

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055618.D
 Acq On : 17 May 2019 18:20
 Operator : JC/SP
 Sample : K2903-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:11:13 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	412770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	594482	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	490745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189793	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	199189	44.02	ug/l	0.00
Spiked Amount			Recovery	=	88.04%	
35) Dibromofluoromethane	7.59	113	182691	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	10.09	98	686004	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
62) 4-Bromofluorobenzene	12.40	95	211689	42.93	ug/l	0.00
Spiked Amount			Recovery	=	85.86%	

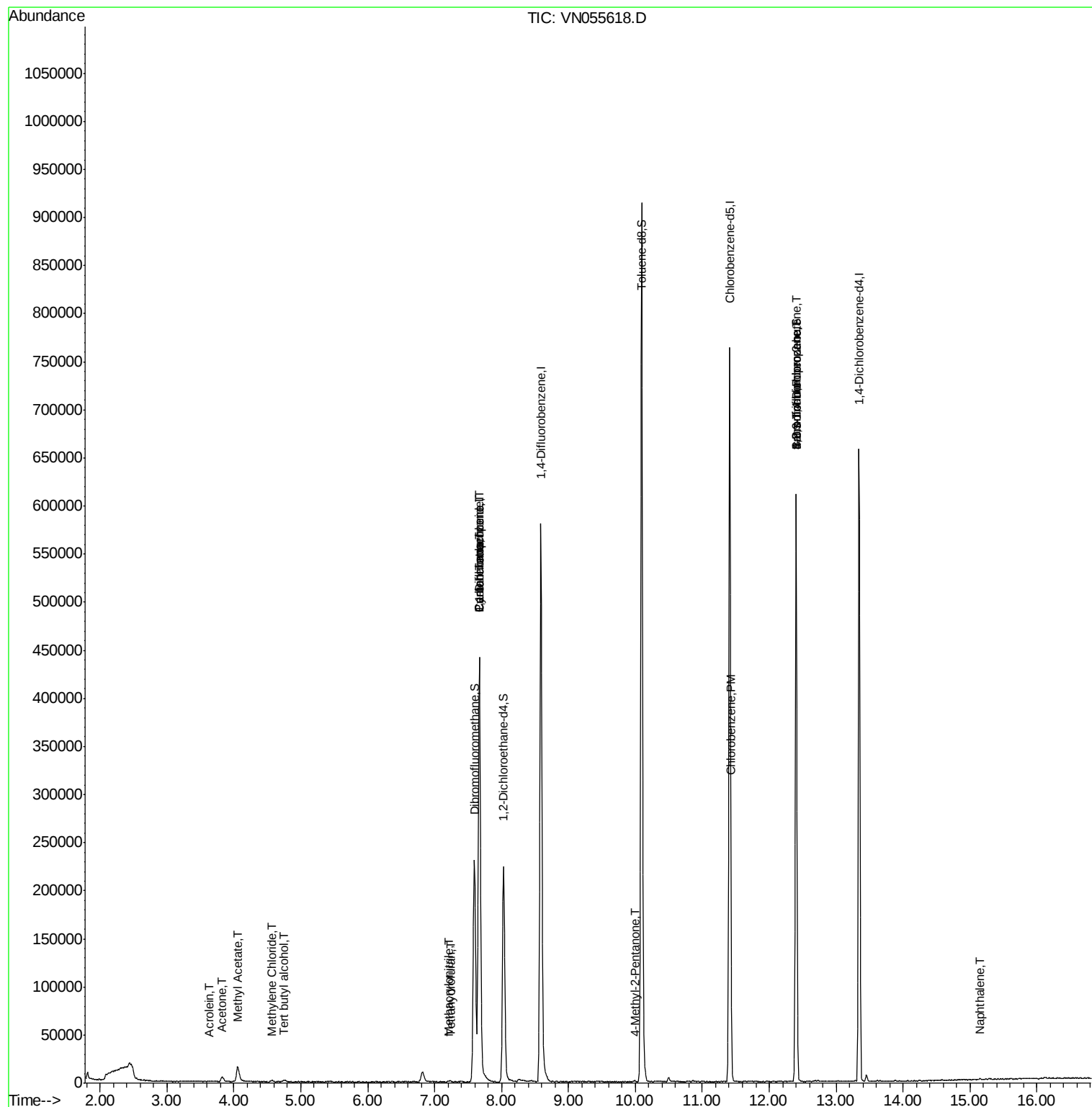
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	2043	2.421	ug/l #	74
13) Acrolein	3.62	56	194	1.810	ug/l #	75
16) Acetone	3.82	43	8711	4.717	ug/l	99
18) Methyl Acetate	4.06	43	4179	1.056	ug/l #	50
20) Methylene Chloride	4.56	84	1427	0.339	ug/l #	82
29) Tetrahydrofuran	7.23	42	1261	0.737	ug/l #	46
31) Cyclohexane	7.67	56	6615	0.986	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25514	4.814	ug/l #	49
38) Carbon Tetrachloride	7.67	117	35120	6.201	ug/l #	15
41) Methacrylonitrile	7.20	41	425	0.208	ug/l #	100
51) 4-Methyl-2-Pentanone	9.99	43	1064	0.218	ug/l #	82
65) Chlorobenzene	11.44	112	3267	0.329	ug/l	91
71) Bromoform	12.41	173	1350	0.399	ug/l #	1
73) Isopropylbenzene	12.24	105	258	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.79	83	30	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	98518	25.439	ug/l #	100
79) 2-Chlorotoluene	12.67	91	348	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	371	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	98518	65.392	ug/l #	17
83) tert-Butylbenzene	12.99	119	141	Below Cal	#	54
84) 1,2,4-Trimethylbenzene	13.04	105	572	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	580	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	644	Below Cal	#	51
95) Naphthalene	15.14	128	1149	1.877	ug/l #	69

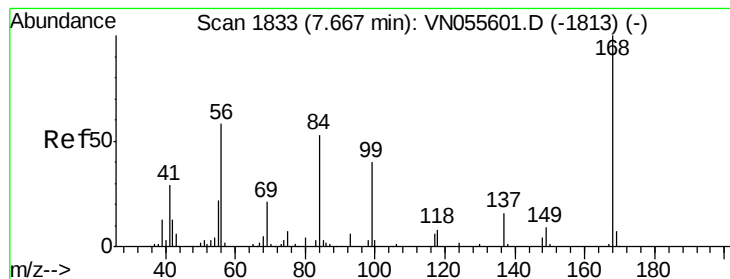
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051719\
Data File : VN055618.D
Acq On : 17 May 2019 18:20
Operator : JC/SP
Sample : K2903-03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: May 18 03:11:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

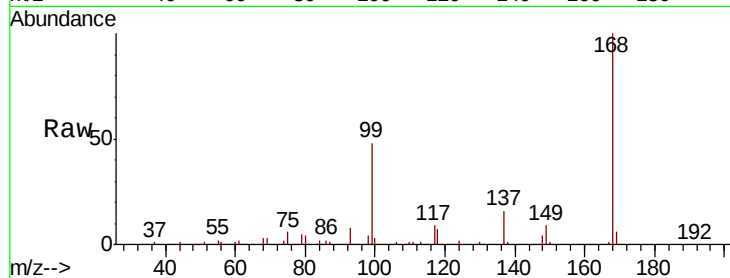
ClientSampleId :

Tot Ion:168 Resp: 412770

Ion Ratio Lower Upper

168 100

99 47.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055618.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055618.D (-1740) (-)

7.67

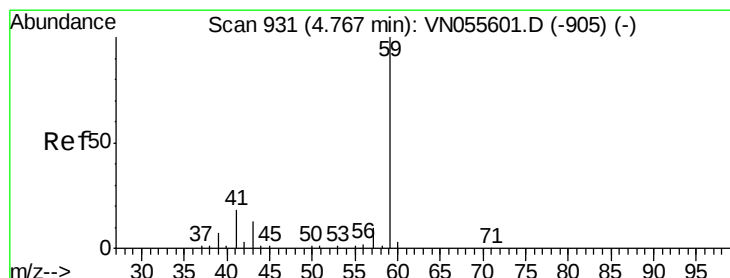
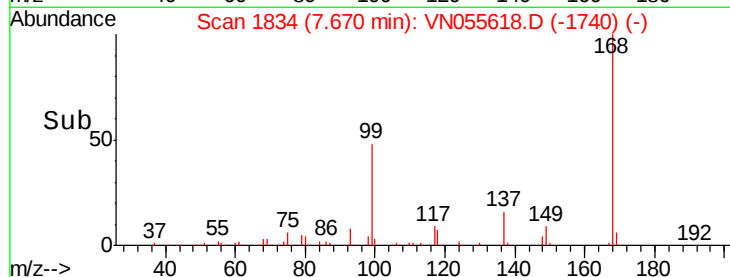
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.421 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.02 min

Lab File: VN055618.D

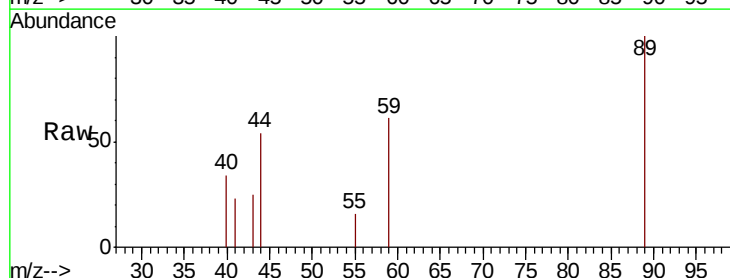
Acq: 17 May 2019 18:20

Tgt Ion: 59 Resp: 2043

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055618.D (-838) (-)

Ion 57.00 (56.70 to 57.70): VN055618.D (-838) (-)

4.75

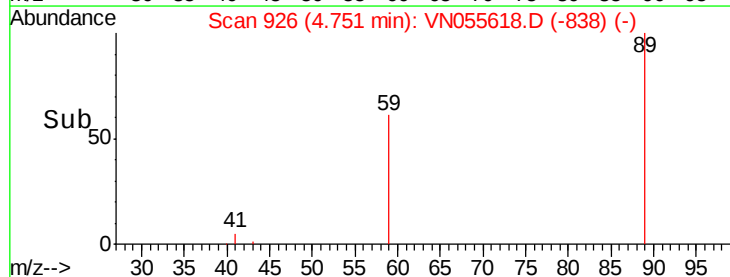
600

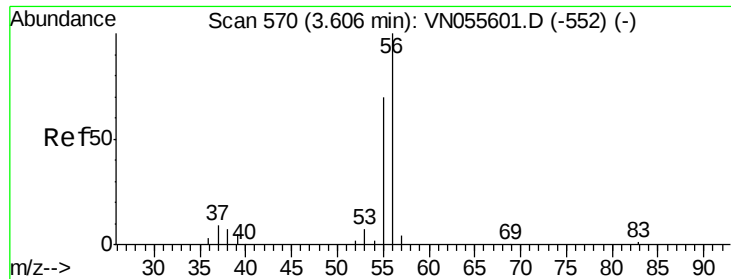
400

200

0

Time-->





#13

Acrolein

Concen: 1.810 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

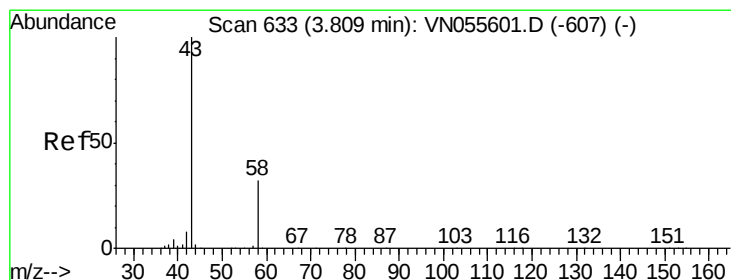
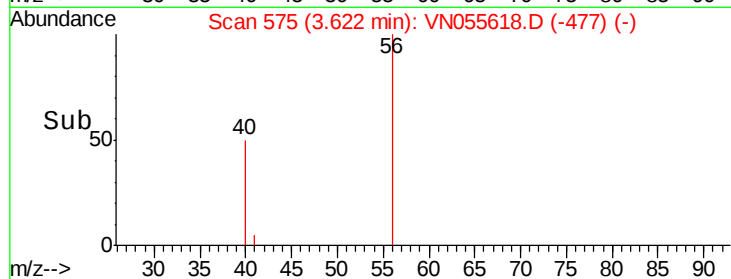
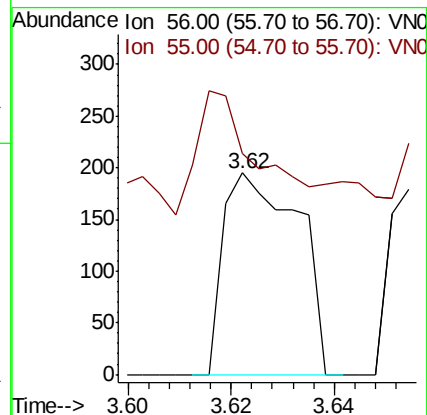
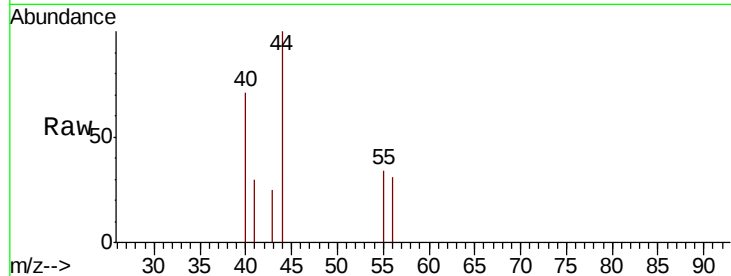
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 194

Ion Ratio Lower Upper

56 100

55 50.0 56.5 84.7#



#16

Acetone

Concen: 4.717 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN055618.D

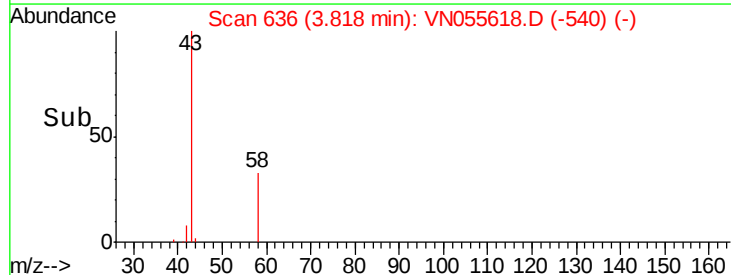
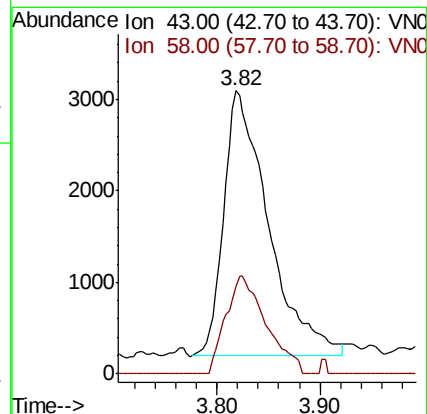
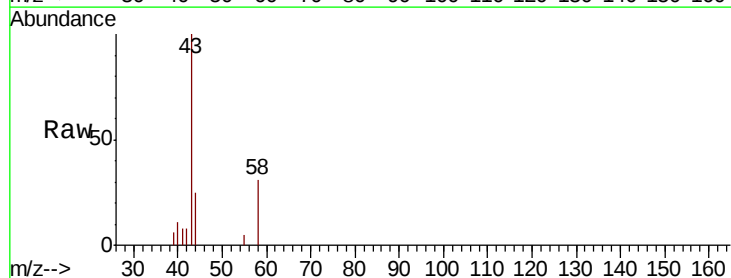
Acq: 17 May 2019 18:20

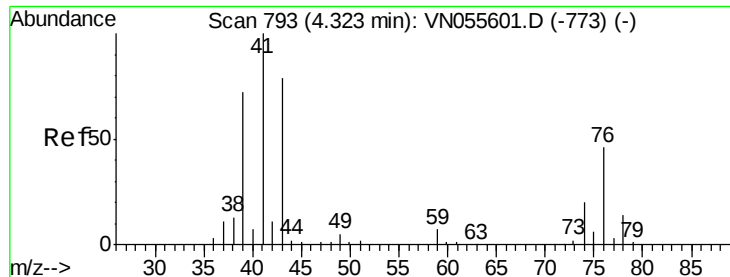
Tgt Ion: 43 Resp: 8711

Ion Ratio Lower Upper

43 100

58 33.1 26.0 39.0

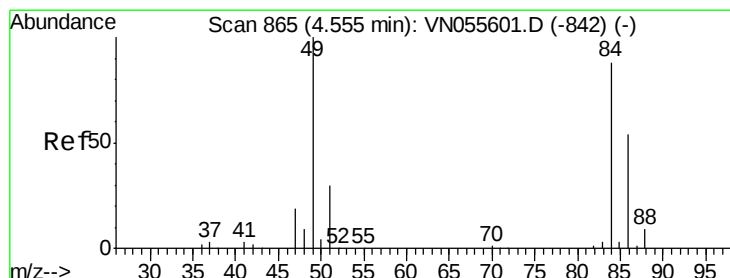
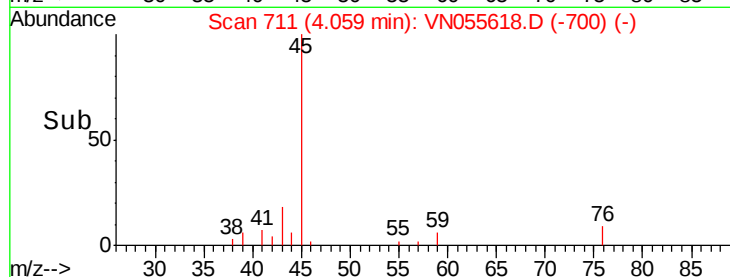
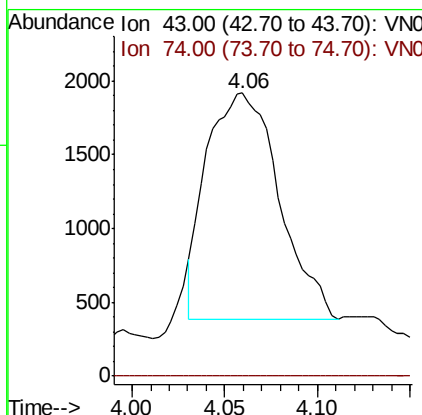
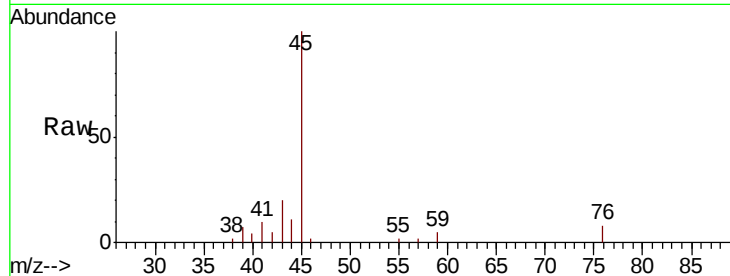




#18
Methyl Acetate
Concen: 1.056 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.26 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

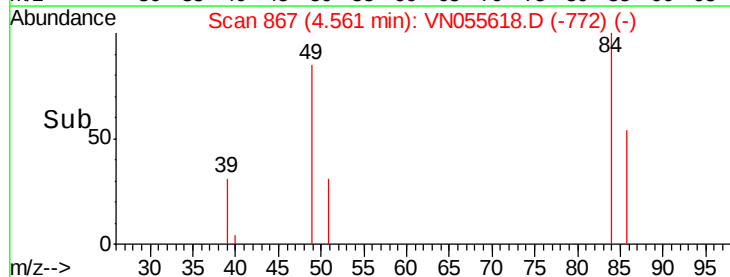
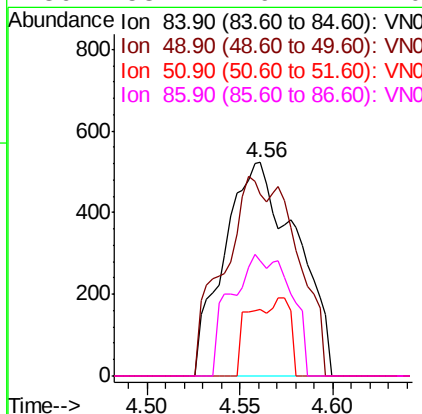
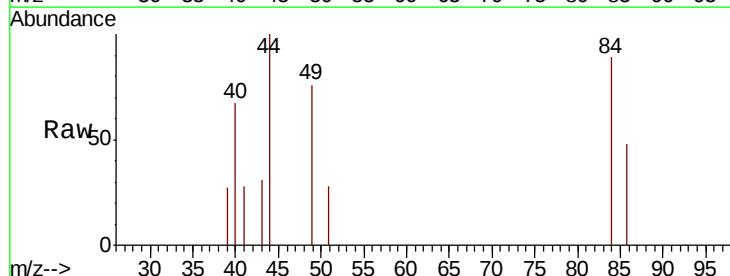
Instrument :
MSVOA_N
ClientSampled :

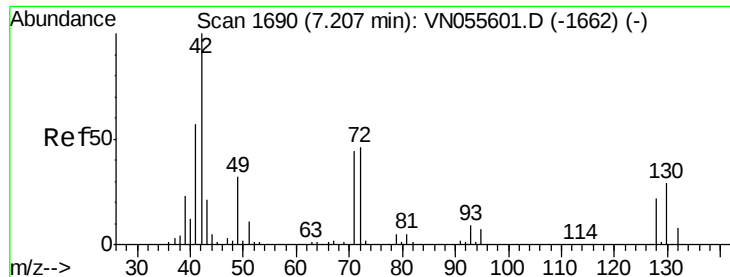
Tot Ion: 43 Resp: 4179
Ion Ratio Lower Upper
43 100
74 0.0 19.9 29.9#



#20
Methylene Chloride
Concen: 0.339 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

Tgt Ion: 84 Resp: 1427
Ion Ratio Lower Upper
84 100
49 84.9 91.0 136.4#
51 31.4 27.5 41.3
86 53.7 49.4 74.0





#29

Tetrahydrofuran

Concen: 0.737 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

ClientSampled :

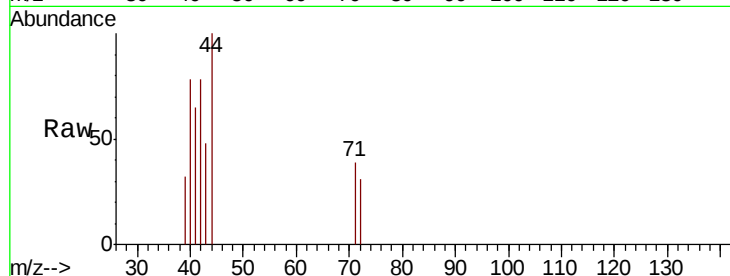
Tot Ion: 42 Resp: 1261

Ion Ratio Lower Upper

42 100

72 5.0 36.5 54.7#

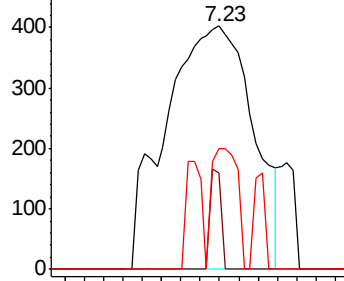
71 14.3 34.9 52.3#



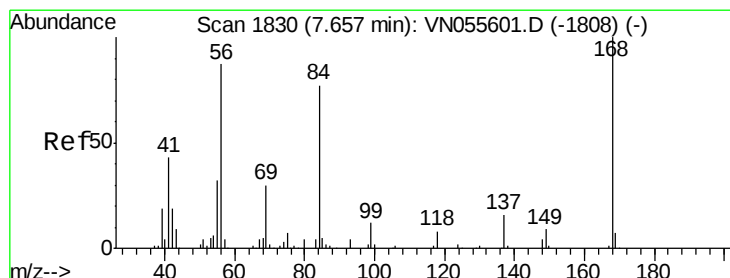
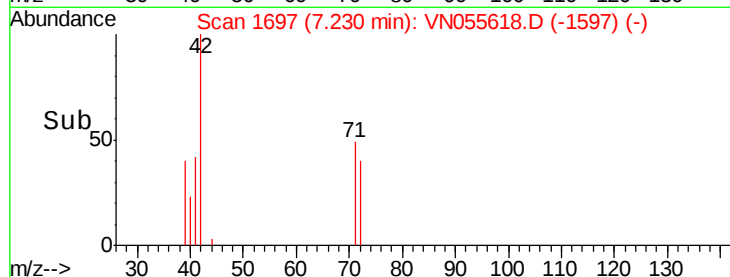
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time--> 7.15 7.20 7.25



#31

Cyclohexane

Concen: 0.986 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

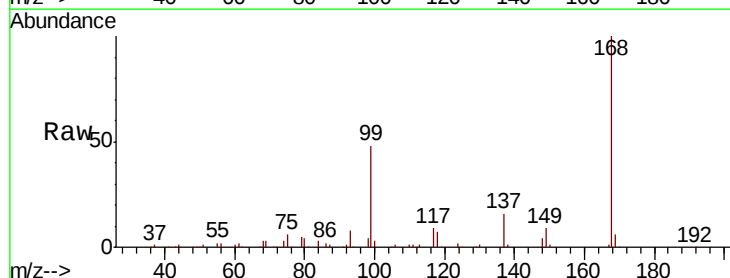
Tgt Ion: 56 Resp: 6615

Ion Ratio Lower Upper

56 100

69 195.2 27.2 40.8#

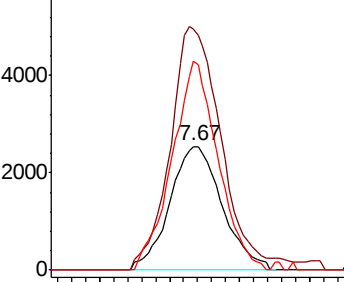
84 169.4 71.3 106.9#



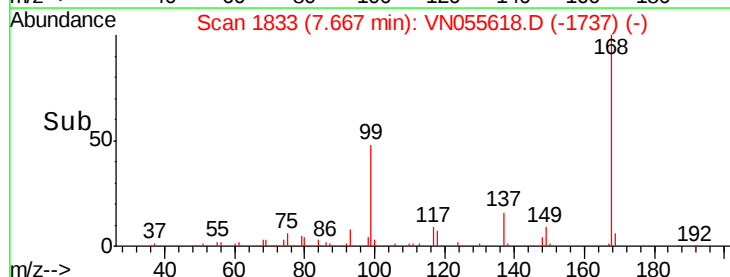
Abundance Ion 56.00 (55.70 to 56.70): VN0

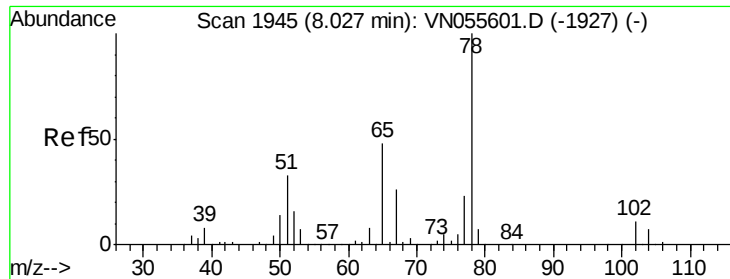
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time--> 7.60 7.65 7.70 7.75

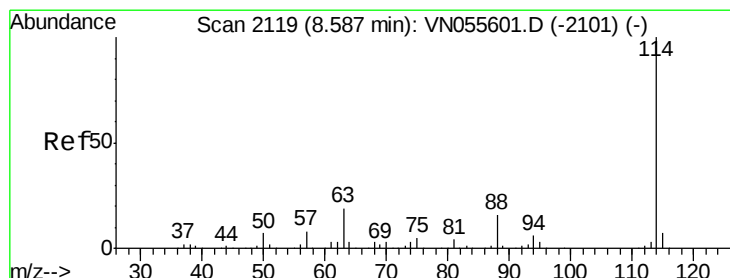
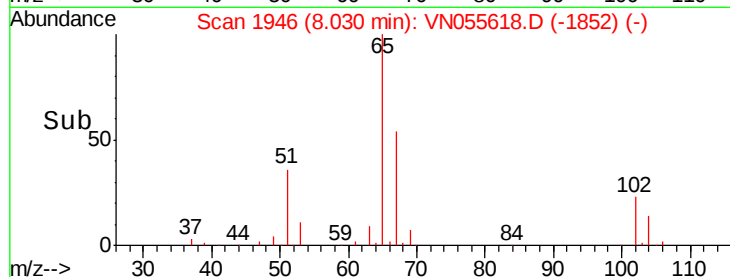
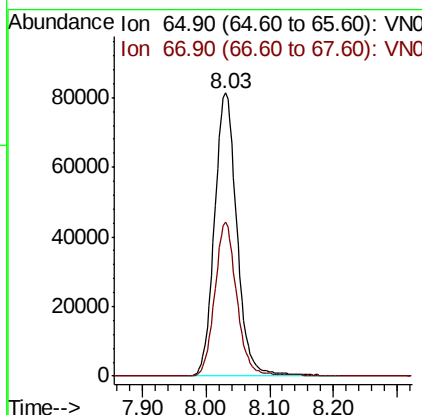
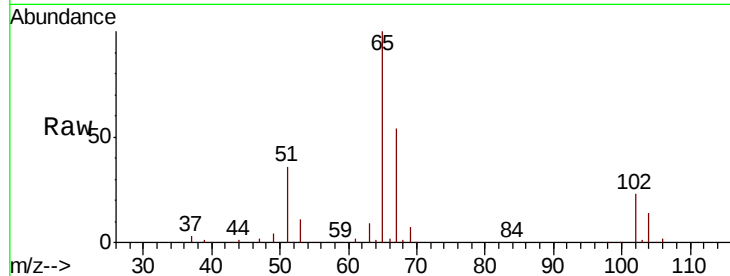




#33
 1,2-Dichloroethane-d4
 Concen: 44.022 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055618.D
 Acq: 17 May 2019 18:20

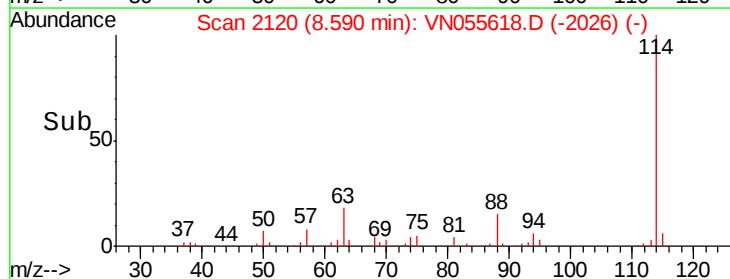
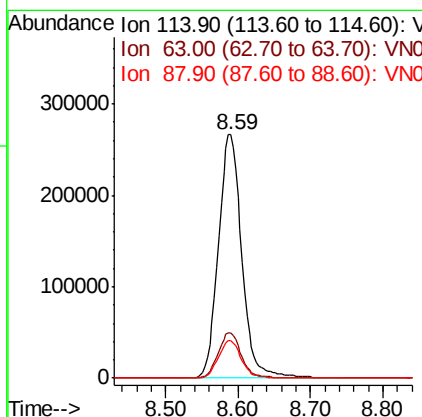
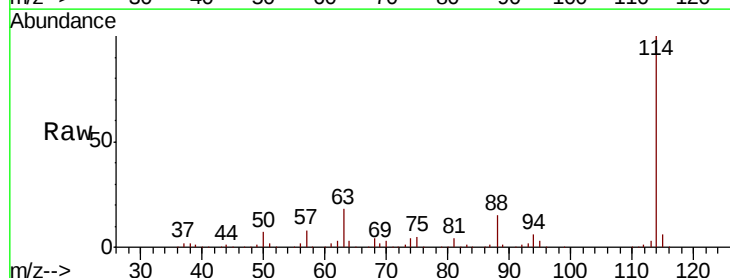
Instrument :
 MSVOA_N
 ClientSampleId :

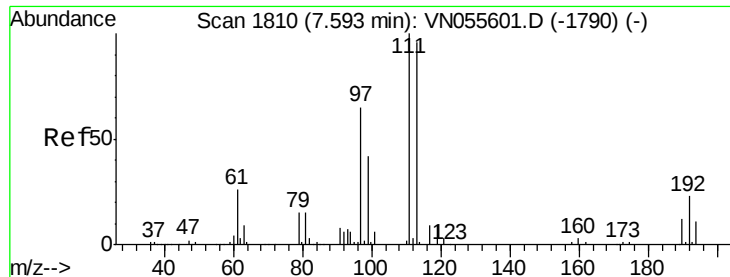
Tot Ion: 65 Resp: 199189
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN055618.D
 Acq: 17 May 2019 18:20

Tgt Ion: 114 Resp: 594482
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 38.2
 88 15.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.377 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

ClientSampleId :

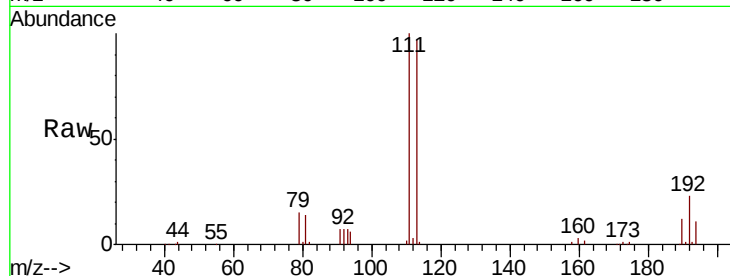
Tot Ion:113 Resp: 182691

Ion Ratio Lower Upper

113 100

111 102.5 82.5 123.7

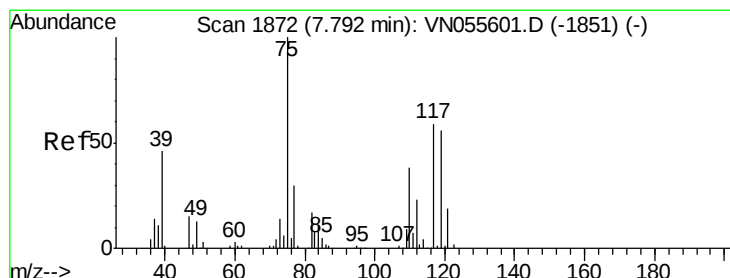
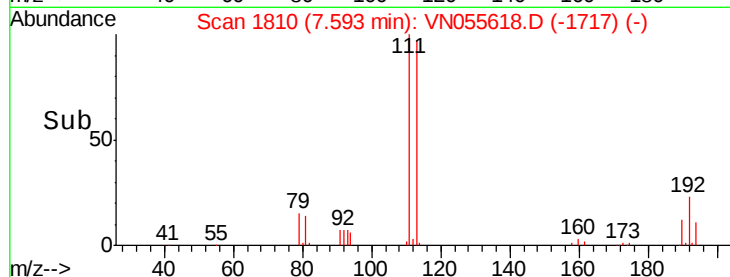
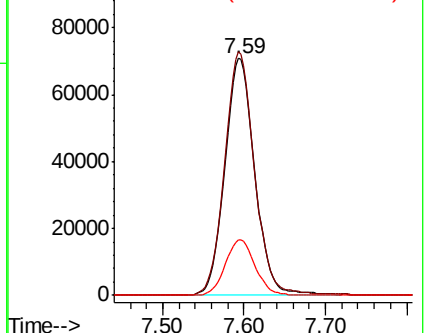
192 23.4 18.7 28.1



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: 4.814 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

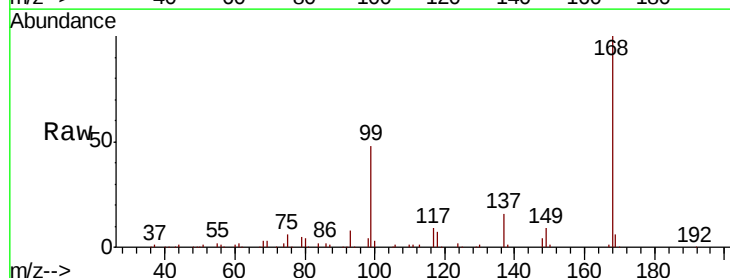
Tgt Ion: 75 Resp: 25514

Ion Ratio Lower Upper

75 100

110 9.4 18.6 55.6#

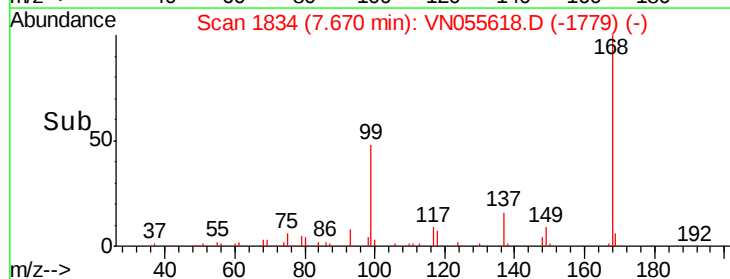
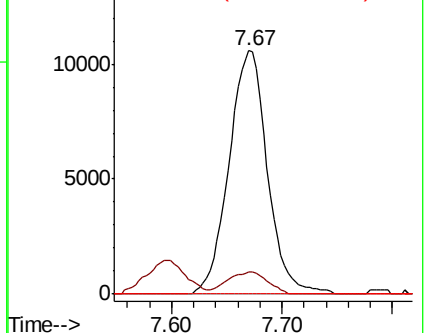
77 0.0 24.9 37.3#

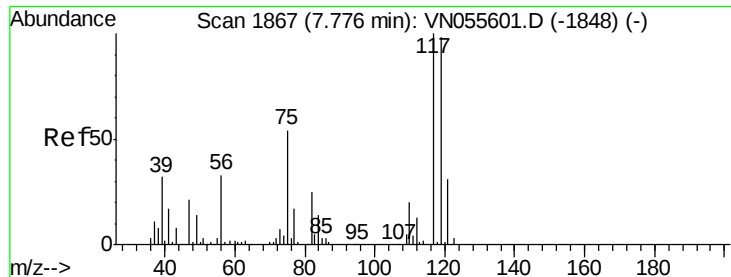


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.201 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

ClientSampleId :

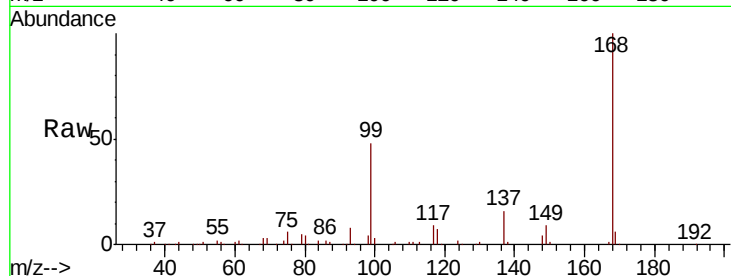
Tot Ion:117 Resp: 35120

Ion Ratio Lower Upper

117 100

119 5.0 77.8 116.8#

121 0.0 24.6 37.0#

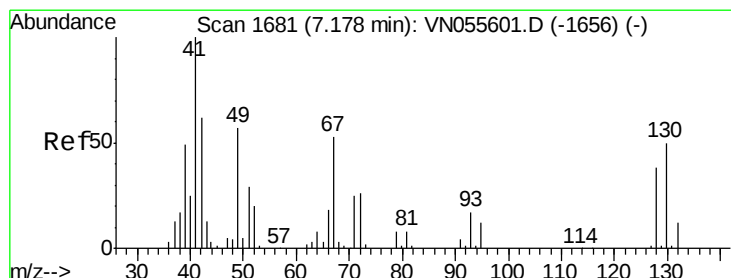
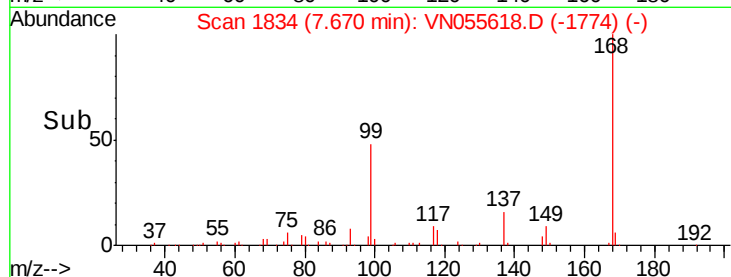
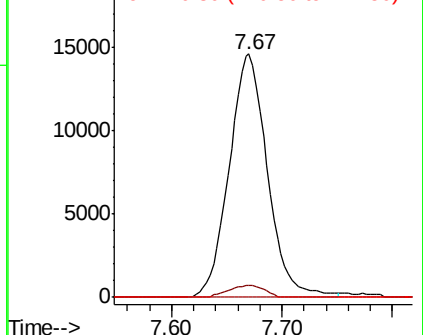


Abundance

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



#41

Methacrylonitrile

Concen: 0.208 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.03 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Tgt Ion: 41 Resp: 425

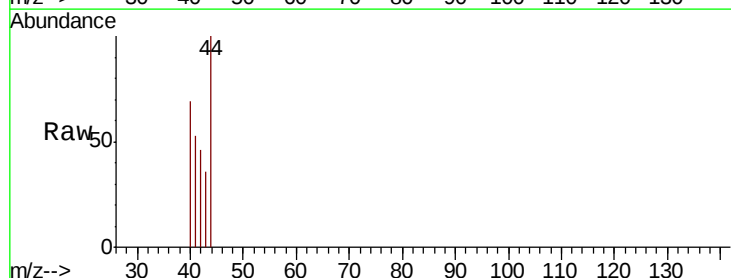
Ion Ratio Lower Upper

41 100

39 6.8 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0



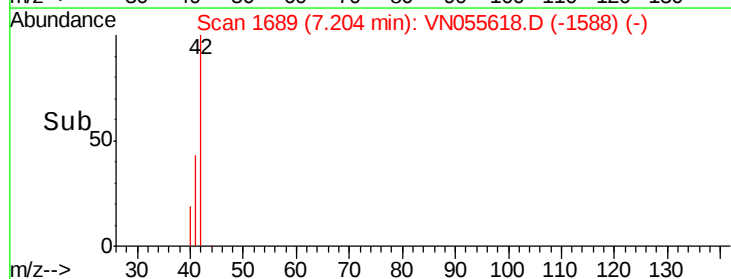
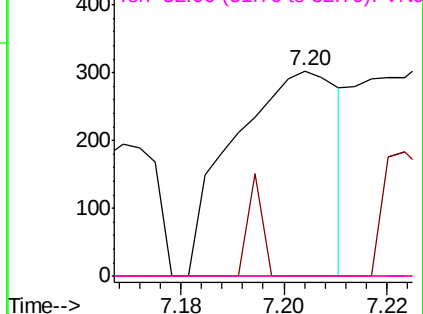
Abundance

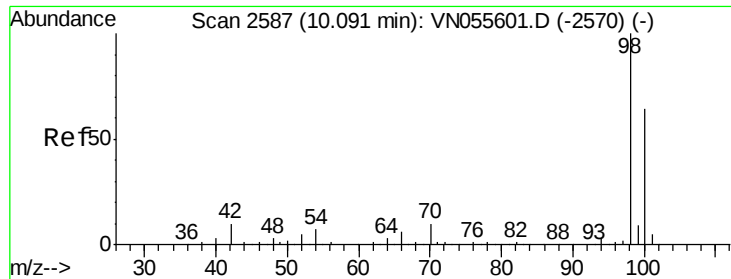
Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#50

Toluene-d8

Concen: 48.042 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

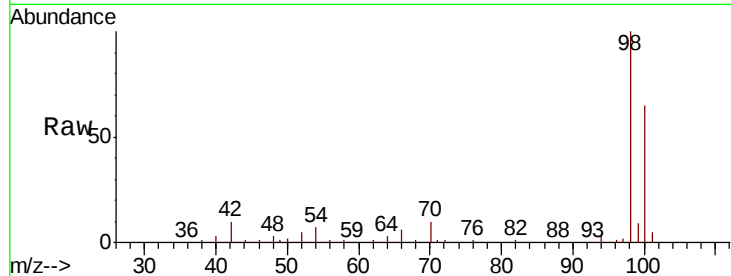
ClientSampled :

Tot Ion: 98 Resp: 686004

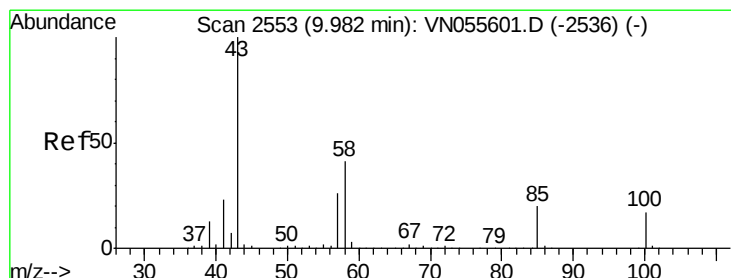
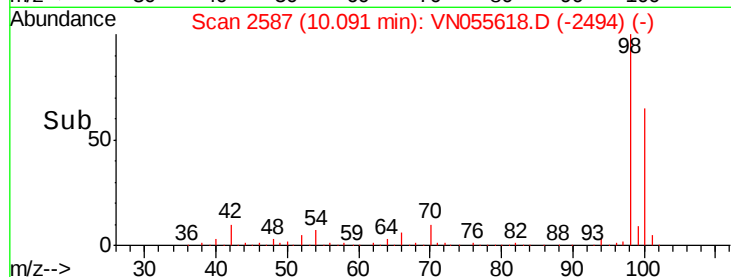
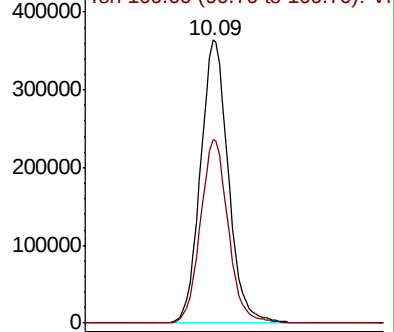
Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055618.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.218 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN055618.D

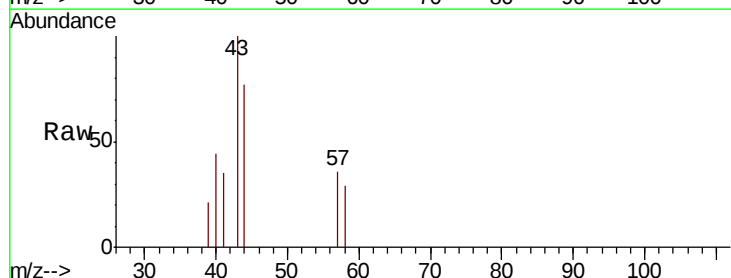
Acq: 17 May 2019 18:20

Tgt Ion: 43 Resp: 1064

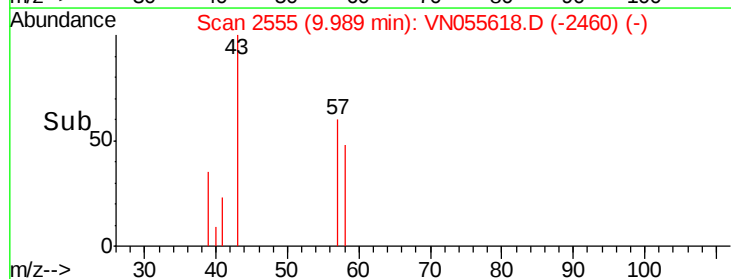
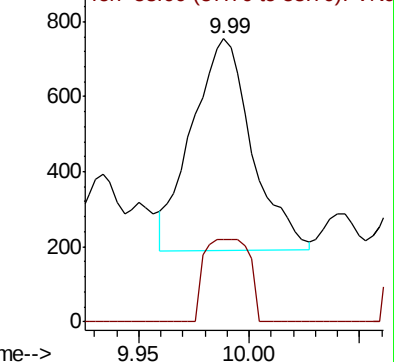
Ion Ratio Lower Upper

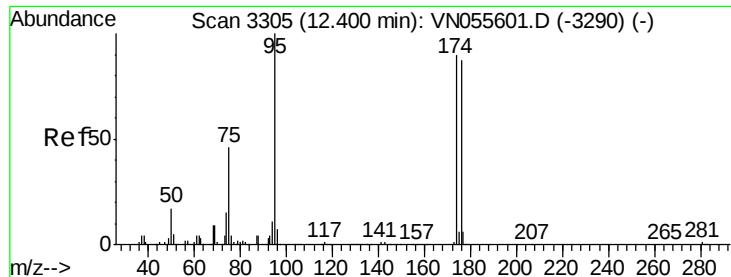
43 100

58 29.7 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055618.D (-2460) (-)





#62

4-Bromofluorobenzene

Concen: 42.932 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

ClientSampleId :

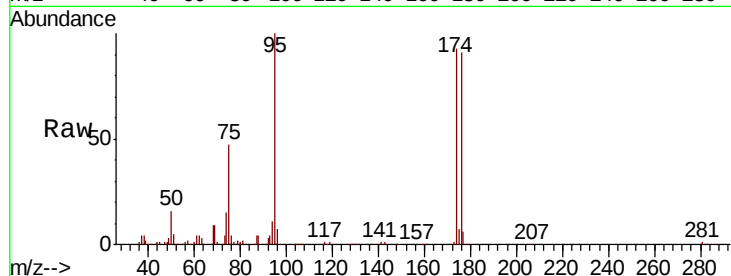
Tot Ion: 95 Resp: 211689

Ion Ratio Lower Upper

95 100

174 93.1 0.0 180.6

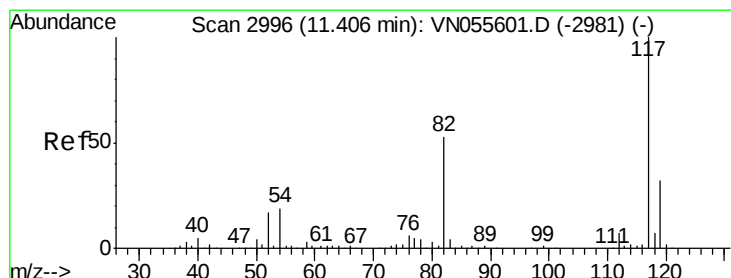
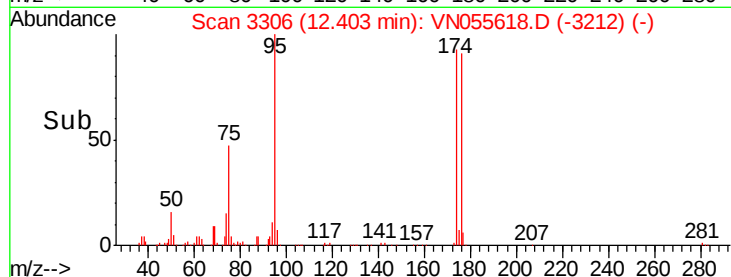
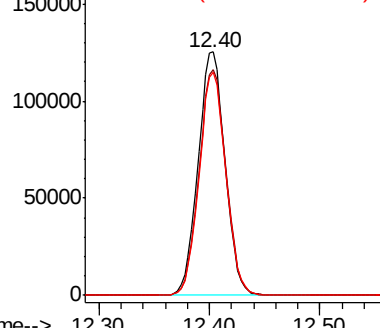
176 90.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

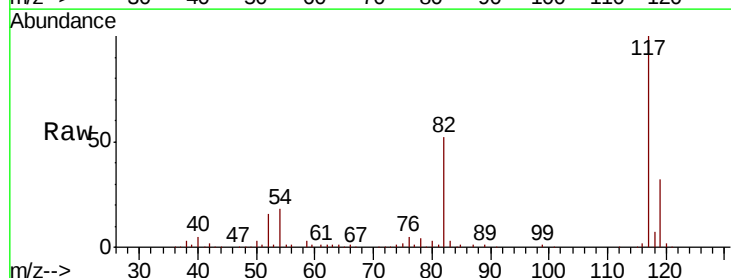
Tgt Ion: 117 Resp: 490745

Ion Ratio Lower Upper

117 100

82 52.0 42.3 63.5

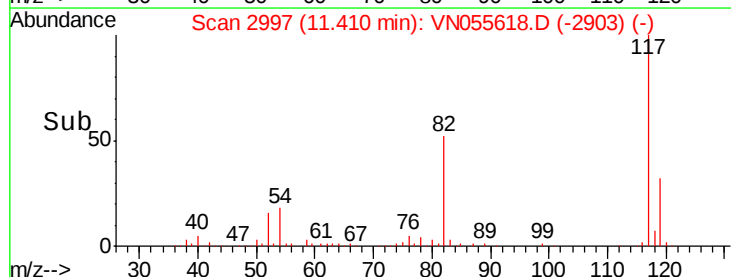
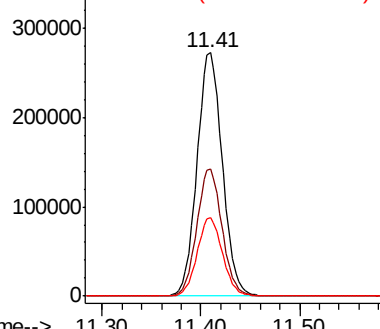
119 32.0 25.4 38.2

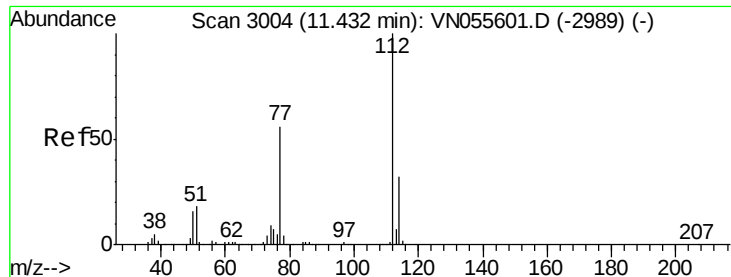


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#65

Chlorobenzene

Concen: 0.329 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

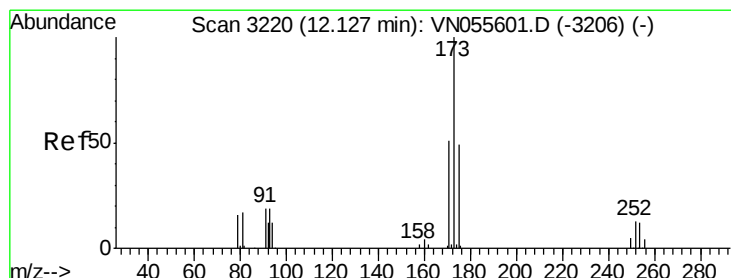
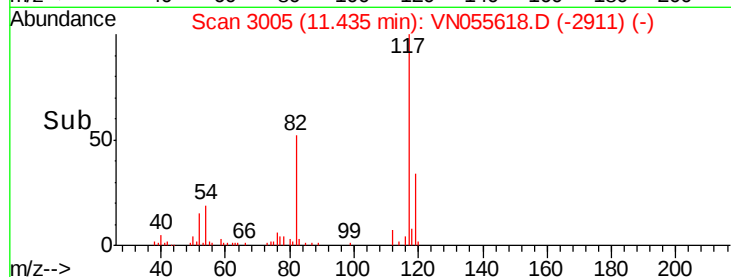
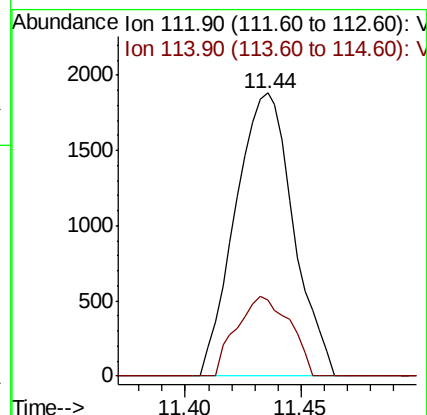
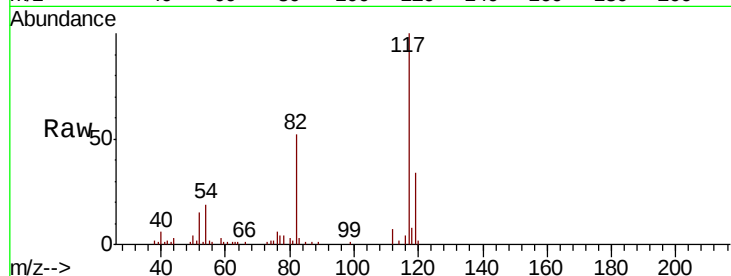
ClientSampleId :

Tot Ion:112 Resp: 3267

Ion Ratio Lower Upper

112 100

114 27.1 25.6 38.4



#71

Bromoform

Concen: 0.399 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

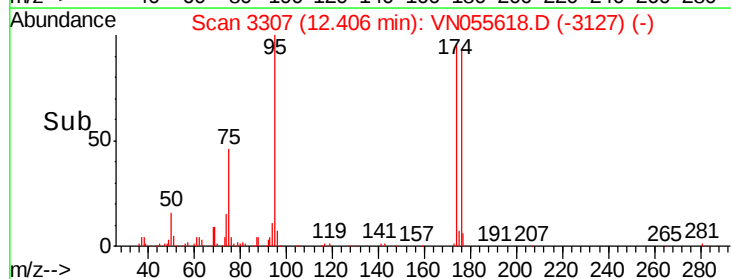
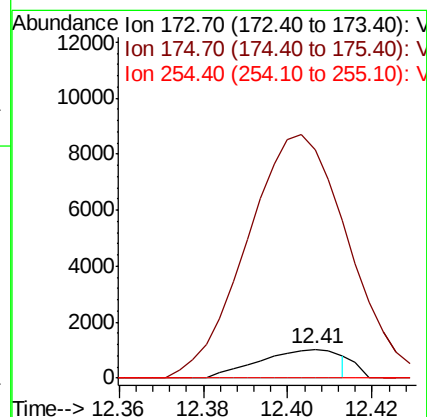
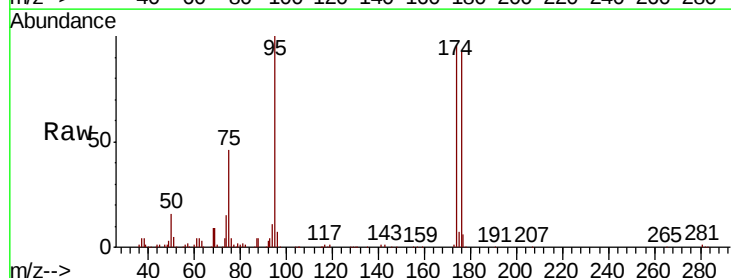
Tgt Ion:173 Resp: 1350

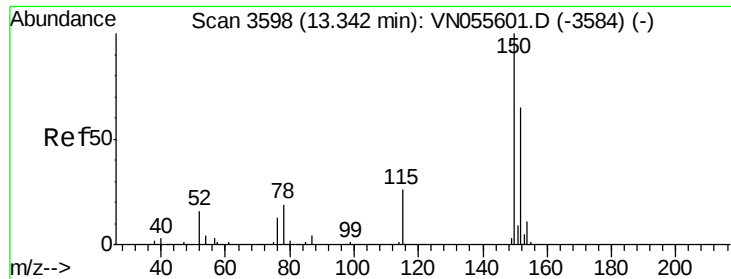
Ion Ratio Lower Upper

173 100

175 926.1 24.3 72.9#

254 0.0 0.1 0.1#



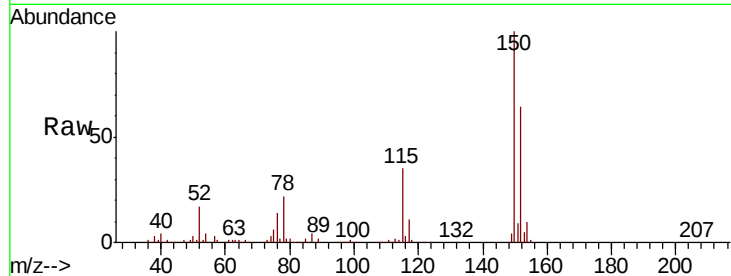


#72

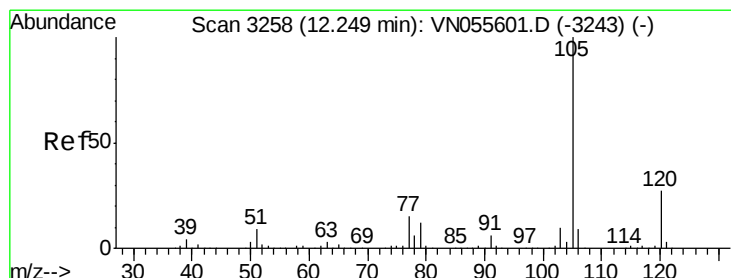
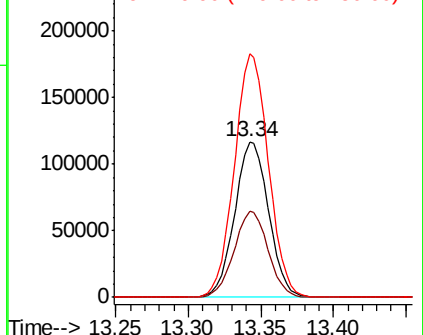
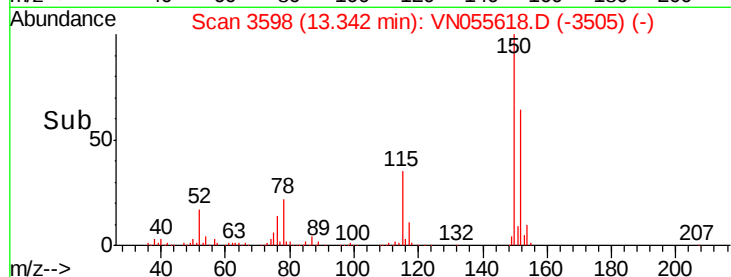
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 189793
Ion Ratio Lower Upper
152 100
115 55.3 28.1 84.2
150 157.0 0.0 348.0



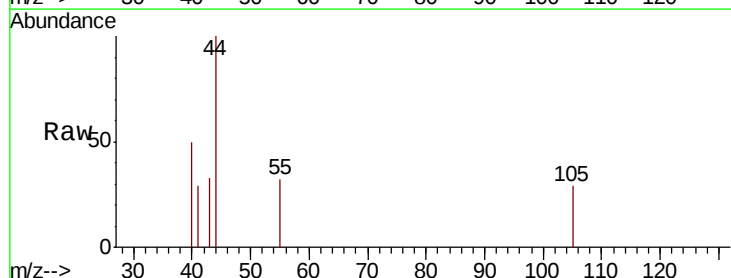
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



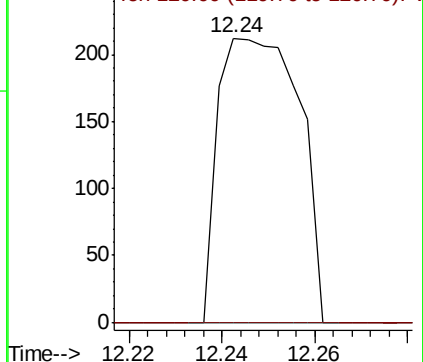
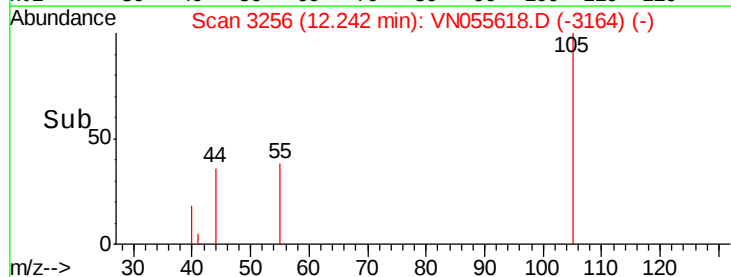
#73

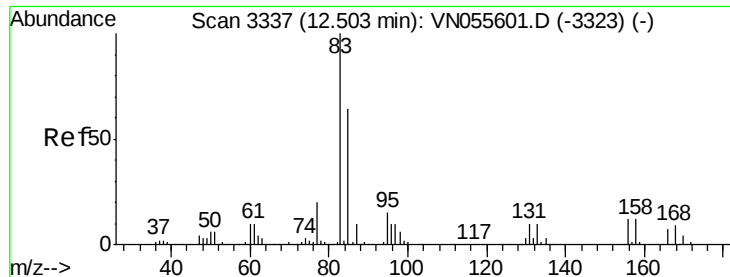
Isopropylbenzene
Concen: Below Cal
RT: 12.24 min Scan# 3256
Delta R.T. -0.01 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

Tgt Ion:105 Resp: 258
Ion Ratio Lower Upper
105 100
120 0.0 13.4 40.2#



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.79 min Scan# 3425

Delta R.T. 0.28 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

ClientSampleId :

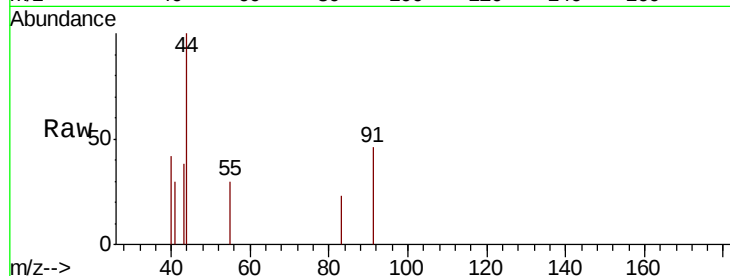
Tot Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 0.0 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.79

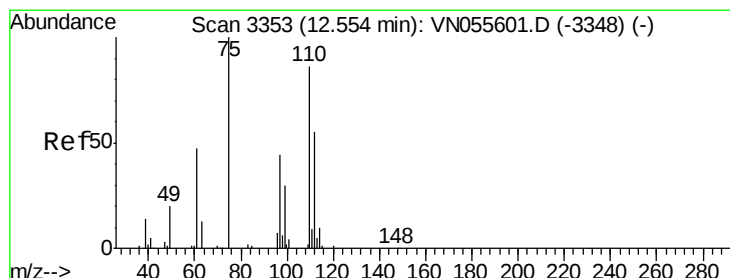
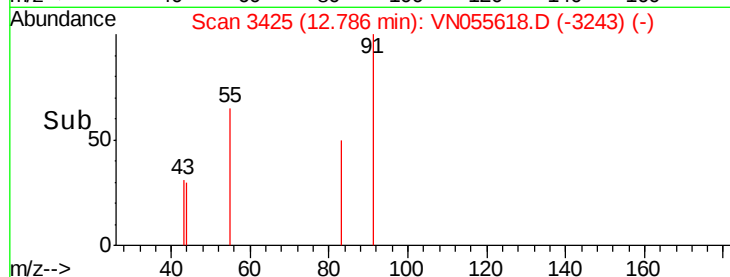
150

100

50

0

Time--> 12.78 12.78 12.79 12.79



#76

1,2,3-Trichloropropane

Concen: 25.439 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055618.D

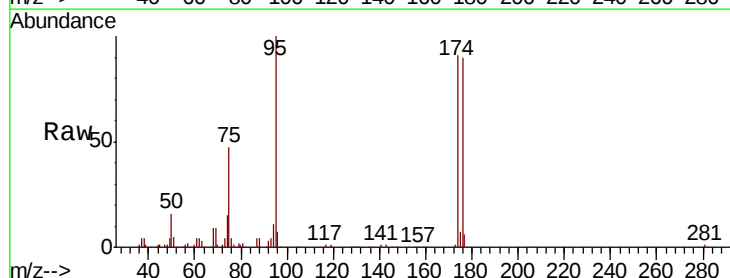
Acq: 17 May 2019 18:20

Tgt Ion: 75 Resp: 98518

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

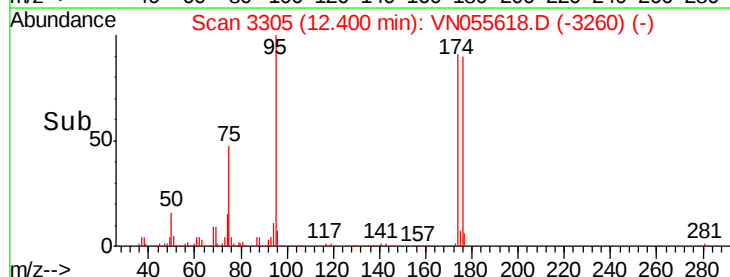
60000

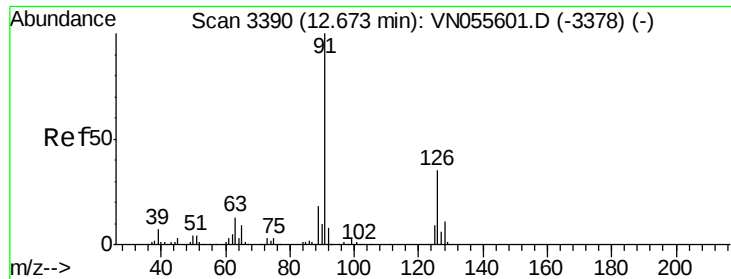
40000

20000

0

Time--> 12.35 12.40 12.45





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

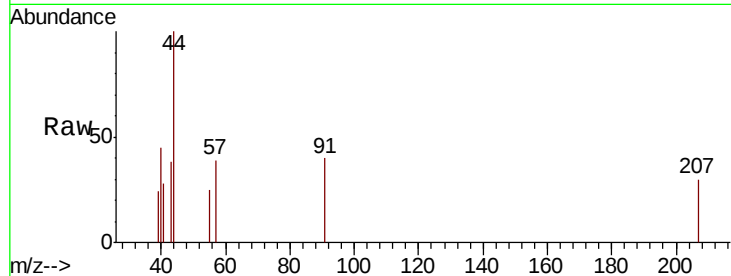
ClientSampled :

Tot Ion: 91 Resp: 348

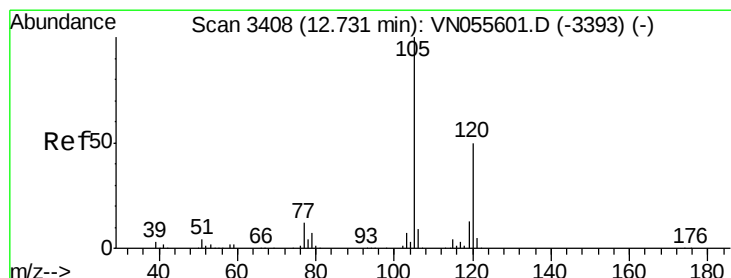
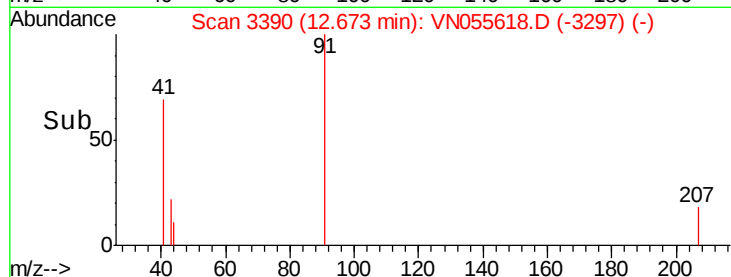
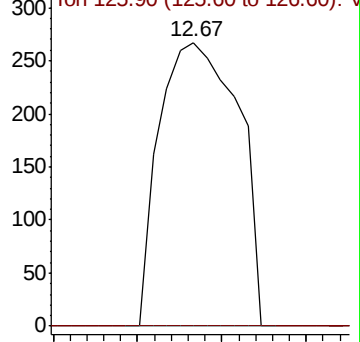
Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055601.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055618.D

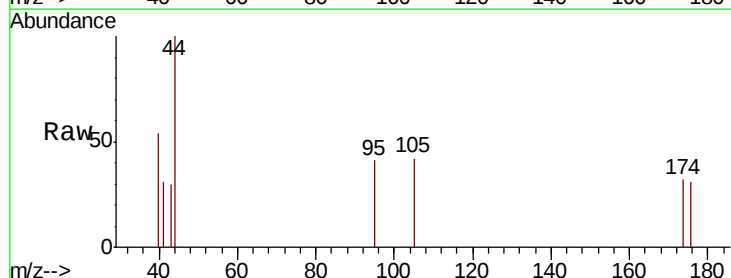
Acq: 17 May 2019 18:20

Tgt Ion: 105 Resp: 371

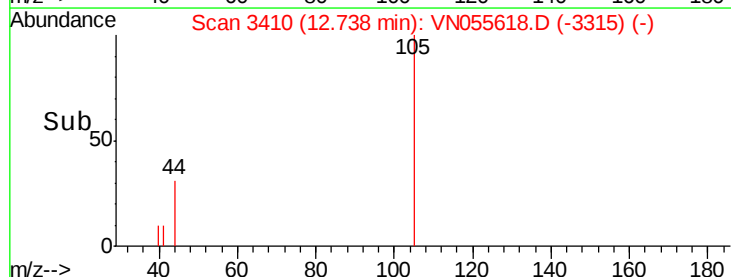
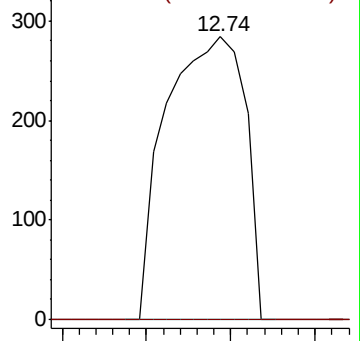
Ion Ratio Lower Upper

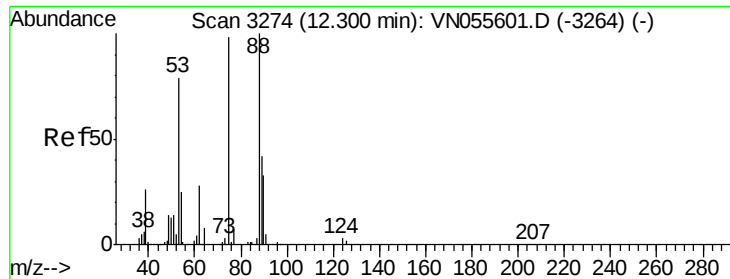
105 100

120 0.0 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): VN055601.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 65.392 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

Instrument :

MSVOA_N

ClientSampleId :

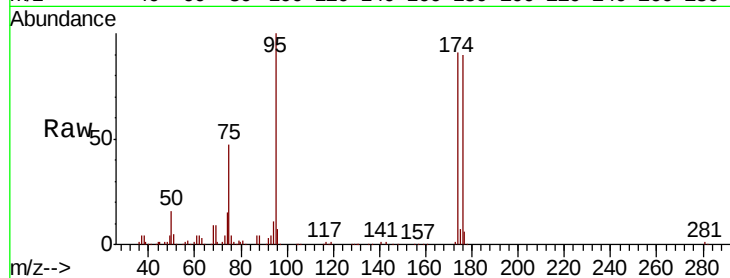
Tot Ion: 75 Resp: 98518

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

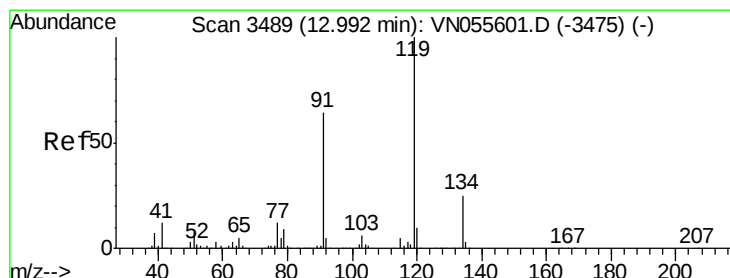
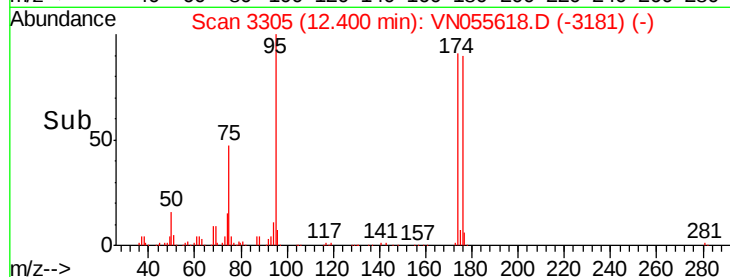
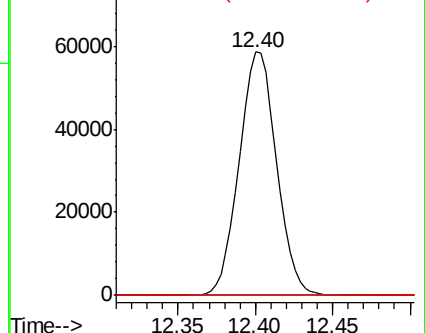
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055618.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055618.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055618.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055618.D

Acq: 17 May 2019 18:20

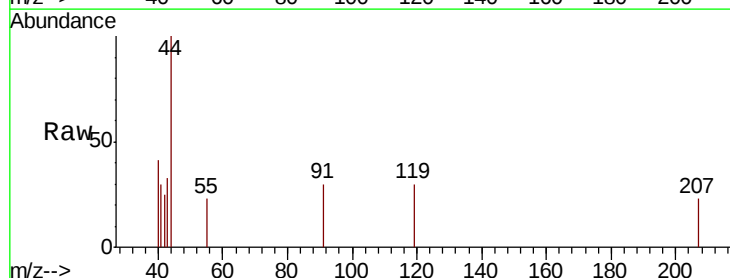
Tgt Ion: 119 Resp: 141

Ion Ratio Lower Upper

119 100

91 96.5 31.3 93.8#

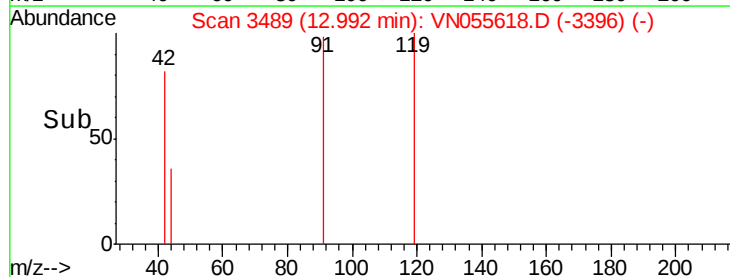
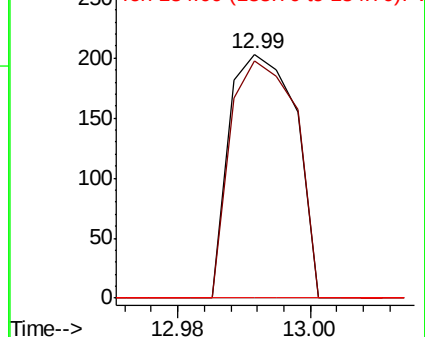
134 0.0 13.2 39.6#

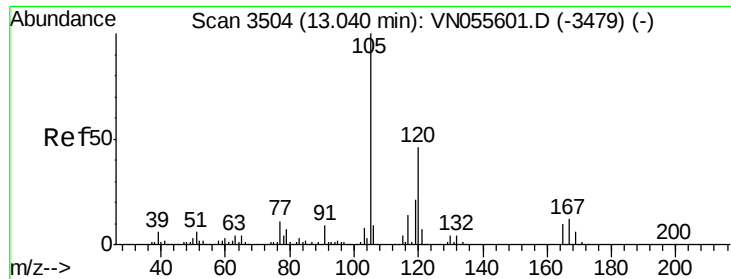


Abundance Ion 119.00 (118.70 to 119.70): VN055618.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055618.D (-3489) (-)

Ion 134.00 (133.70 to 134.70): VN055618.D (-3489) (-)

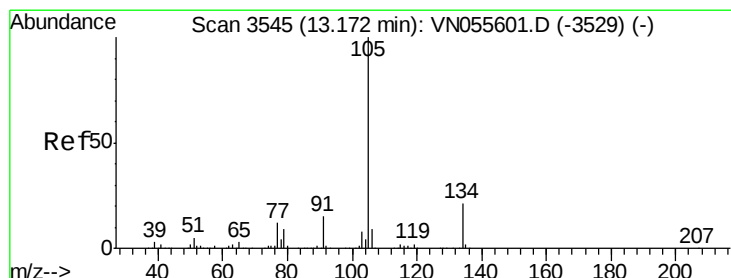
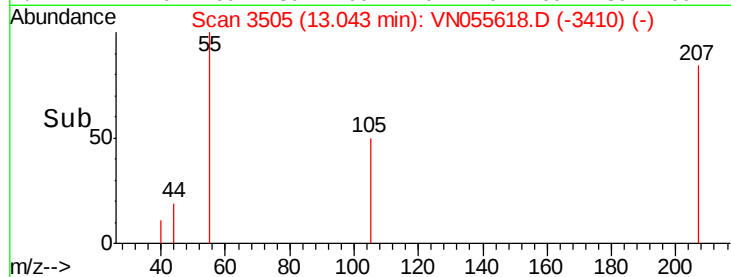
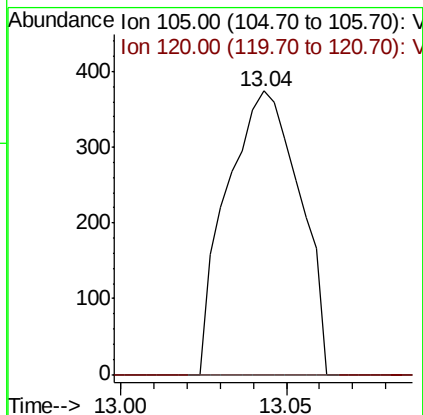
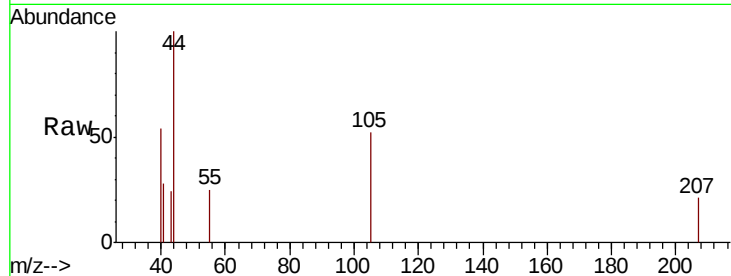




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

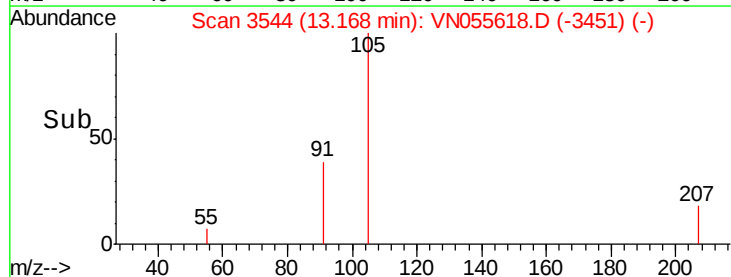
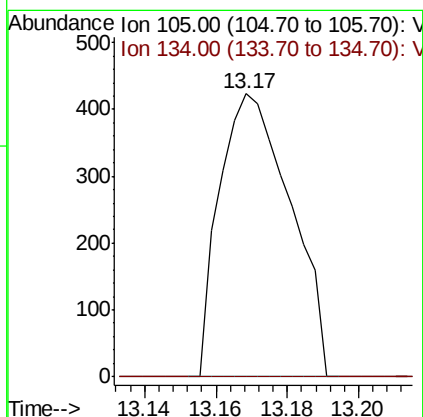
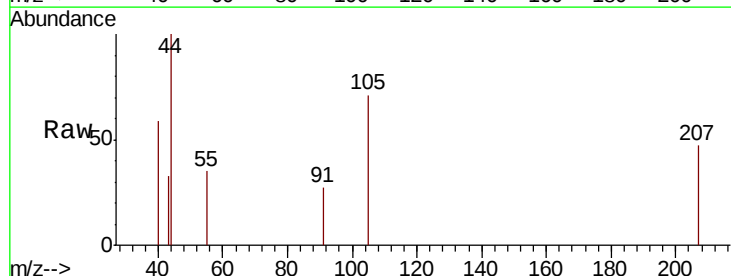
Instrument :
MSVOA_N
ClientSampled :

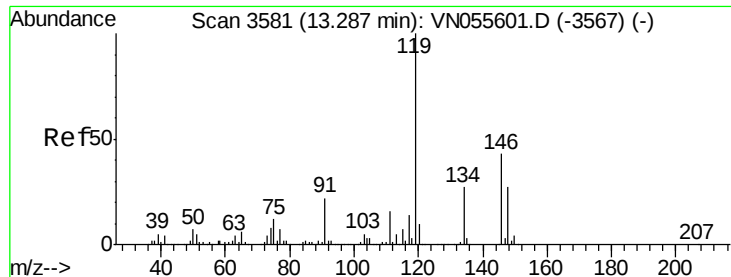
Tot Ion:105 Resp: 572
Ion Ratio Lower Upper
105 100
120 0.0 23.1 69.2#



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3544
Delta R.T. -0.00 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

Tgt Ion:105 Resp: 580
Ion Ratio Lower Upper
105 100
134 0.0 10.3 30.9#

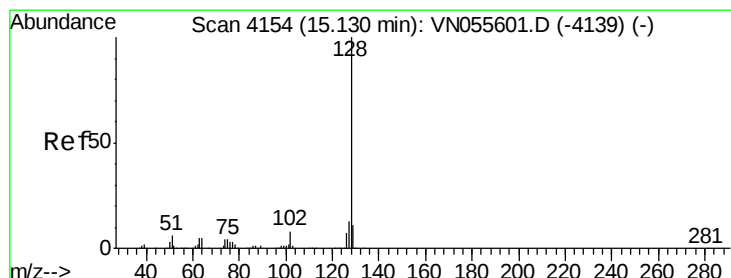
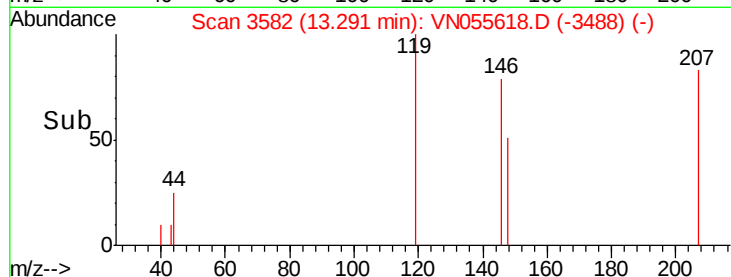
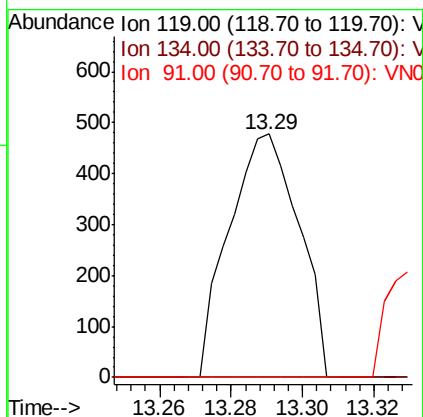
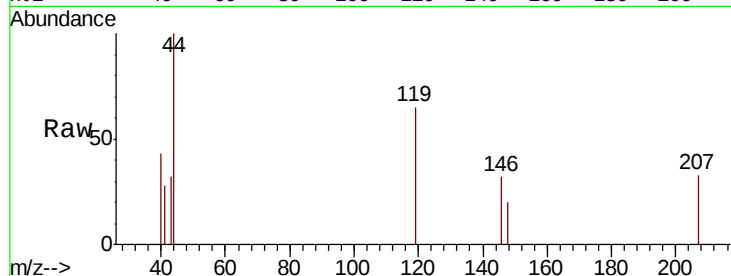




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:119 Resp: 644
Ion Ratio Lower Upper
119 100
134 0.0 13.4 40.2#
91 0.0 11.0 33.0#



#95
Naphthalene
Concen: 1.877 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN055618.D
Acq: 17 May 2019 18:20

Tgt Ion:128 Resp: 1149
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.6 12.8#

