

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031219\
 Data File : VN054174.D
 Acq On : 12 Mar 2019 20:01
 Operator : JC/SP
 Sample : K1837-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-11-COMP

Quant Time: Mar 13 07:28:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1444732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2396685	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2468827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1101828	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	789492	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
35) Dibromofluoromethane	7.59	113	738802	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
50) Toluene-d8	10.09	98	2953412	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.40	95	1140660	57.10	ug/l	0.00
Spiked Amount			Recovery	=	114.20%	

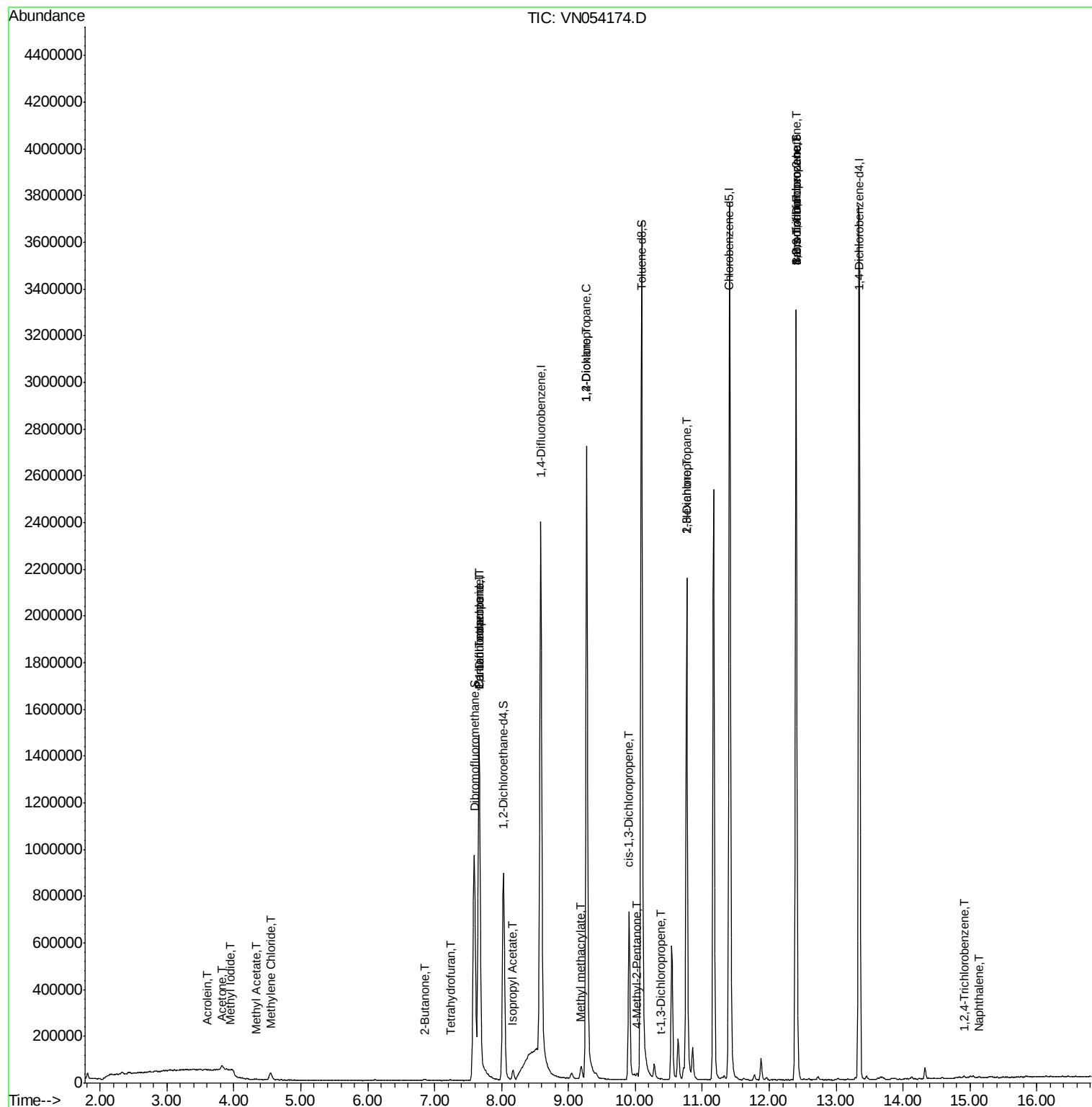
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	536	1.521	ug/l #	52
13) Acrolein	3.61	56	507	0.509	ug/l #	14
16) Acetone	3.82	43	30839	7.020	ug/l	92
18) Methyl Acetate	4.33	43	2805	0.316	ug/l #	56
20) Methylene Chloride	4.54	84	21042	1.459	ug/l	92
25) 2-Butanone	6.85	43	2164	0.420	ug/l	96
29) Tetrahydrofuran	7.24	42	3100	0.935	ug/l #	66
31) Cyclohexane	7.66	56	22037	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	84076	3.809	ug/l #	48
38) Carbon Tetrachloride	7.67	117	121562	5.252	ug/l #	16
43) Isopropyl Acetate	8.17	43	48946	2.199	ug/l	97
45) 1,2-Dichloropropane	9.27	63	3813	0.243	ug/l #	43
48) Methyl methacrylate	9.18	41	17203	1.523	ug/l #	11
49) 1,4-Dioxane	9.27	88	190	1.189	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	19133	1.624	ug/l #	36
53) t-1,3-Dichloropropene	10.39	75	513	2.006	ug/l #	1
54) cis-1,3-Dichloropropene	9.91	75	151897	6.136	ug/l #	60
57) 1,3-Dichloropropane	10.77	76	24995	1.045	ug/l #	45
59) 2-Hexanone	10.76	43	325243	41.493	ug/l #	51
71) Bromoform	12.40	173	6731	2.778	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	548160	33.831	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	548160	115.650	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	2892	2.635	ug/l	97
95) Naphthalene	15.13	128	4359	3.554	ug/l #	95

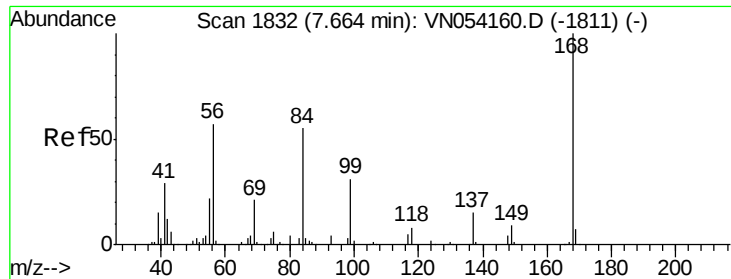
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

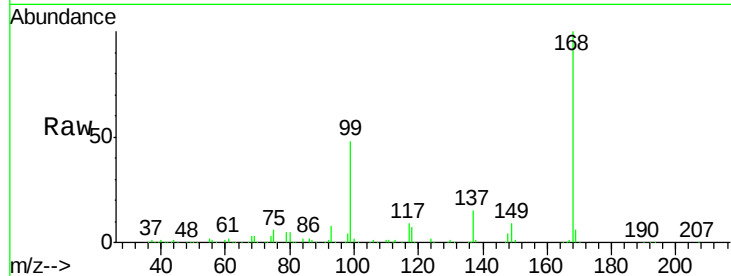
MR-MH-11-COMP

Tot Ion:168 Resp: 1444732

Ion Ratio Lower Upper

168 100

99 47.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

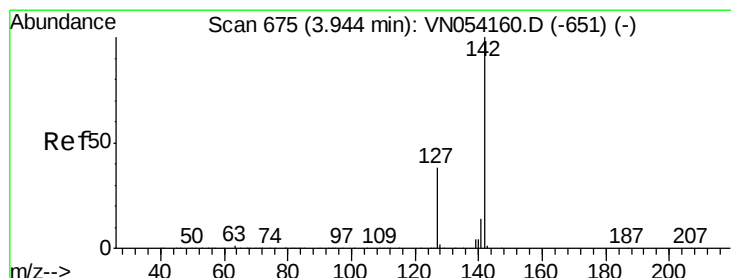
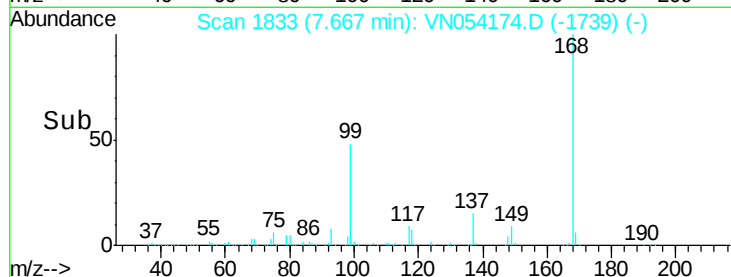
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 1.521 ug/l

RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

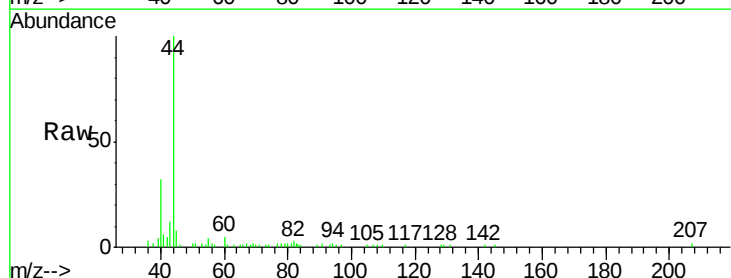
Tgt Ion:142 Resp: 536

Ion Ratio Lower Upper

142 100

127 6.2 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

400

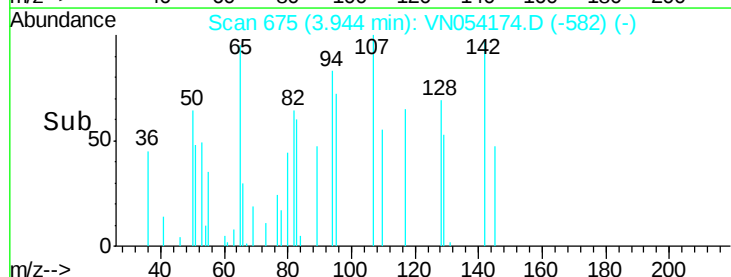
300

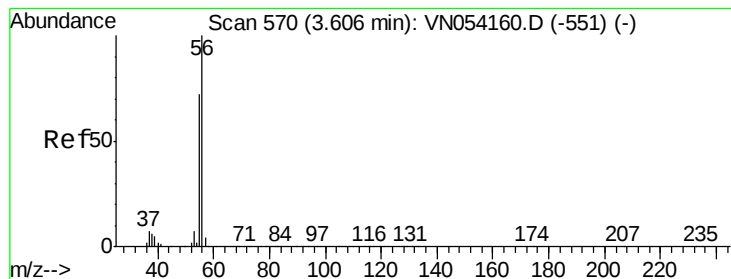
200

100

0

Time-->





#13

Acrolein

Concen: 0.509 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

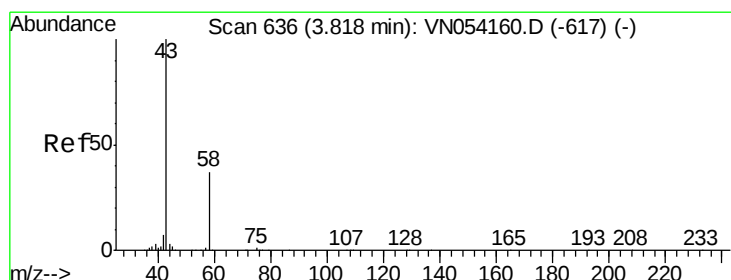
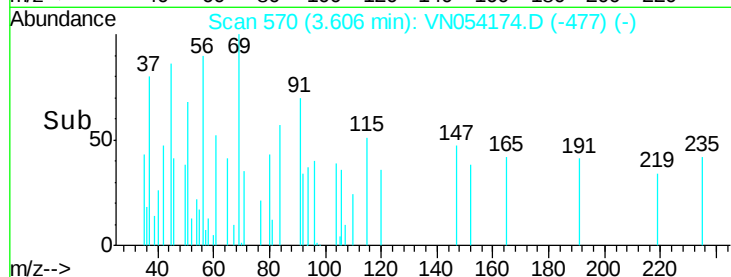
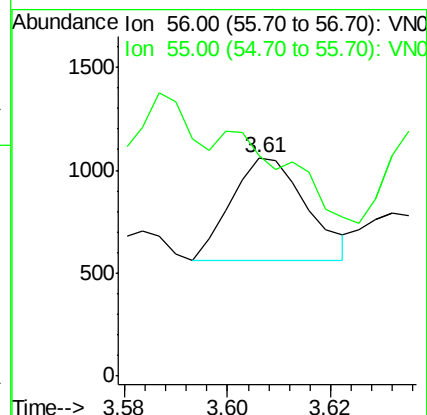
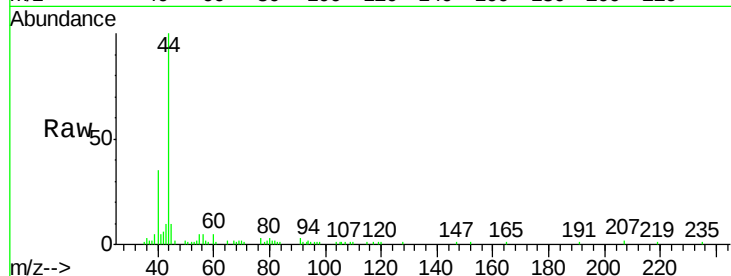
MR-MH-11-COMP

Tot Ion: 56 Resp: 507

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 7.020 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054174.D

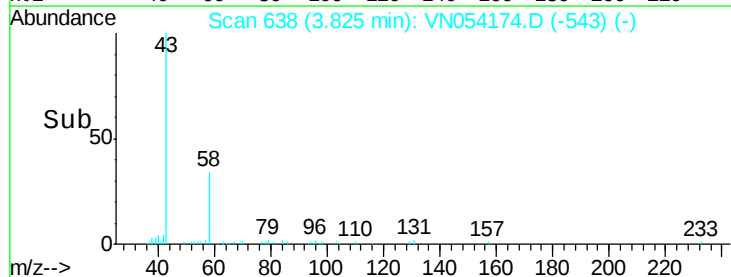
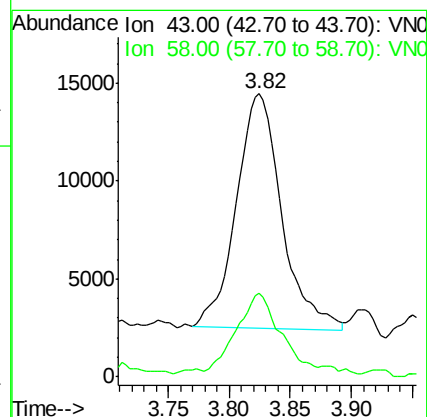
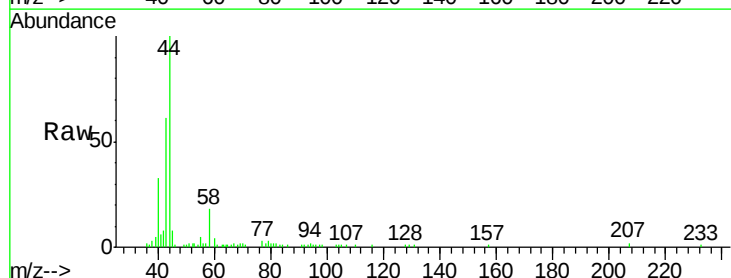
Acq: 12 Mar 2019 20:01

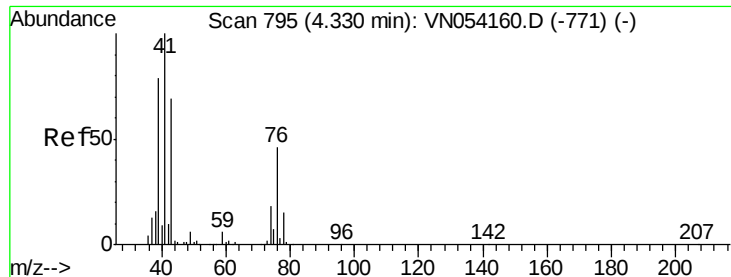
Tgt Ion: 43 Resp: 30839

Ion Ratio Lower Upper

43 100

58 32.7 29.9 44.9

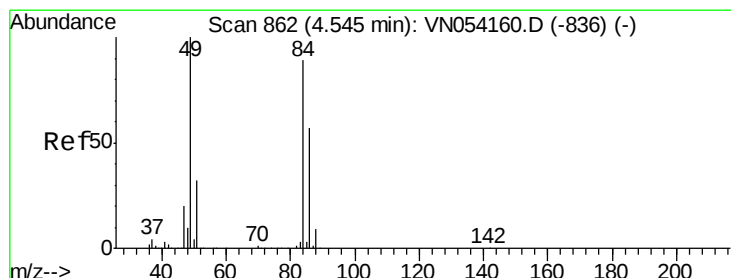
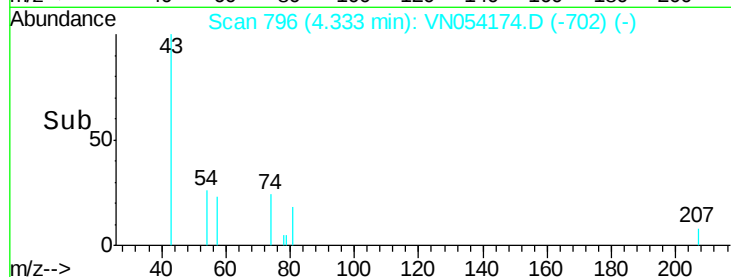
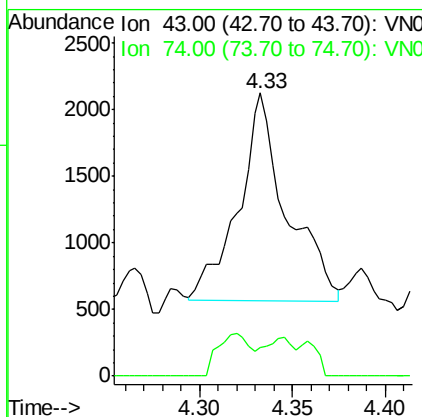
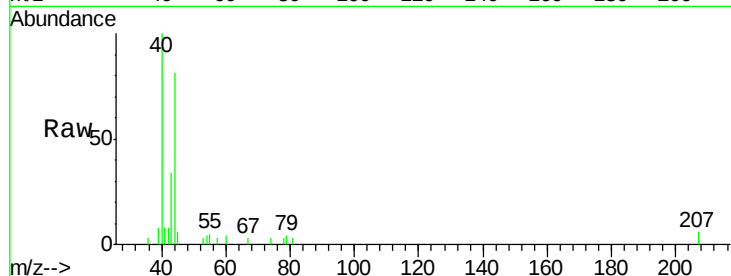




#18
Methvl Acetate
Concen: 0.316 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

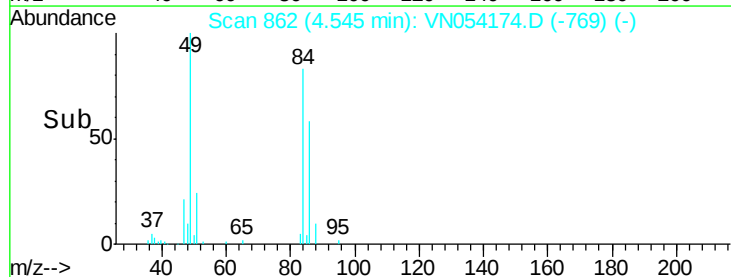
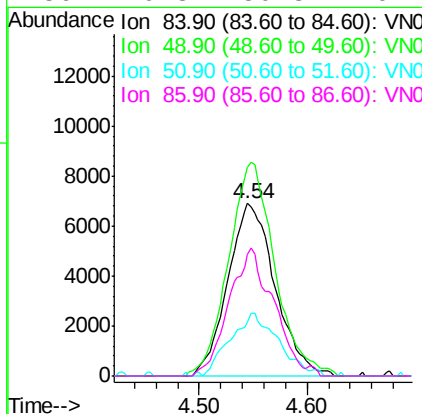
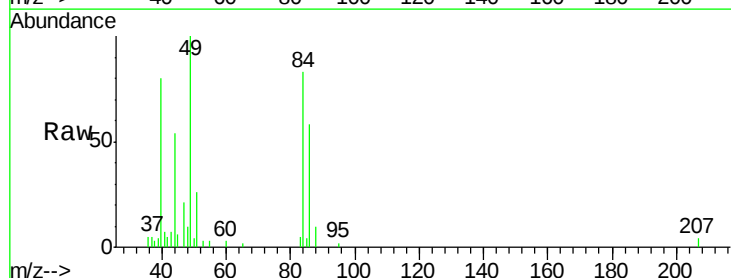
Instrument :
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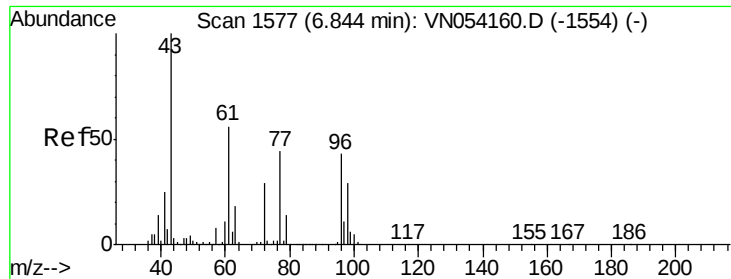
Tot Ion: 43 Resp: 2805
Ion Ratio Lower Upper
43 100
74 3.6 20.8 31.2#



#20
Methylene Chloride
Concen: 1.459 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

Tgt Ion: 84 Resp: 21042
Ion Ratio Lower Upper
84 100
49 120.8 89.7 134.5
51 31.6 28.2 42.4
86 70.3 50.8 76.2

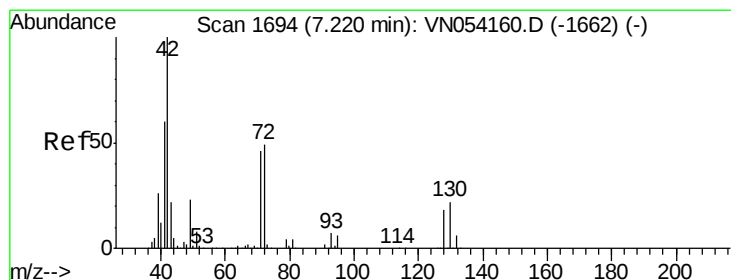
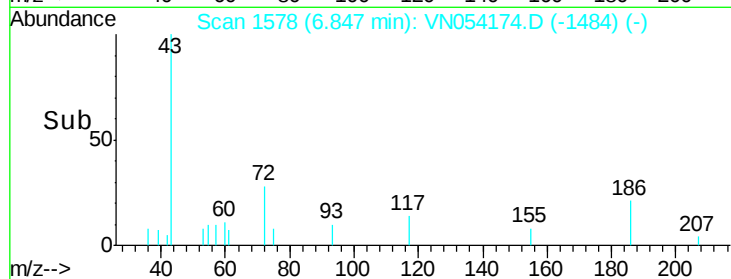
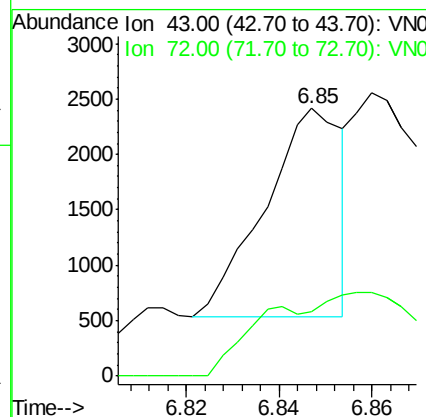
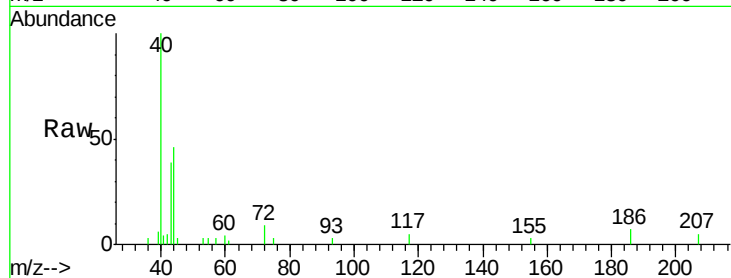




#25
2-Butanone
Concen: 0.420 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

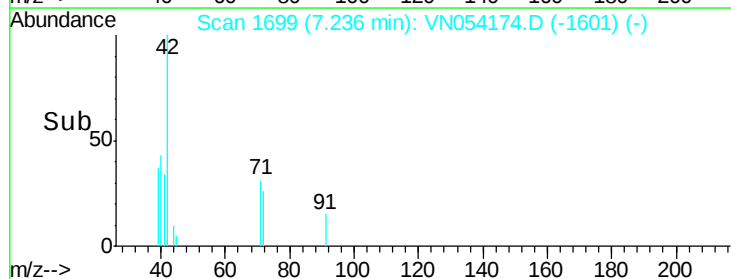
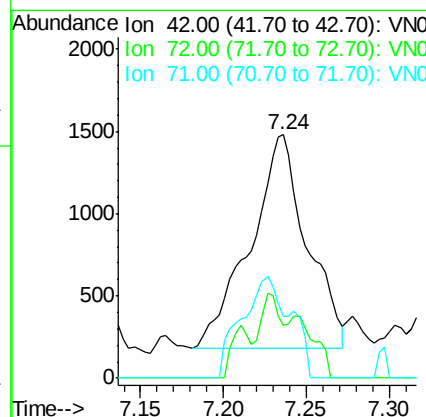
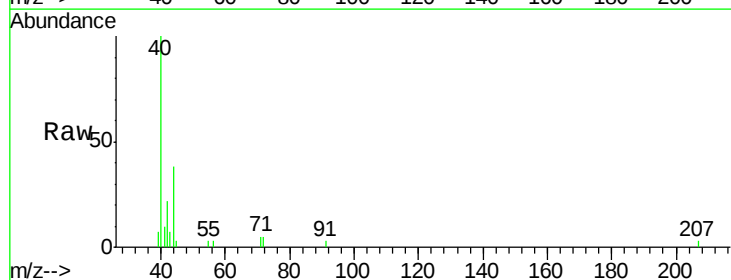
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-11-COMP

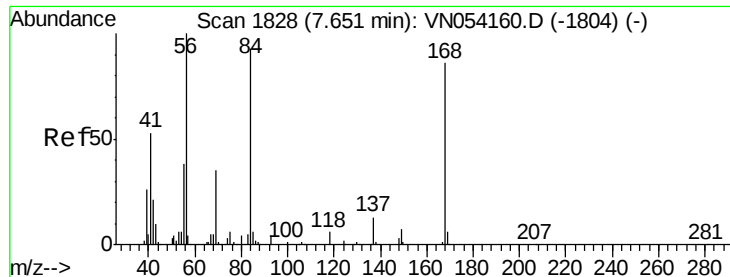
Tot Ion: 43 Resp: 2164
Ion Ratio Lower Upper
43 100
72 30.7 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.935 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

Tgt Ion: 42 Resp: 3100
Ion Ratio Lower Upper
42 100
72 7.5 37.8 56.6#
71 40.5 36.2 54.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-11-COMP

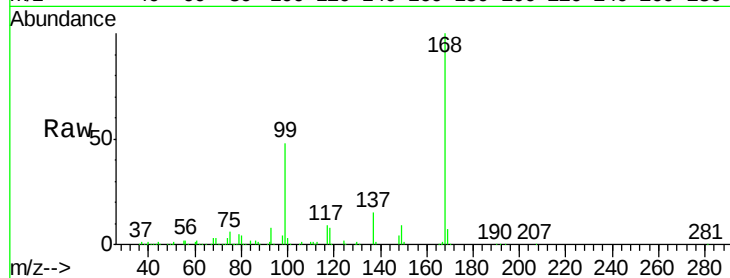
Tot Ion: 56 Resp: 22037

Ion Ratio Lower Upper

56 100

69 209.3 27.8 41.6#

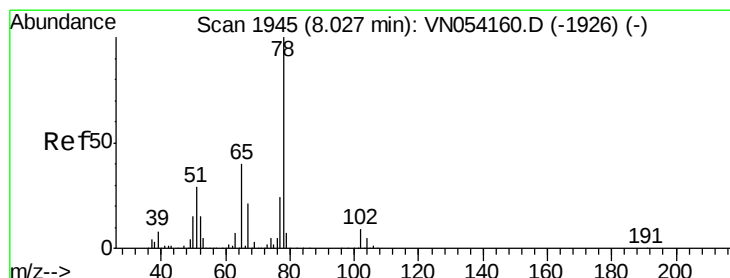
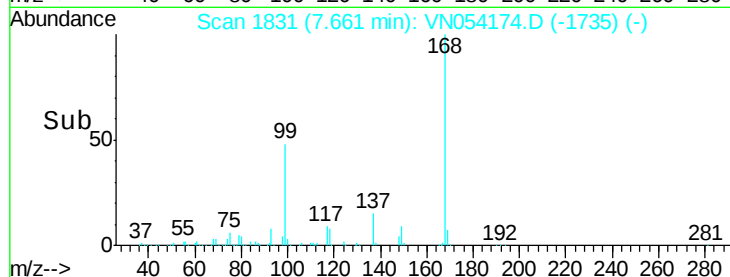
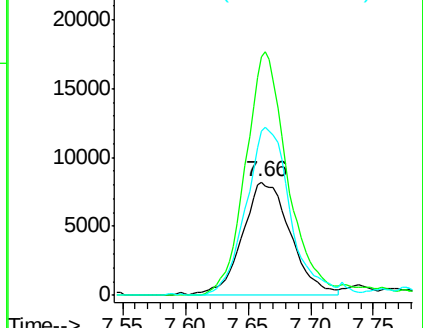
84 144.5 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.456 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054174.D

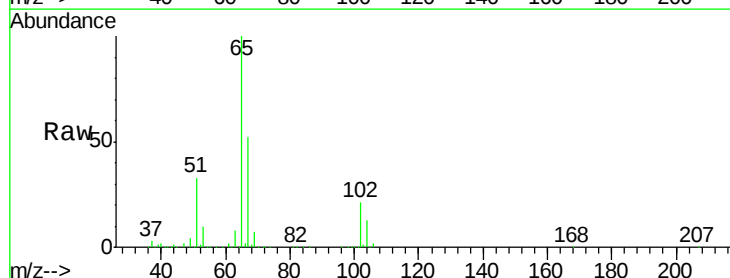
Acq: 12 Mar 2019 20:01

Tgt Ion: 65 Resp: 789492

Ion Ratio Lower Upper

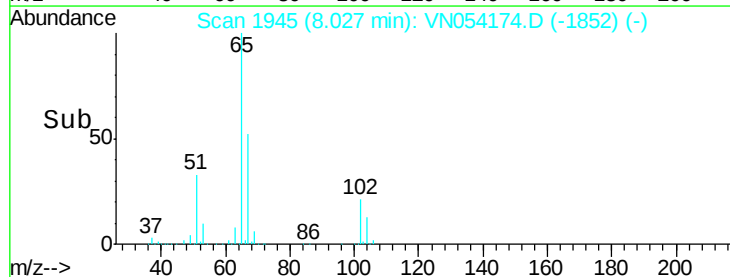
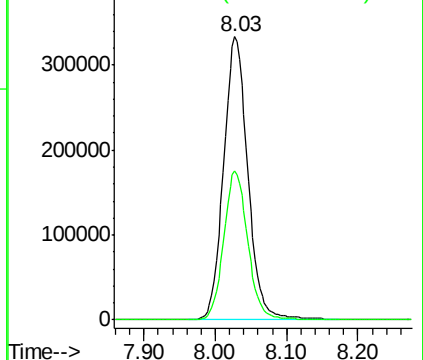
65 100

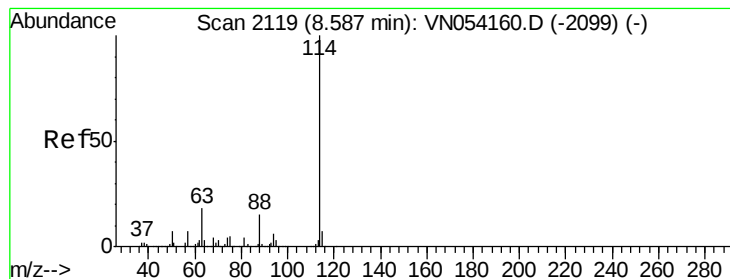
67 52.0 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

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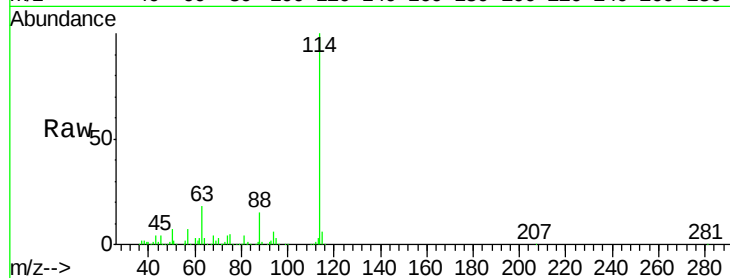
Tot Ion:114 Resp: 2396685

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.2

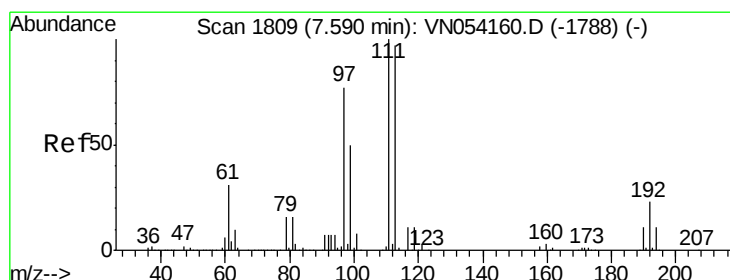
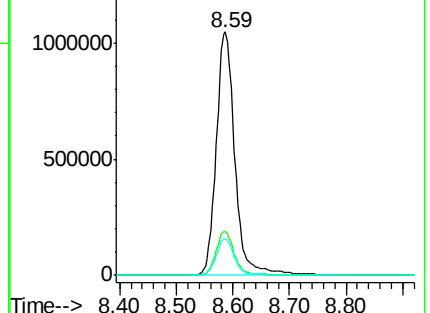
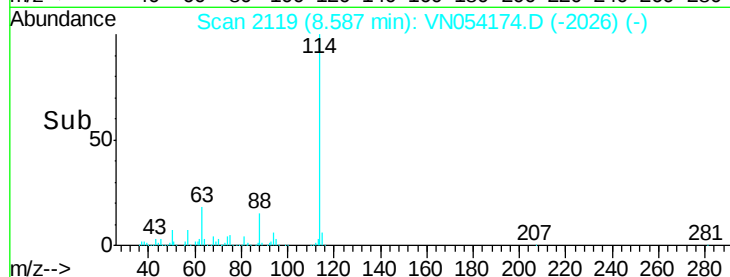
88 14.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.795 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

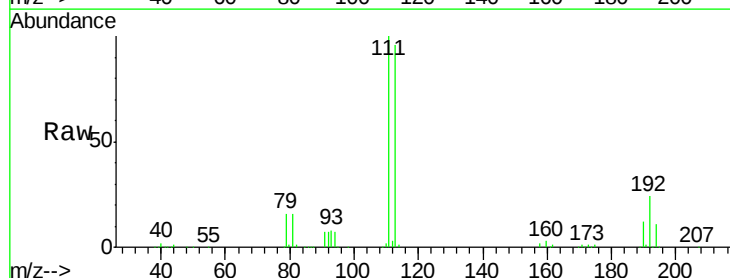
Tgt Ion:113 Resp: 738802

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

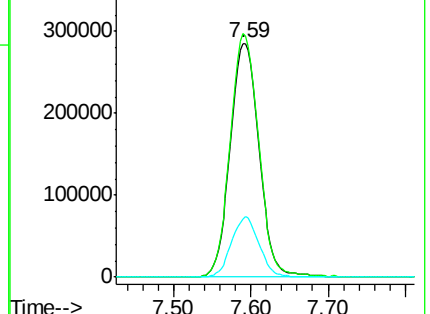
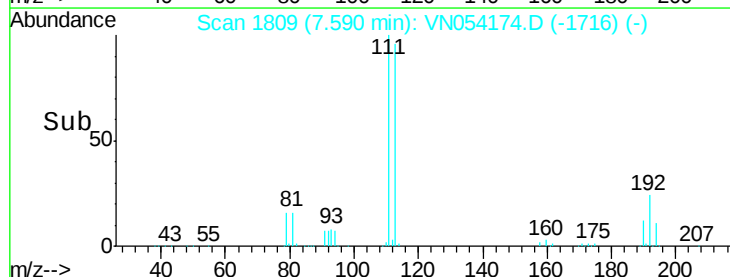
192 24.5 19.2 28.8

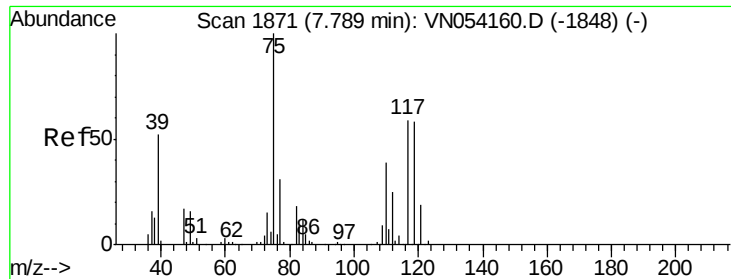


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

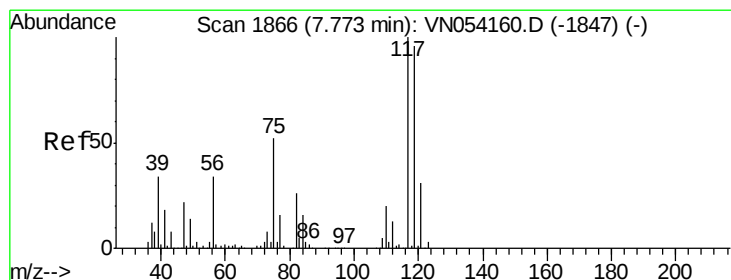
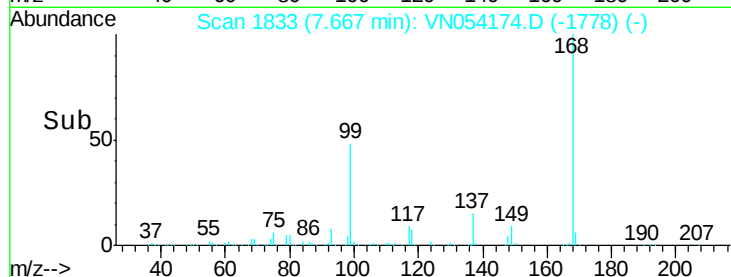
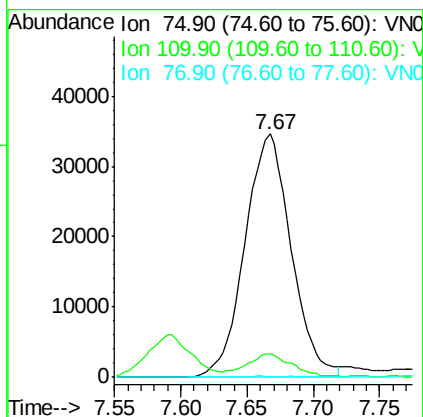
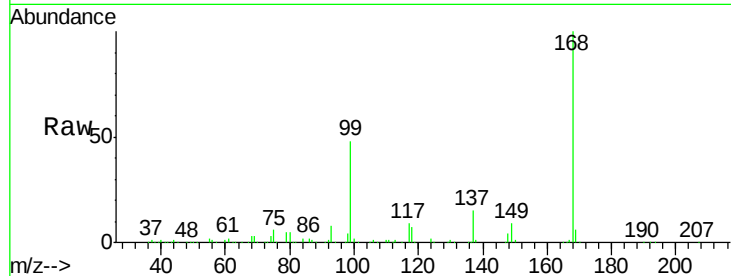




#36
 1,1-Dichloropropene
 Concen: 3.809 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054174.D
 Acq: 12 Mar 2019 20:01

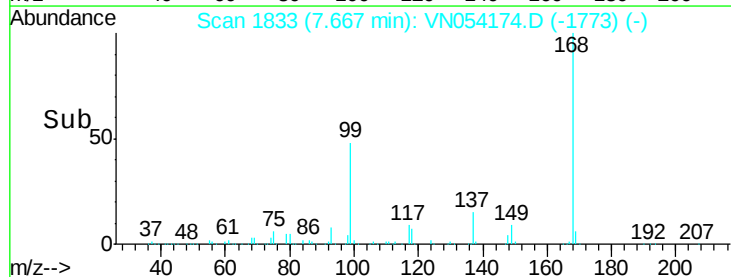
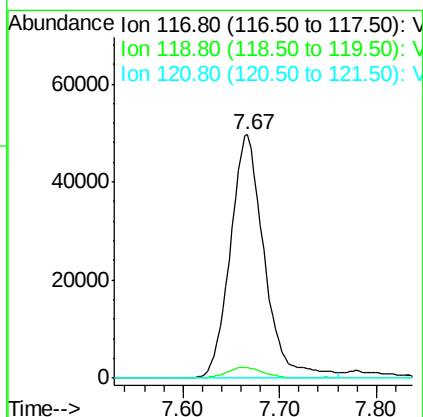
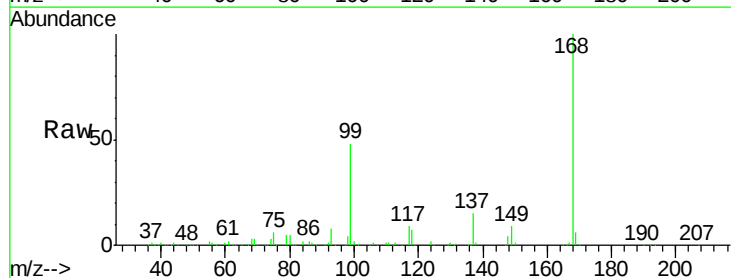
Instrument :
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 ClientSampleId :
 MR-MH-11-COMP

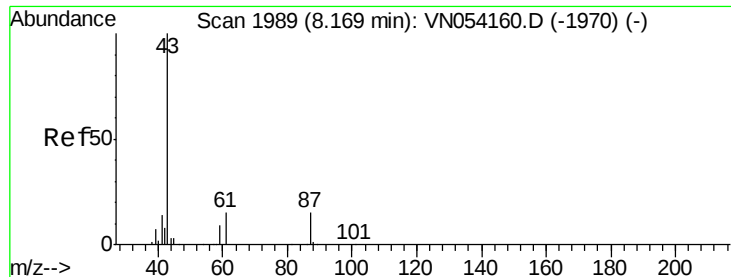
Tot Ion: 75 Resp: 84076
 Ion Ratio Lower Upper
 75 100
 110 9.5 19.1 57.5#
 77 0.1 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.252 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054174.D
 Acq: 12 Mar 2019 20:01

Tgt Ion: 117 Resp: 121562
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.3 114.5#
 121 0.0 24.6 36.8#

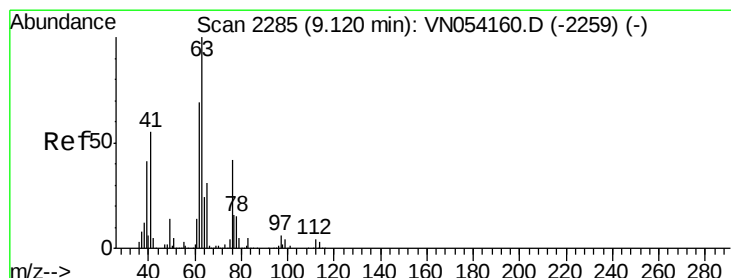
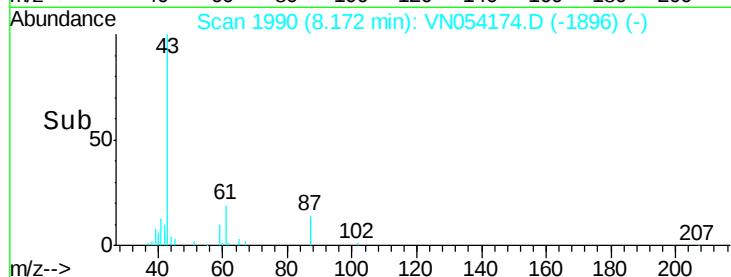
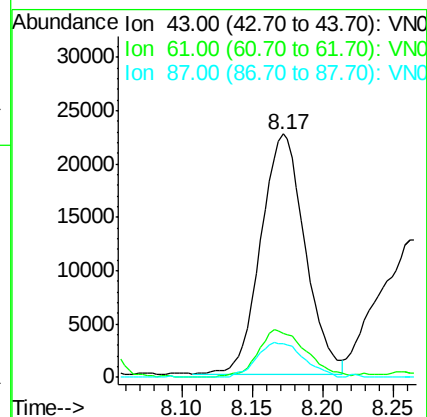
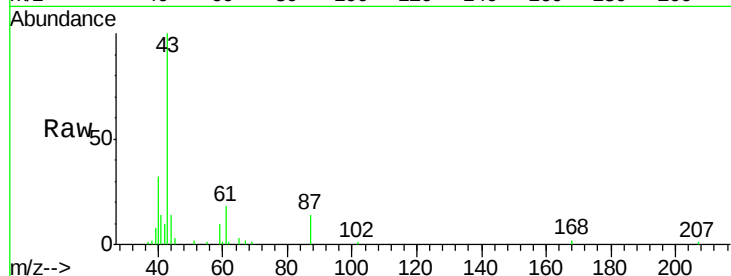




#43
Isopropyl Acetate
Concen: 2.199 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

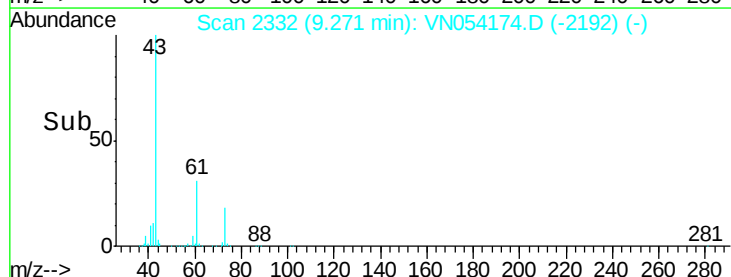
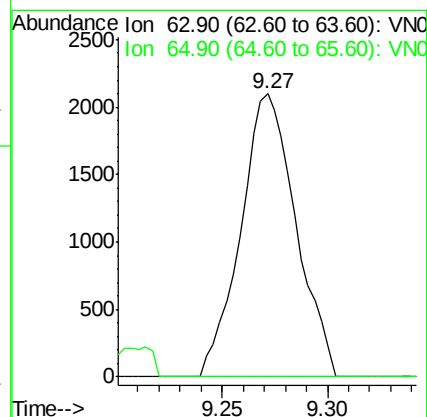
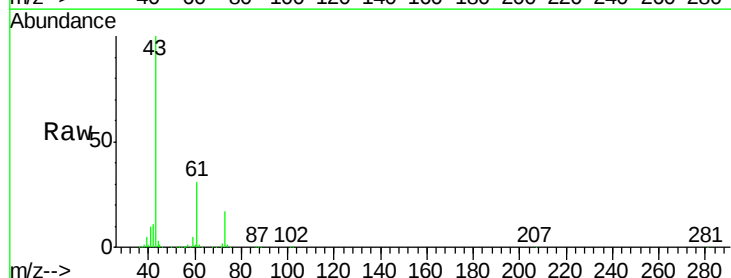
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-11-COMP

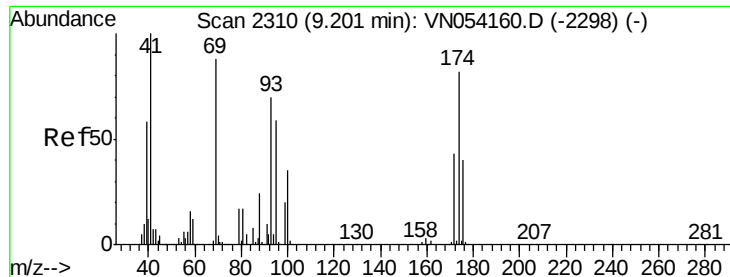
Tot Ion: 43 Resp: 48946
Ion Ratio Lower Upper
43 100
61 21.6 15.8 23.8
87 15.5 12.0 18.0



#45
1,2-Dichloropropane
Concen: 0.243 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.15 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

Tgt Ion: 63 Resp: 3813
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.6#

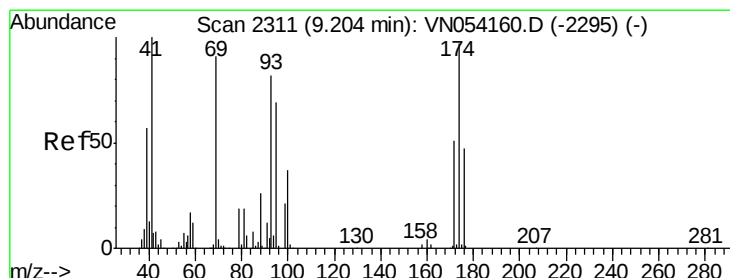
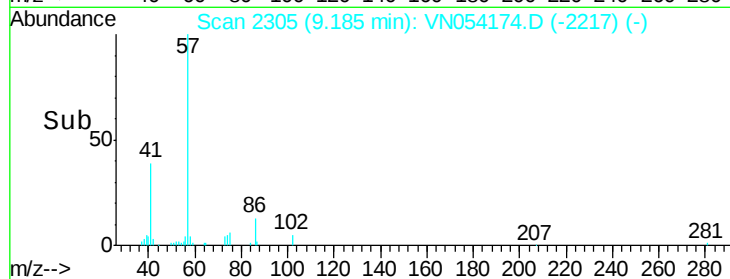
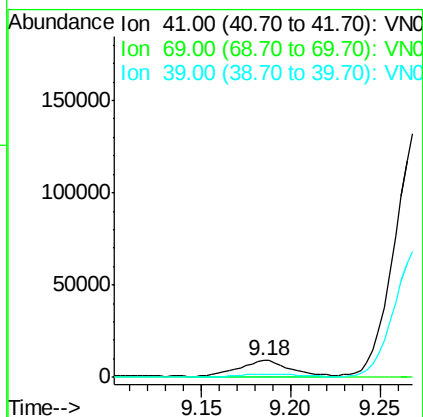
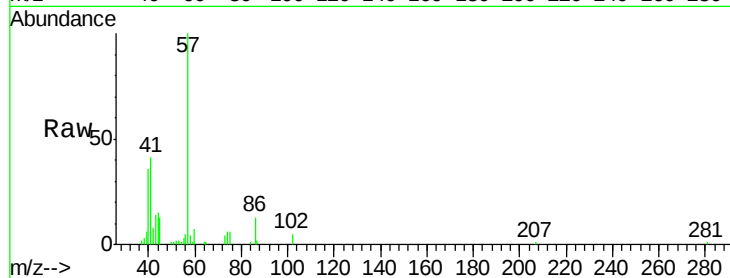




#48
Methvl methacrilate
Concen: 1.523 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

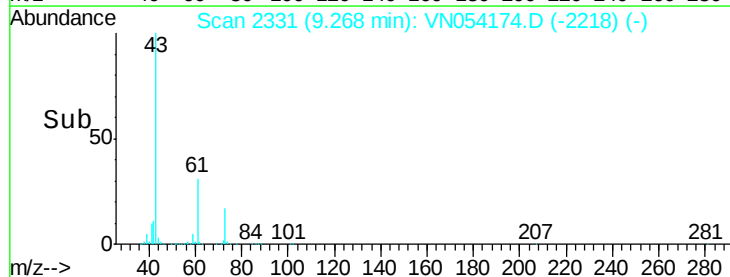
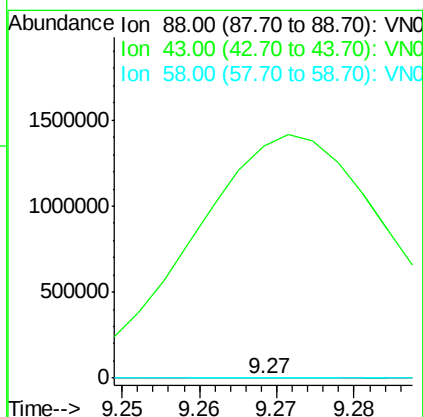
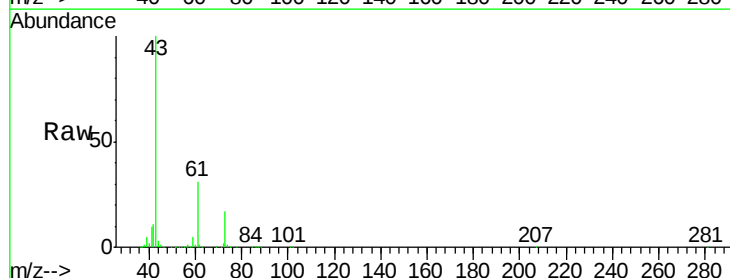
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-11-COMP

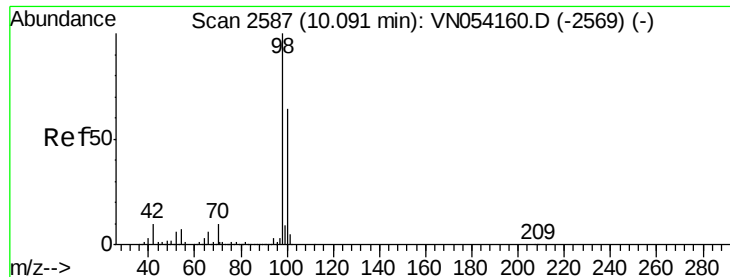
Tot Ion: 41 Resp: 17203
Ion Ratio Lower Upper
41 100
69 0.4 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 1.189 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.06 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

Tgt Ion: 88 Resp: 190
Ion Ratio Lower Upper
88 100
43 1494003.2 24.1 36.1#
58 5361.6 50.8 76.2#





#50

Toluene-d8

Concen: 51.735 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

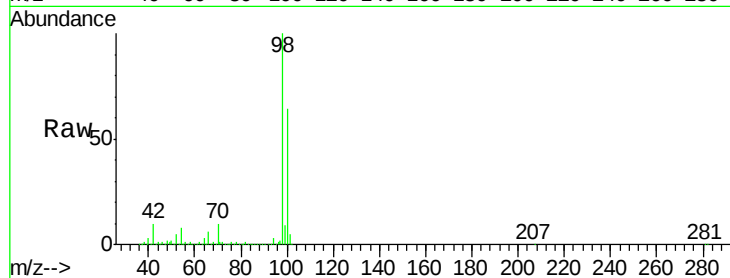
MR-MH-11-COMP

Tot Ion: 98 Resp: 2953412

Ion Ratio Lower Upper

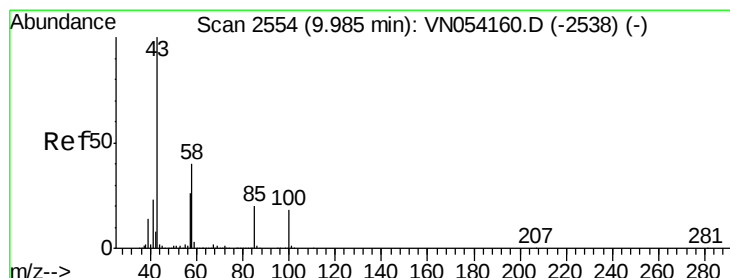
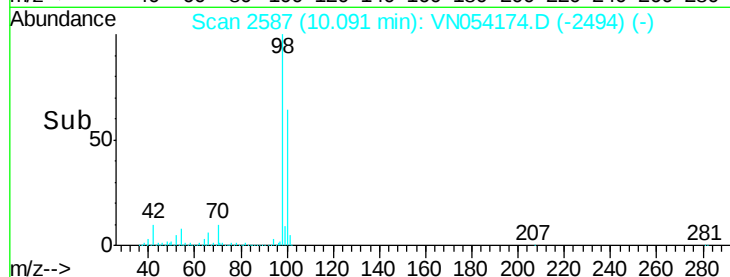
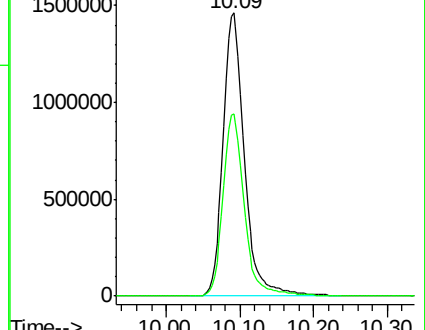
98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054174.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.624 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054174.D

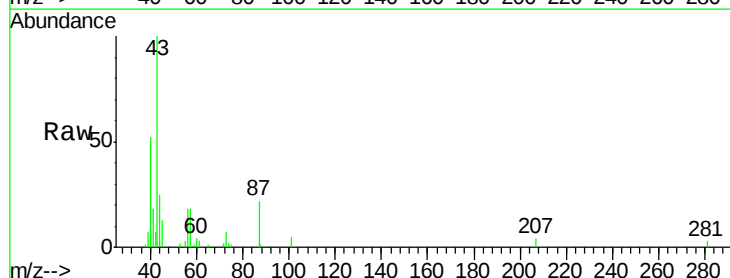
Acq: 12 Mar 2019 20:01

Tgt Ion: 43 Resp: 19133

Ion Ratio Lower Upper

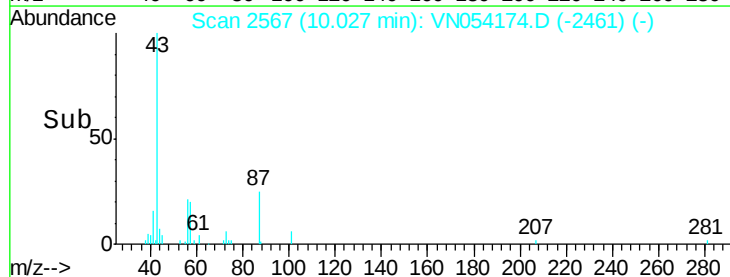
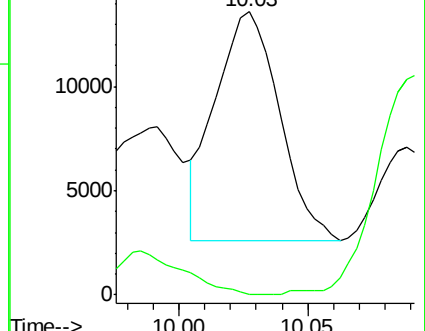
43 100

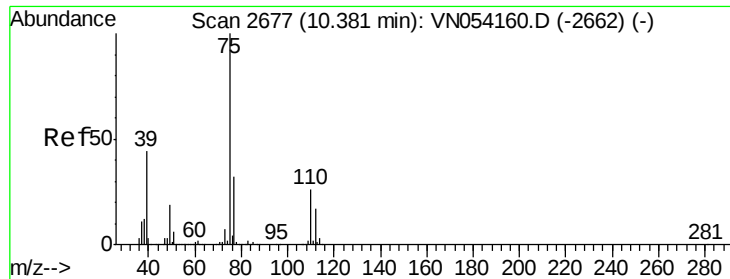
58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054174.D (-2461) (-)





#53

t-1,3-Dichloropropene

Concen: 2.006 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

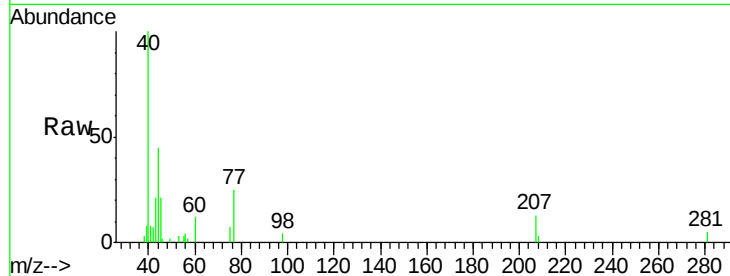
MR-MH-11-COMP

Tot Ion: 75 Resp: 513

Ion Ratio Lower Upper

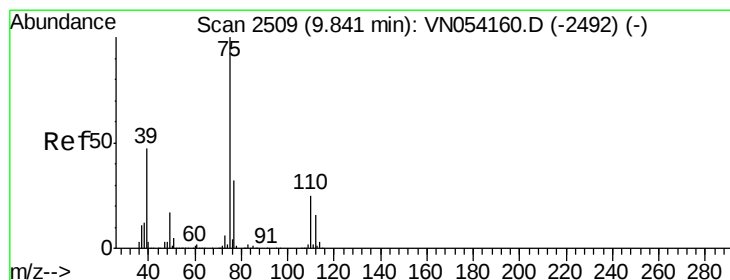
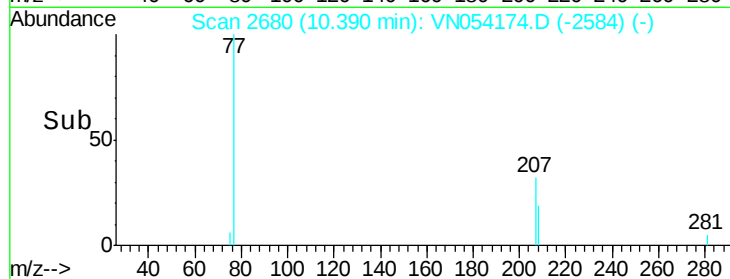
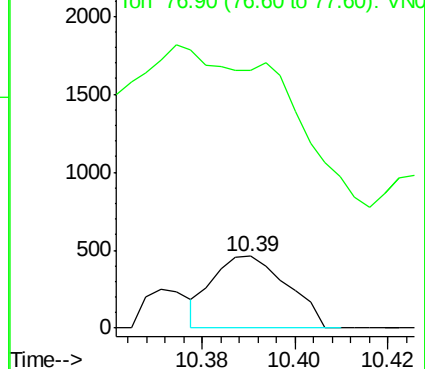
75 100

77 147.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.136 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

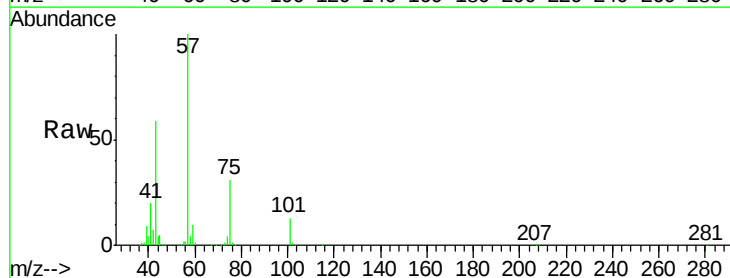
Tgt Ion: 75 Resp: 151897

Ion Ratio Lower Upper

75 100

77 0.4 25.4 38.0#

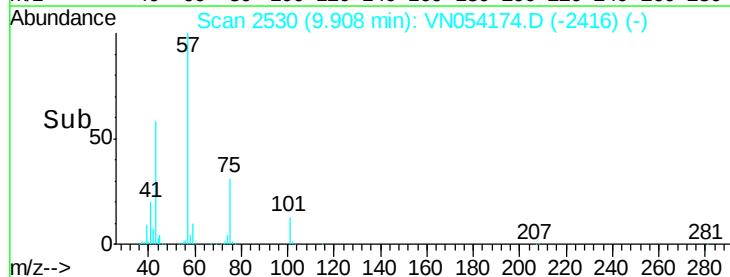
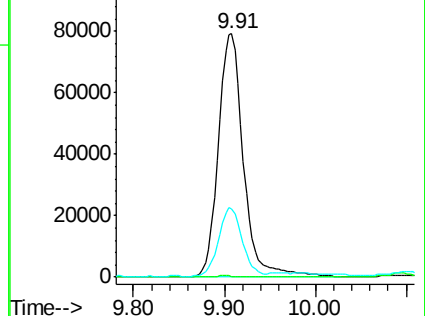
39 27.9 37.2 55.8#

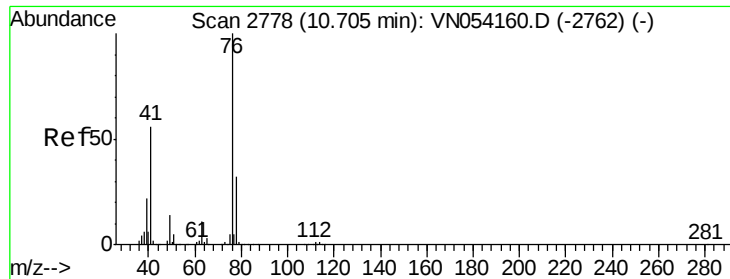


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

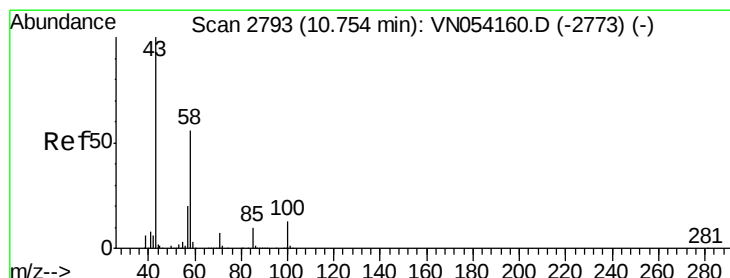
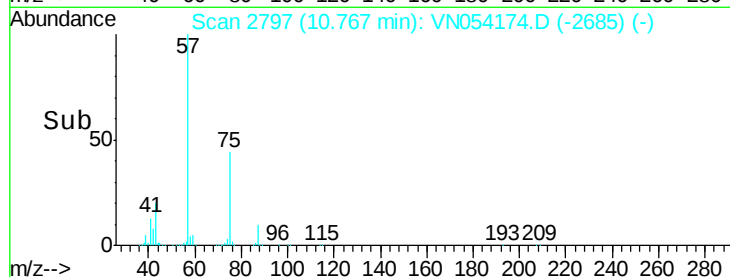
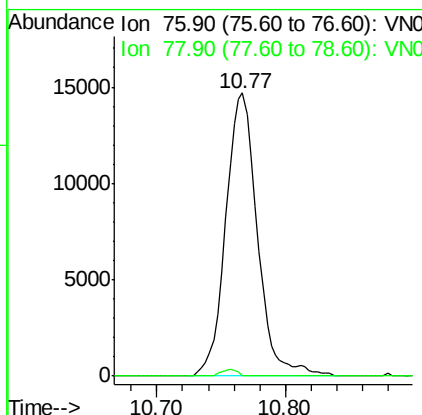
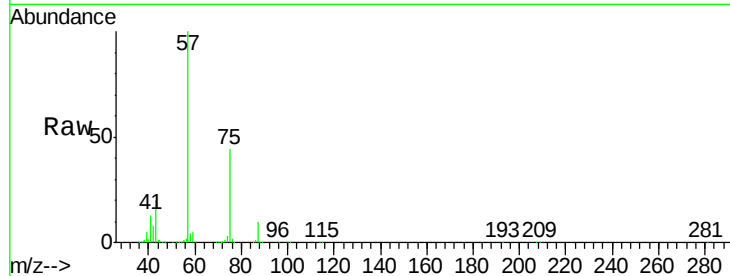




#57
 1,3-Dichloropropane
 Concen: 1.045 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054174.D
 Acq: 12 Mar 2019 20:01

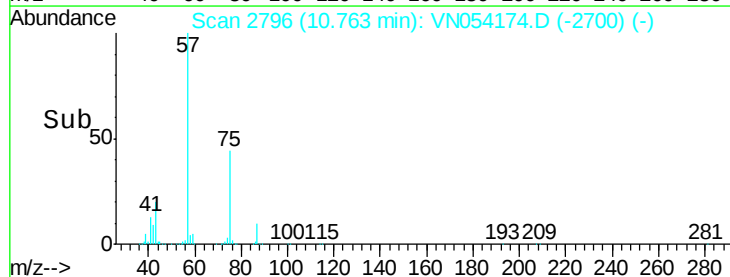
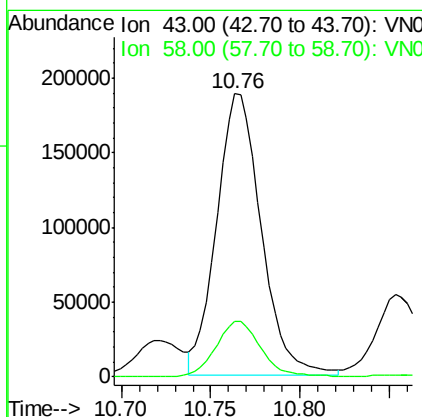
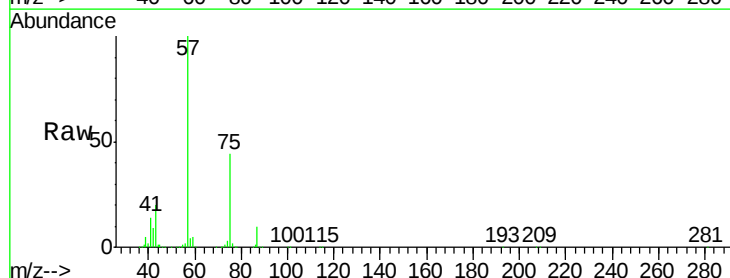
Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-11-COMP

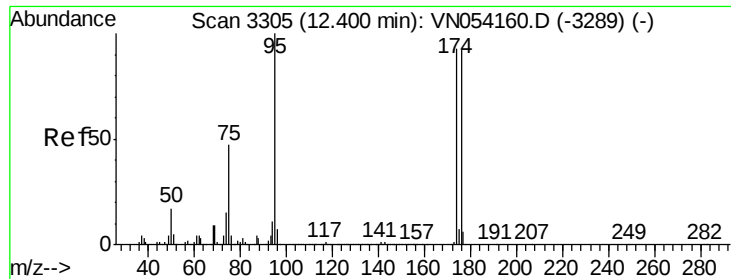
Tot Ion: 76 Resp: 24995
 Ion Ratio Lower Upper
 76 100
 78 1.2 25.7 38.5#



#59
 2-Hexanone
 Concen: 41.493 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN054174.D
 Acq: 12 Mar 2019 20:01

Tgt Ion: 43 Resp: 325243
 Ion Ratio Lower Upper
 43 100
 58 20.2 28.0 83.9#

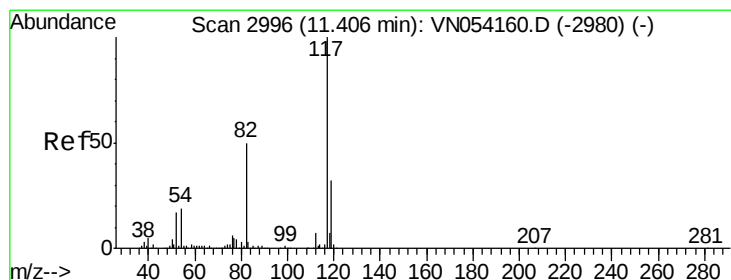
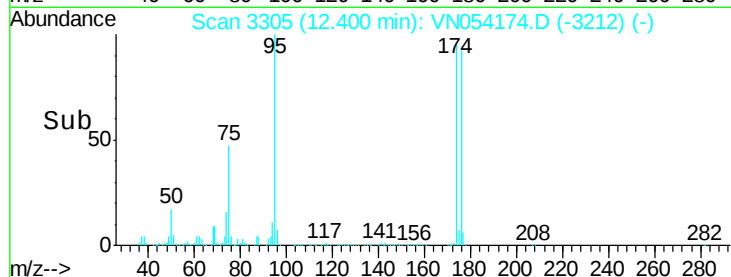
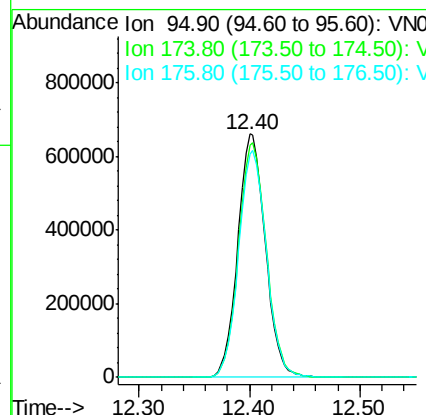
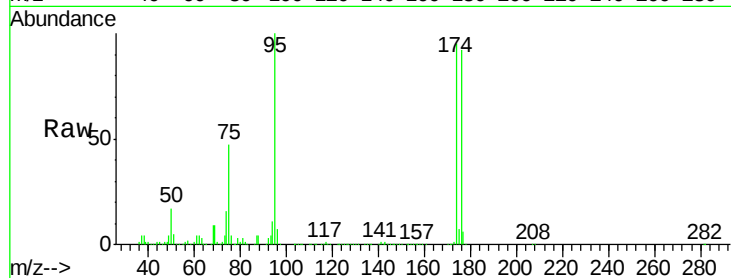




#62
4-Bromofluorobenzene
Concen: 57.105 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

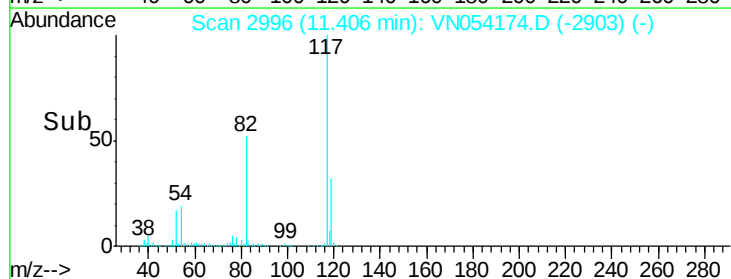
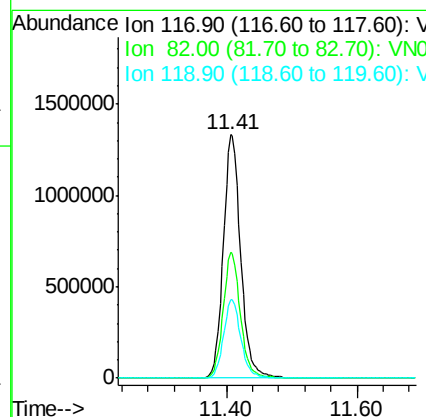
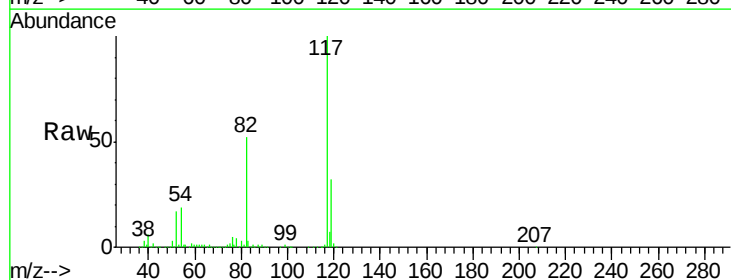
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-11-COMP

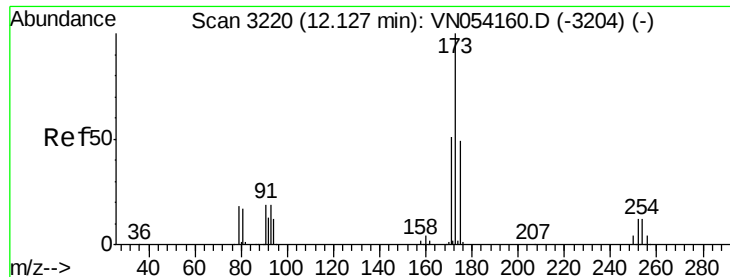
Tot Ion: 95 Resp: 1140660
Ion Ratio Lower Upper
95 100
174 97.2 0.0 191.0
176 94.2 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054174.D
Acq: 12 Mar 2019 20:01

Tgt Ion: 117 Resp: 2468827
Ion Ratio Lower Upper
117 100
82 51.7 40.0 60.0
119 32.3 25.8 38.6





#71

Bromoform

Concen: 2.778 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-11-COMP

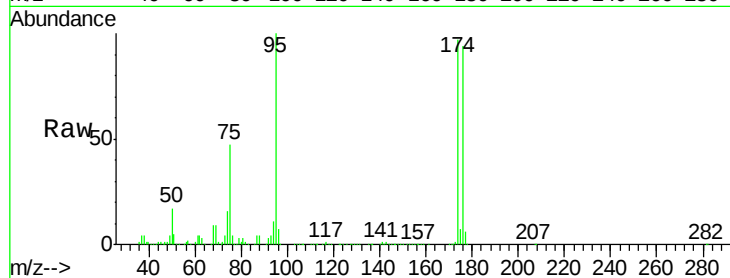
Tot Ion:173 Resp: 6731

Ion Ratio Lower Upper

173 100

175 1019.1 24.4 73.2#

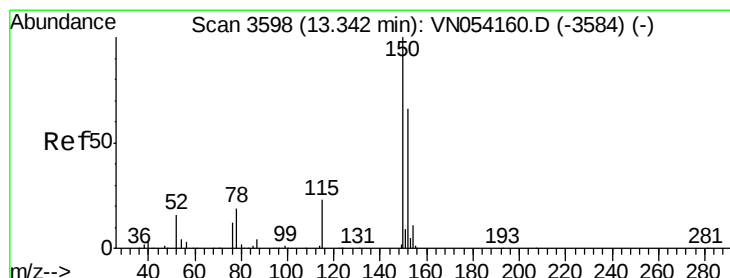
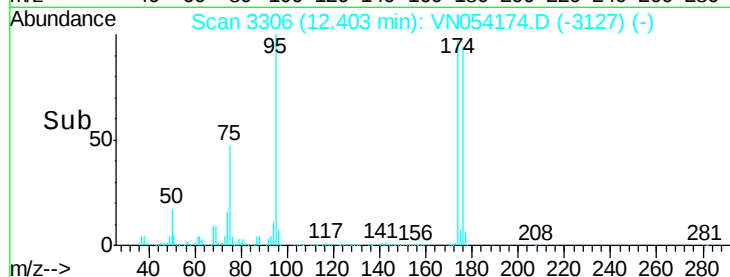
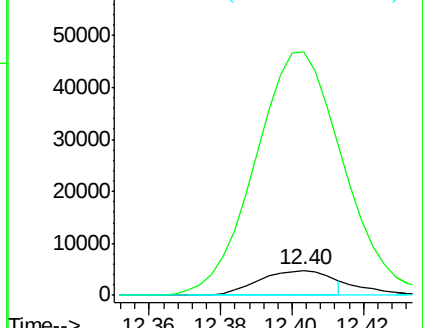
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

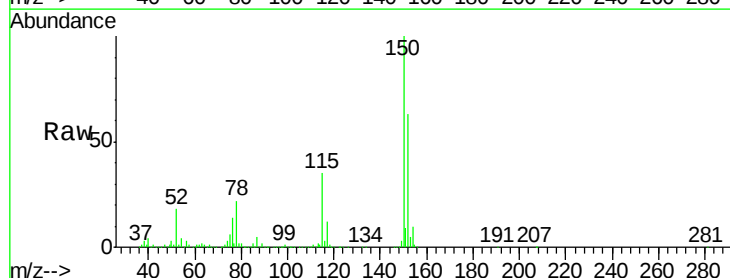
Tgt Ion:152 Resp: 1101828

Ion Ratio Lower Upper

152 100

115 54.8 27.2 81.6

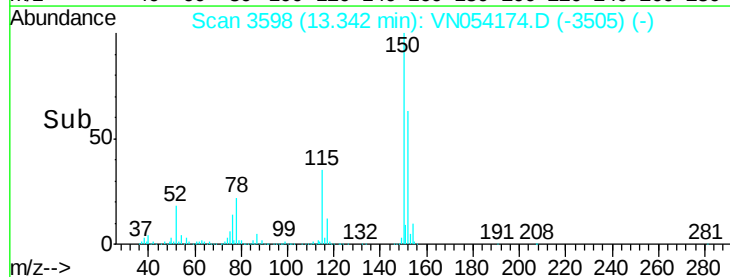
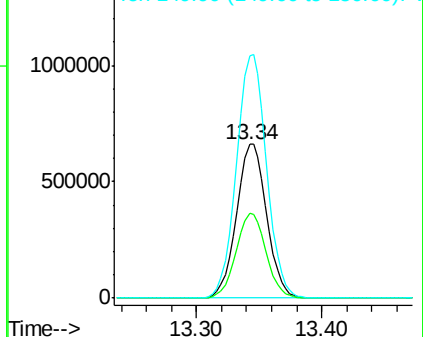
150 158.0 0.0 349.2

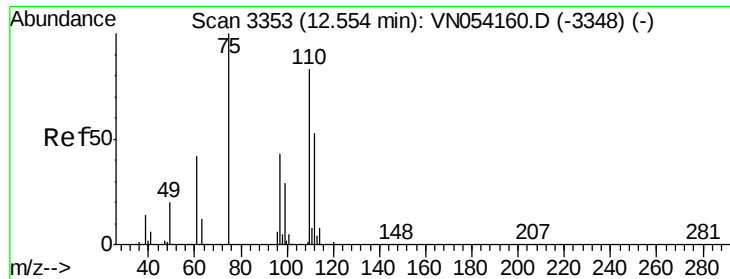


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.831 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

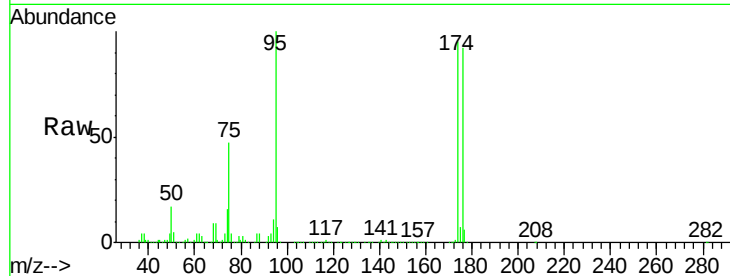
MR-MH-11-COMP

Tot Ion: 75 Resp: 548160

Ion Ratio Lower Upper

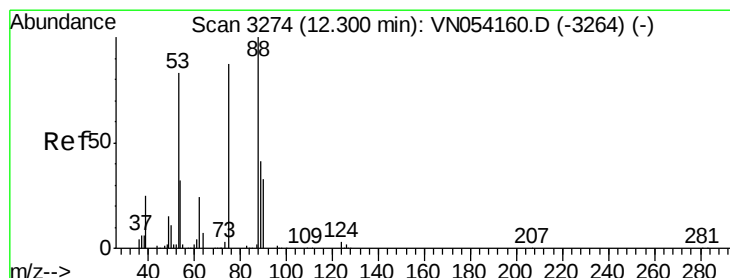
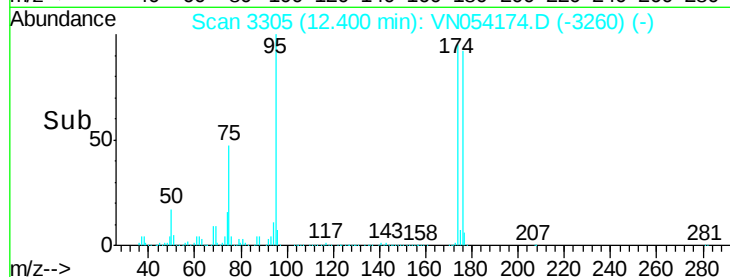
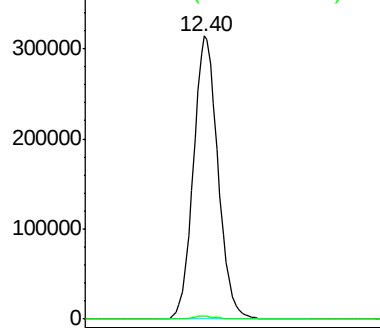
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 115.650 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

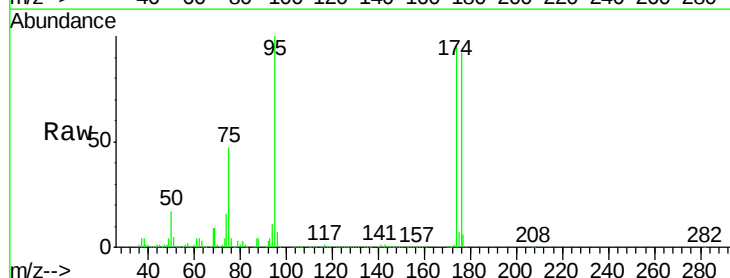
Tgt Ion: 75 Resp: 548160

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

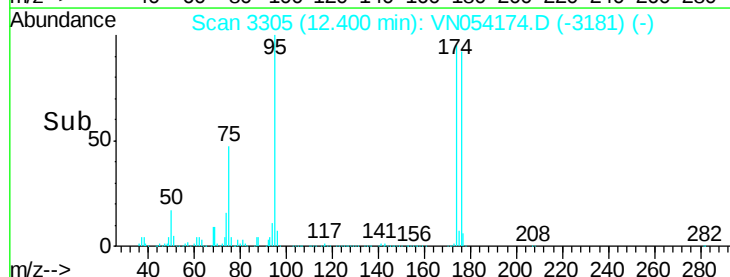
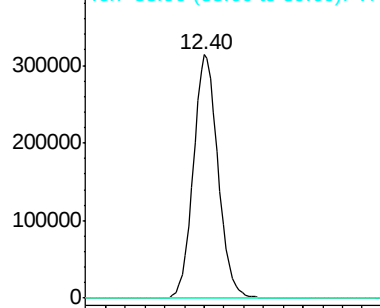
89 0.0 39.2 58.8#

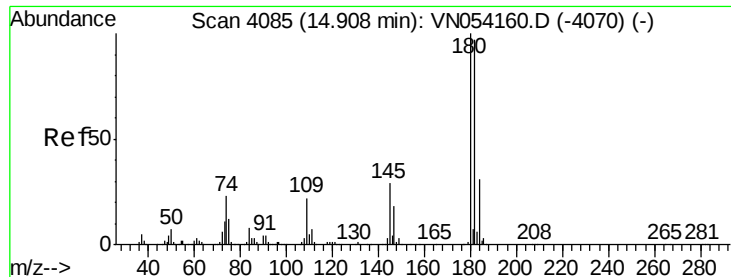


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.635 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-11-COMP

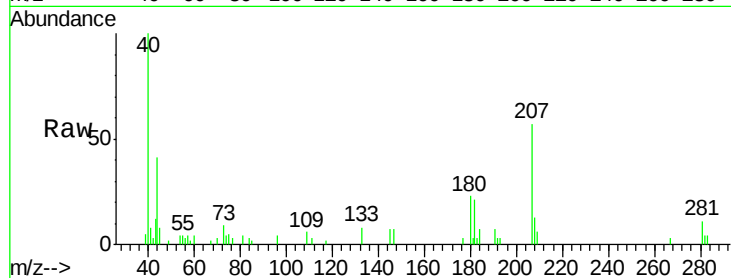
Tot Ion:180 Resp: 2892

Ion Ratio Lower Upper

180 100

182 99.3 48.0 144.2

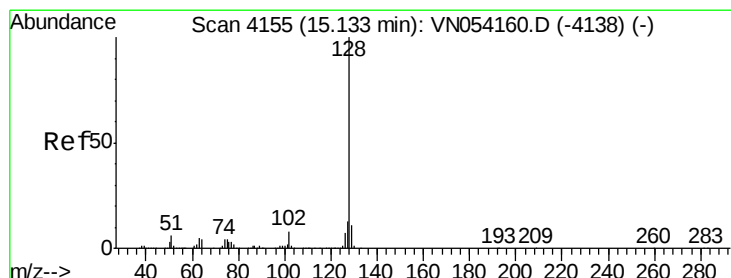
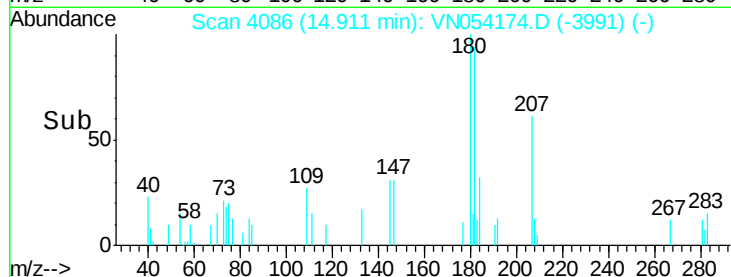
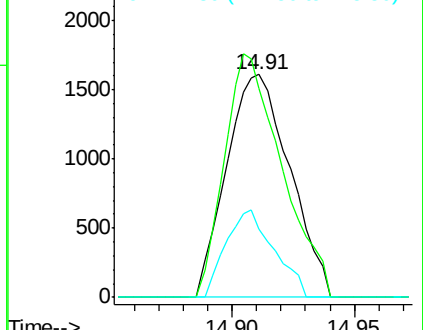
145 29.9 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 3.554 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054174.D

Acq: 12 Mar 2019 20:01

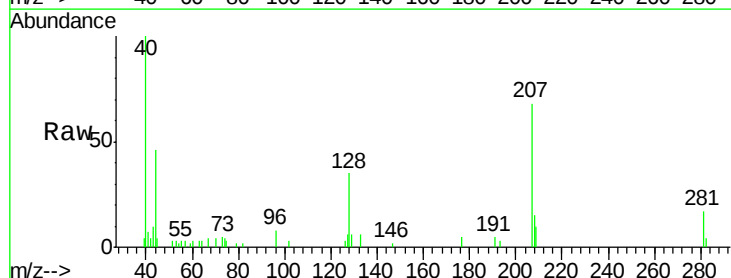
Tgt Ion:128 Resp: 4359

Ion Ratio Lower Upper

128 100

127 11.7 10.1 15.1

129 13.7 8.7 13.1#



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

