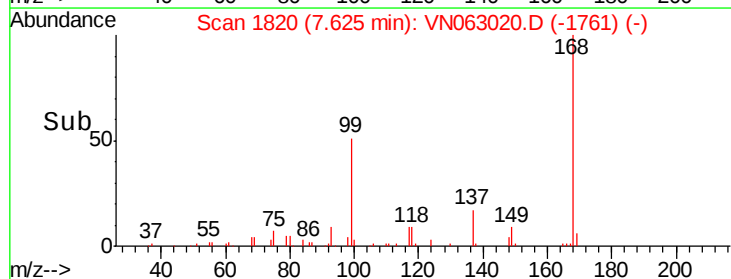
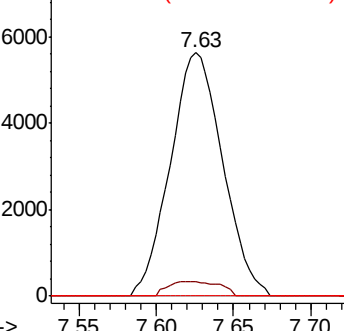


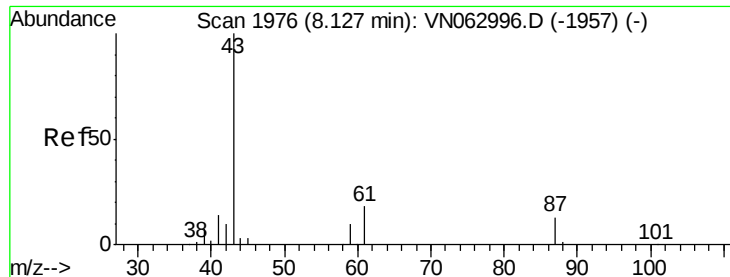
#38
Carbon Tetrachloride
Concen: 5.921 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Tgt Ion: 117 Resp: 13245
Ion Ratio Lower Upper
117 100
119 6.1 76.2 114.4#
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: 11.413 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

HD-01-081820

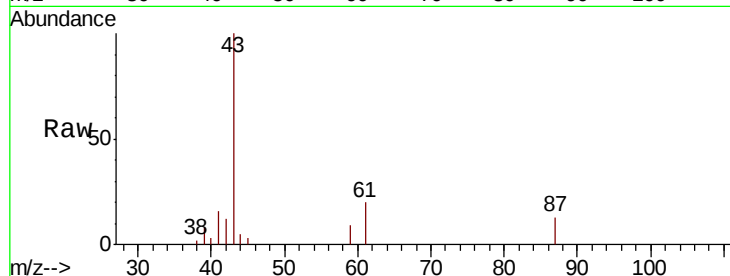
Tot Ion: 43 Resp: 39254

Ion Ratio Lower Upper

43 100

61 19.9 22.6 33.8#

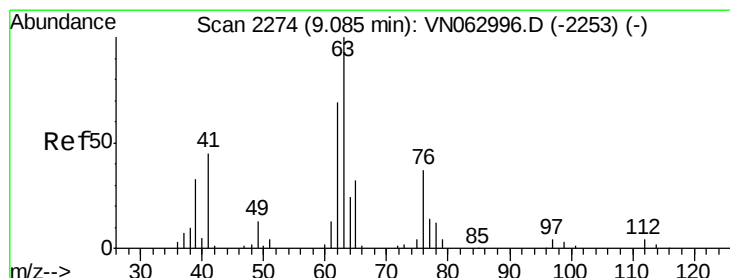
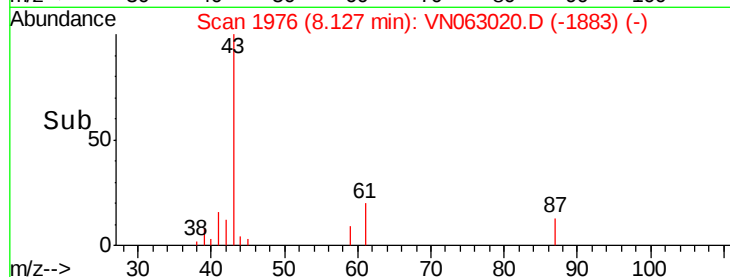
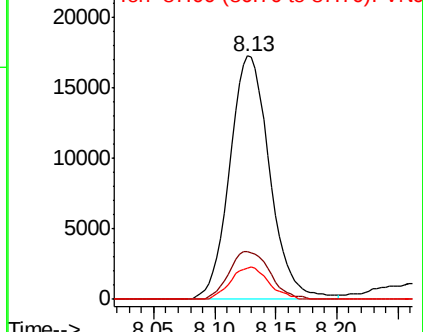
87 12.4 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VN063020.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN063020.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN063020.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.425 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN063020.D

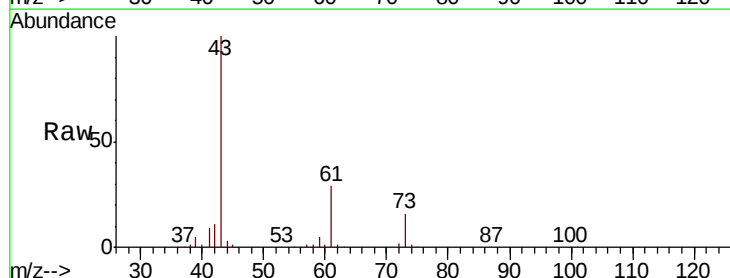
Acq: 19 Aug 2020 18:22

Tgt Ion: 63 Resp: 863

Ion Ratio Lower Upper

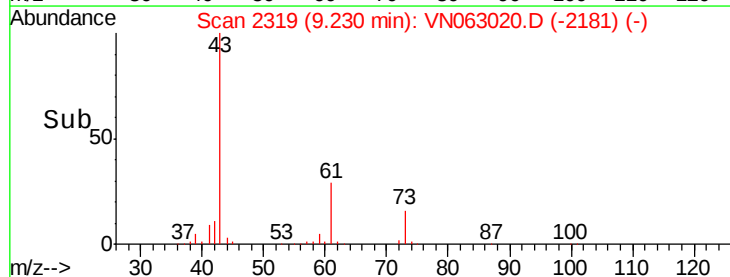
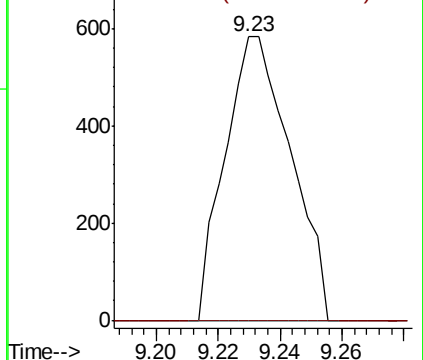
63 100

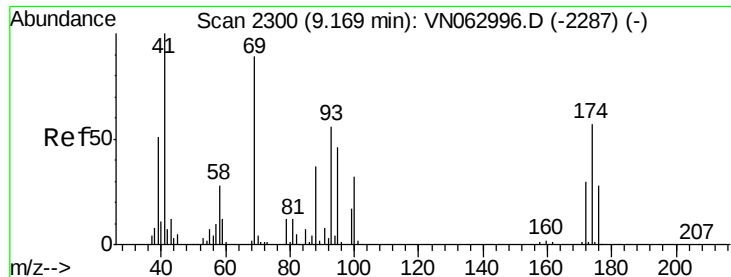
65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VN063020.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN063020.D (-2181) (-)

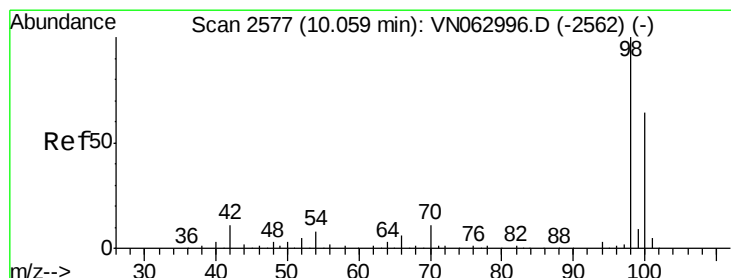
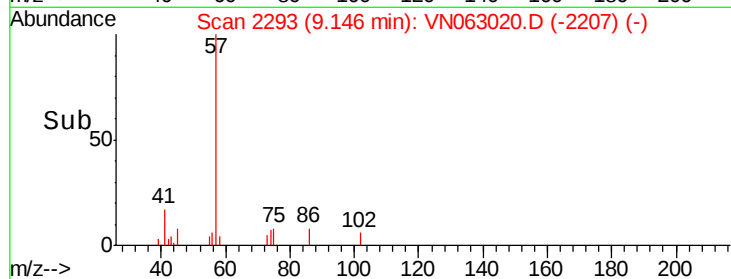
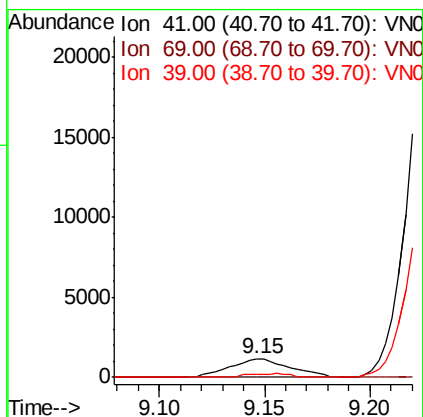
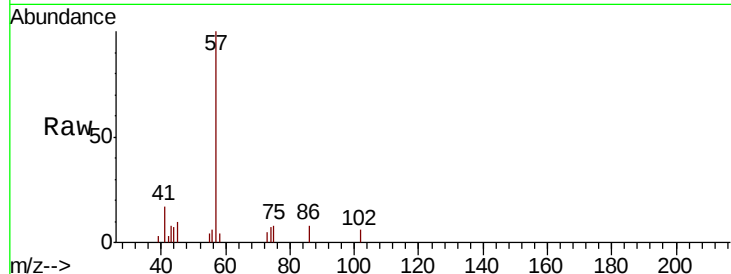




#48
Methvl methacrylate
Concen: 1.406 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

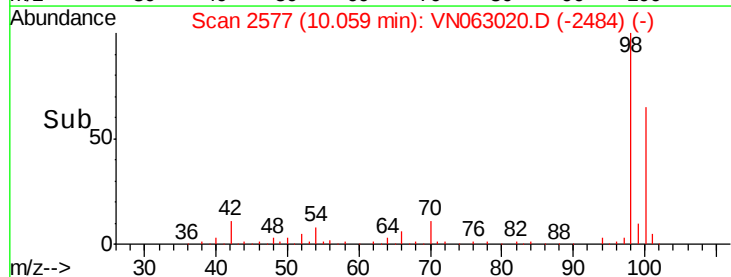
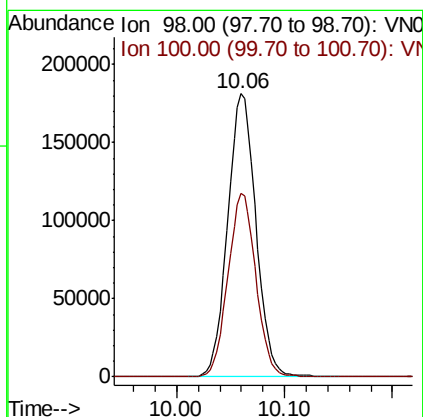
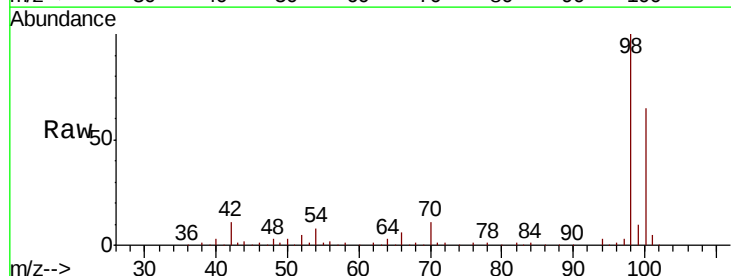
Instrument :
MSVOA_N
ClientSampleId :
HD-01-081820

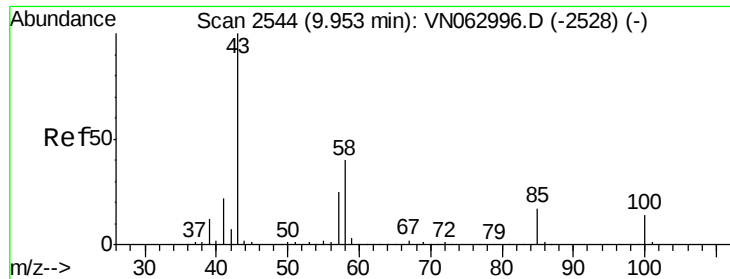
Tot Ion: 41 Resp: 2288
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.4#
39 0.0 42.5 63.7#



#50
Toluene-d8
Concen: 52.758 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Tgt Ion: 98 Resp: 331988
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 2.003 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

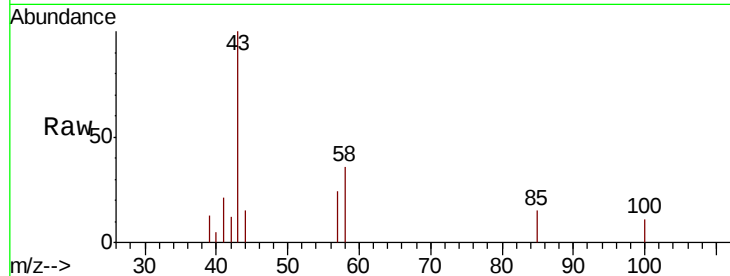
HD-01-081820

Tot Ion: 43 Resp: 4355

Ion Ratio Lower Upper

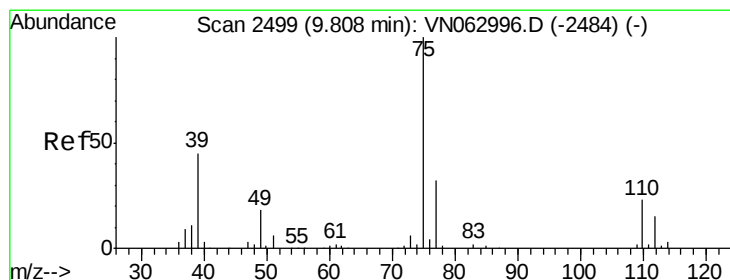
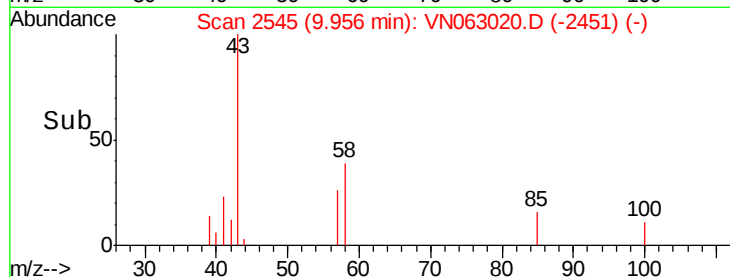
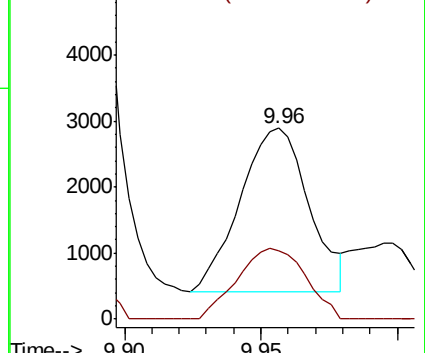
43 100

58 42.7 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-2528) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.007 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

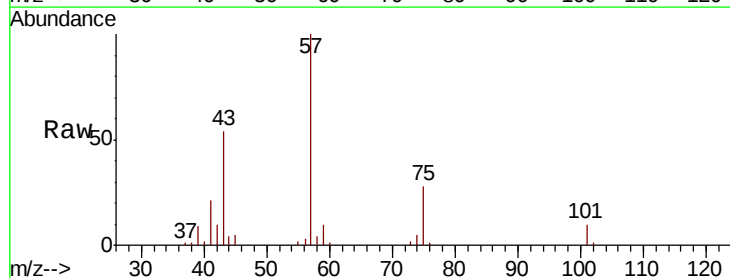
Tgt Ion: 75 Resp: 17513

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

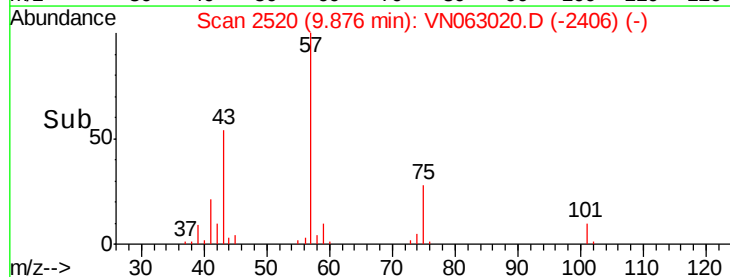
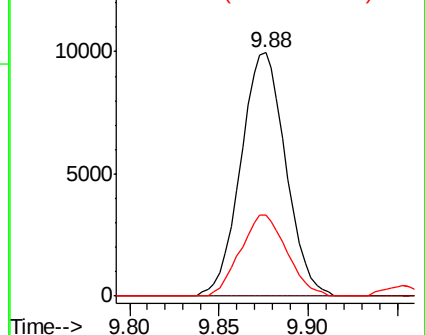
39 33.2 35.7 53.5#

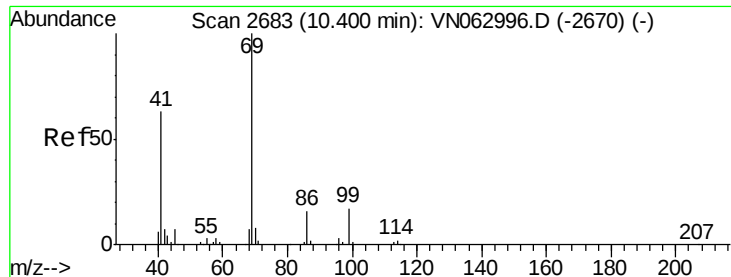


Abundance Ion 74.90 (74.60 to 75.60): VN062996.D (-2484) (-)

Ion 76.90 (76.60 to 77.60): VN062996.D (-2484) (-)

Ion 39.00 (38.70 to 39.70): VN062996.D (-2484) (-)





#56

Ethyl methacrylate

Concen: 2.191 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampled :

HD-01-081820

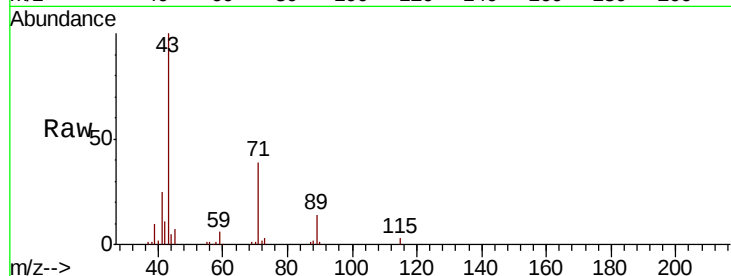
Tot Ion: 69 Resp: 1306

Ion Ratio Lower Upper

69 100

41 2673.4 50.2 75.2#

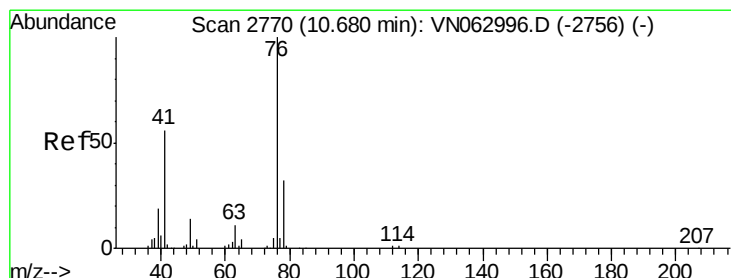
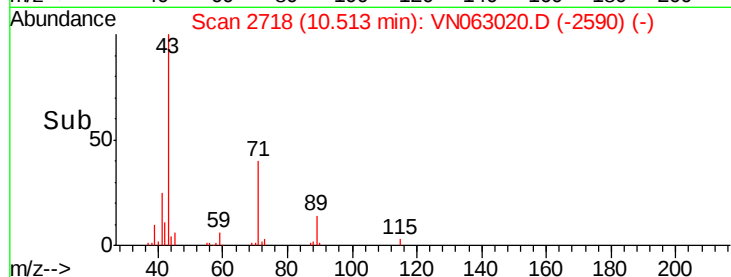
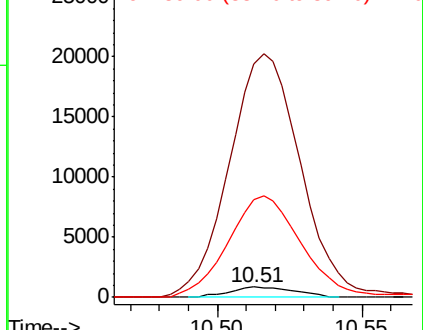
39 1145.2 24.2 36.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.033 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN063020.D

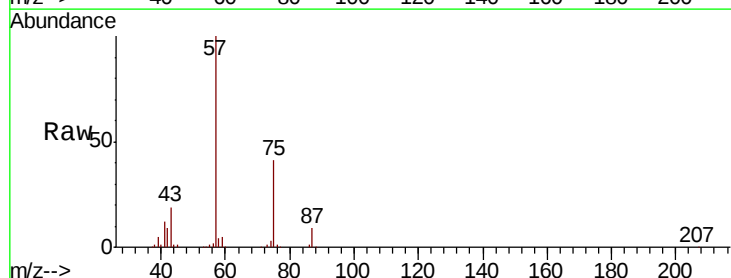
Acq: 19 Aug 2020 18:22

Tgt Ion: 76 Resp: 3110

Ion Ratio Lower Upper

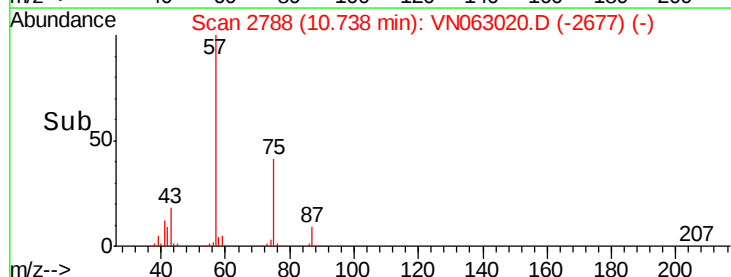
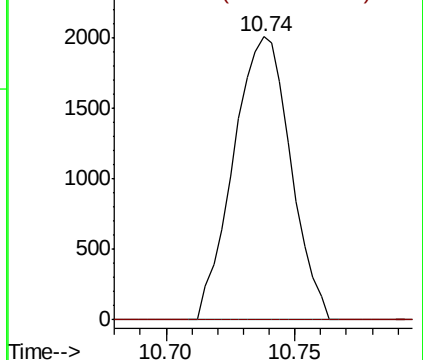
76 100

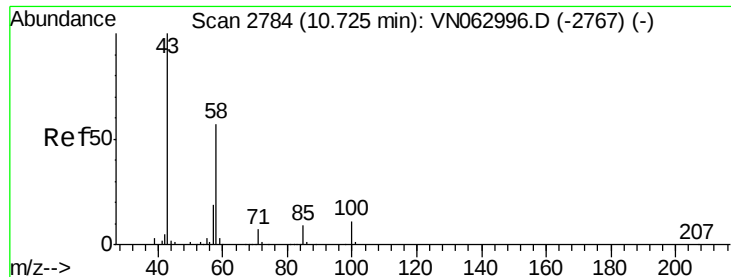
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

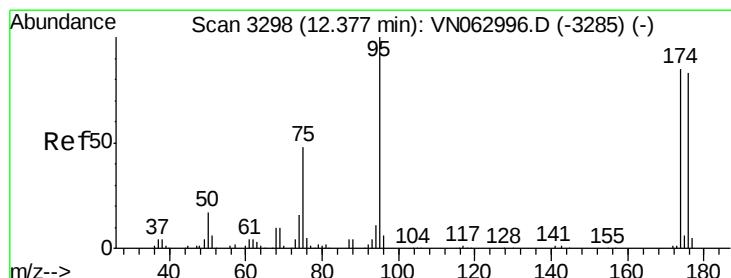
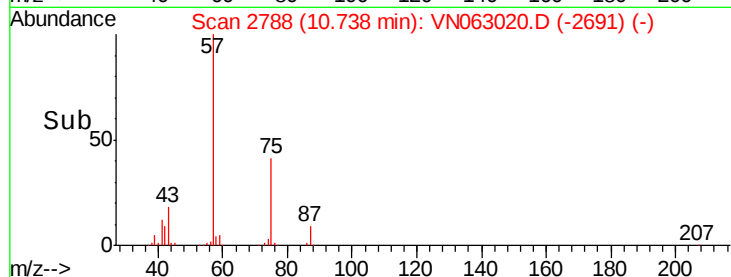
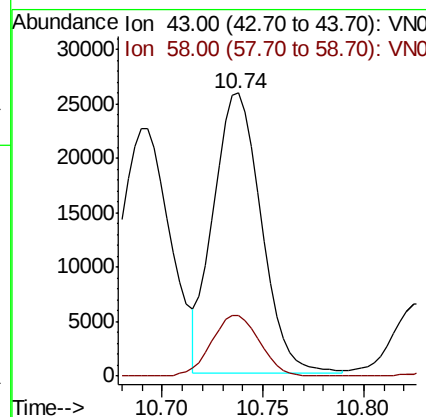
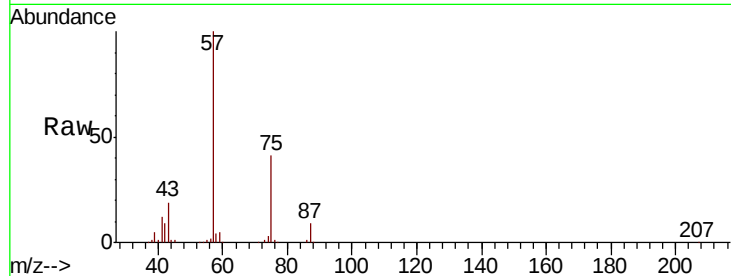




#59
2-Hexanone
Concen: 28.094 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

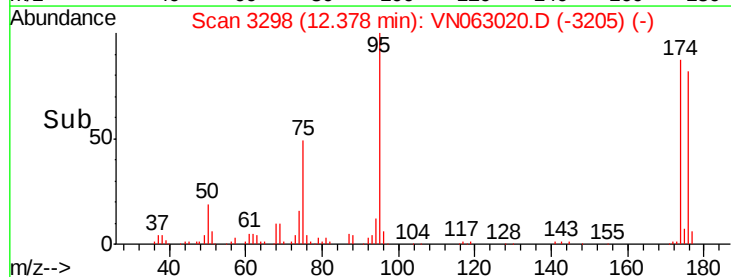
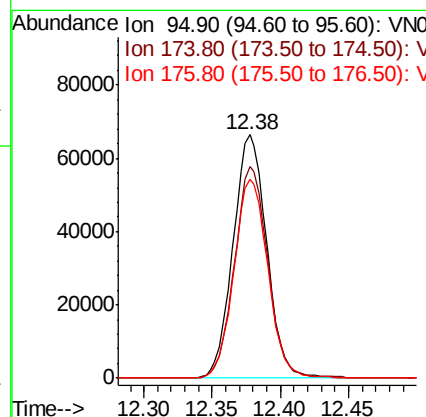
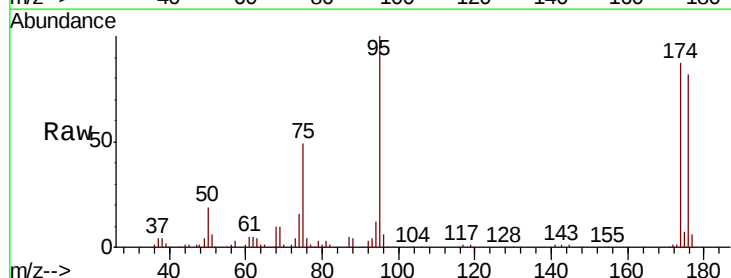
Instrument :
MSVOA_N
ClientSampleId :
HD-01-081820

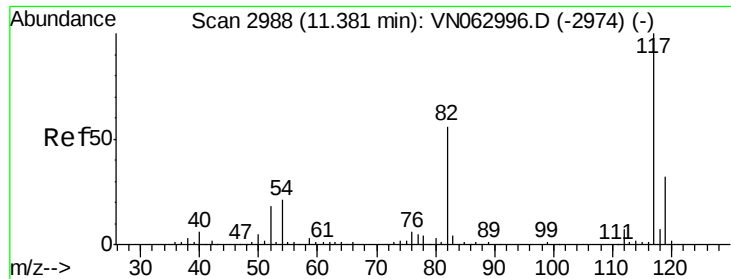
Tot Ion: 43 Resp: 42603
Ion Ratio Lower Upper
43 100
58 21.7 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 51.097 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Tgt Ion: 95 Resp: 113464
Ion Ratio Lower Upper
95 100
174 86.5 0.0 170.8
176 82.6 0.0 164.8

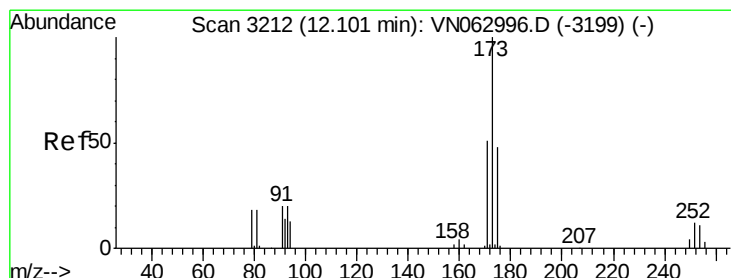
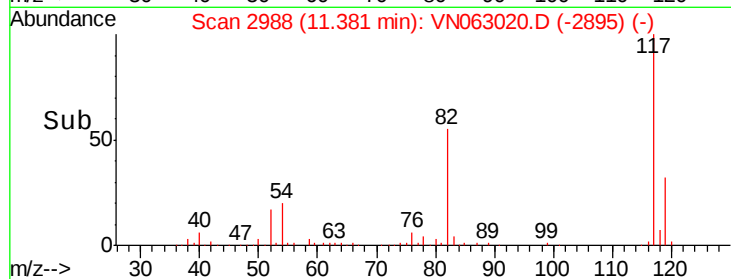
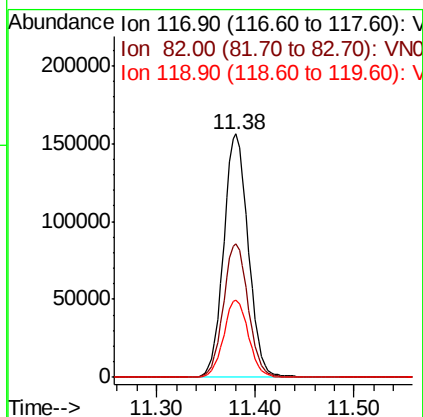
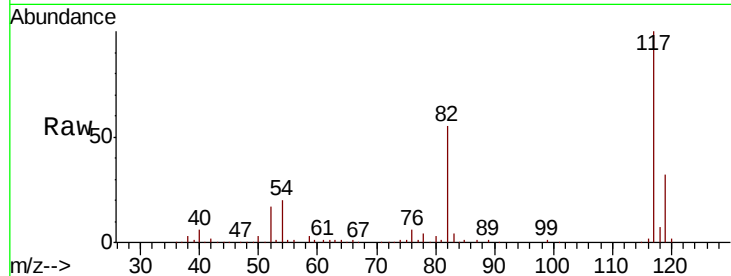




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

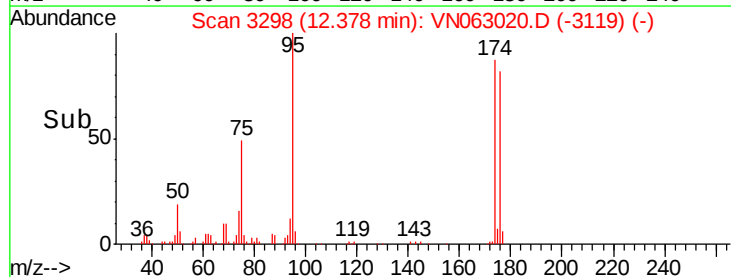
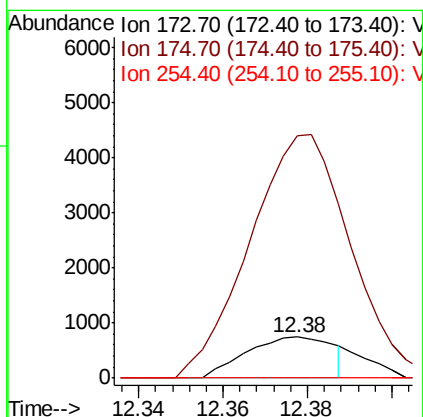
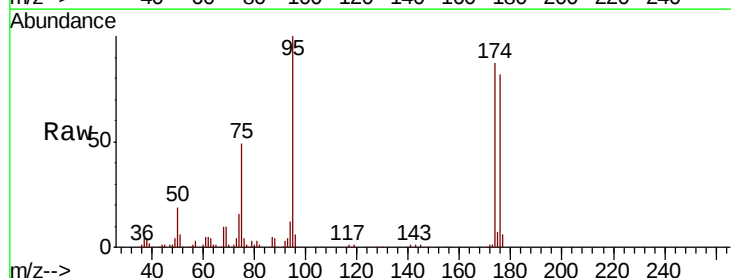
Instrument :
MSVOA_N
ClientSampleId :
HD-01-081820

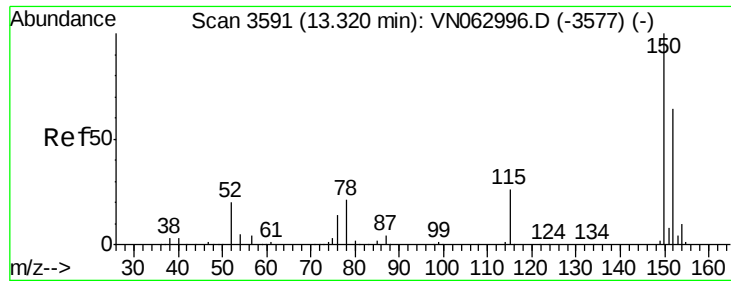
Tot Ion:117 Resp: 272051
Ion Ratio Lower Upper
117 100
82 55.0 44.5 66.7
119 31.9 25.5 38.3



#71
Bromoform
Concen: 0.628 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Tgt Ion:173 Resp: 1063
Ion Ratio Lower Upper
173 100
175 574.3 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

HD-01-081820

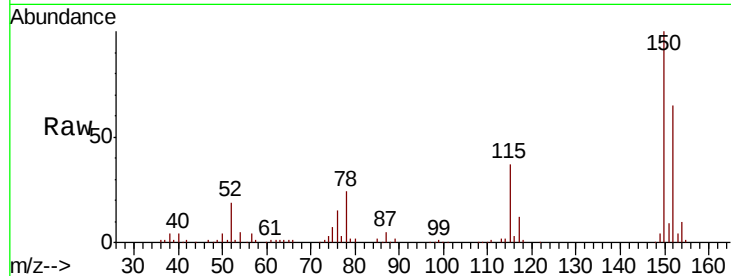
Tot Ion:152 Resp: 102269

Ion Ratio Lower Upper

152 100

115 56.1 28.7 86.3

150 154.7 0.0 348.8

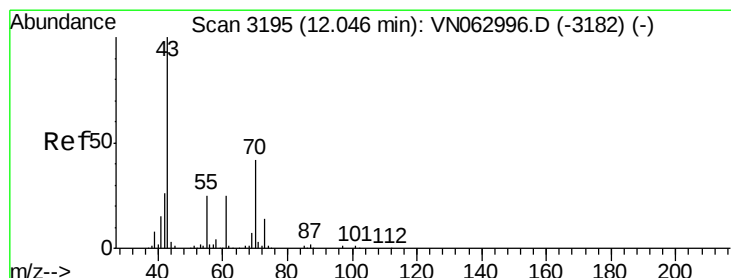
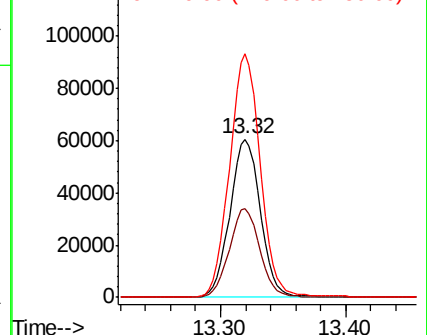
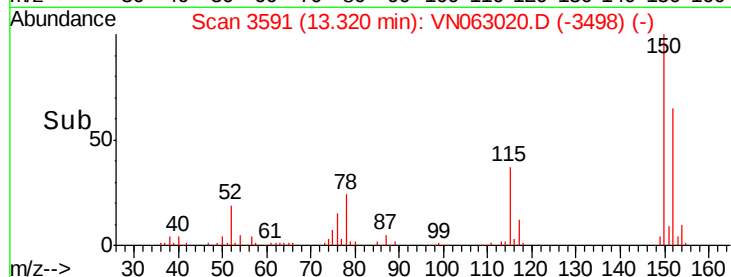


Abundance

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: 0.310 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Tgt Ion: 43 Resp: 777

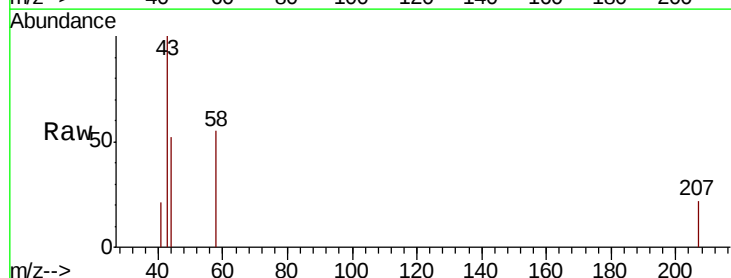
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 20.2 30.2#

61 0.0 19.9 29.9#



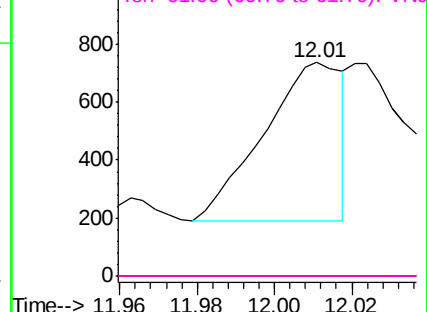
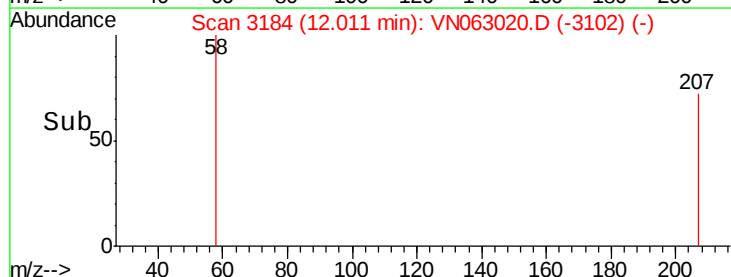
Abundance

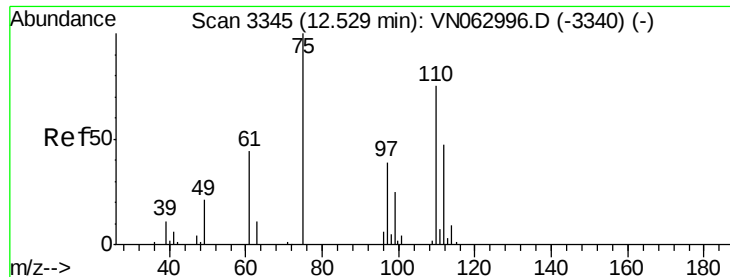
Ion 43.00 (42.70 to 43.70): V

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: 27.440 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

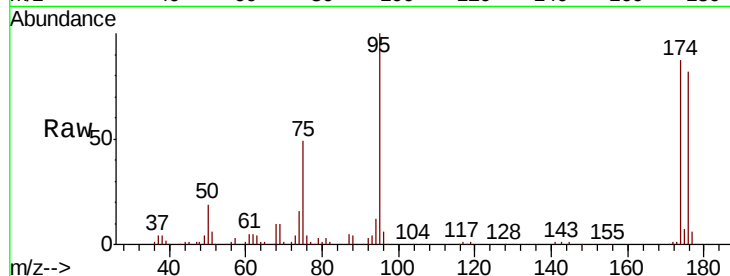
HD-01-081820

Tot Ion: 75 Resp: 54548

Ion Ratio Lower Upper

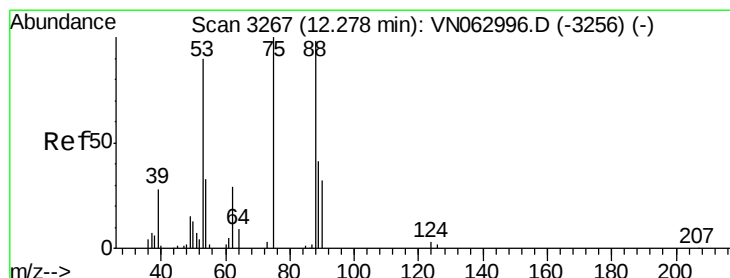
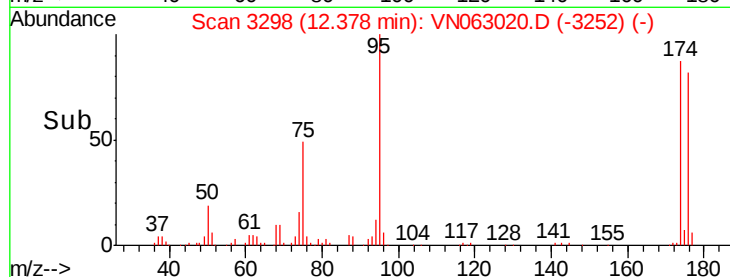
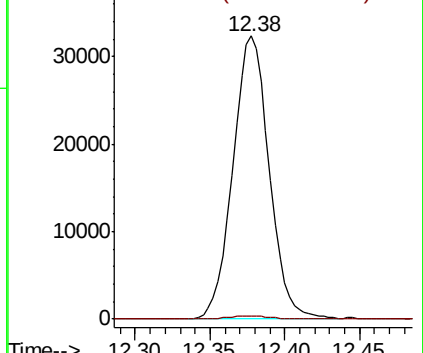
75 100

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: 75.363 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

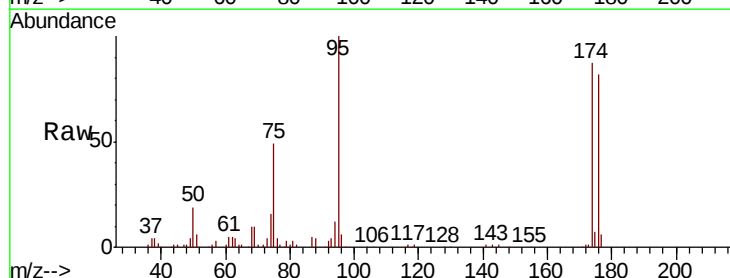
Tgt Ion: 75 Resp: 54548

Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

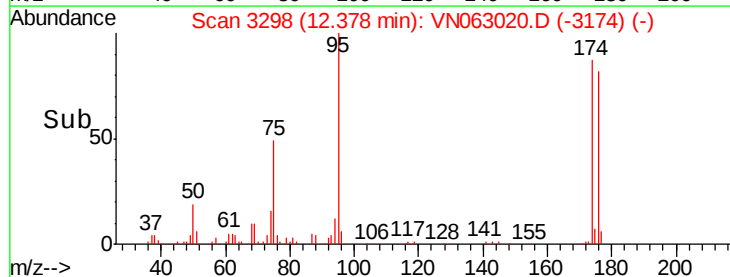
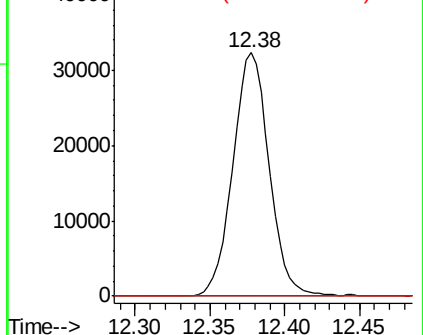
89 0.0 34.2 51.4#

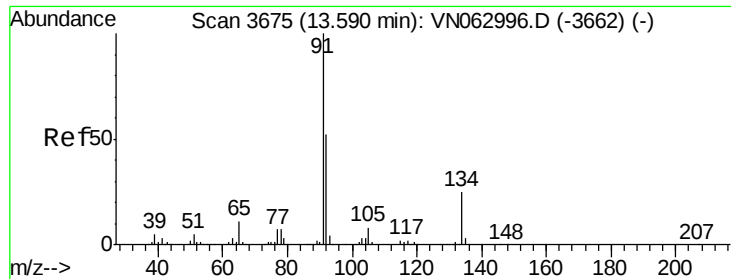


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#89

n-Butylbenzene

Concen: 2.794 ug/l

RT: 13.59 min Scan# 3674

Delta R.T. -0.00 min

Lab File: VN063020.D

Acq: 19 Aug 2020 18:22

Instrument :

MSVOA_N

ClientSampleId :

HD-01-081820

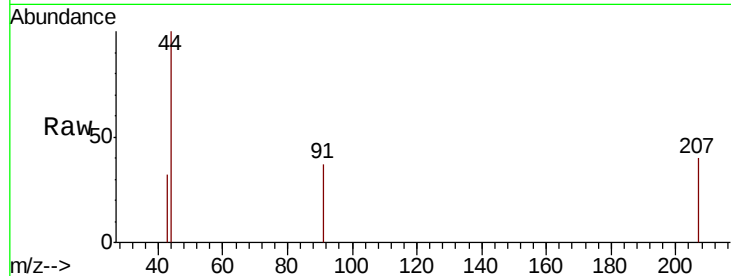
Tot Ion: 91 Resp: 136

Ion Ratio Lower Upper

91 100

92 0.0 25.9 77.6#

134 0.0 12.4 37.0#

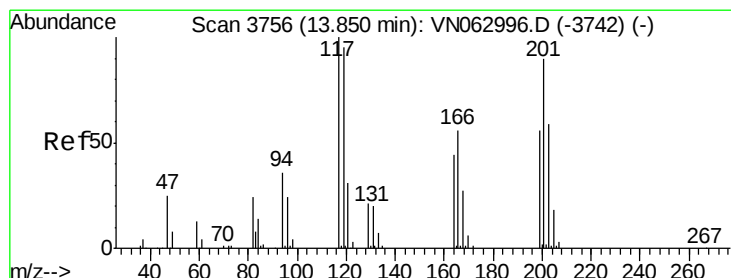
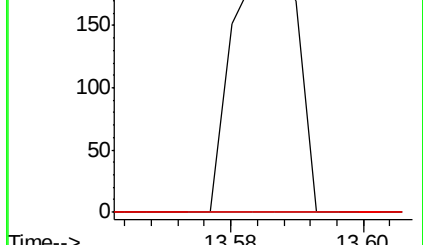
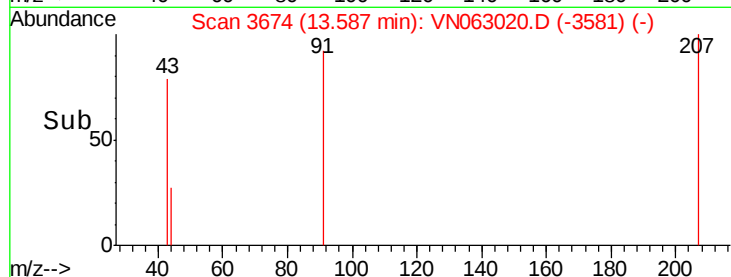


Abundance Ion 91.00 (90.70 to 91.70): VN062996.D (-3662) (-)

Ion 92.00 (91.70 to 92.70): VN062996.D (-3662) (-)

Ion 134.00 (133.70 to 134.70): VN062996.D (-3662) (-)

Time-->



#90

Hexachloroethane

Concen: 0.495 ug/l

RT: 13.97 min Scan# 3794

Delta R.T. 0.12 min

Lab File: VN063020.D

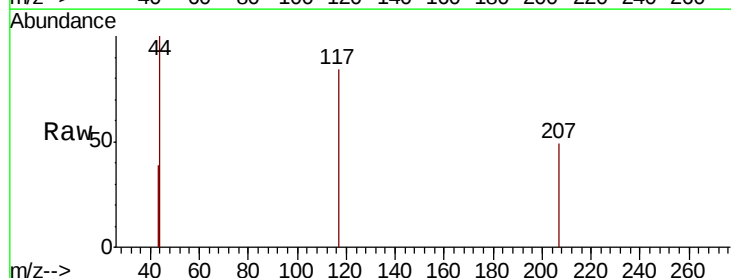
Acq: 19 Aug 2020 18:22

Tgt Ion: 117 Resp: 619

Ion Ratio Lower Upper

117 100

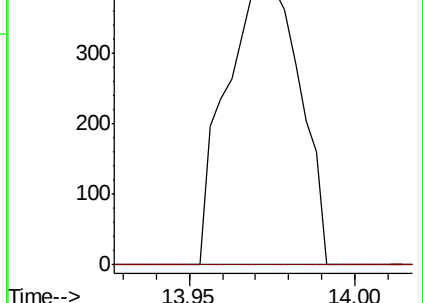
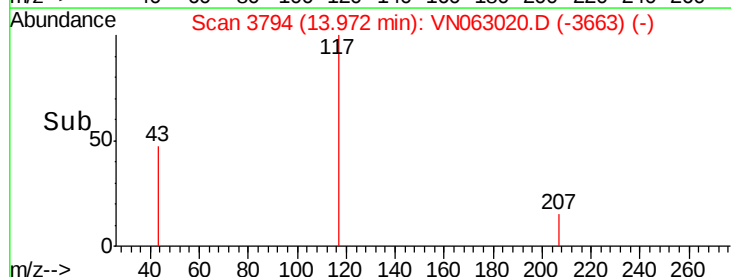
201 0.0 44.1 132.4#

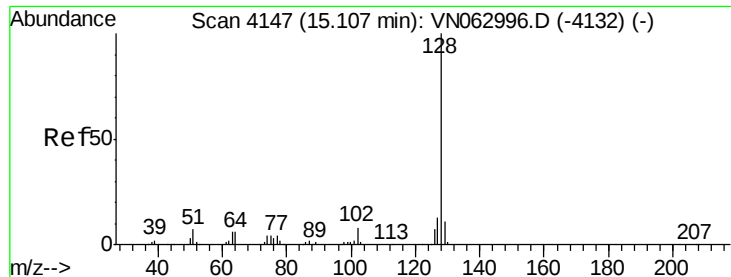


Abundance Ion 116.80 (116.50 to 117.50): VN062996.D (-3742) (-)

Ion 200.70 (200.40 to 201.40): VN062996.D (-3742) (-)

Time-->





#95
Naphthalene
Concen: 15.129 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN063020.D
Acq: 19 Aug 2020 18:22

Instrument :
MSVOA_N
ClientSampleId :
HD-01-081820

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	16.0
129	10.2	8.9	13.3

