

Data File : VN055646.D
Acq On : 18 May 2019 6:30
Operator : JC/SP
Sample : K2903-10
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 54 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-16C_R2

Quant Time: May 20 02:17:36 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	418656	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	593541	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	504898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	205957	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	195190	42.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.06%	
35) Dibromofluoromethane	7.59	113	181590	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
50) Toluene-d8	10.09	98	683439	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
62) 4-Bromofluorobenzene	12.40	95	224615	45.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.26%	

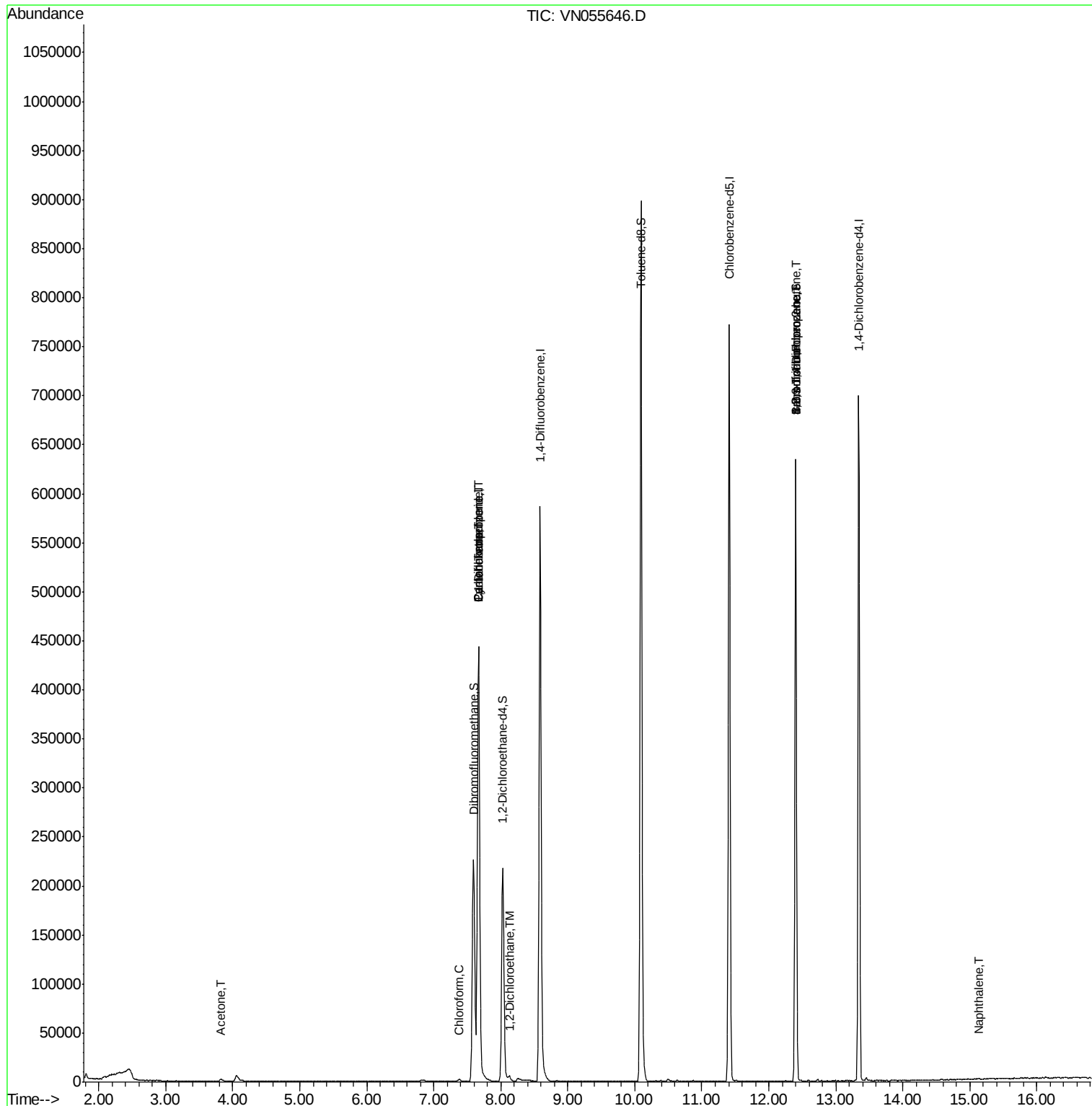
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	4524	2.416	ug/l	99
30) Chloroform	7.38	83	2309	0.314	ug/l	97
31) Cyclohexane	7.67	56	6346	0.932	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25214	4.765	ug/l #	48
38) Carbon Tetrachloride	7.67	117	34981	6.186	ug/l #	15
42) 1,2-Dichloroethane	8.13	62	3807	0.755	ug/l	80
71) Bromoform	12.40	173	1333	0.383	ug/l #	1
73) Isopropylbenzene	12.25	105	175	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	103227	24.563	ug/l #	100
79) 2-Chlorotoluene	12.67	91	29	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	149	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	103227	63.141	ug/l #	17
83) tert-Butylbenzene	12.99	119	60	Below Cal	#	49
84) 1,2,4-Trimethylbenzene	13.04	105	325	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	228	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	436	Below Cal	#	51
95) Naphthalene	15.13	128	469	1.806	ug/l #	69

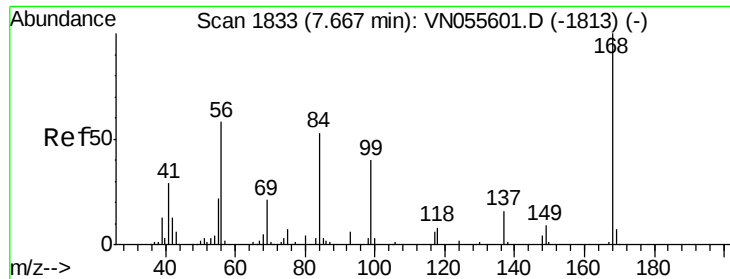
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampleId :

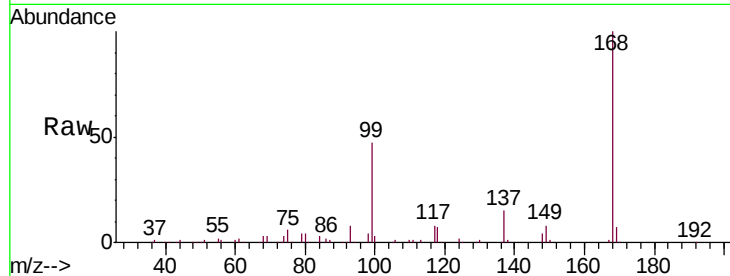
MW-16C_R2

Tgt Ion:168 Resp: 418656

Ion Ratio Lower Upper

168 100

99 47.4 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

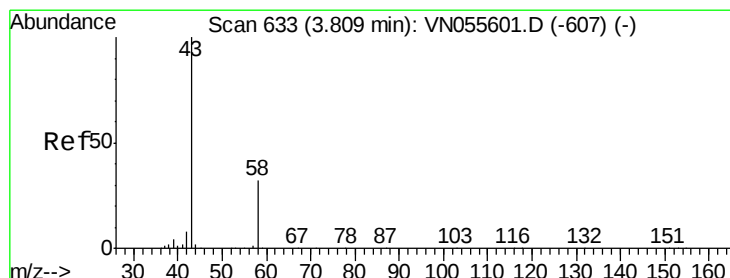
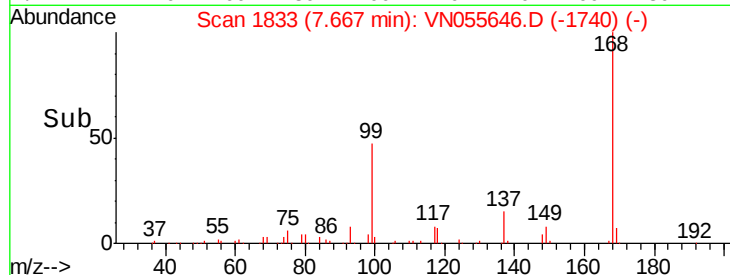
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 2.416 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN055646.D

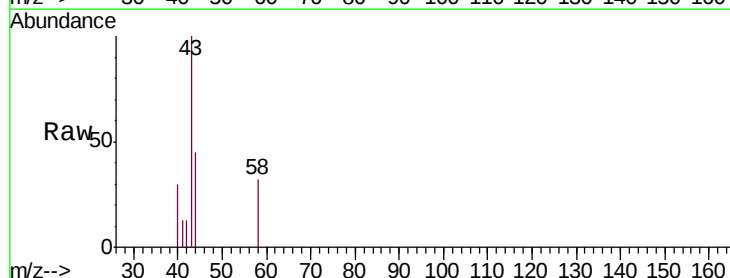
Acq: 18 May 2019 6:30

Tgt Ion: 43 Resp: 4524

Ion Ratio Lower Upper

43 100

58 32.0 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

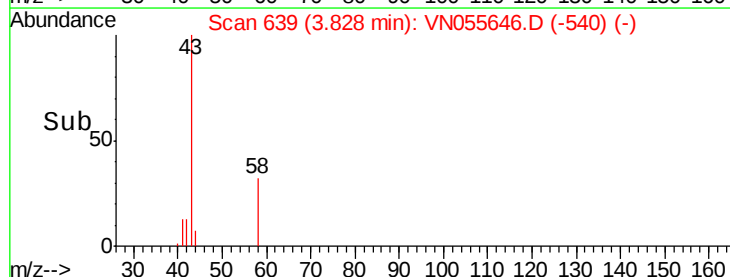
3.83

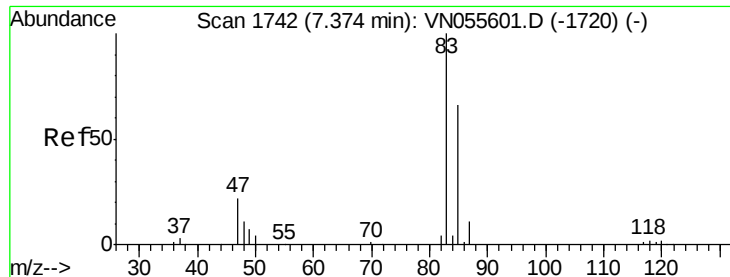
1000

500

0

Time-->

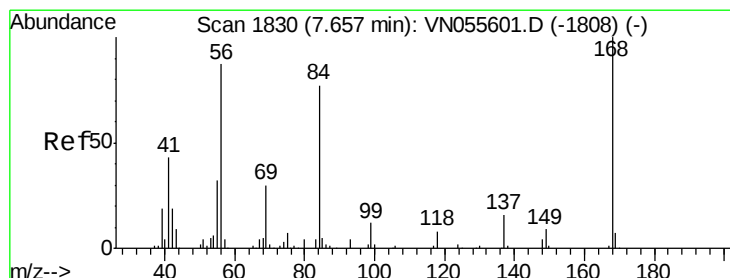
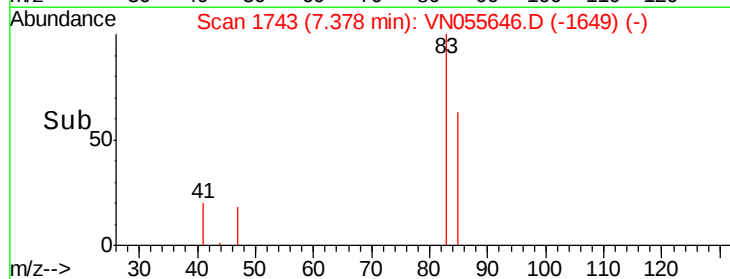
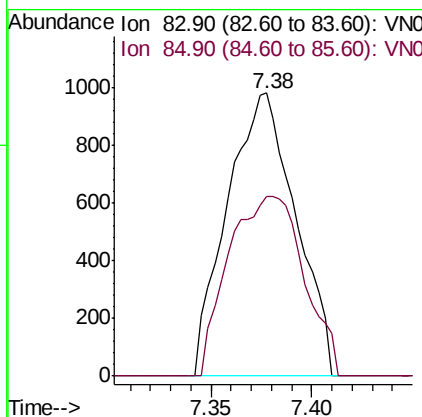
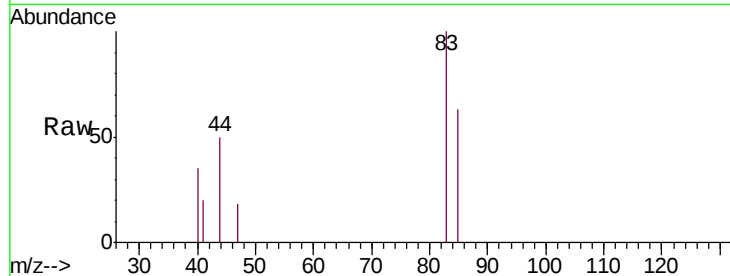




#30
Chloroform
Concen: 0.314 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN055646.D
Acq: 18 May 2019 6:30

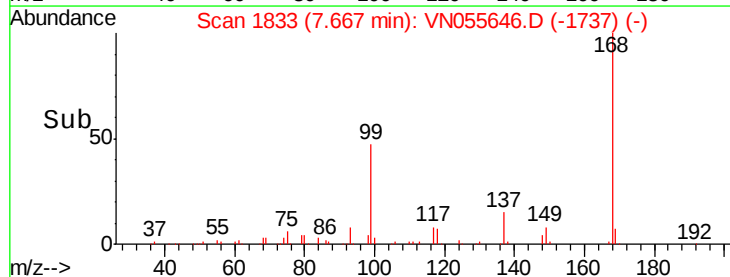
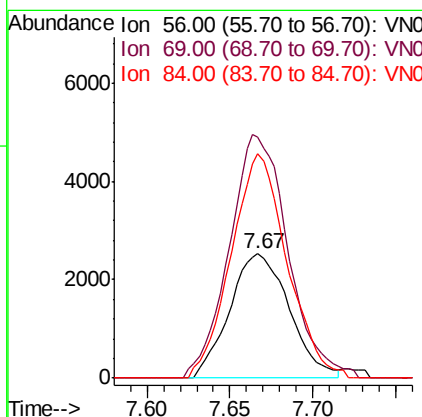
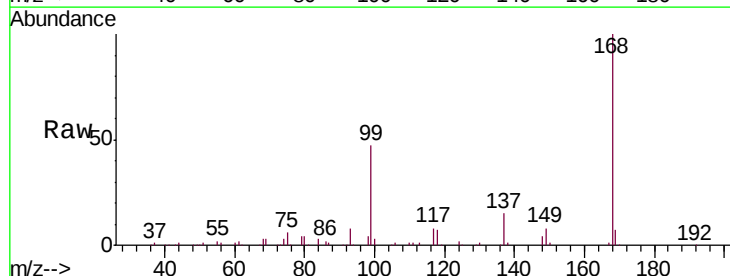
Instrument :
MSVOA_N
ClientSampled :
MW-16C_R2

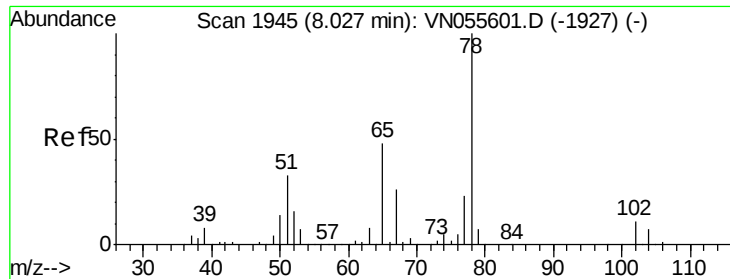
Tgt Ion: 83 Resp: 2309
Ion Ratio Lower Upper
83 100
85 63.3 52.6 78.8



#31
Cyclohexane
Concen: 0.932 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055646.D
Acq: 18 May 2019 6:30

Tgt Ion: 56 Resp: 6346
Ion Ratio Lower Upper
56 100
69 186.5 27.2 40.8#
84 180.9 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 42.531 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampleId :

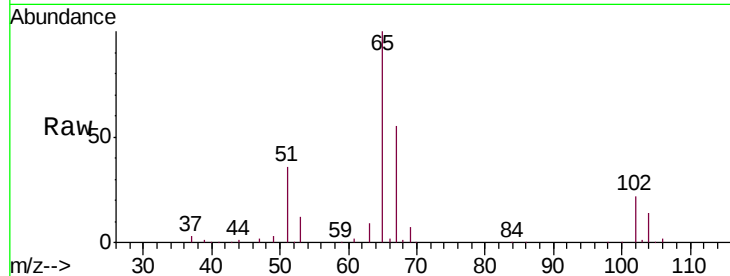
MW-16C_R2

Tgt Ion: 65 Resp: 195190

Ion Ratio Lower Upper

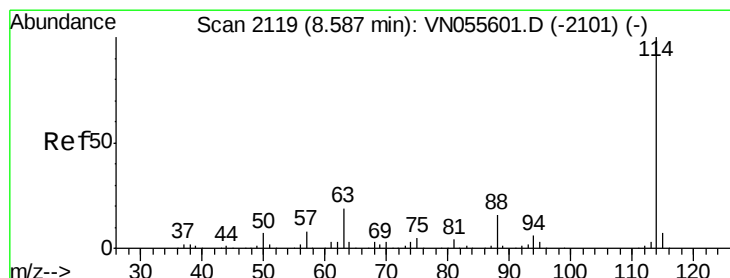
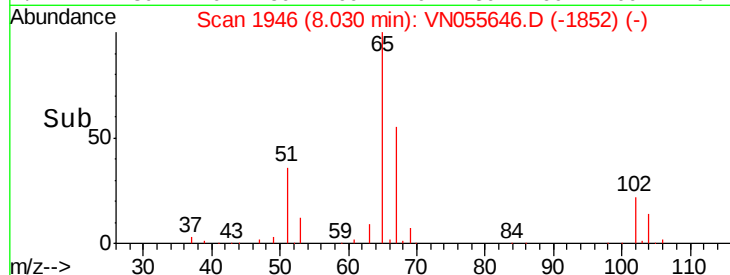
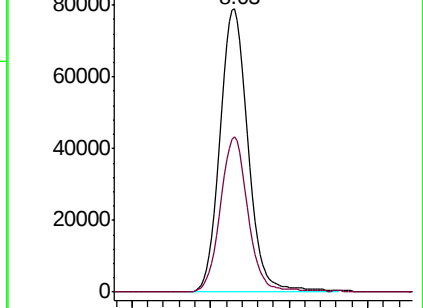
65 100

67 54.0 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN055601.D (-1927) (-)

Ion 66.90 (66.60 to 67.60): VN055601.D (-1927) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

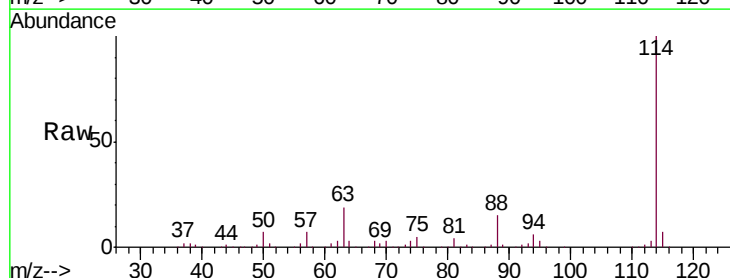
Tgt Ion: 114 Resp: 593541

Ion Ratio Lower Upper

114 100

63 18.8 0.0 38.2

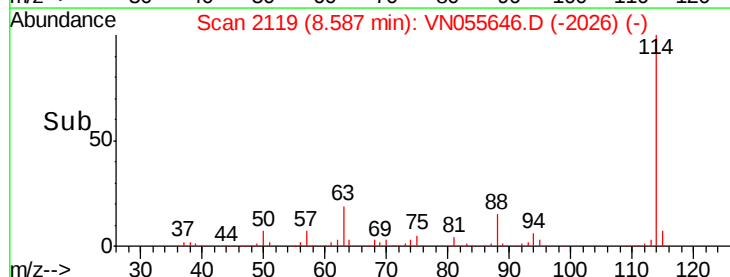
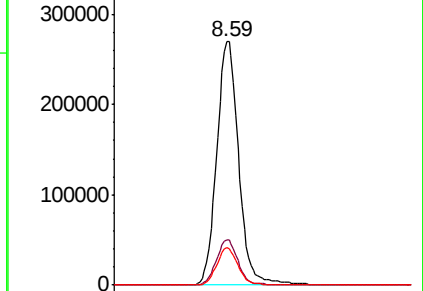
88 15.4 0.0 31.0

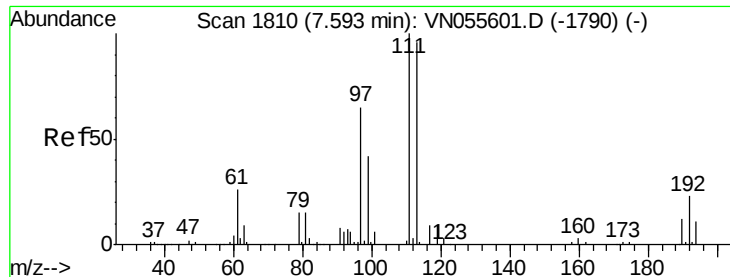


Abundance Ion 113.90 (113.60 to 114.60): VN055601.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN055601.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN055601.D (-2101) (-)

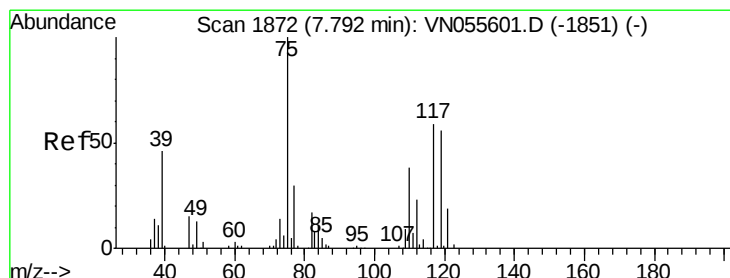
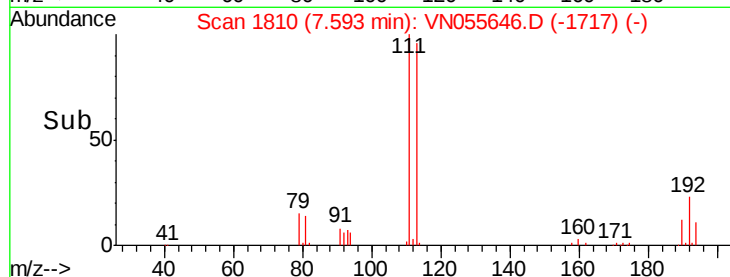
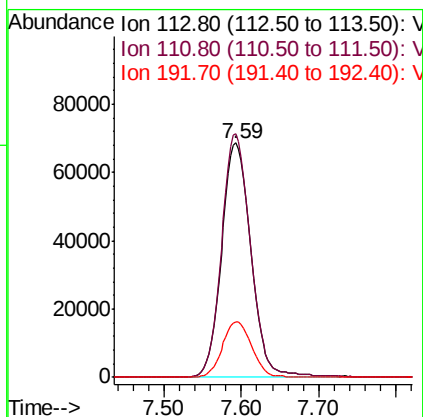
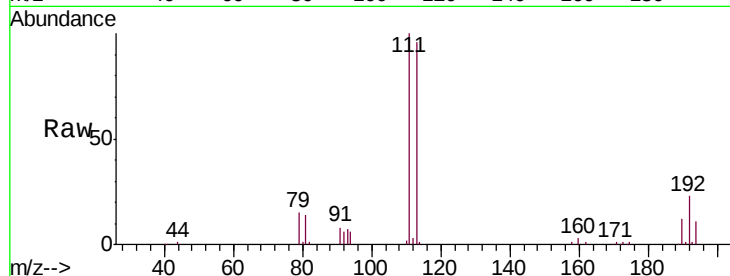




#35
 Dibromofluoromethane
 Concen: 48.162 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

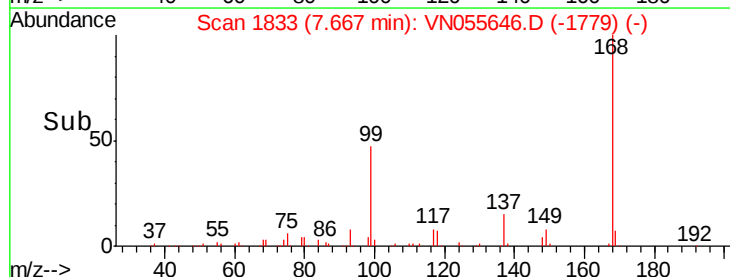
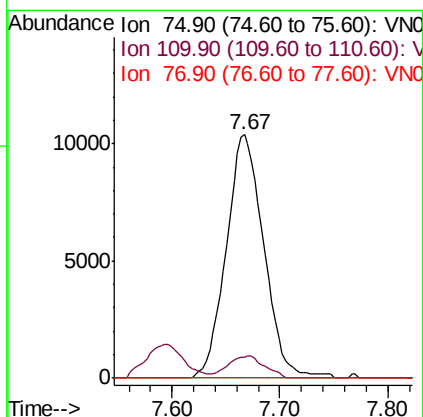
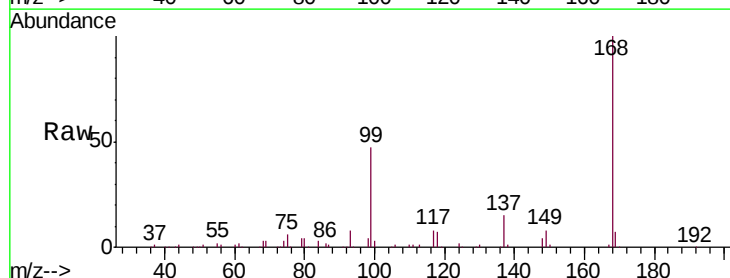
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16C_R2

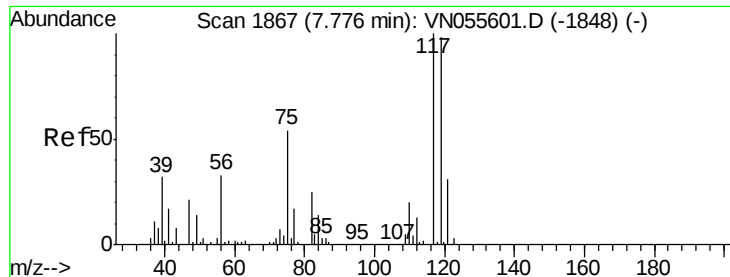
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.5	123.7
192	23.8	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 4.765 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.6	55.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.186 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampled :

MW-16C_R2

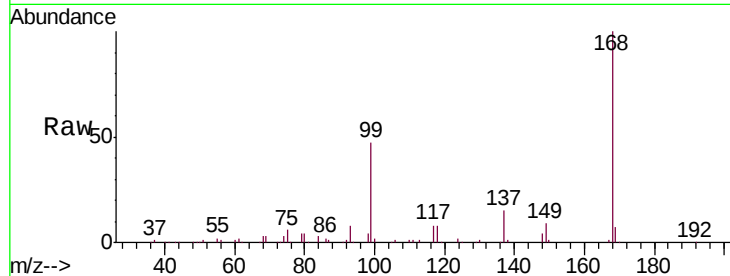
Tgt Ion:117 Resp: 34981

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.8#

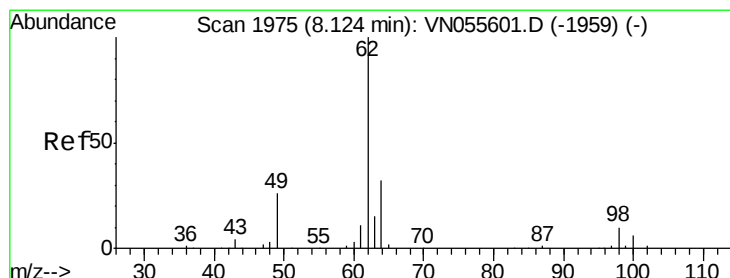
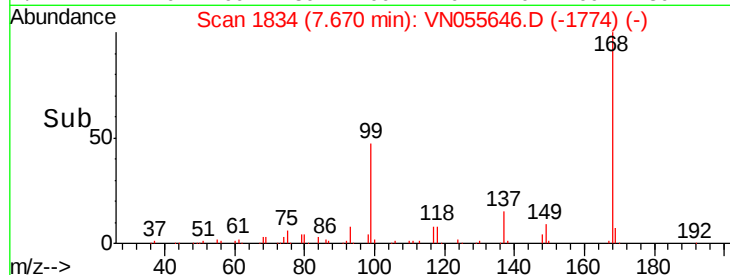
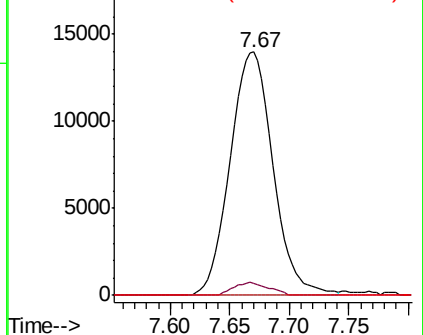
121 0.0 24.6 37.0#



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



#42

1,2-Dichloroethane

Concen: 0.755 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN055646.D

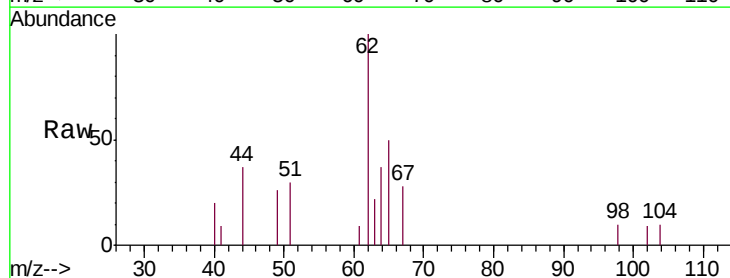
Acq: 18 May 2019 6:30

Tgt Ion: 62 Resp: 3807

Ion Ratio Lower Upper

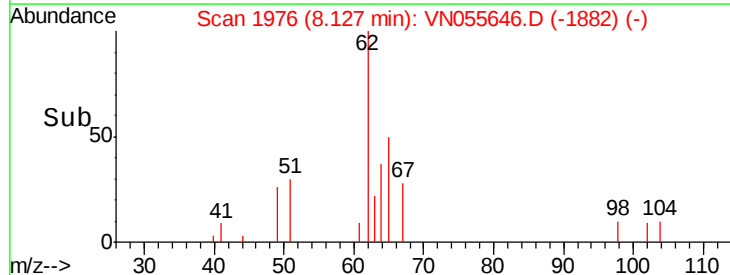
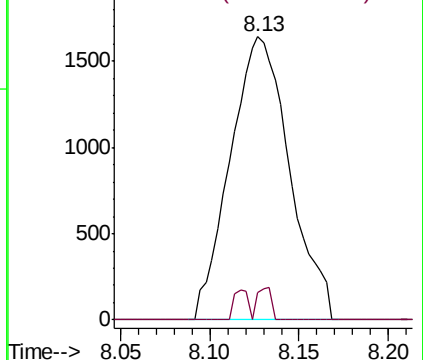
62 100

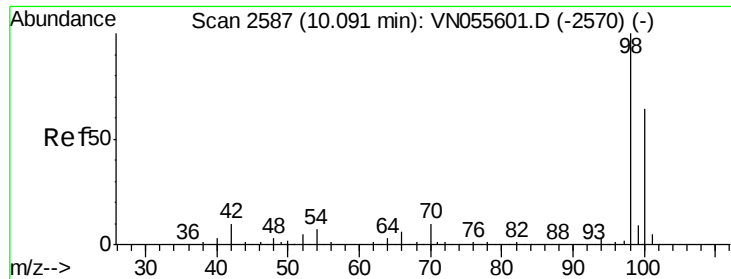
98 2.7 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): V

Ion 97.90 (97.60 to 98.60): V





#50

Toluene-d8

Concen: 47.939 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampleId :

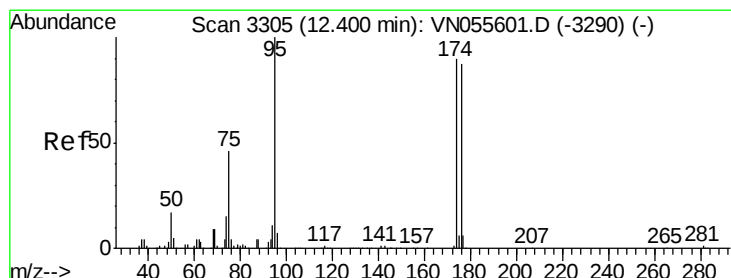
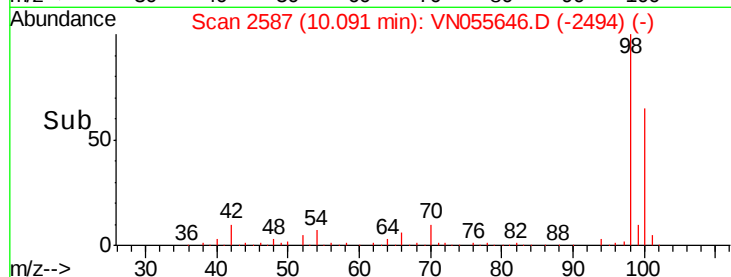
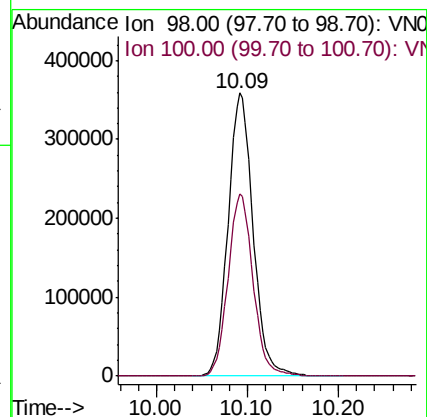
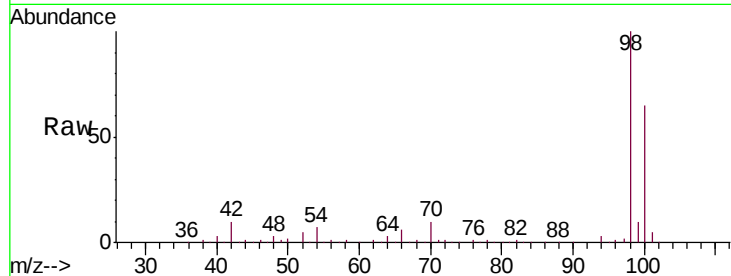
MW-16C_R2

Tgt Ion: 98 Resp: 683439

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.626 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

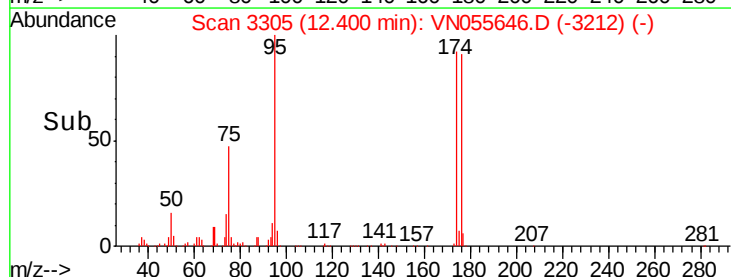
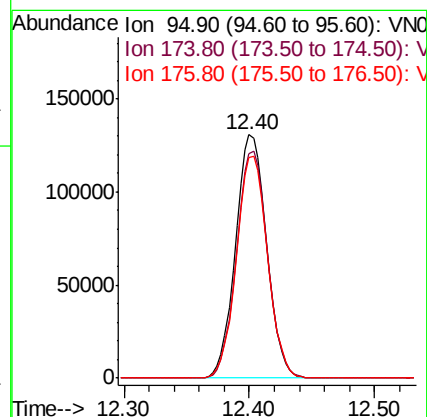
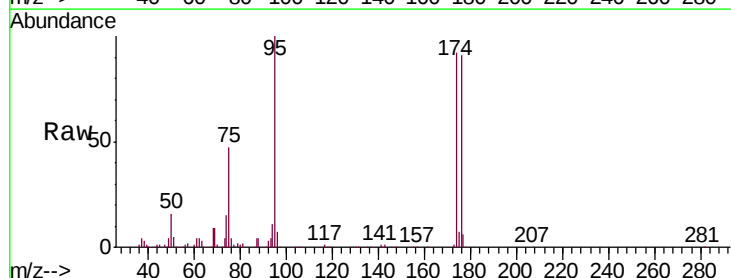
Tgt Ion: 95 Resp: 224615

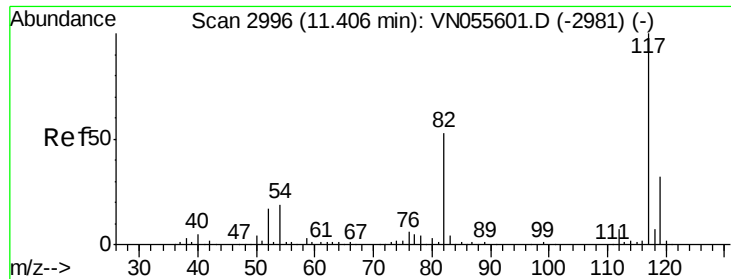
Ion Ratio Lower Upper

95 100

174 93.0 0.0 180.6

176 91.4 0.0 177.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampled :

MW-16C_R2

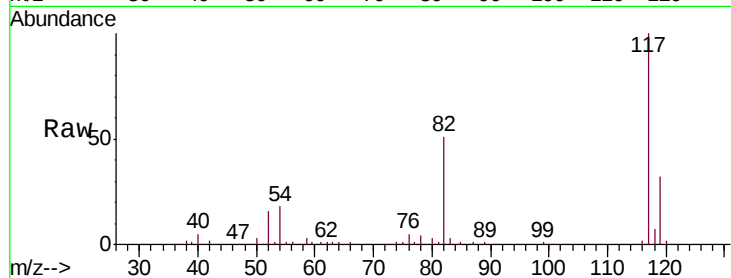
Tgt Ion:117 Resp: 504898

Ion Ratio Lower Upper

117 100

82 51.2 42.3 63.5

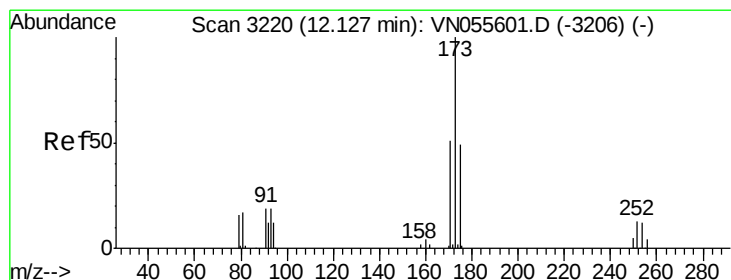
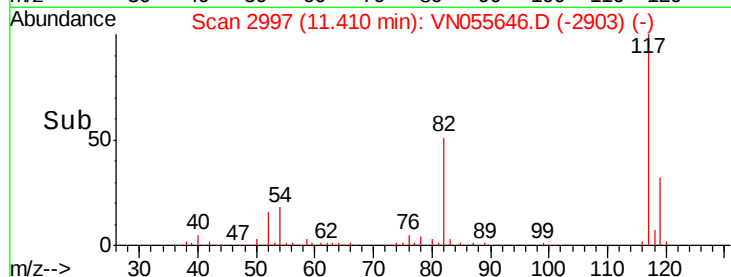
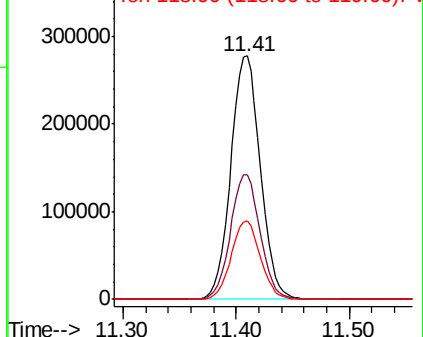
119 32.3 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.383 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

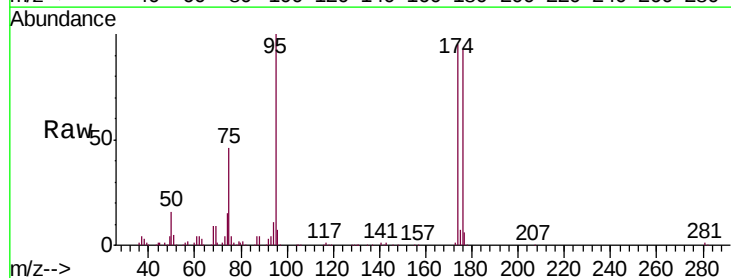
Tgt Ion:173 Resp: 1333

Ion Ratio Lower Upper

173 100

175 1012.3 24.3 72.9#

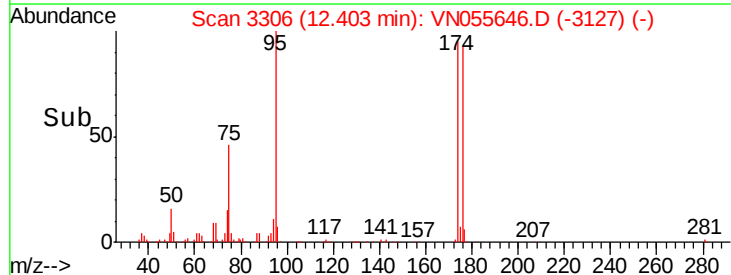
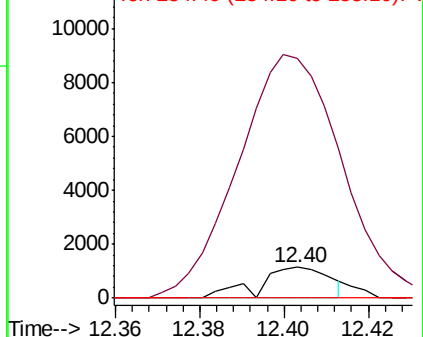
254 0.0 0.1 0.1#

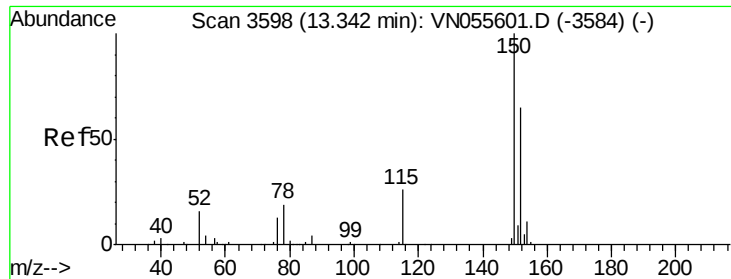


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



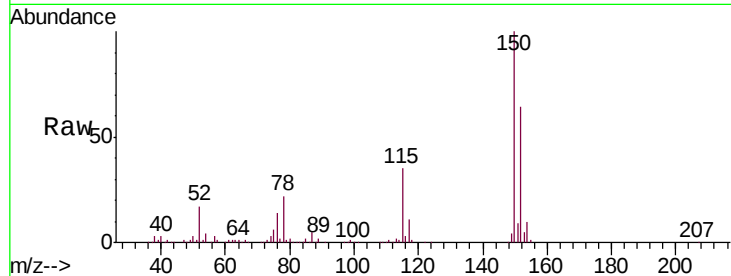


#72

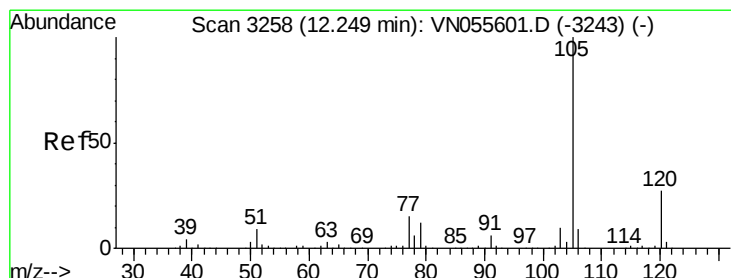
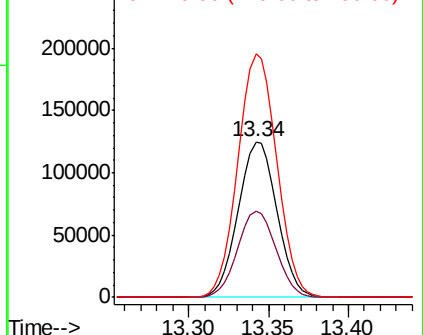
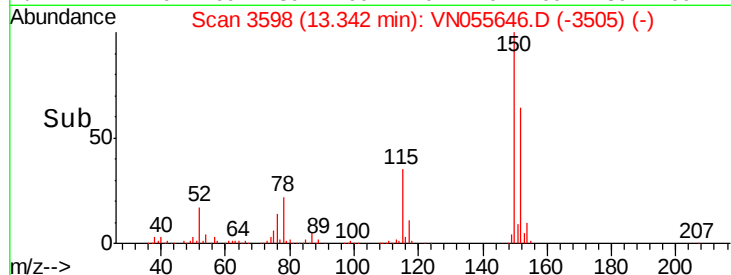
1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. -0.00 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

Instrument :
 MSVOA_N
 ClientSampled :
 MW-16C_R2

Tgt Ion:152 Resp: 205957
 Ion Ratio Lower Upper
 152 100
 115 55.1 28.1 84.2
 150 157.2 0.0 348.0



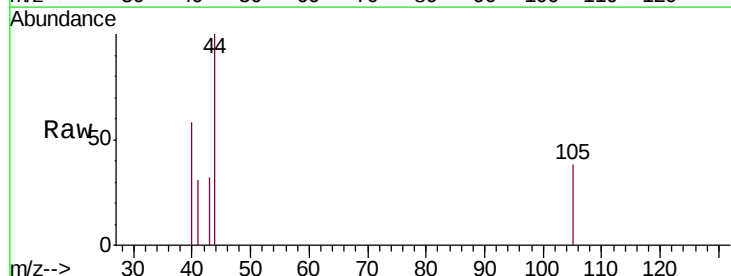
Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V



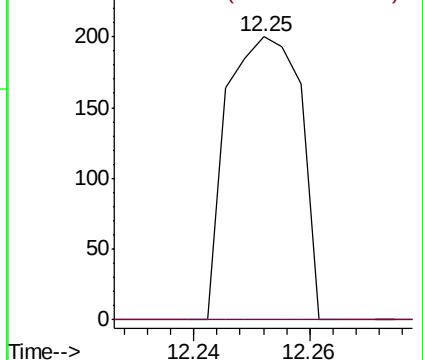
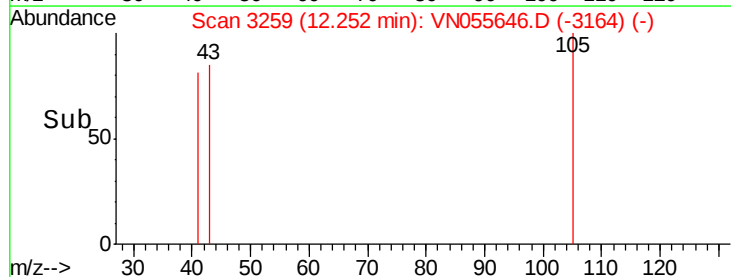
#73

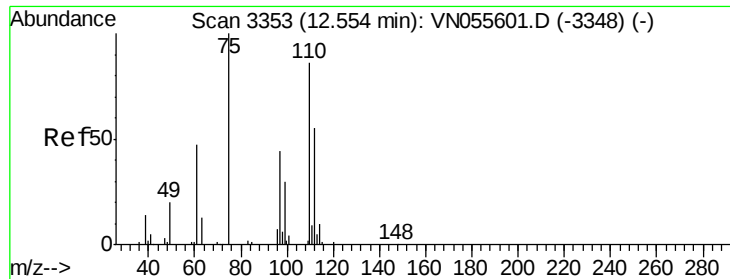
Isopropylbenzene
 Concen: Below Cal
 RT: 12.25 min Scan# 3259
 Delta R.T. 0.00 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

Tgt Ion:105 Resp: 175
 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





#76

1,2,3-Trichloropropane

Concen: 24.563 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampled :

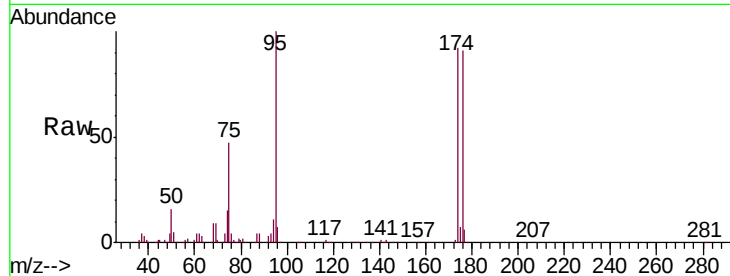
MW-16C_R2

Tgt Ion: 75 Resp: 103227

Ion Ratio Lower Upper

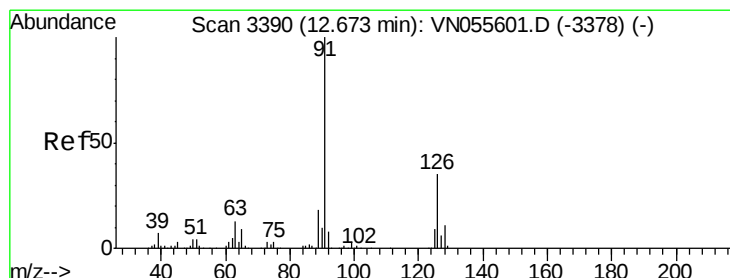
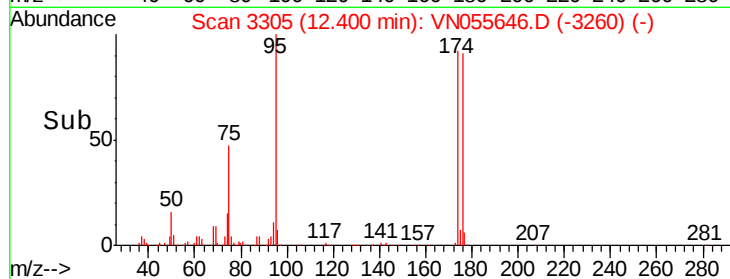
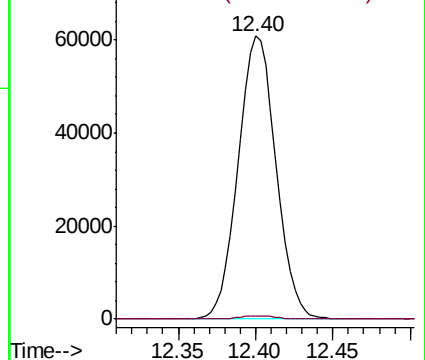
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055646.D

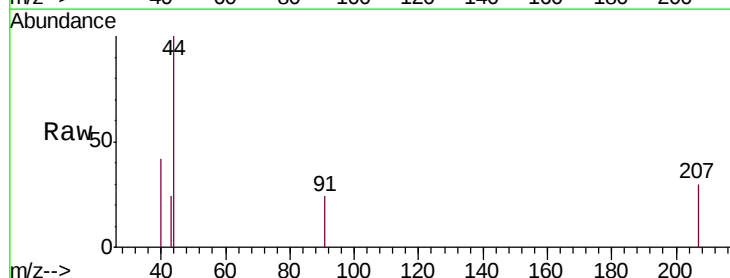
Acq: 18 May 2019 6:30

Tgt Ion: 91 Resp: 29

Ion Ratio Lower Upper

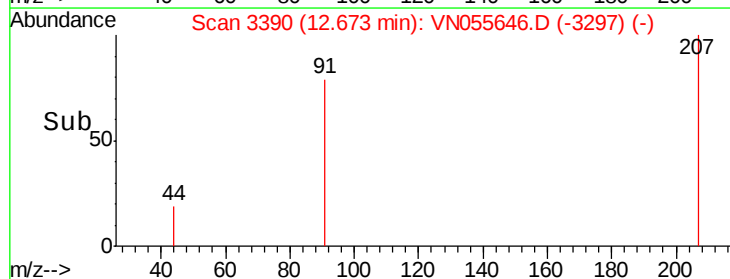
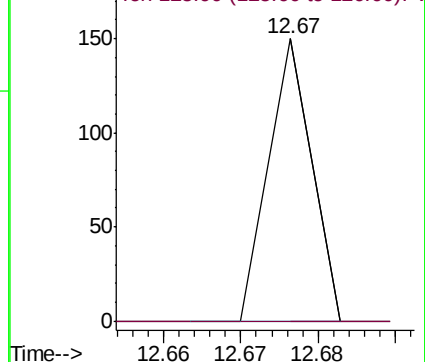
91 100

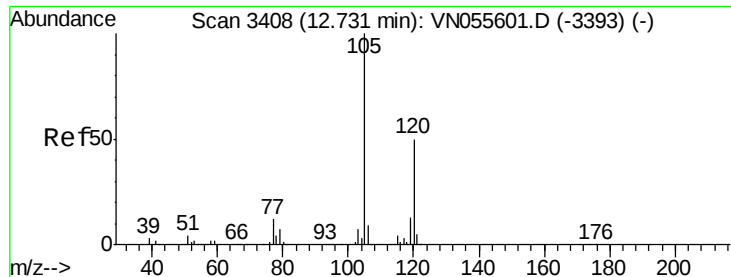
126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

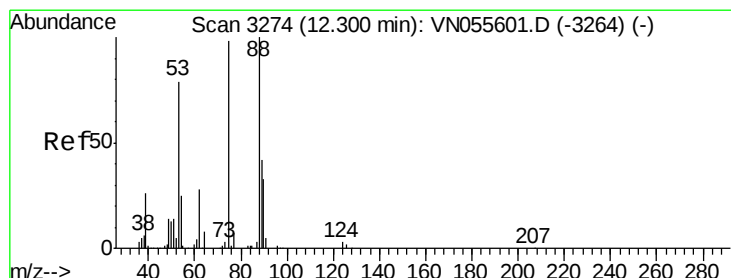
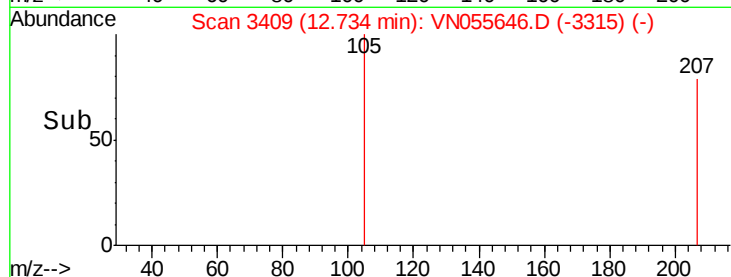
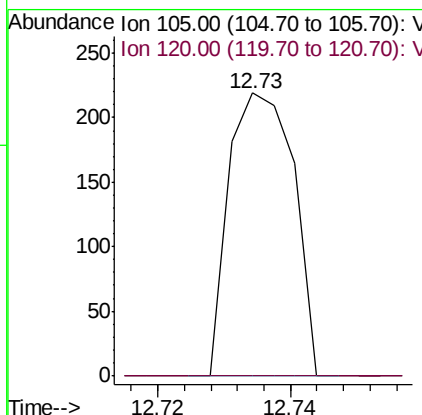
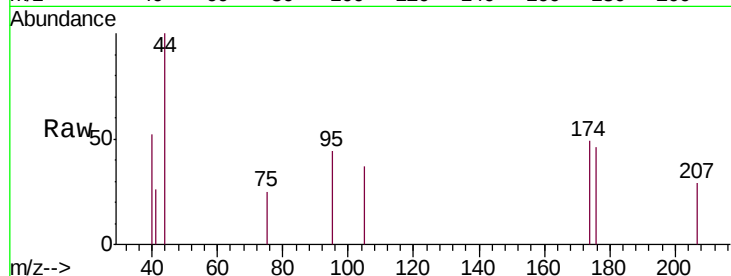




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

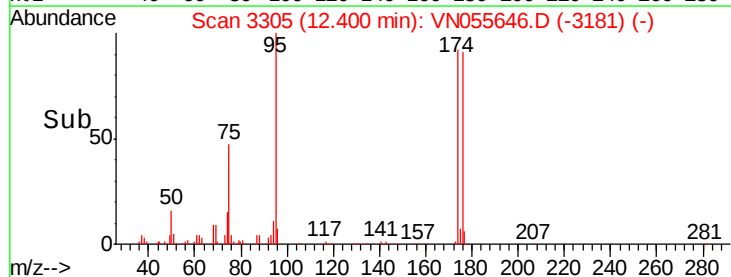
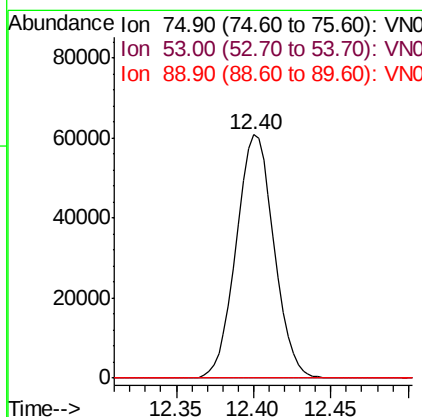
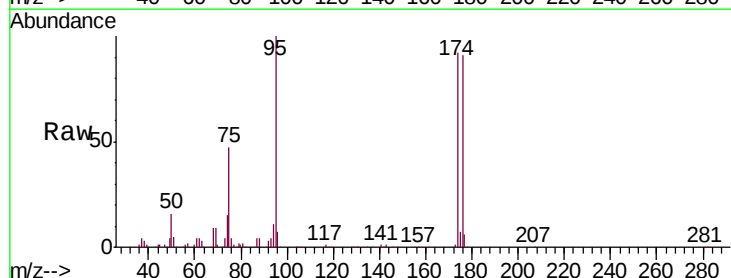
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16C_R2

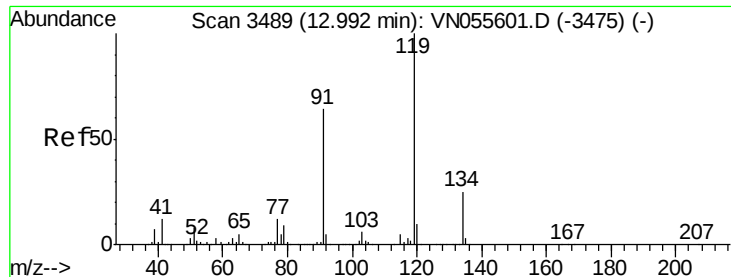
Tgt Ion: 105 Resp: 149
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.6 74.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.141 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

Tgt Ion: 75 Resp: 103227
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.1 97.7#
 89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampled :

MW-16C_R2

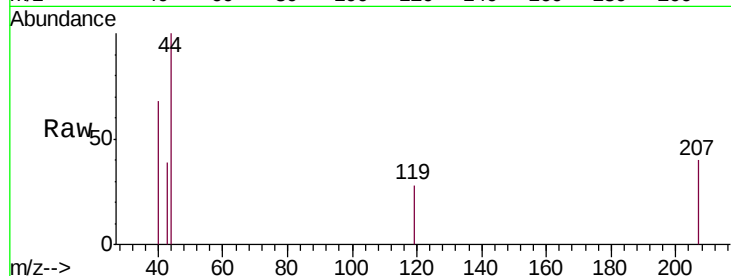
Tgt Ion:119 Resp: 60

Ion Ratio Lower Upper

119 100

91 101.7 31.3 93.8#

134 0.0 13.2 39.6#

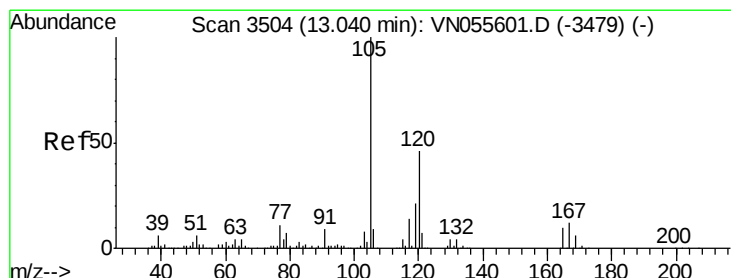
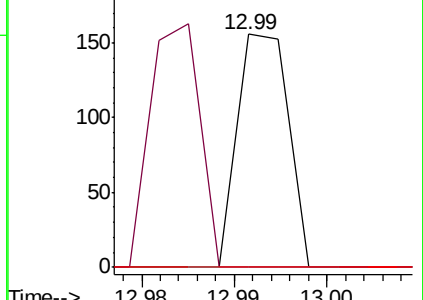
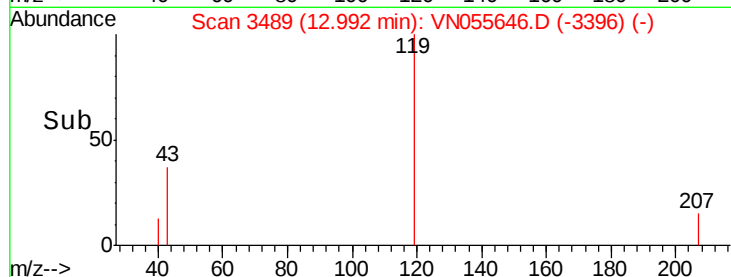


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

12.99



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055646.D

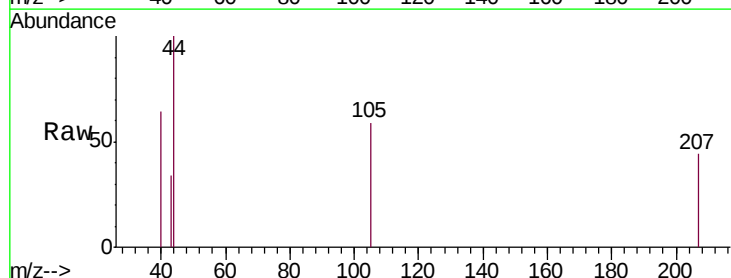
Acq: 18 May 2019 6:30

Tgt Ion:105 Resp: 325

Ion Ratio Lower Upper

105 100

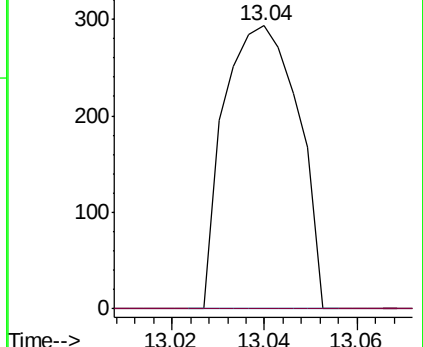
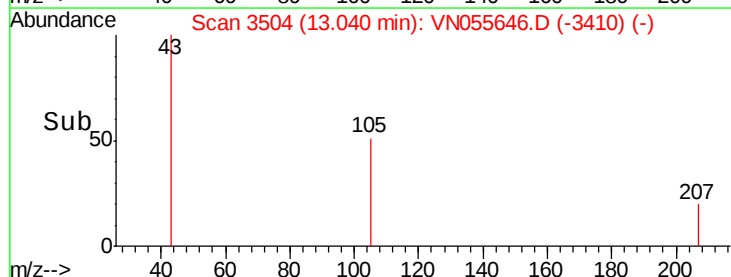
120 0.0 23.1 69.2#

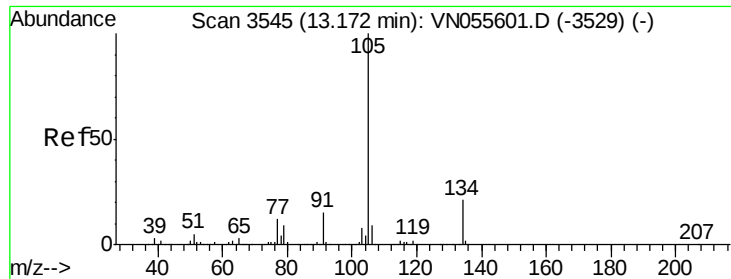


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04

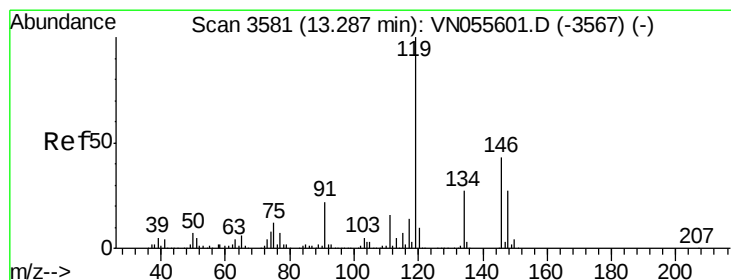
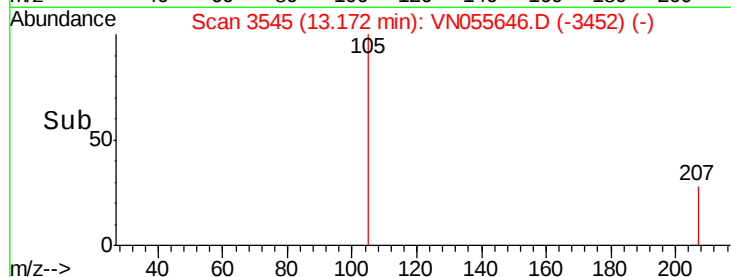
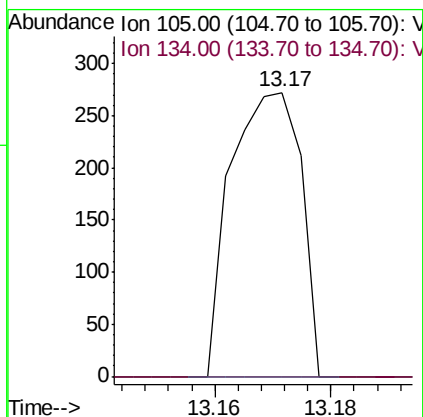
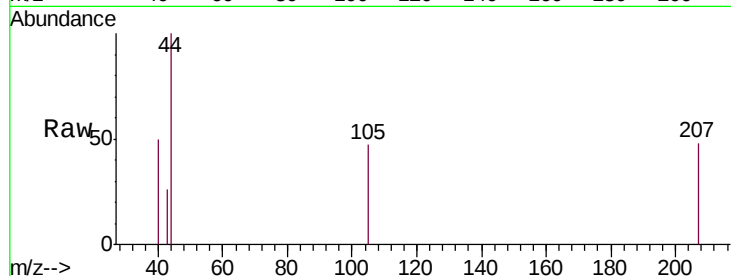




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

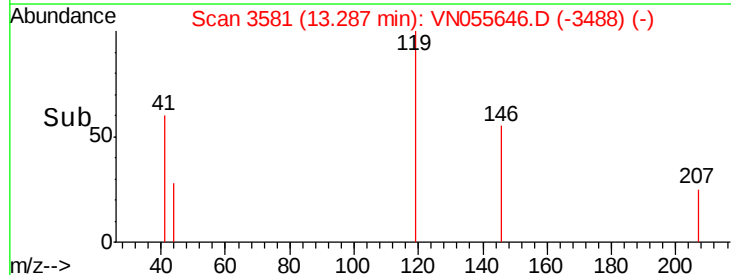
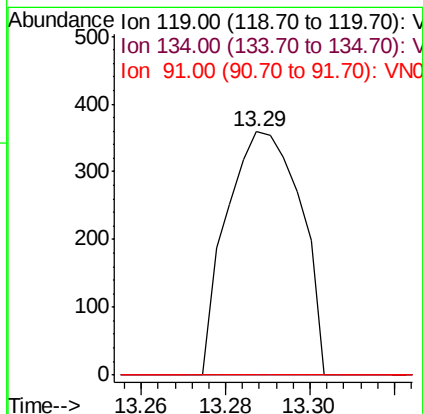
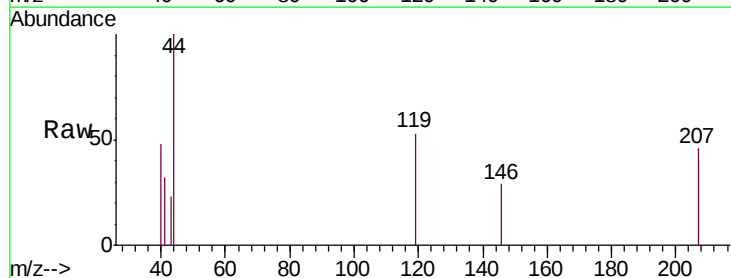
Instrument :
 MSVOA_N
 ClientSampled :
 MW-16C_R2

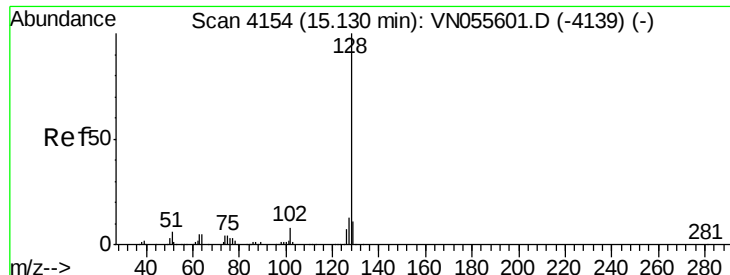
Tgt Ion:105 Resp: 228
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.9#



#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055646.D
 Acq: 18 May 2019 6:30

Tgt Ion:119 Resp: 436
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.4 40.2#
 91 0.0 11.0 33.0#





#95

Naphthalene

Concen: 1.806 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055646.D

Acq: 18 May 2019 6:30

Instrument :

MSVOA_N

ClientSampleId :

MW-16C_R2

Tgt Ion:128 Resp: 469

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 12.8#

