

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055692.D
 Acq On : 21 May 2019 00:44
 Operator : JC/SP
 Sample : K2951-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 21 04:41:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	455050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	605160	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	512133	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	181296	50.00	ug/l	0.00

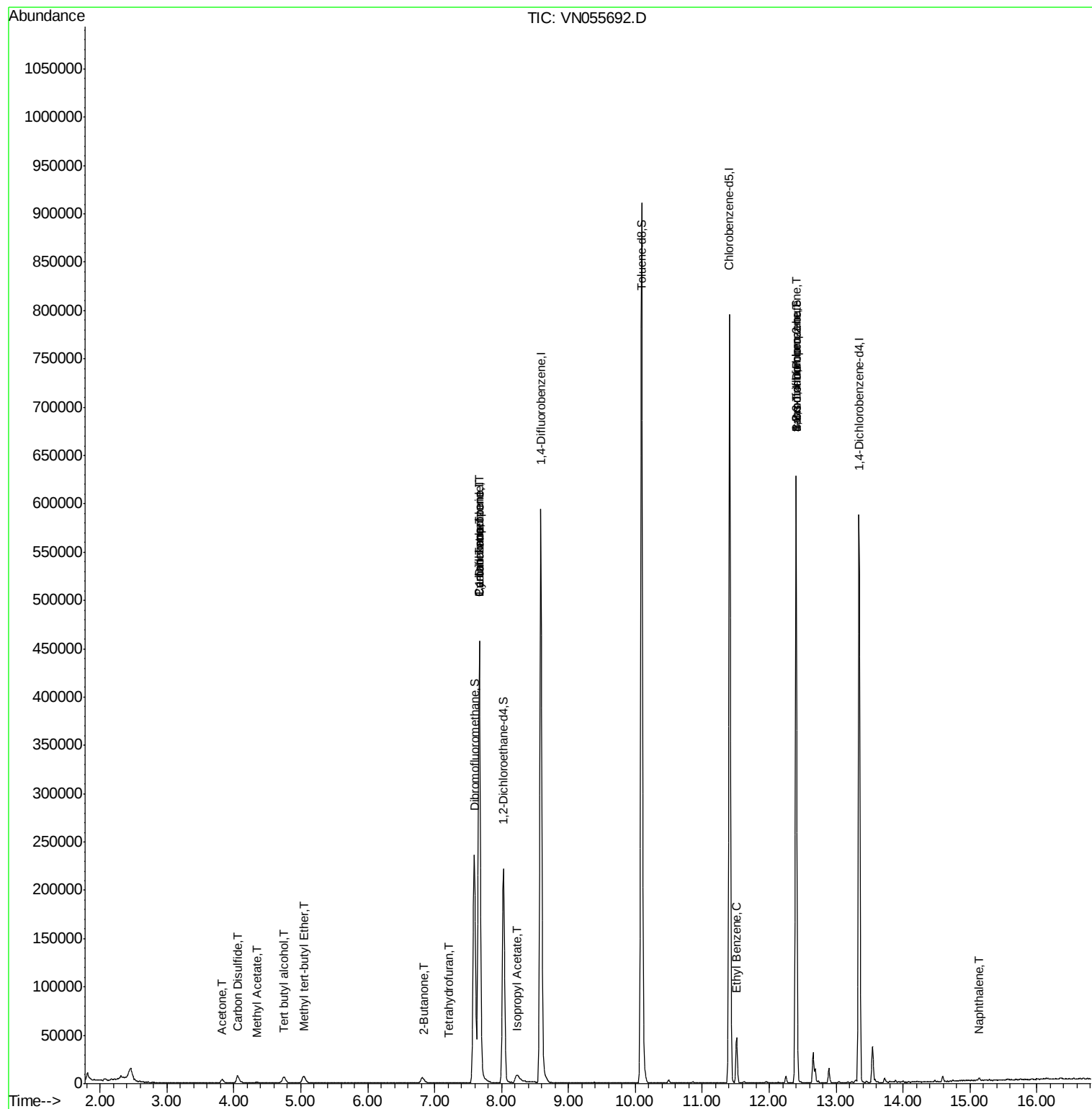
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	189933	38.08	ug/l	0.00
Spiked Amount			Recovery	=	76.16%	
35) Dibromofluoromethane	7.59	113	184223	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
50) Toluene-d8	10.09	98	693038	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	12.40	95	209948	41.83	ug/l	0.00
Spiked Amount			Recovery	=	83.66%	

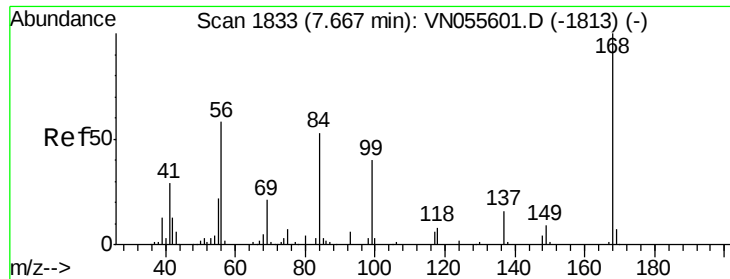
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	7472	8.032	ug/l #	74
16) Acetone	3.82	43	7314	3.593	ug/l	100
17) Carbon Disulfide	4.06	76	4208	0.364	ug/l #	75
18) Methyl Acetate	4.35	43	2300	0.527	ug/l #	56
19) Methyl tert-butyl Ether	5.05	73	13749	1.000	ug/l	97
25) 2-Butanone	6.85	43	2966	1.042	ug/l	99
29) Tetrahydrofuran	7.22	42	417	0.221	ug/l #	42
31) Cyclohexane	7.66	56	5968	0.807	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24350	4.513	ug/l #	49
38) Carbon Tetrachloride	7.67	117	35415	6.143	ug/l #	15
43) Isopropyl Acetate	8.22	43	5514	0.651	ug/l #	53
67) Ethyl Benzene	11.51	91	36057	1.954	ug/l	97
71) Bromoform	12.40	173	1366	0.387	ug/l #	1
73) Isopropylbenzene	12.25	105	4870	Below Cal		93
76) 1,2,3-Trichloropropane	12.40	75	93990	25.407	ug/l #	100
79) 2-Chlorotoluene	12.66	91	2894	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	93990	65.311	ug/l #	17
83) tert-Butylbenzene	12.90	119	98	Below Cal	#	1
84) 1,2,4-Trimethylbenzene	13.04	105	962	Below Cal		93
85) sec-Butylbenzene	13.04	105	962	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	2298	Below Cal		94
90) Hexachloroethane	14.00	117	1179	Below Cal	#	3
95) Naphthalene	15.14	128	2975	2.069	ug/l #	93

(#) = 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: VN055692.D

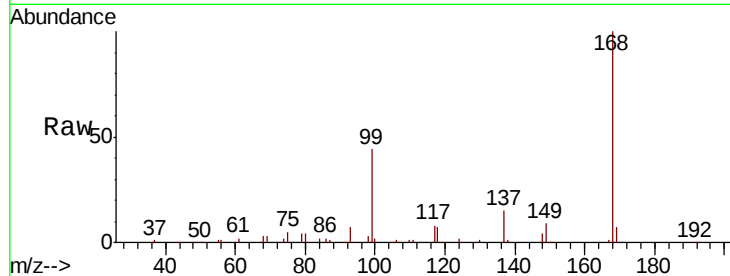
Acq: 21 May 2019 00:44

Tot Ion:168 Resp: 455050

Ion Ratio Lower Upper

168 100

99 44.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

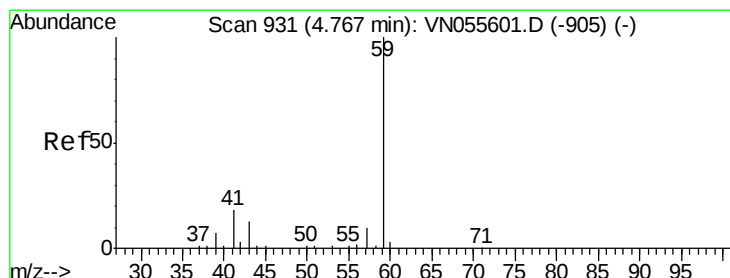
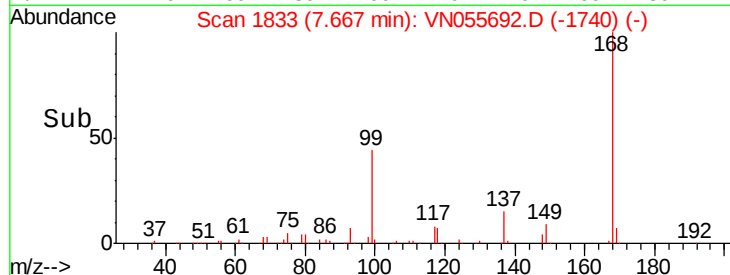
100000

50000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 8.032 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.03 min

Lab File: VN055692.D

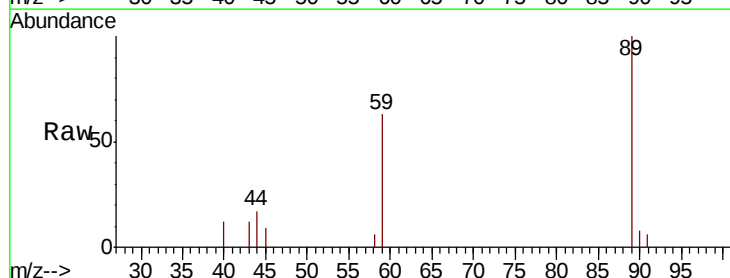
Acq: 21 May 2019 00:44

Tgt Ion: 59 Resp: 7472

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

2000

1500

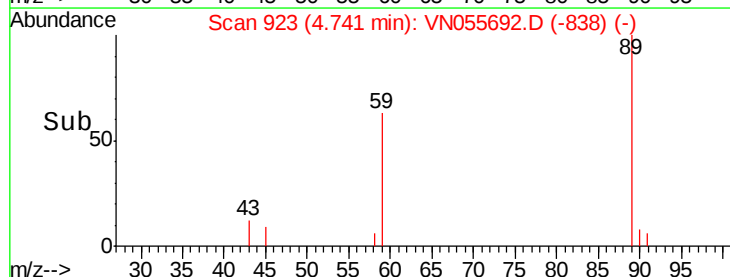
1000

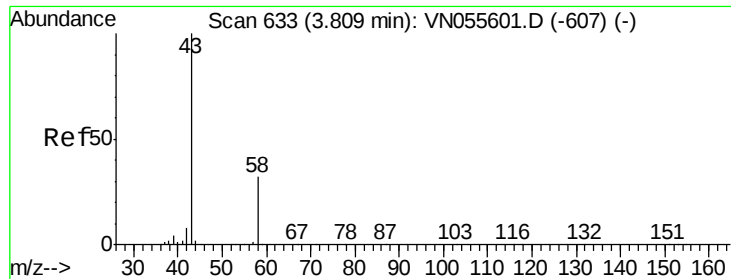
500

0

Time-->

4.70 4.80





#16

Acetone

Concen: 3.593 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN055692.D

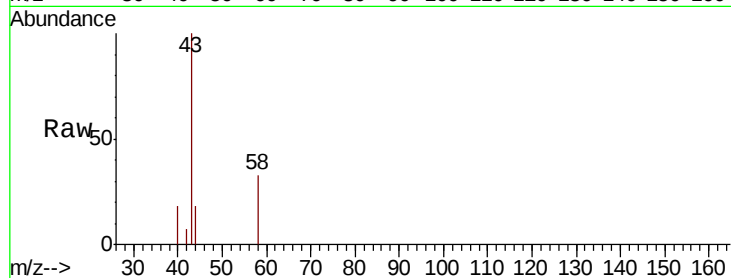
Acq: 21 May 2019 00:44

Tot Ion: 43 Resp: 7314

Ion Ratio Lower Upper

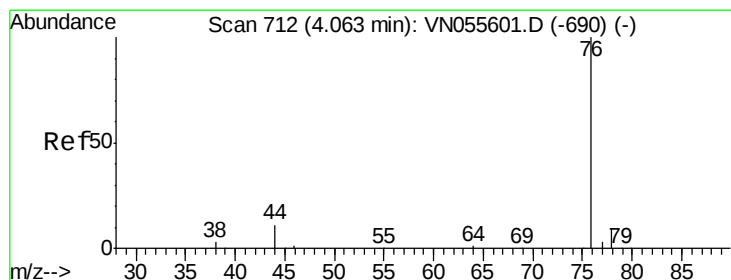
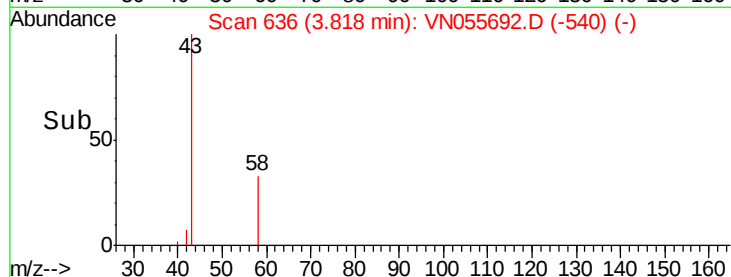
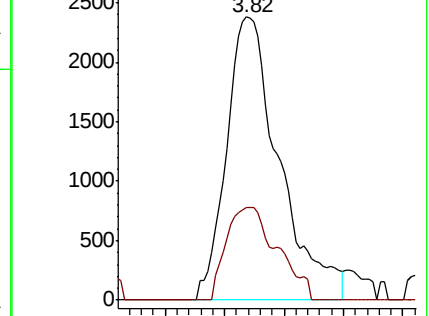
43 100

58 32.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#17

Carbon Disulfide

Concen: 0.364 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN055692.D

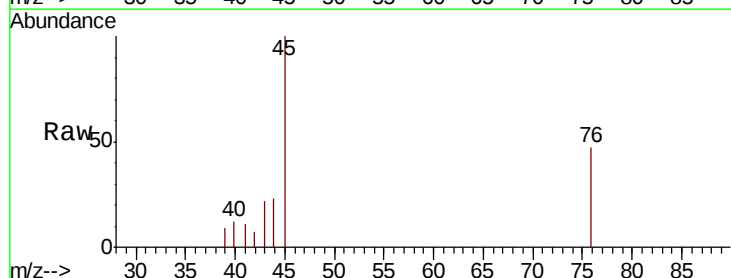
Acq: 21 May 2019 00:44

Tgt Ion: 76 Resp: 4208

Ion Ratio Lower Upper

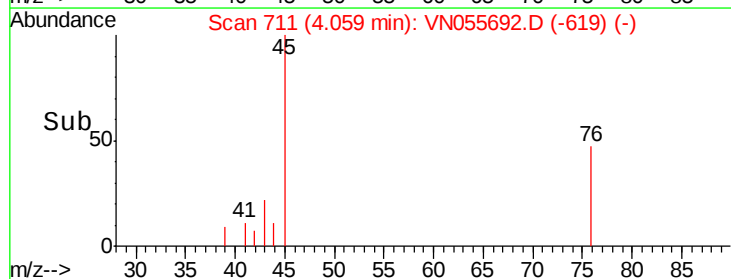
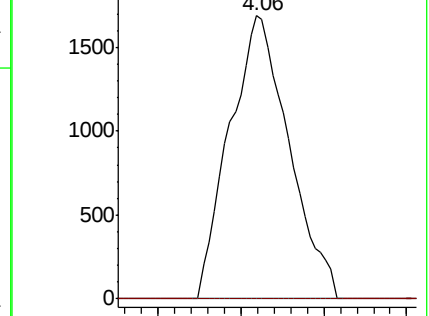
76 100

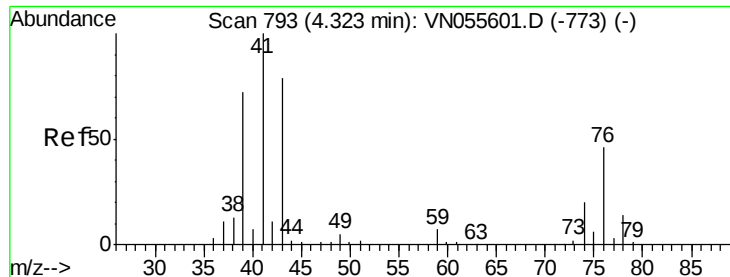
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO

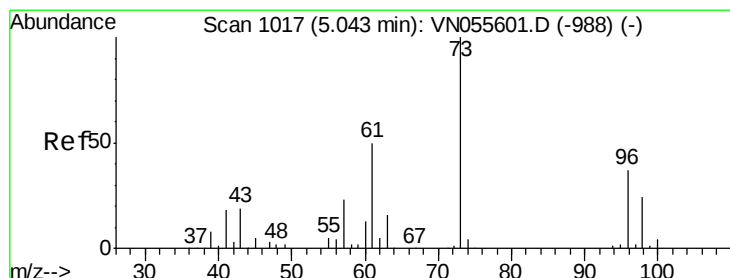
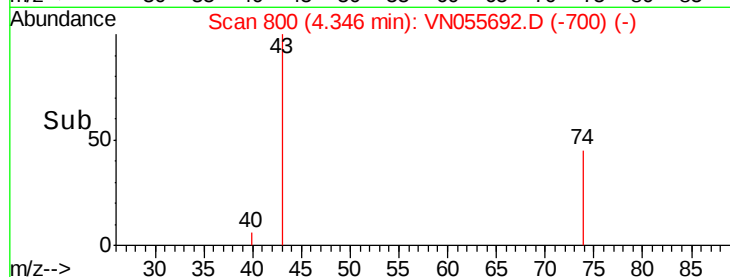
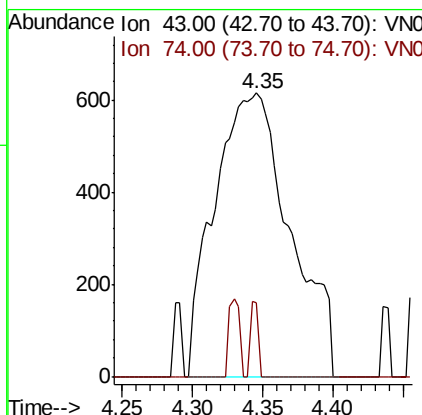
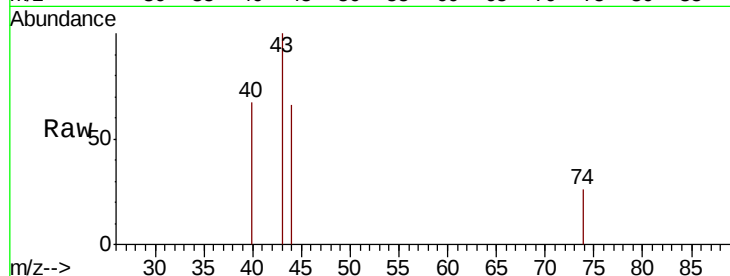
Ion 77.90 (77.60 to 78.60): VNO





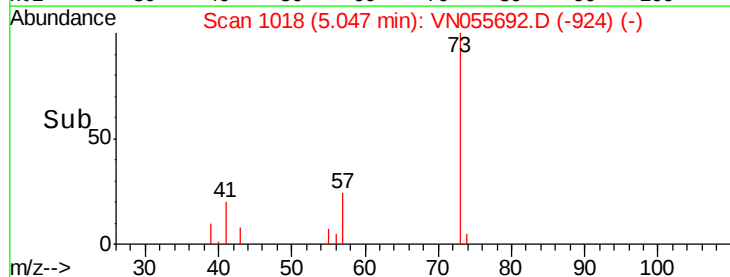
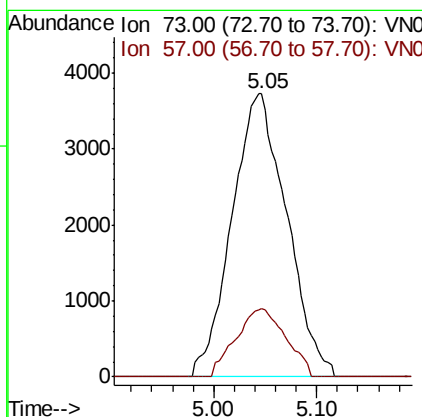
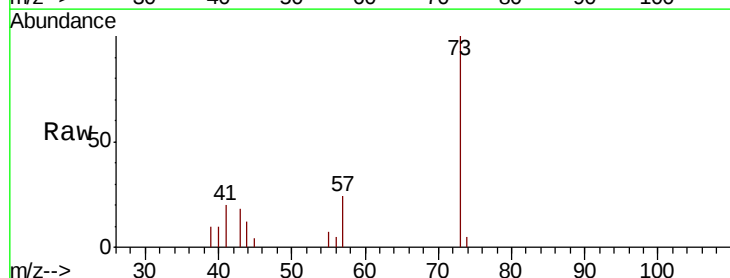
#18
Methvl Acetate
Concen: 0.527 ug/l
RT: 4.35 min Scan# 800
Delta R.T. 0.02 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

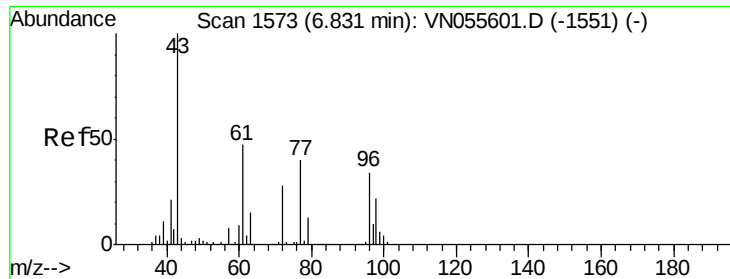
Tot Ion: 43 Resp: 2300
Ion Ratio Lower Upper
43 100
74 2.7 19.9 29.9#



#19
Methyl tert-butyl Ether
Concen: 1.000 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tgt Ion: 73 Resp: 13749
Ion Ratio Lower Upper
73 100
57 24.0 18.2 27.2





#25

2-Butanone

Concen: 1.042 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.02 min

Lab File: VN055692.D

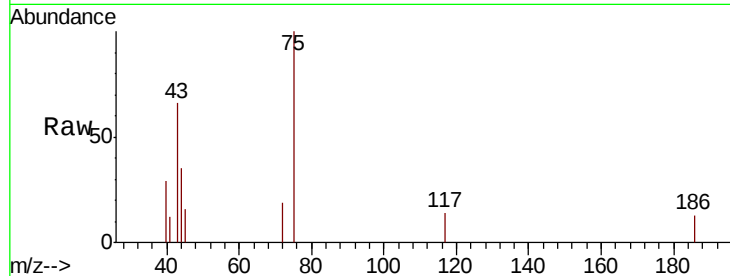
Acq: 21 May 2019 00:44

Tot Ion: 43 Resp: 2966

Ion Ratio Lower Upper

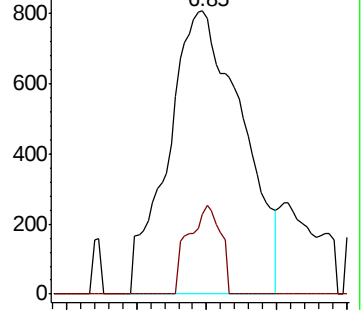
43 100

72 28.4 22.3 33.5

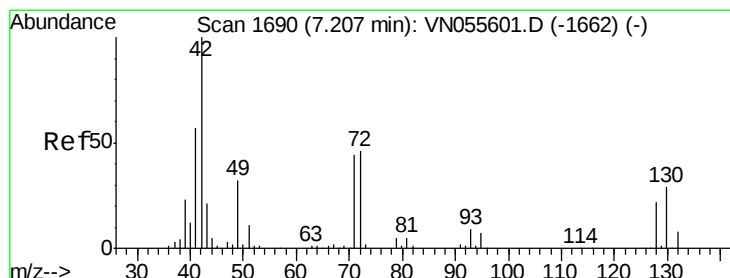
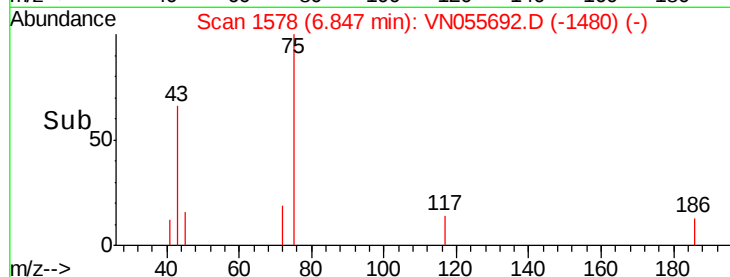


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->



#29

Tetrahydrofuran

Concen: 0.221 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

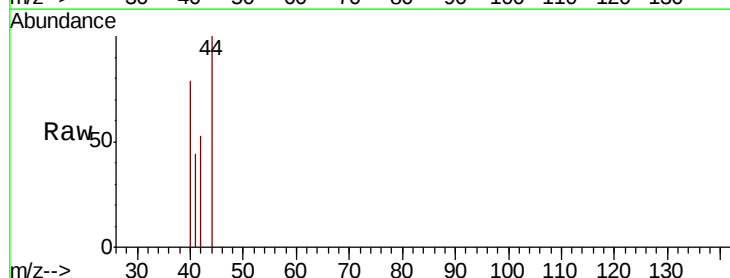
Tgt Ion: 42 Resp: 417

Ion Ratio Lower Upper

42 100

72 0.0 36.5 54.7#

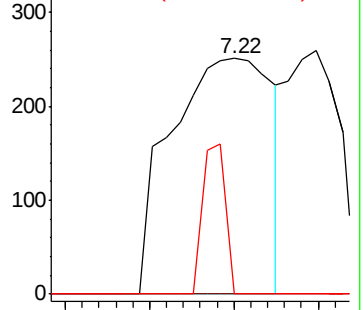
71 14.4 34.9 52.3#



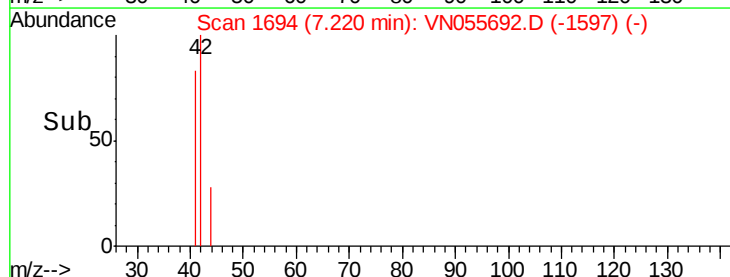
Abundance Ion 42.00 (41.70 to 42.70): VN0

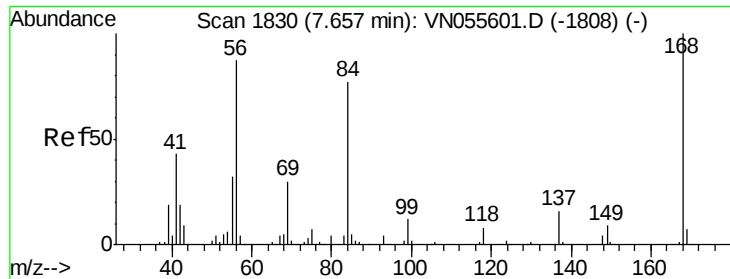
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



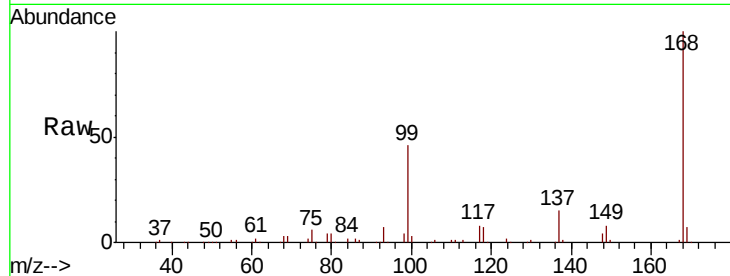
Time-->



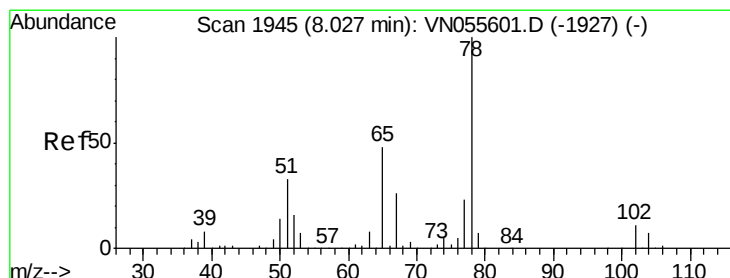
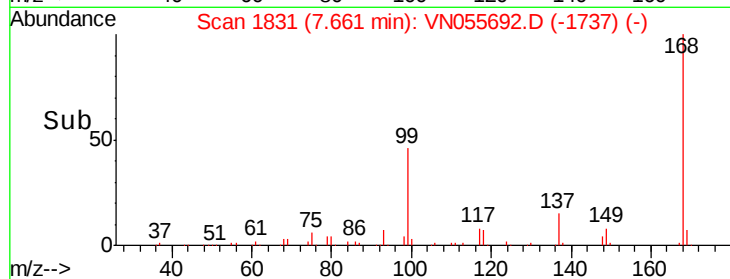
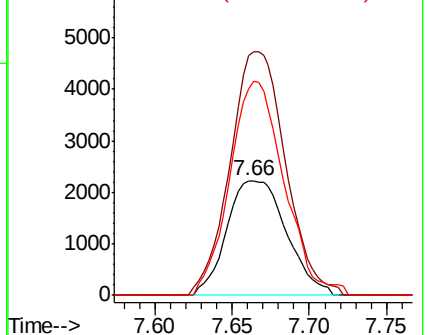


#31
Cyclohexane
Concen: 0.807 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tot Ion: 56 Resp: 5968
Ion Ratio Lower Upper
56 100
69 208.8 27.2 40.8#
84 180.3 71.3 106.9#

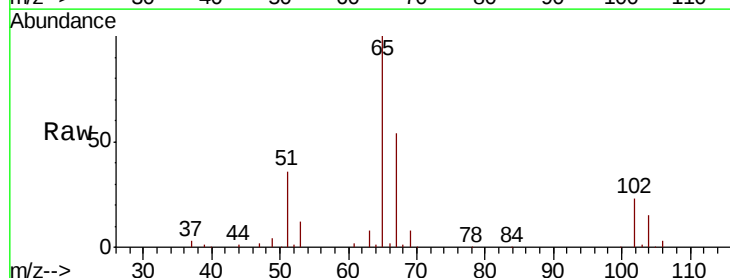


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

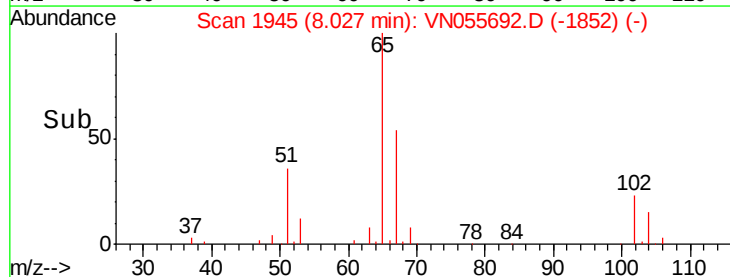
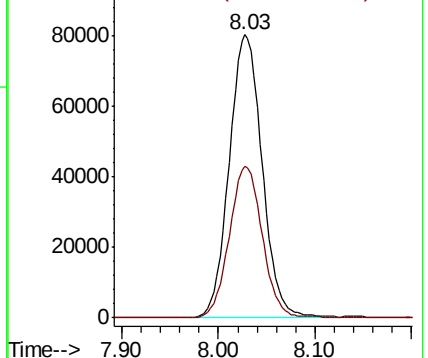


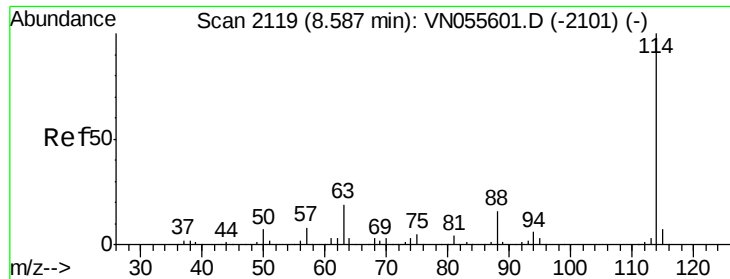
#33
1,2-Dichloroethane-d4
Concen: 38.076 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tgt Ion: 65 Resp: 189933
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.6



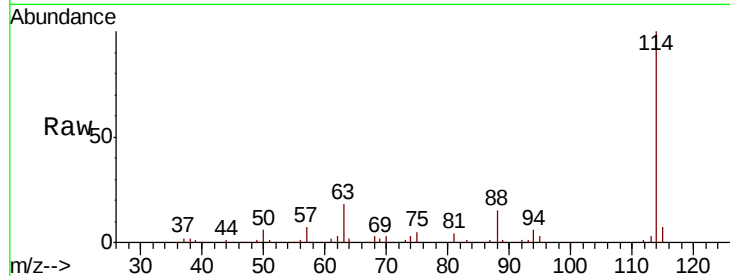
Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0



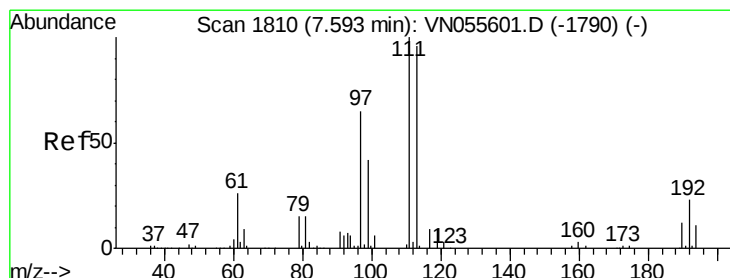
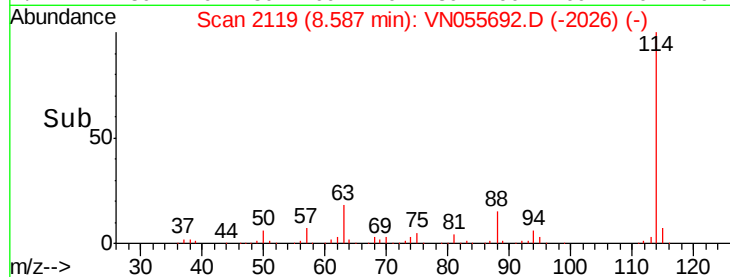
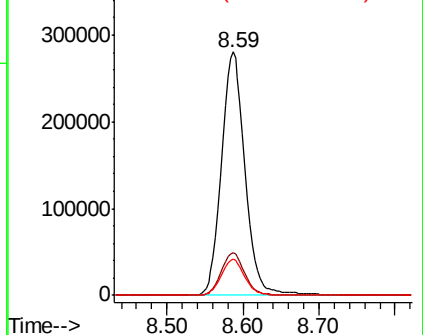


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055692.D
 Acq: 21 May 2019 00:44

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	38.2
88	14.7	0.0	31.0

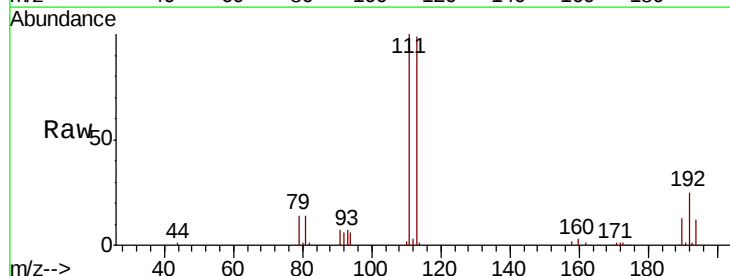


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

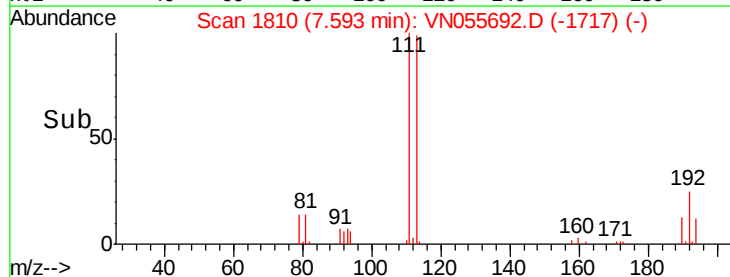
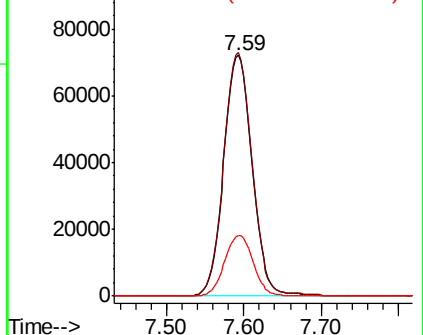


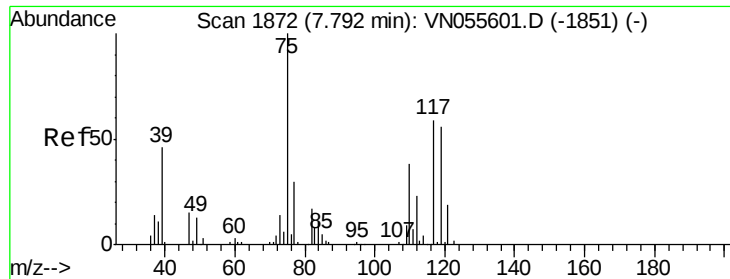
#35
 Dibromofluoromethane
 Concen: 47.922 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055692.D
 Acq: 21 May 2019 00:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.5	123.7
192	25.1	18.7	28.1



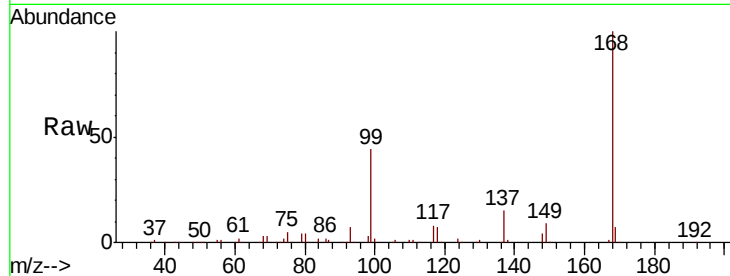
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



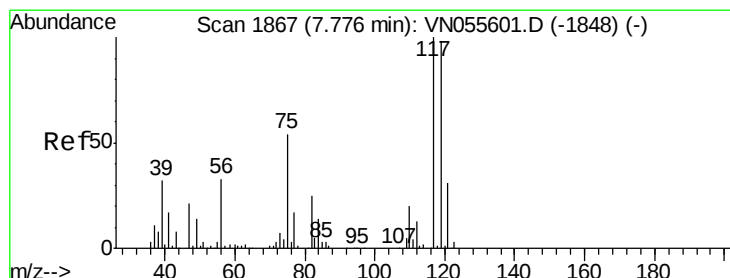
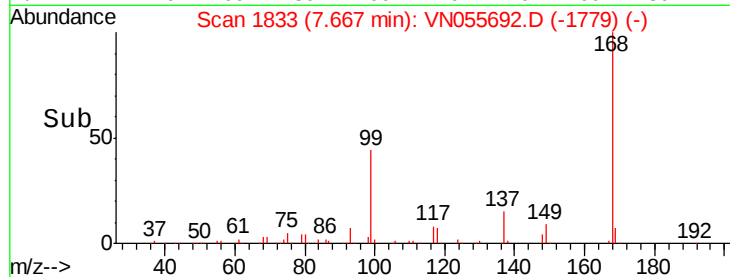
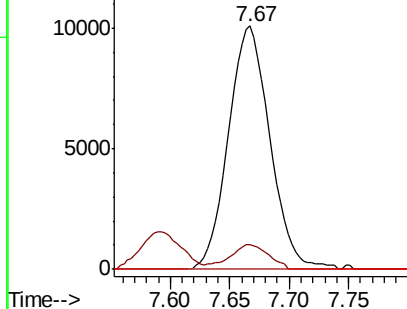


#36
 1,1-Dichloropropene
 Concen: 4.513 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055692.D
 Acq: 21 May 2019 00:44

Tot Ion	75	Resp	24350
Ion Ratio	100	Lower	Upper
110	9.4	18.6	55.6#
77	0.0	24.9	37.3#

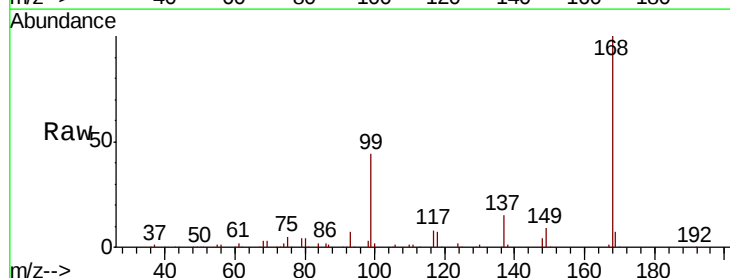


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

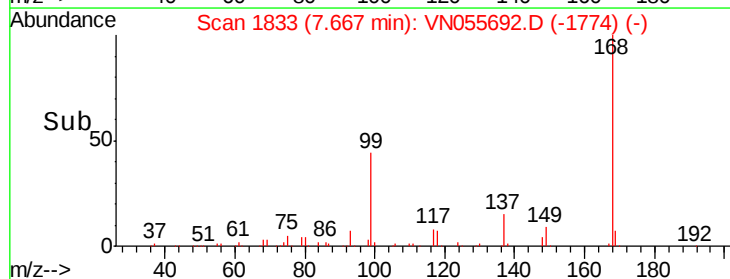
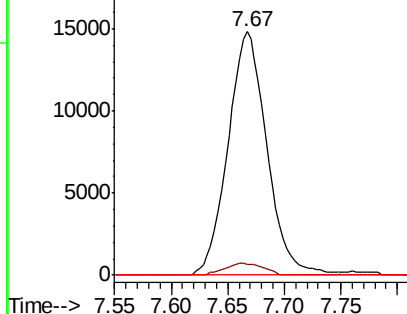


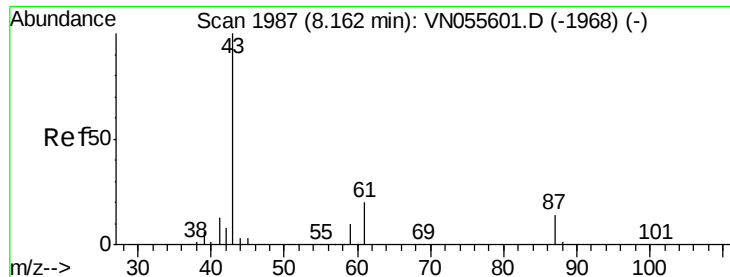
#38
 Carbon Tetrachloride
 Concen: 6.143 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN055692.D
 Acq: 21 May 2019 00:44

Tgt Ion	117	Resp	35415
Ion Ratio	100	Lower	Upper
119	4.6	77.8	116.8#
121	0.0	24.6	37.0#



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: 0.651 ug/l

RT: 8.22 min Scan# 2005

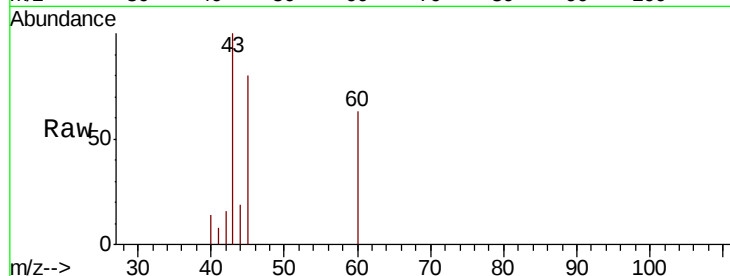
Delta R.T. 0.06 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

Tot Ion: 43 Resp: 5514

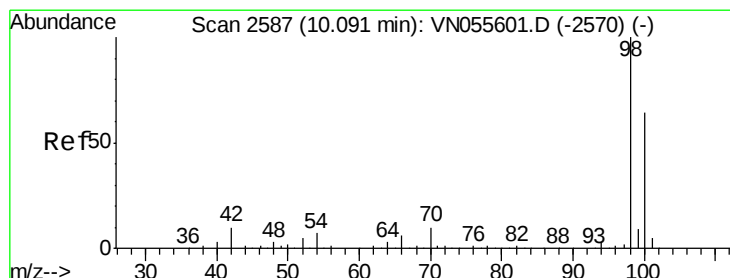
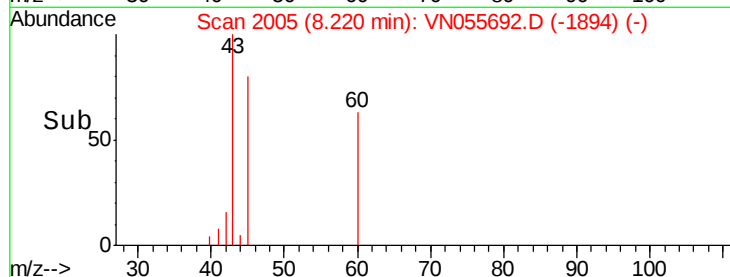
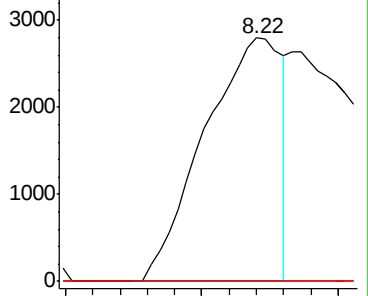
Ion	Ratio	Lower	Upper
43	100		
61	0.0	22.1	33.1#
87	0.0	11.8	17.6#



Abundance Ion 43.00 (42.70 to 43.70): VN055692.D (-2005) (-)

Ion 61.00 (60.70 to 61.70): VN055692.D (-2005) (-)

Ion 87.00 (86.70 to 87.70): VN055692.D (-2005) (-)



#50

Toluene-d8

Concen: 47.679 ug/l

RT: 10.09 min Scan# 2587

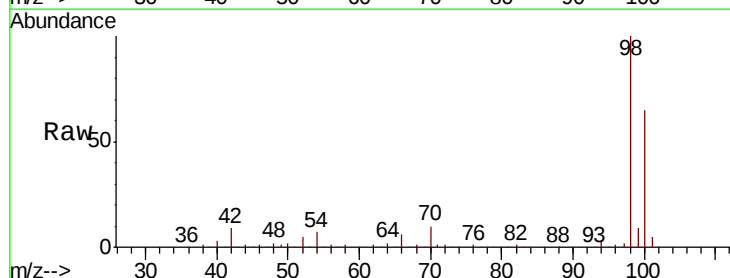
Delta R.T. -0.00 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

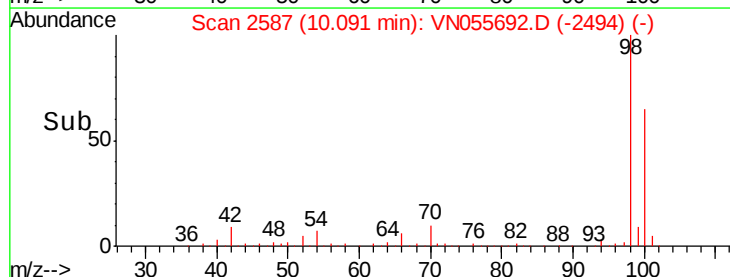
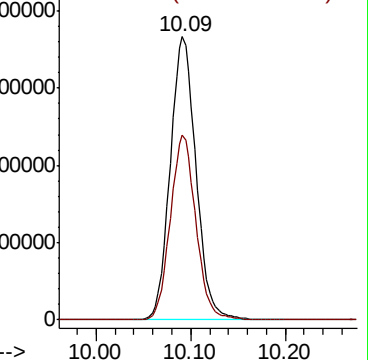
Tgt Ion: 98 Resp: 693038

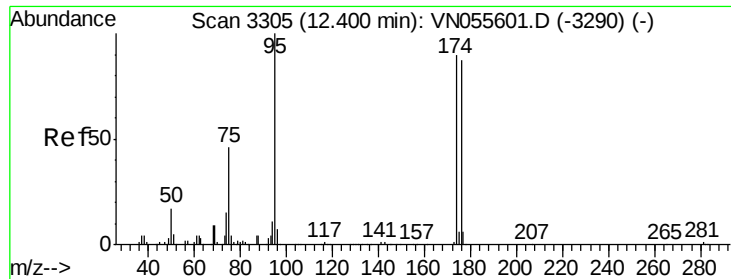
Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.9	77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055692.D (-2587) (-)

Ion 100.00 (99.70 to 100.70): VN055692.D (-2587) (-)





#62

4-Bromofluorobenzene

Concen: 41.828 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

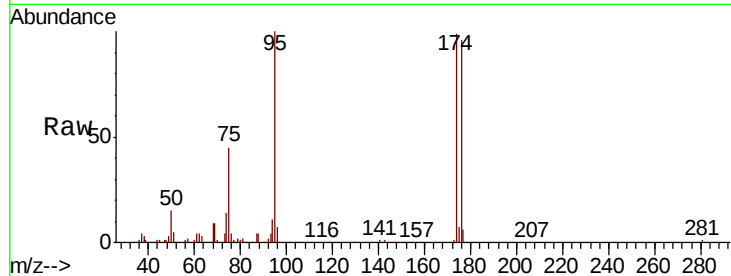
Tot Ion: 95 Resp: 209948

Ion Ratio Lower Upper

95 100

174 100.0 0.0 180.6

176 96.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN055601.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN055601.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN055601.D (-3290) (-)

12.40

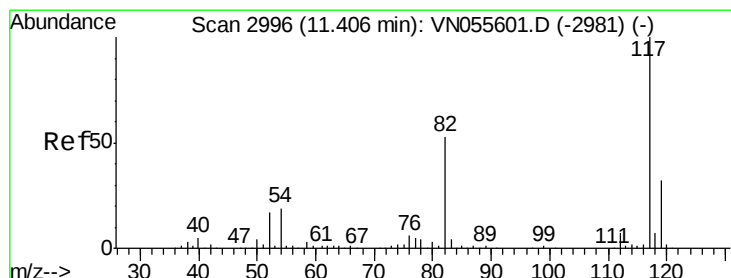
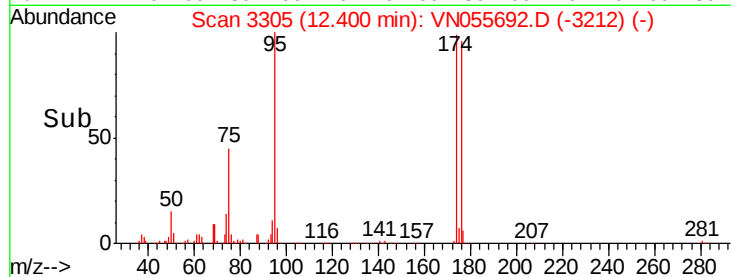
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

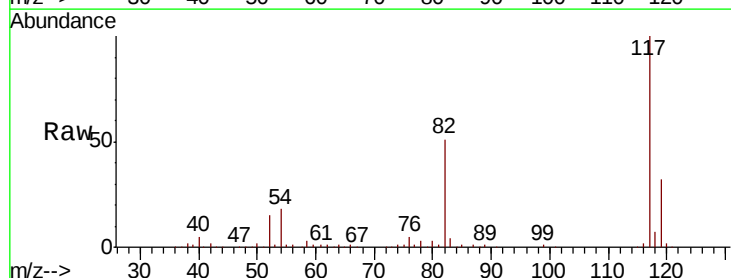
Tgt Ion: 117 Resp: 512133

Ion Ratio Lower Upper

117 100

82 51.2 42.3 63.5

119 32.3 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN055601.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055601.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055601.D (-2981) (-)

11.41

400000

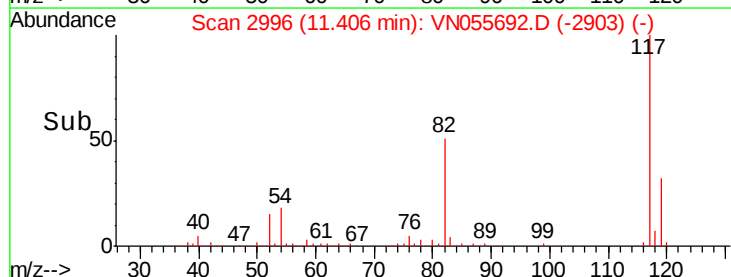
300000

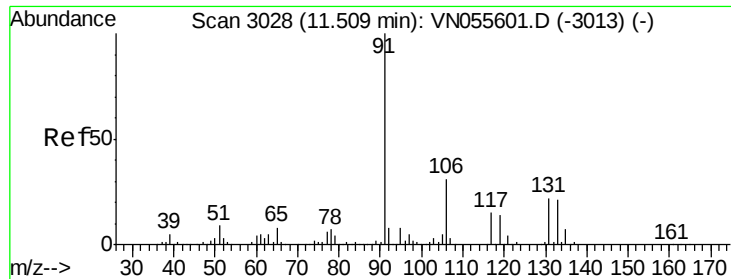
200000

100000

0

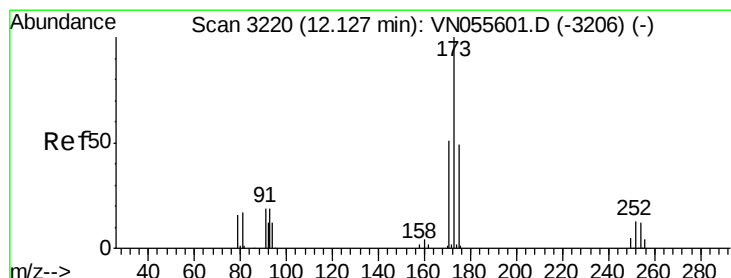
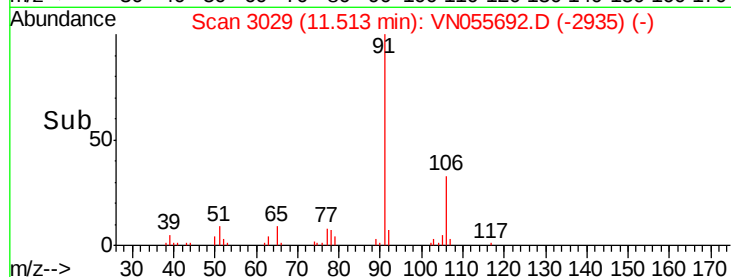
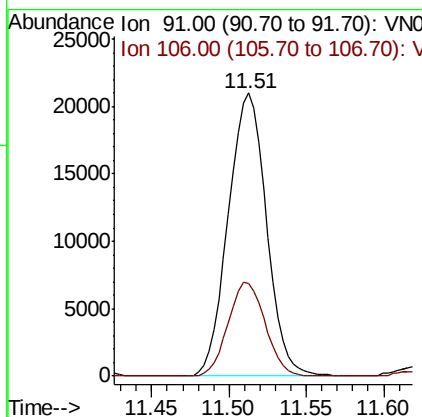
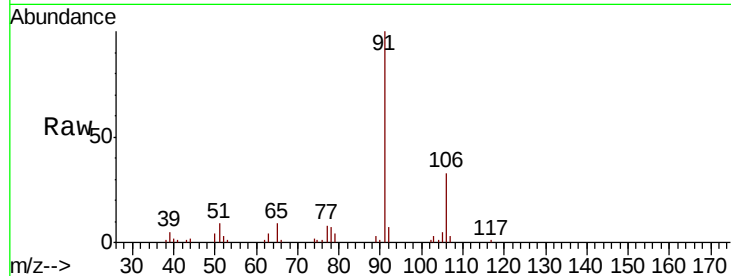
Time--> 11.30 11.40 11.50





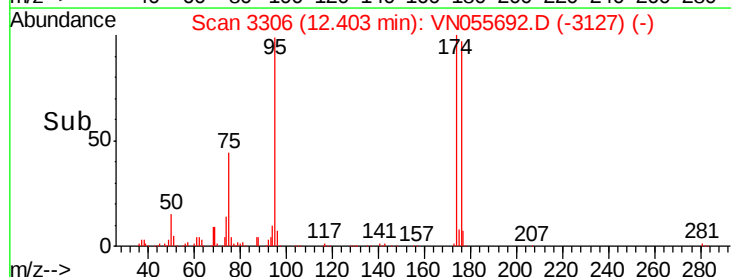
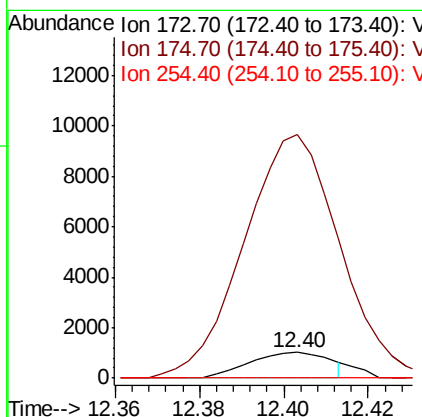
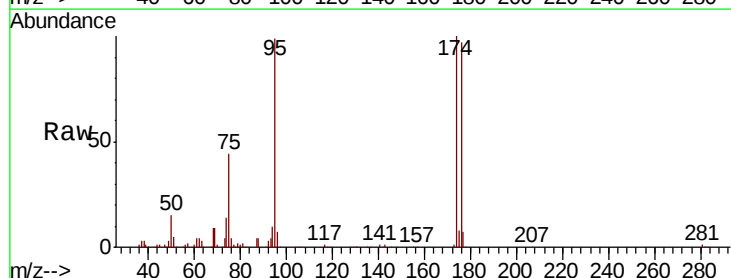
#67
Ethyl Benzene
Concen: 1.954 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

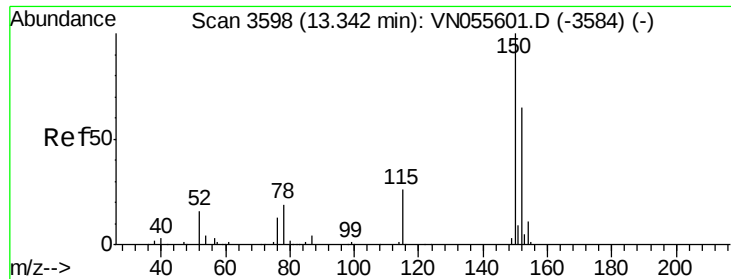
Tot Ion: 91 Resp: 36057
Ion Ratio Lower Upper
91 100
106 32.9 25.2 37.8



#71
Bromoform
Concen: 0.387 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tgt Ion: 173 Resp: 1366
Ion Ratio Lower Upper
173 100
175 985.7 24.3 72.9#
254 0.0 0.1 0.1#

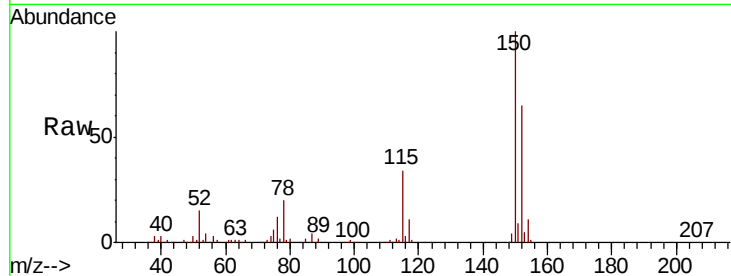




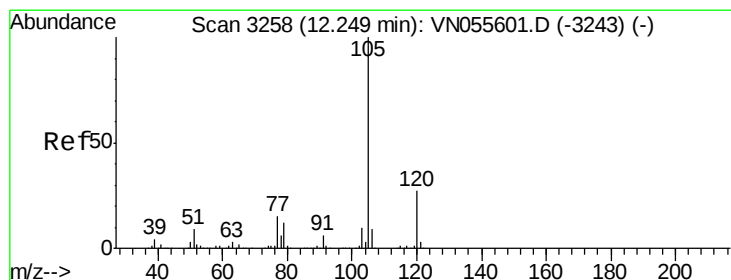
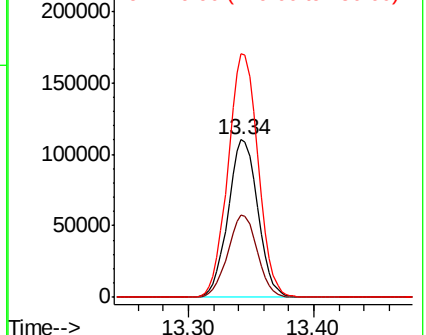
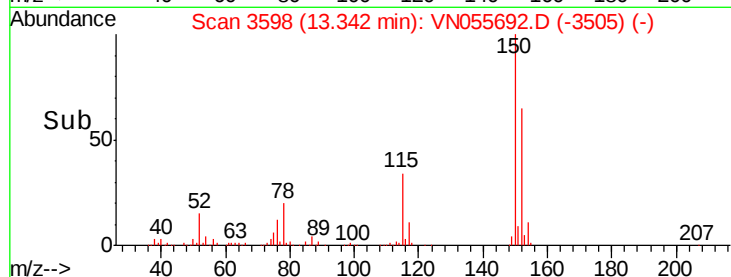
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.0	28.1	84.2
150	156.1	0.0	348.0



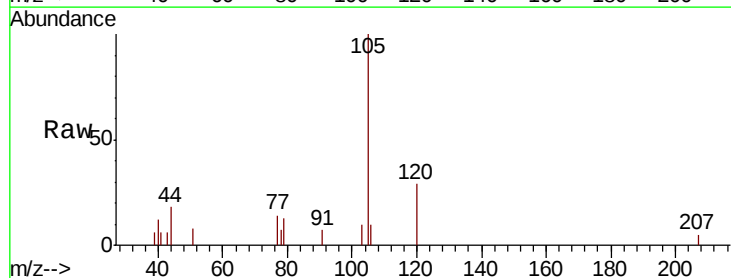
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



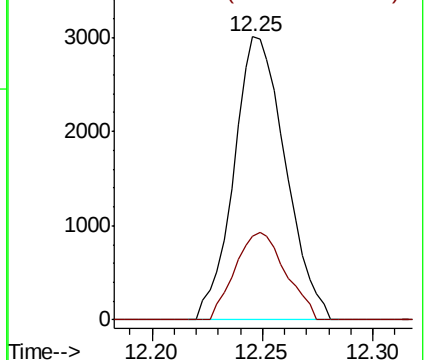
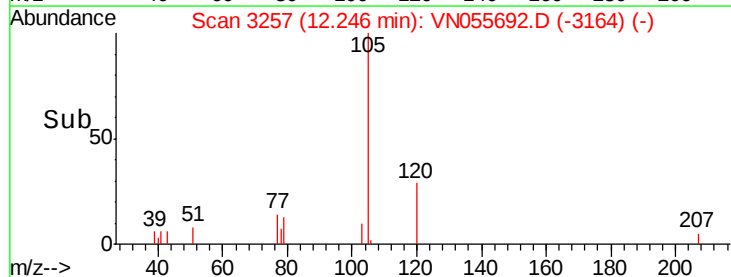
#73

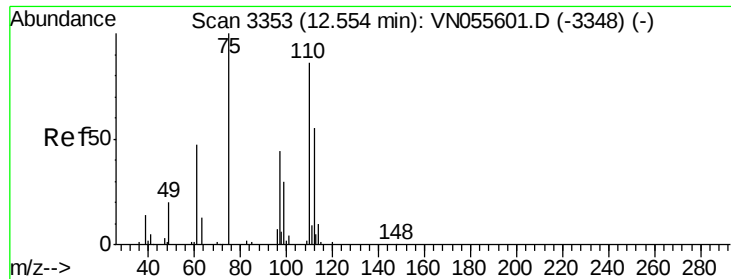
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.2	13.4	40.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 25.407 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055692.D

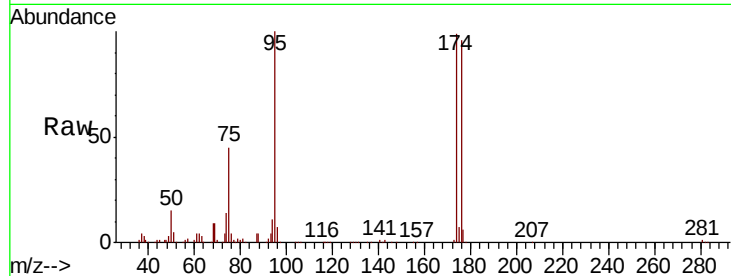
Acq: 21 May 2019 00:44

Tot Ion: 75 Resp: 93990

Ion Ratio Lower Upper

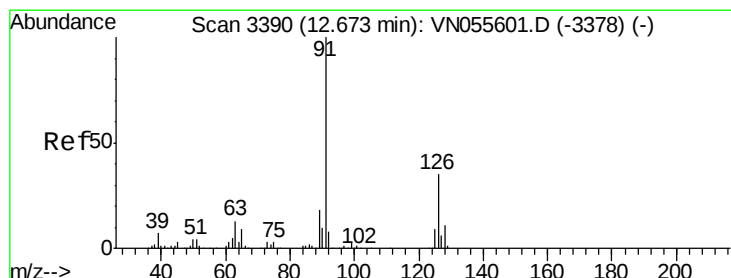
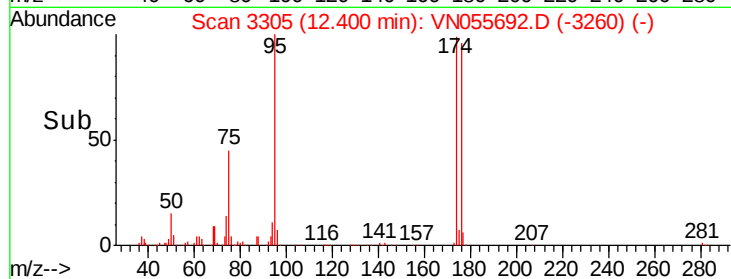
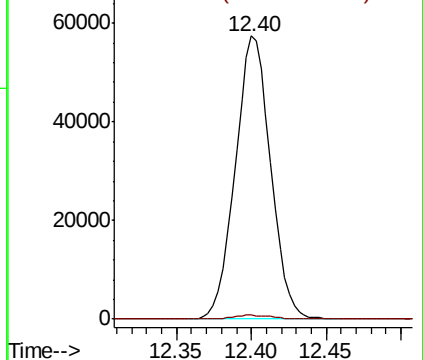
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3385

Delta R.T. -0.02 min

Lab File: VN055692.D

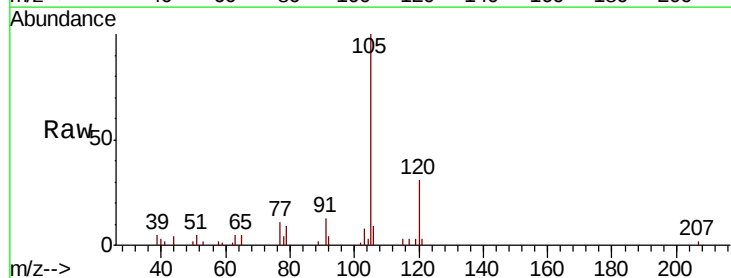
Acq: 21 May 2019 00:44

Tgt Ion: 91 Resp: 2894

Ion Ratio Lower Upper

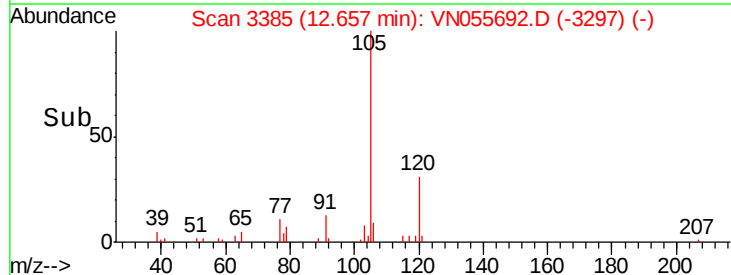
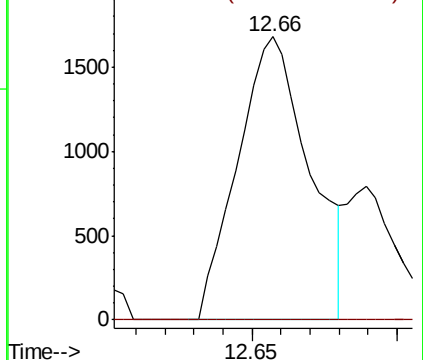
91 100

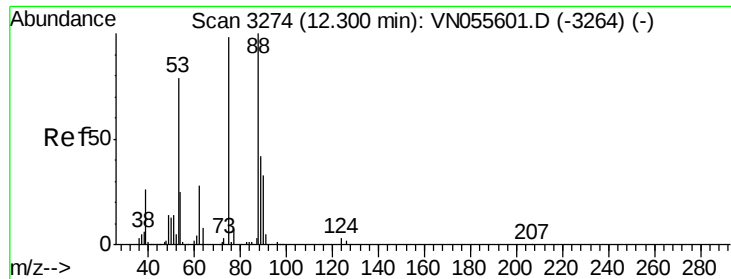
126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 65.311 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

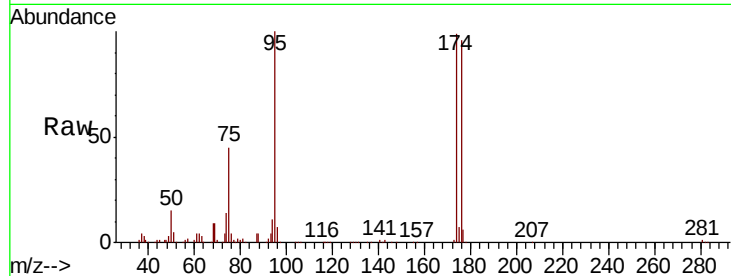
Tot Ion: 75 Resp: 93990

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

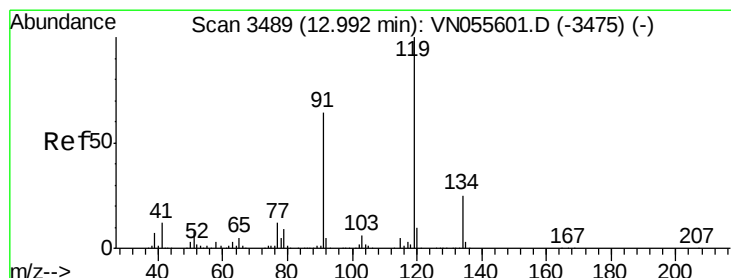
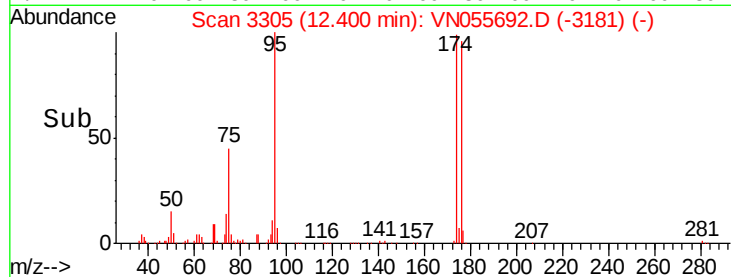
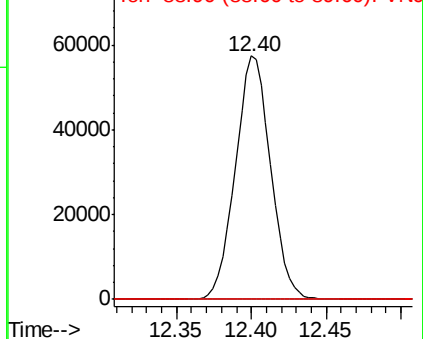
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055692.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055692.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055692.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.90 min Scan# 3459

Delta R.T. -0.10 min

Lab File: VN055692.D

Acq: 21 May 2019 00:44

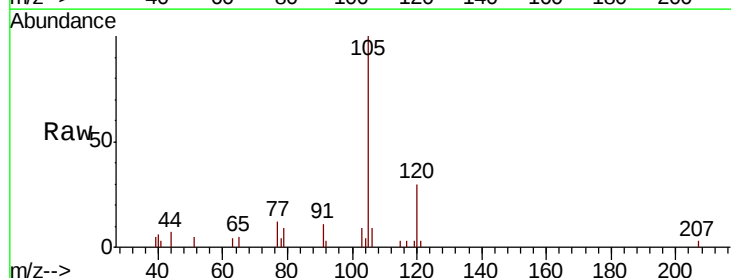
Tgt Ion: 119 Resp: 98

Ion Ratio Lower Upper

119 100

91 1192.9 31.3 93.8#

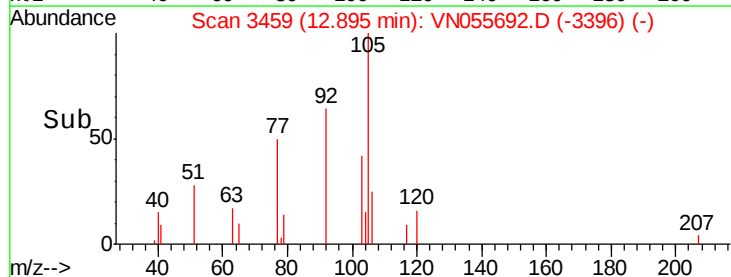
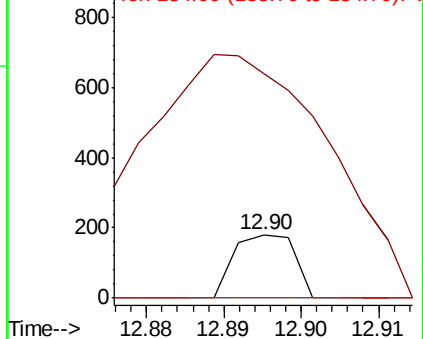
134 0.0 13.2 39.6#

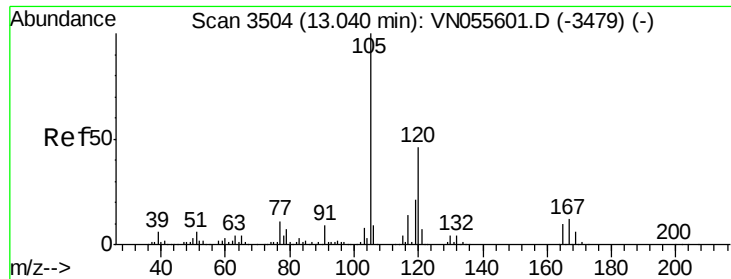


Abundance Ion 119.00 (118.70 to 119.70): VN055692.D (-3459) (-)

Ion 91.00 (90.70 to 91.70): VN055692.D (-3459) (-)

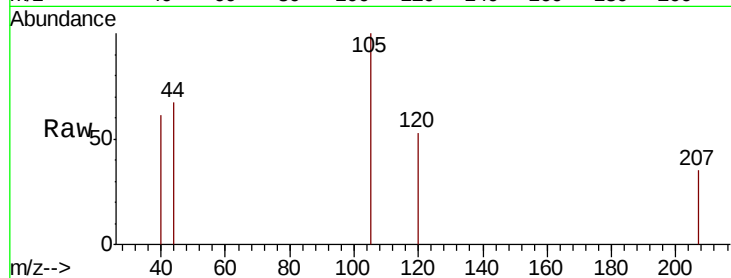
Ion 134.00 (133.70 to 134.70): VN055692.D (-3459) (-)



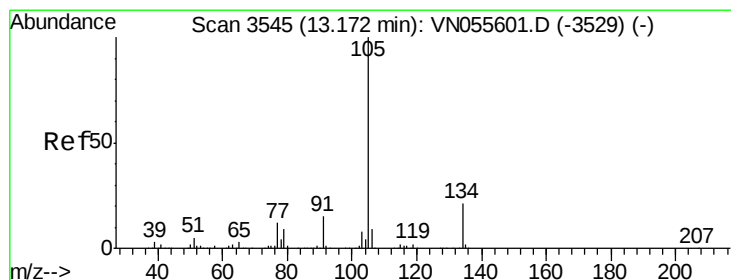
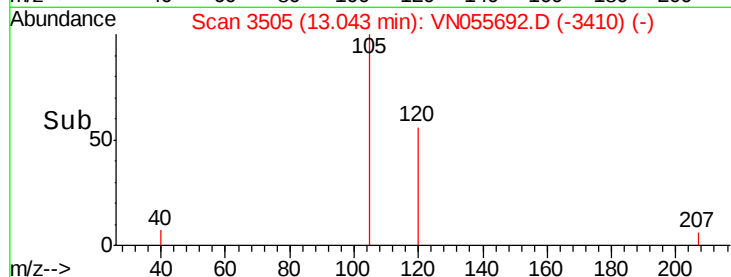
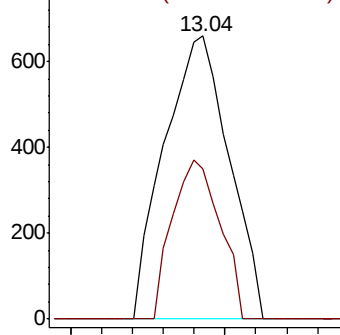


#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tot Ion:105 Resp: 962
Ion Ratio Lower Upper
105 100
120 41.5 23.1 69.2

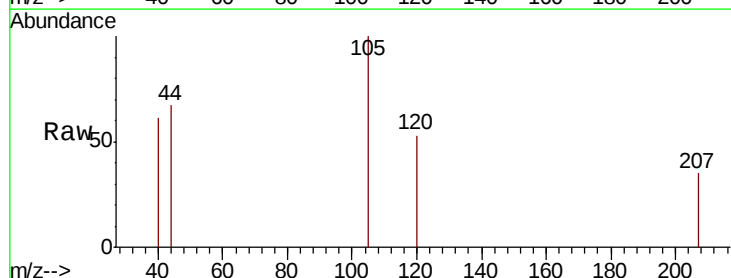


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

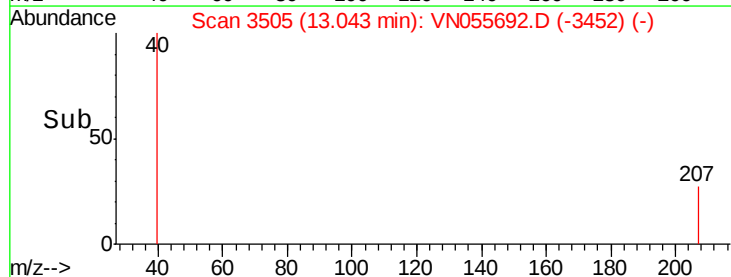
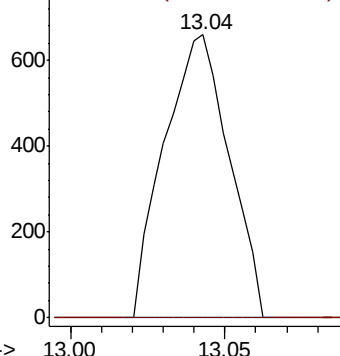


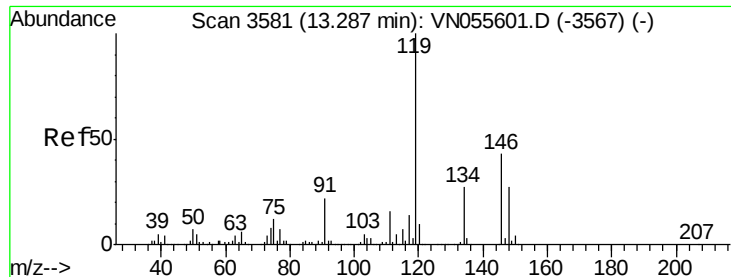
#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3505
Delta R.T. -0.13 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tgt Ion:105 Resp: 962
Ion Ratio Lower Upper
105 100
134 0.0 10.3 30.9#



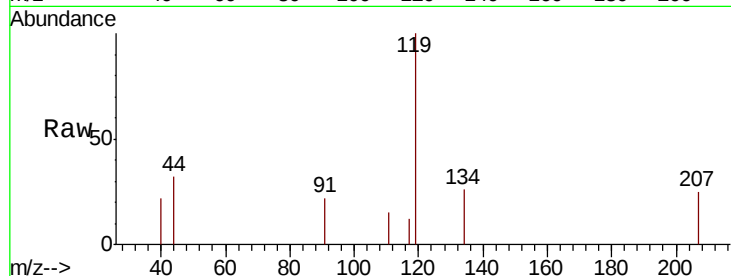
Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



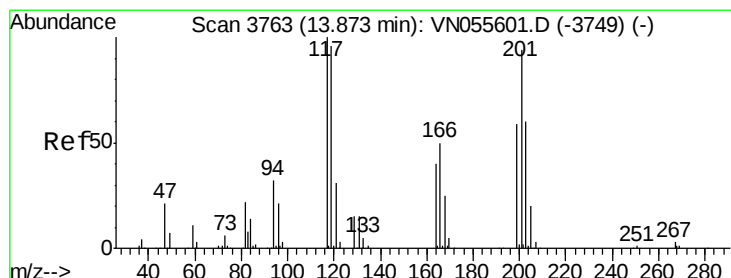
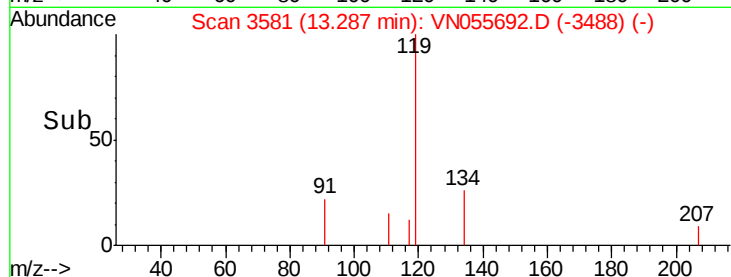
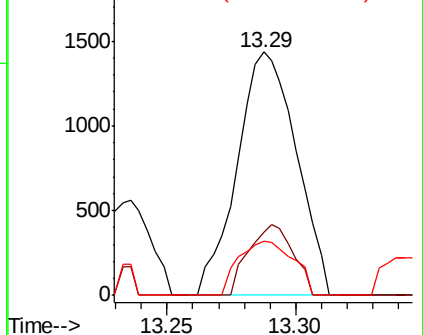


#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055692.D
 Acq: 21 May 2019 00:44

Tot Ion	Ratio	Lower	Upper
119	100		
134	21.9	13.4	40.2
91	20.7	11.0	33.0

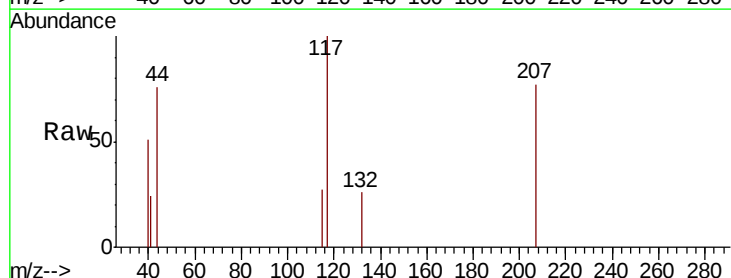


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

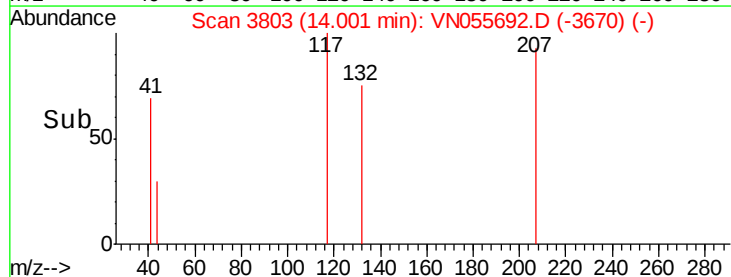
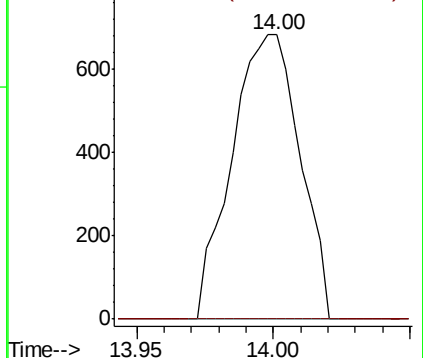


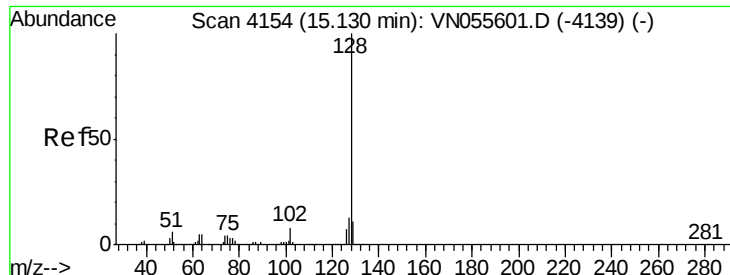
#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.00 min Scan# 3803
 Delta R.T. 0.13 min
 Lab File: VN055692.D
 Acq: 21 May 2019 00:44

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	47.1	141.3#



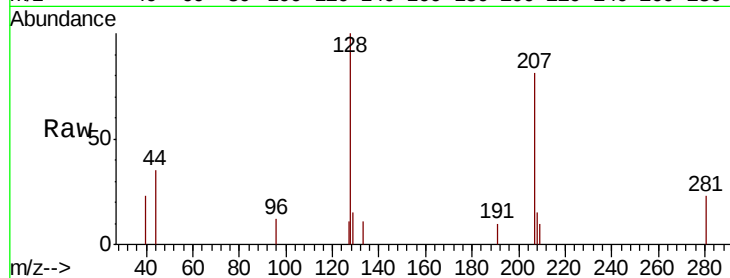
Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 2.069 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN055692.D
Acq: 21 May 2019 00:44

Tot Ion:128 Resp: 2975
Ion Ratio Lower Upper
128 100
127 10.0 10.2 15.4#
129 7.7 8.6 12.8#



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

