

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092719\
 Data File : VN058414.D
 Acq On : 27 Sep 2019 17:35
 Operator : JC/SP
 Sample : K5039-01DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40080DL

Manual Integrations
 APPROVED

MMDadoda
 9/30/2019 10:18:56 AM

Quant Time: Sep 30 08:34:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	499343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	795672	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	712776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	348604	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	336986	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
35) Dibromofluoromethane	7.57	113	238505	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
50) Toluene-d8	10.09	98	1007377	52.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.46%	
62) 4-Bromofluorobenzene	12.41	95	374842	54.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.54%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	13065	2.170	ug/l	94
11) Tert butyl alcohol	4.75	59	5190	6.402	ug/l #	85
16) Acetone	3.80	43	250491	100.700	ug/l	100
18) Methyl Acetate	4.31	43	6732	1.076	ug/l	97
22) Diisopropyl ether	5.93	45	35300	1.914	ug/l	91
25) 2-Butanone	6.82	43	77149	22.589	ug/l	98
31) Cyclohexane	7.64	56	171529	16.985	ug/l	95
37) Ethyl Acetate	6.91	43	14802	2.295	ug/l #	84
39) Methylcyclohexane	9.07	83	237308	26.710	ug/l	96
40) Benzene	8.03	78	2834914	129.629	ug/l	99
52) Toluene	10.15	92	8077080	586.772	ug/l #	55
67) Ethyl Benzene	11.51	91	4794293	186.818	ug/l #	50
68) m/p-Xylenes	11.62	106	5660211	586.219	ug/l #	49
69) o-Xylene	11.95	106	3690568	397.060	ug/l	55
73) Isopropylbenzene	12.25	105	285710	11.090	ug/l	100
78) n-propylbenzene	12.60	91	987551	34.025	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	1226139	56.855	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	3945964	182.624	ug/l	80
85) sec-Butylbenzene	13.18	105	49176m	2.053	ug/l	
86) p-Isopropyltoluene	13.30	119	32484m	1.541	ug/l	
89) n-Butylbenzene	13.62	91	86443	4.526	ug/l #	67
95) Naphthalene	15.13	128	1152573	67.683	ug/l	100

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

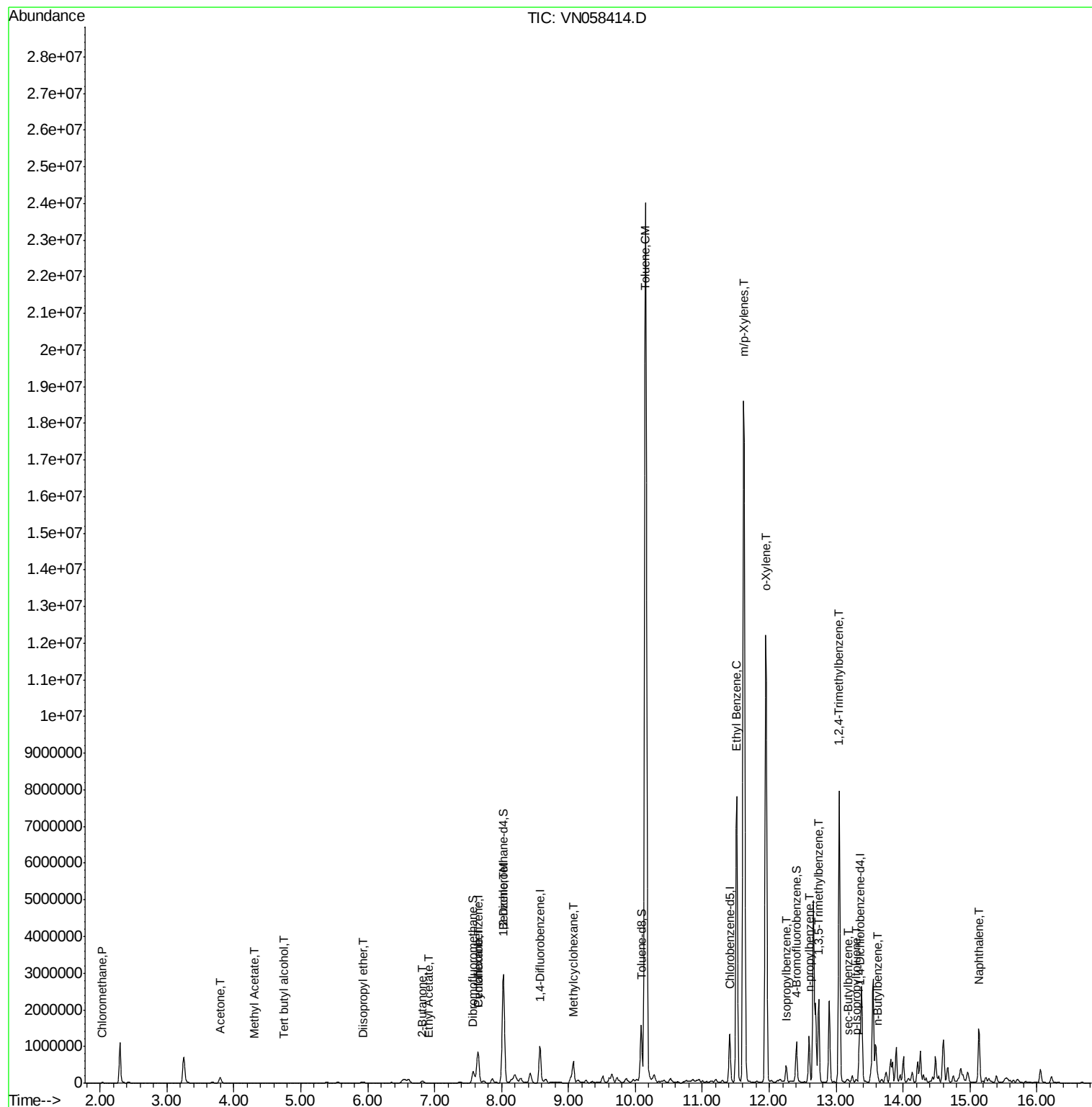
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092719\
Data File : VN058414.D
Acq On : 27 Sep 2019 17:35
Operator : JC/SP
Sample : K5039-01DL 20X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 19 Sample Multiplier: 1

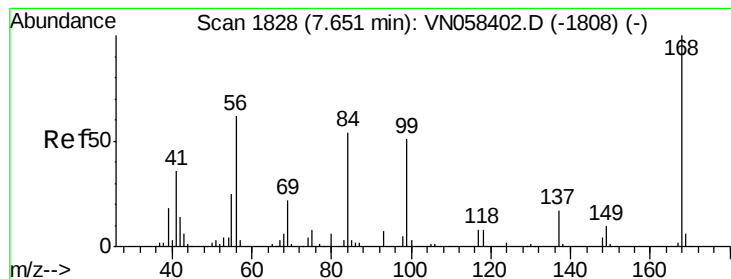
Instrument :
MSVOA_N
ClientSampleId :
40080DL

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:56 AM

Quant Time: Sep 30 08:34:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleID :

40080DL

Tot Ion:168 Resp: 499343

Ion Ratio Lower Upper

168 100

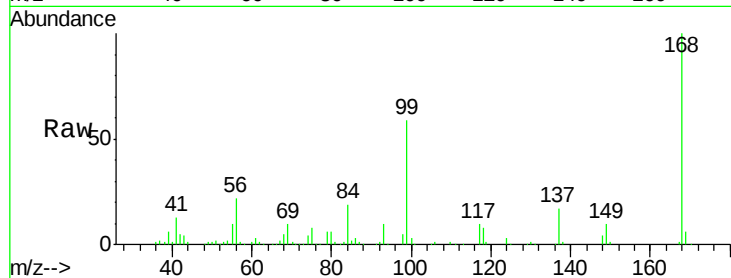
99 59.3 47.7 71.5

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:56 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

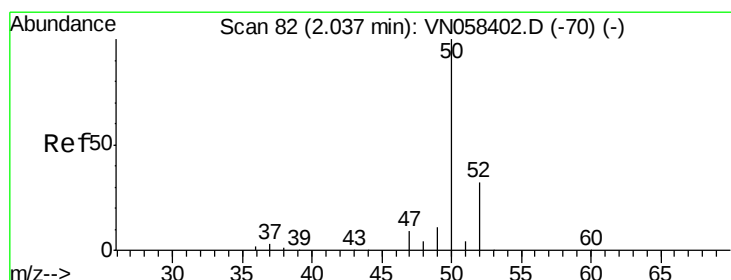
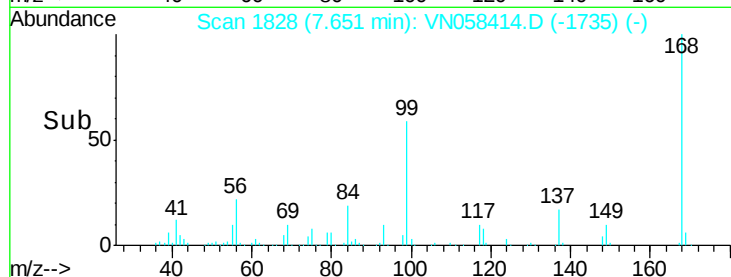
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 2.170 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058414.D

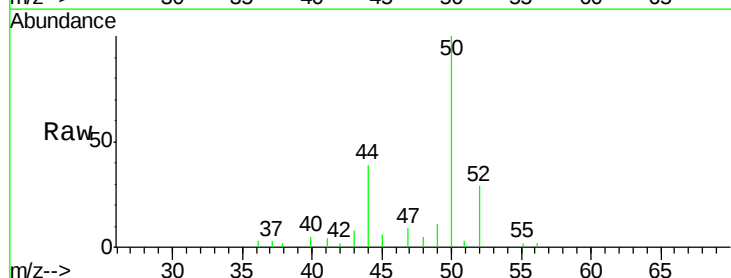
Acq: 27 Sep 2019 17:35

Tgt Ion: 50 Resp: 13065

Ion Ratio Lower Upper

50 100

52 28.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

10000

8000

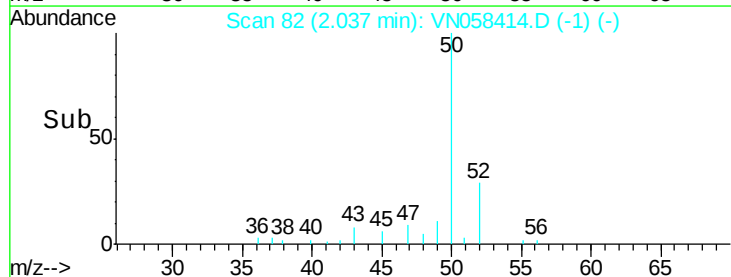
6000

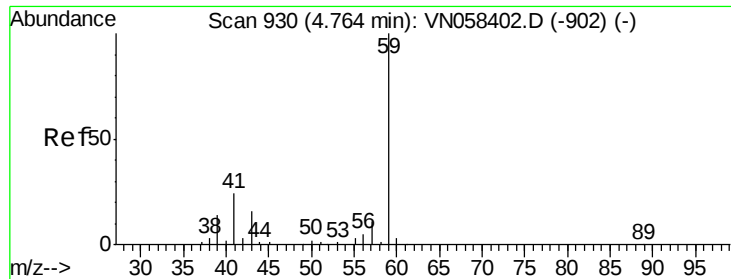
4000

2000

0

Time-->





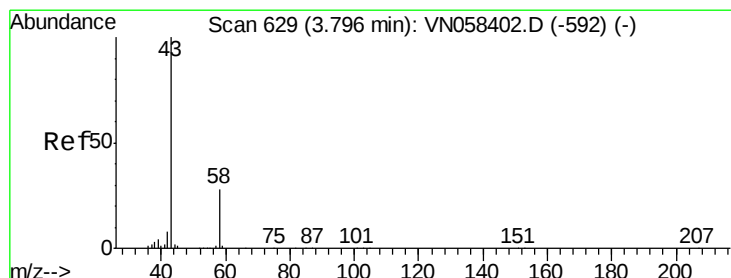
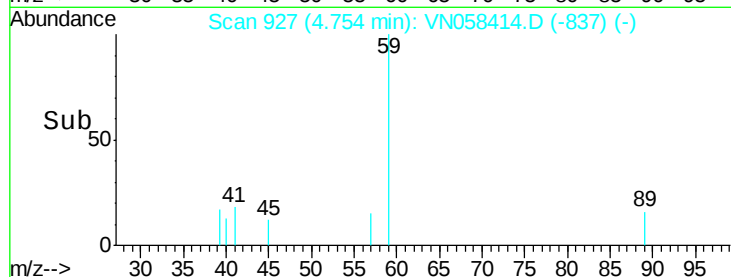
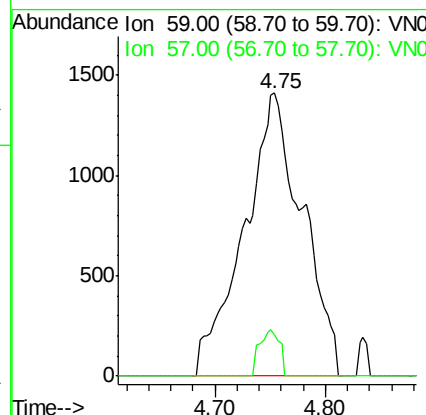
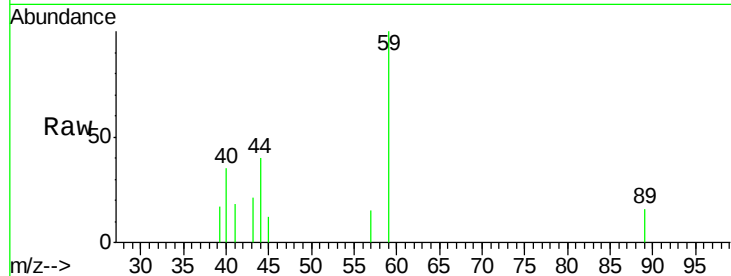
#11
Tert butyl alcohol
Concen: 6.402 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.01 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
40080DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.5	9.0	13.4#

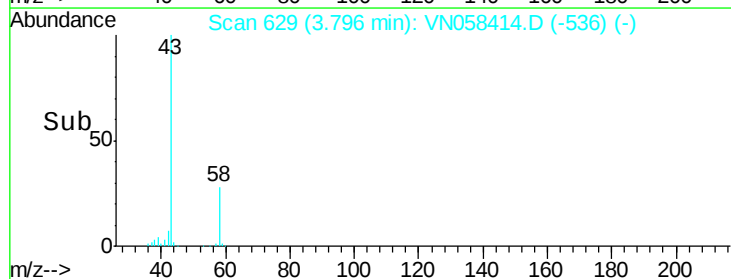
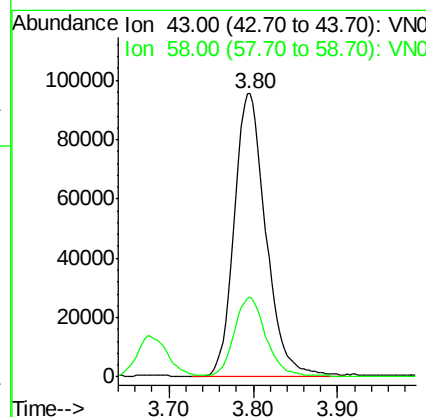
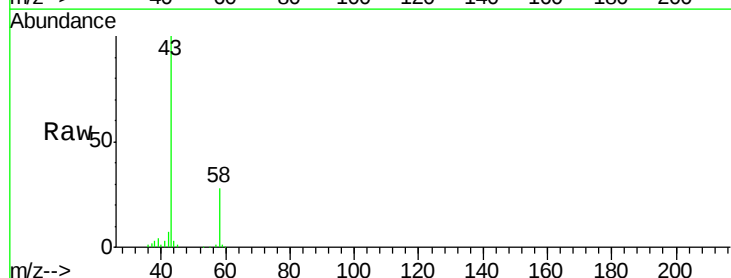
Manual Integrations
APPROVED

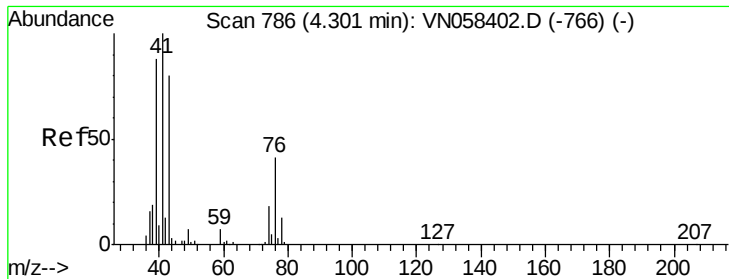
MMDadoda
9/30/2019 10:18:56 AM



#16
Acetone
Concen: 100.700 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.0	22.4	33.6





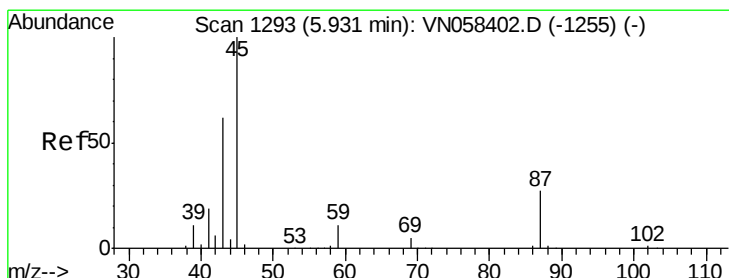
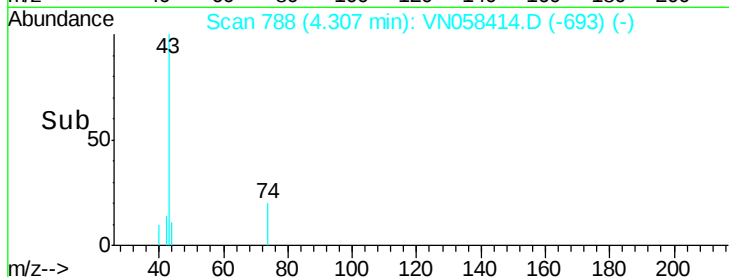
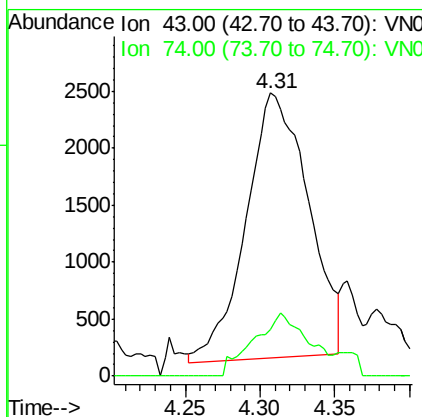
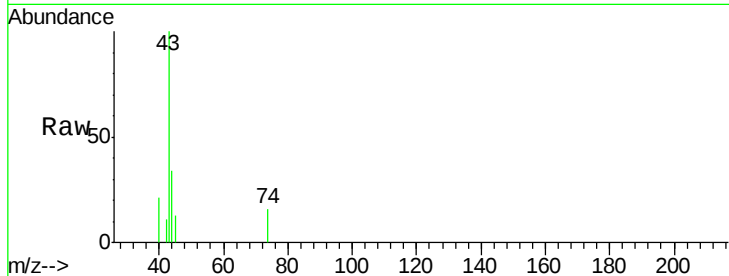
#18
Methvl Acetate
Concen: 1.076 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampled :
40080DL

Tot Ion: 43 Resp: 6732
Ion Ratio Lower Upper
43 100
74 21.3 18.0 27.0

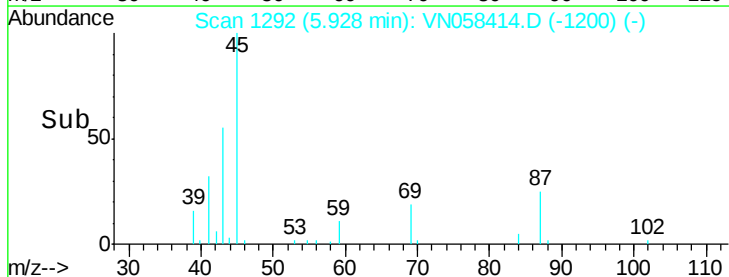
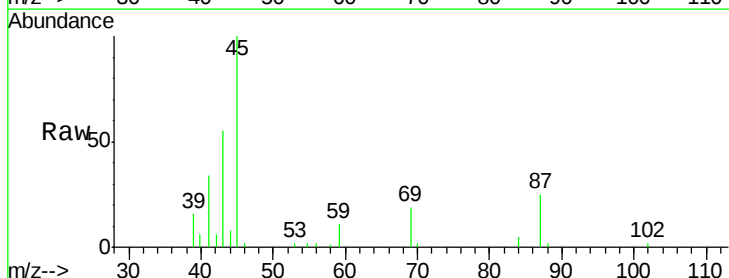
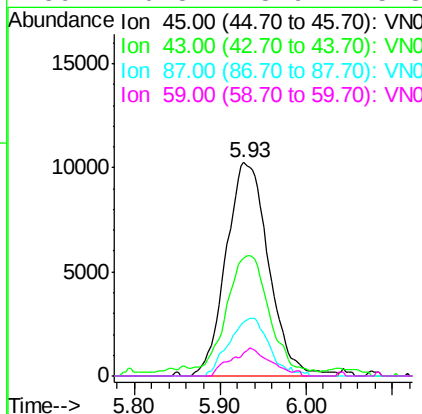
Manual Integrations
APPROVED

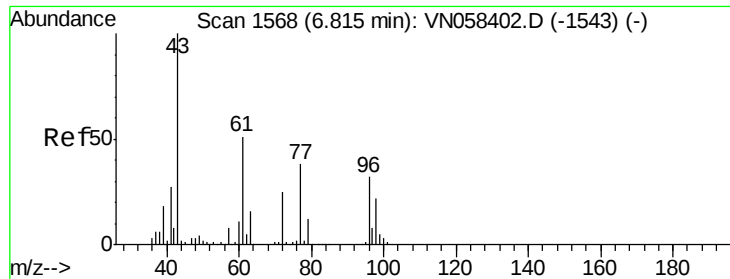
MMDadoda
9/30/2019 10:18:56 AM



#22
Diisopropyl ether
Concen: 1.914 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion: 45 Resp: 35300
Ion Ratio Lower Upper
45 100
43 51.8 49.7 74.5
87 25.1 21.5 32.3
59 10.8 8.9 13.3





#25

2-Butanone

Concen: 22.589 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

40080DL

Tot Ion: 43 Resp: 77149

Ion Ratio Lower Upper

43 100

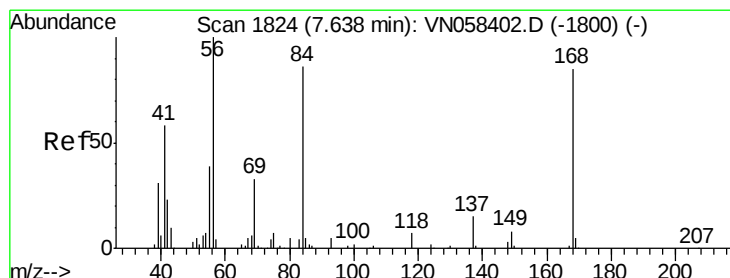
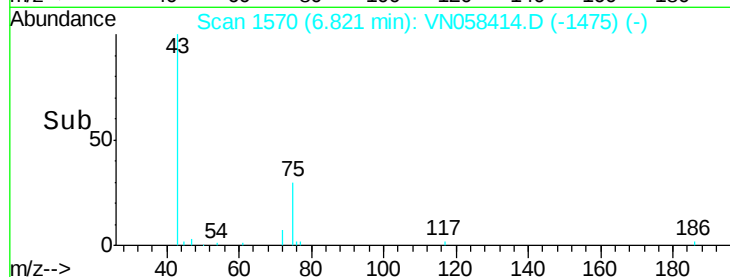
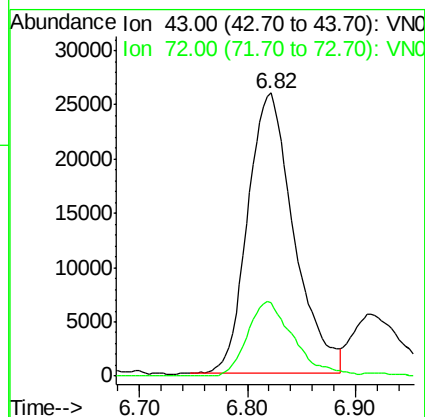
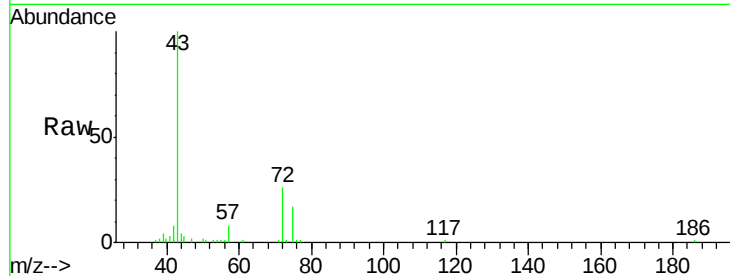
72 26.1 20.2 30.4

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:56 AM



#31

Cyclohexane

Concen: 16.985 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

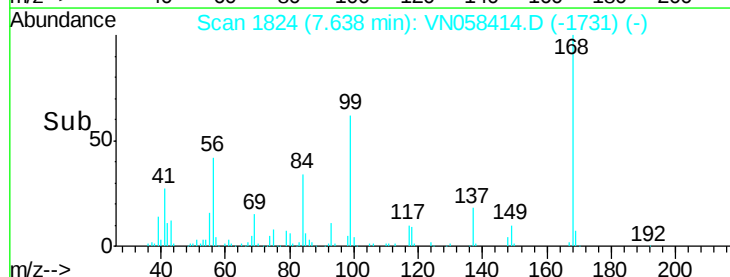
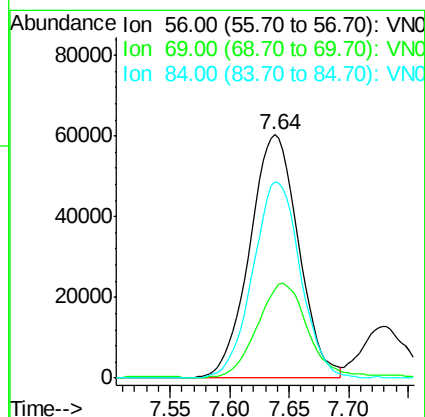
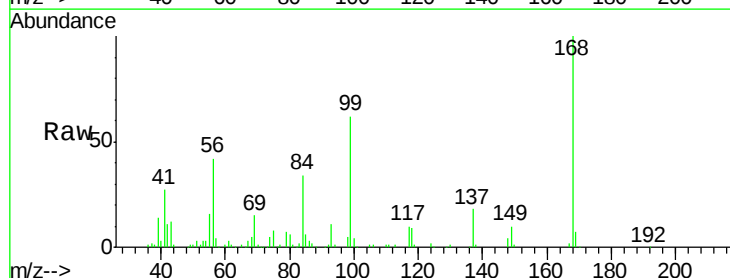
Tgt Ion: 56 Resp: 171529

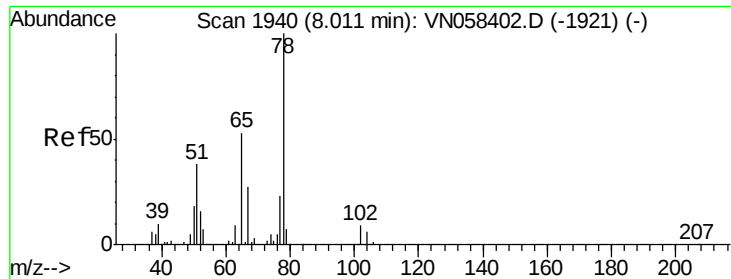
Ion Ratio Lower Upper

56 100

69 36.3 26.2 39.4

84 80.5 67.6 101.4





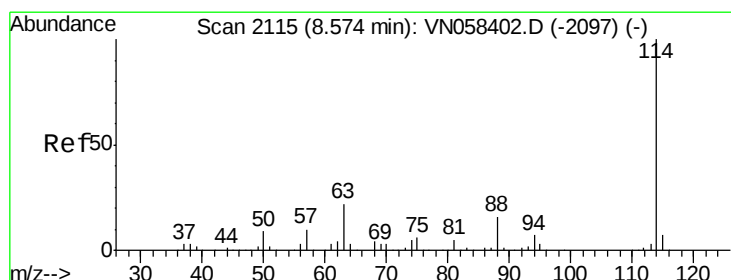
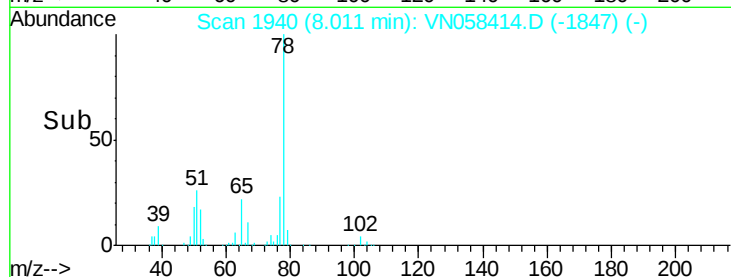
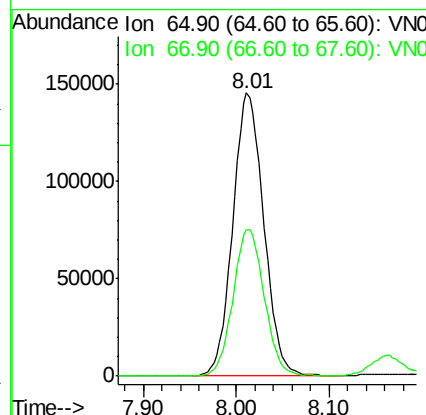
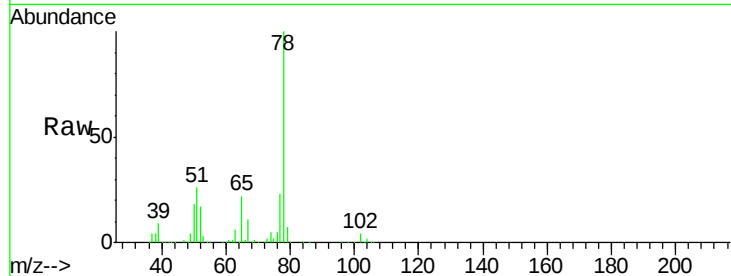
#33
 1,2-Dichloroethane-d4
 Concen: 46.181 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058414.D
 Acq: 27 Sep 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 40080DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.7	0.0	102.4	

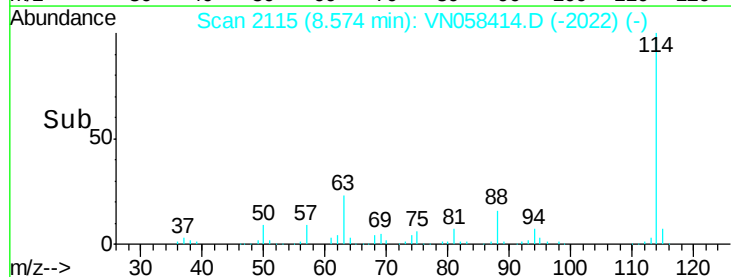
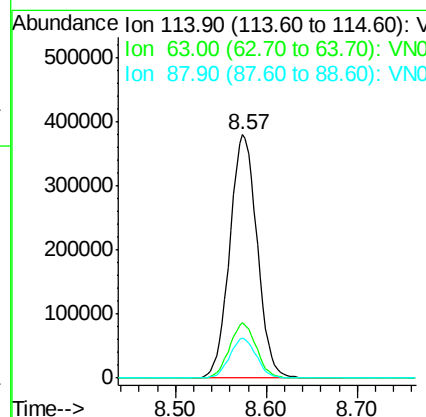
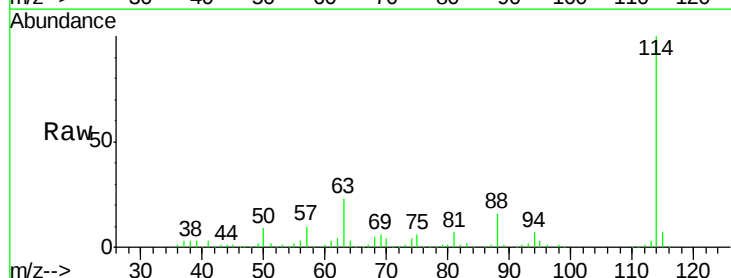
Manual Integrations
 APPROVED

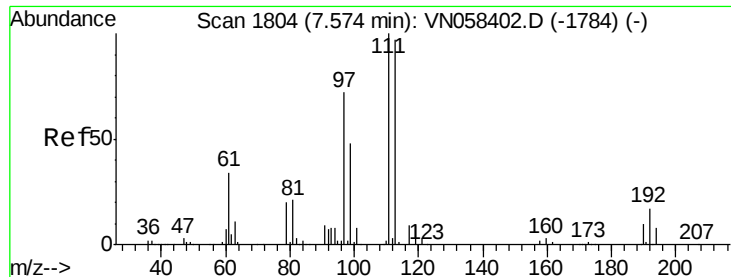
MMDadoda
 9/30/2019 10:18:56 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058414.D
 Acq: 27 Sep 2019 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.6	0.0	45.0	
88	16.4	0.0	32.2	





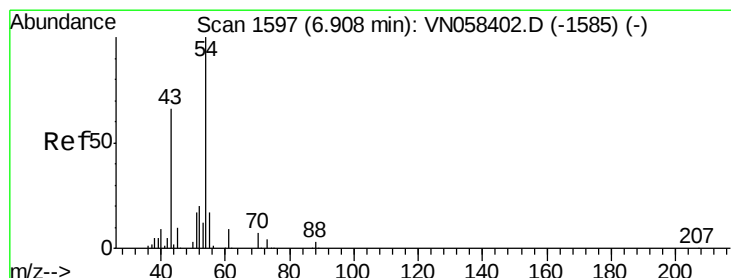
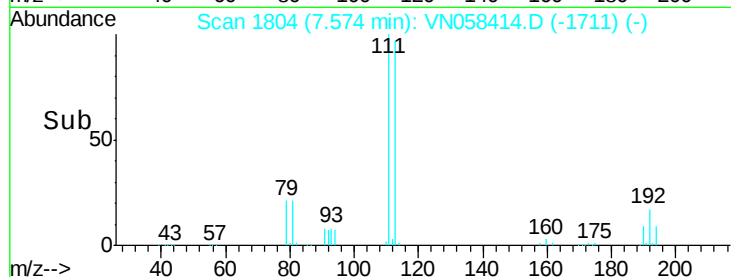
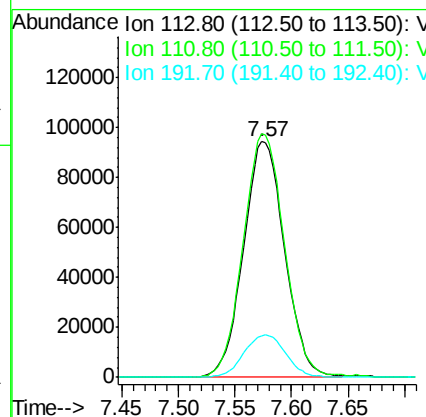
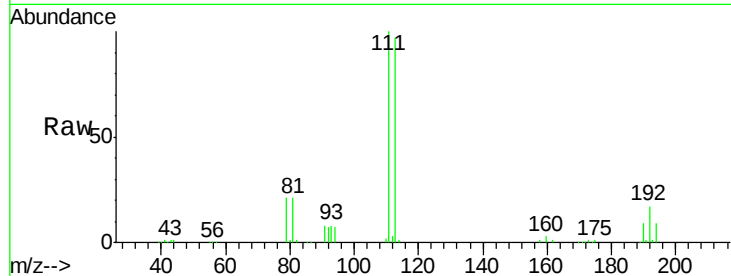
#35
Dibromofluoromethane
Concen: 48.908 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
40080DL

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.7	83.4	125.2	
192	18.4	14.9	22.3	

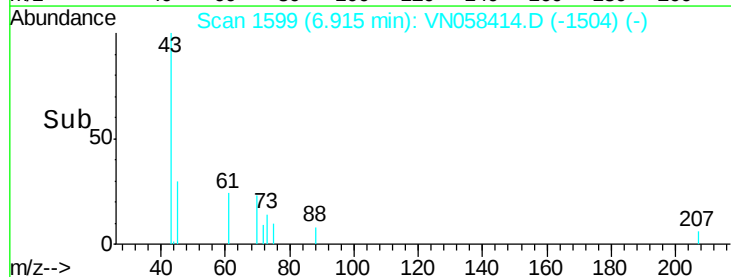
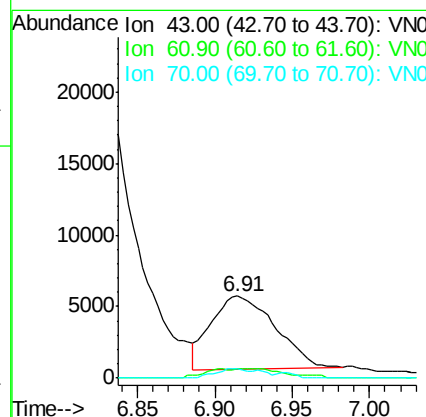
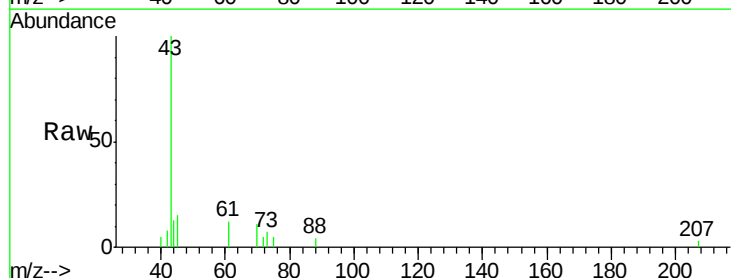
Manual Integrations
APPROVED

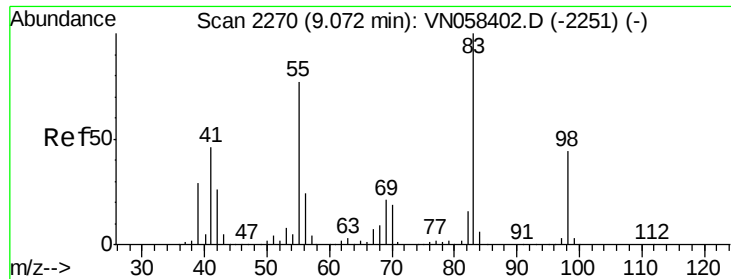
MMDadoda
9/30/2019 10:18:56 AM



#37
Ethyl Acetate
Concen: 2.295 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.01 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
61	5.0	10.5	15.7#	
70	6.1	7.8	11.6#	





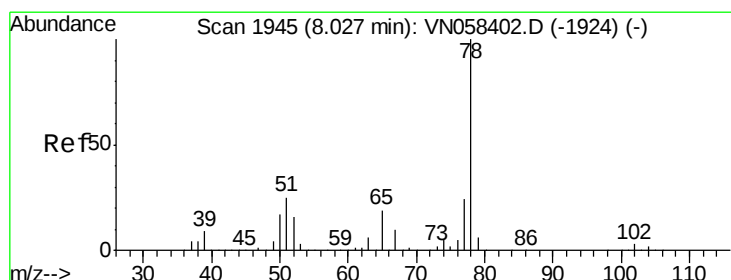
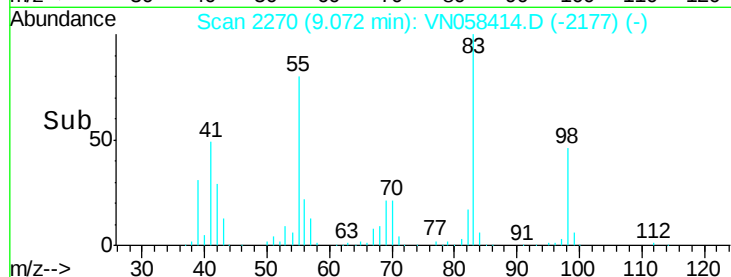
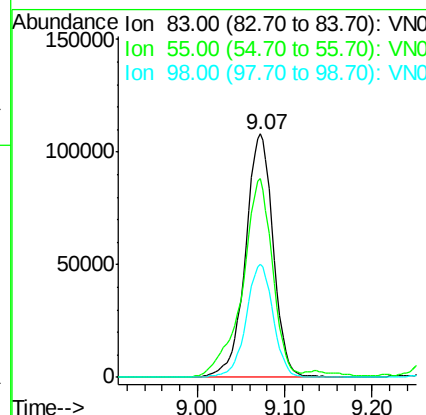
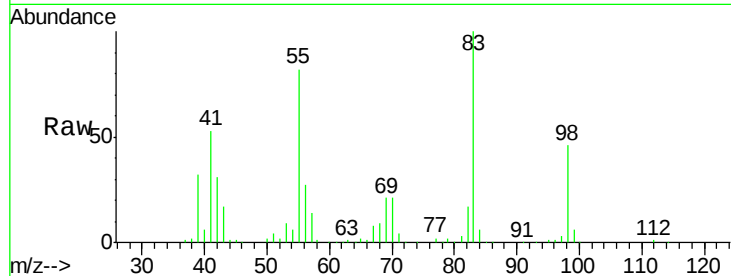
#39
Methvlcvclohexane
Concen: 26.710 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampled :
40080DL

Tot Ion	Ratio	Resp	Lower	Upper
83	100	237308		
55	81.2	61.8	92.6	
98	46.5	35.4	53.0	

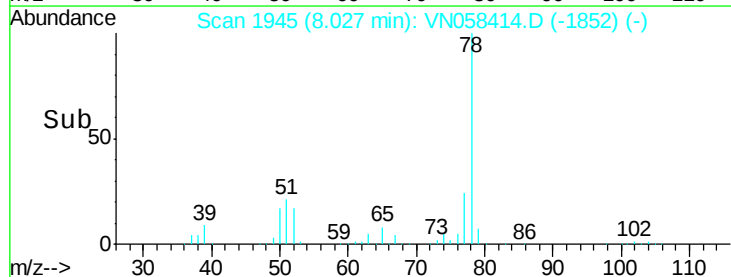
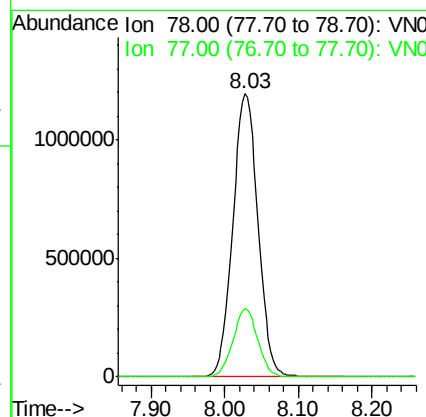
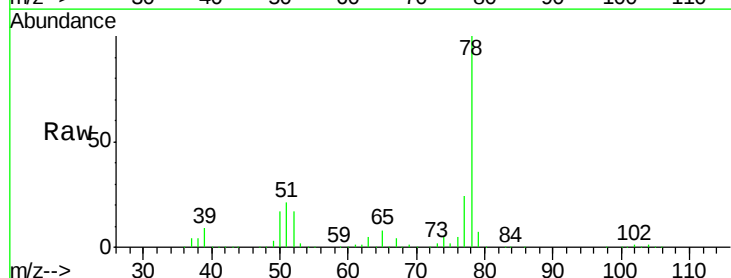
Manual Integrations
APPROVED

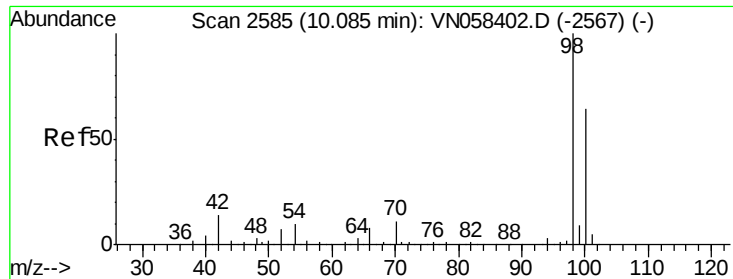
MMDadoda
9/30/2019 10:18:56 AM



#40
Benzene
Concen: 129.629 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	2834914		
77	24.1	18.9	28.3	





#50

Toluene-d8

Concen: 52.732 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

40080DL

Tot Ion: 98 Resp: 1007377

Ion Ratio Lower Upper

98 100

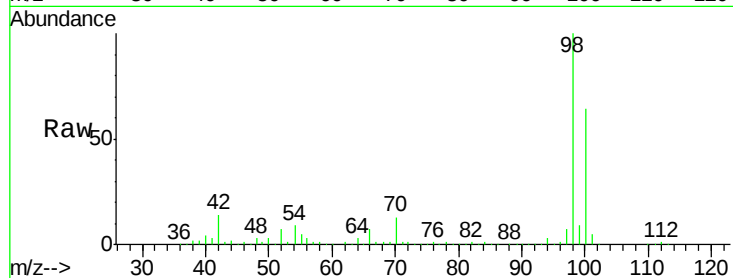
100 63.6 51.0 76.6

Manual Integrations

APPROVED

MMDadoda

9/30/2019 10:18:56 AM



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

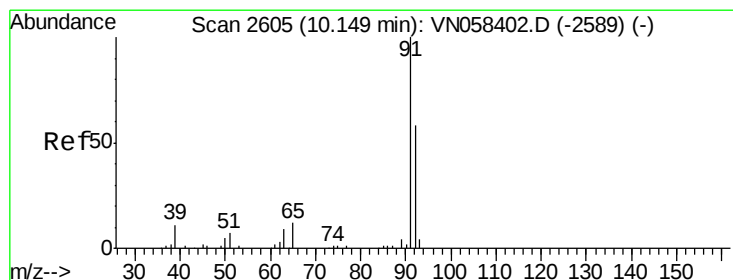
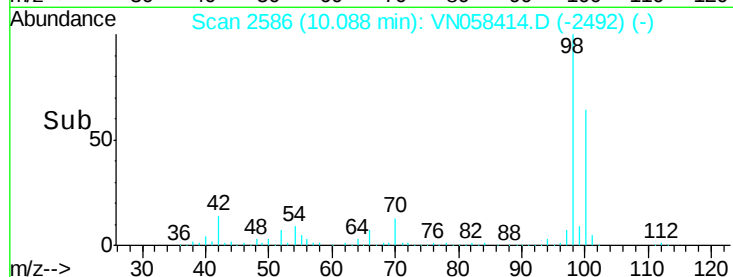
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 586.772 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058414.D

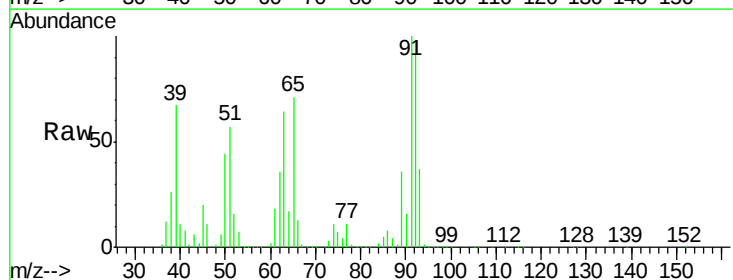
Acq: 27 Sep 2019 17:35

Tgt Ion: 92 Resp: 8077080

Ion Ratio Lower Upper

92 100

91 112.4 140.2 210.4#



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.15

3000000

2500000

2000000

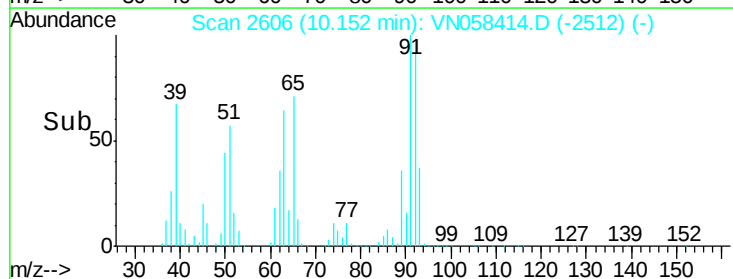
1500000

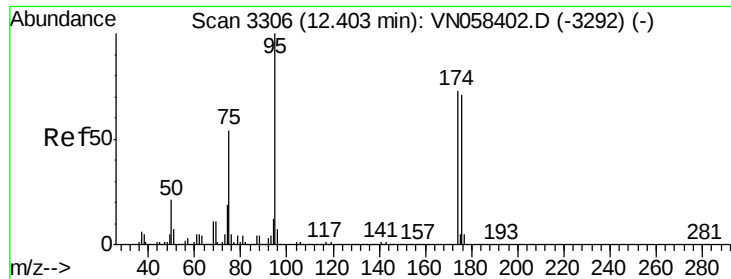
1000000

500000

0

Time-->





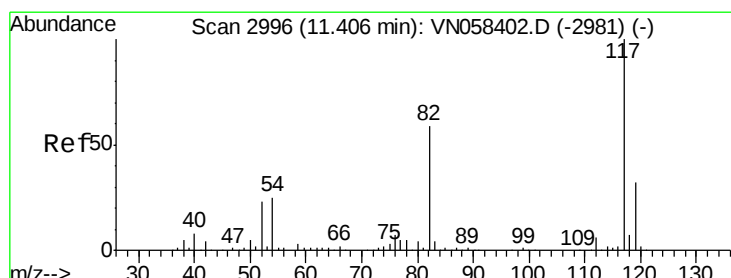
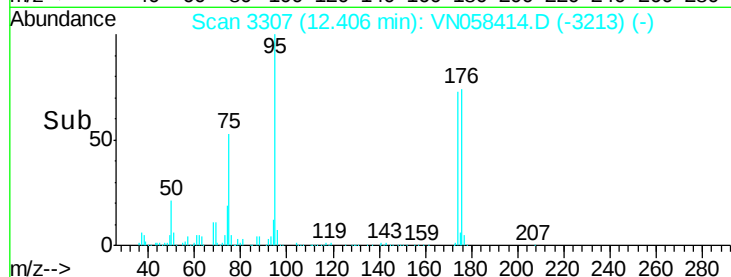
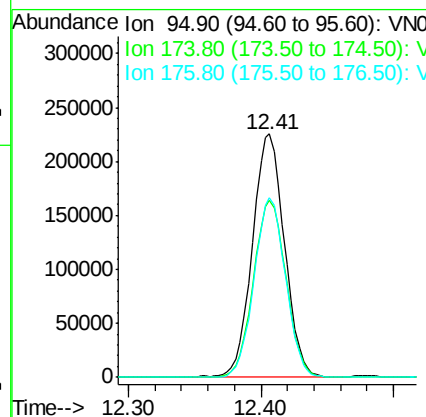
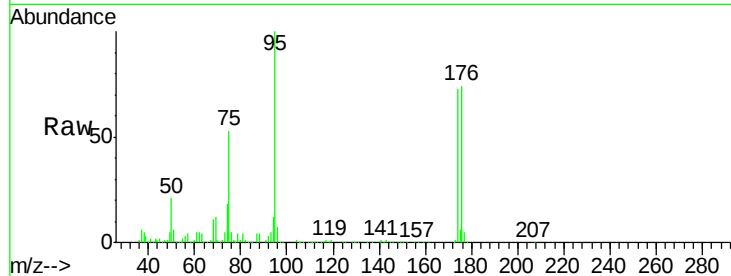
#62
4-Bromofluorobenzene
Concen: 54.266 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
40080DL

Tot Ion	Ratio	Resp	Lower	Upper
95	100	374842		
174	74.6	0.0	150.6	
176	73.1	0.0	146.2	

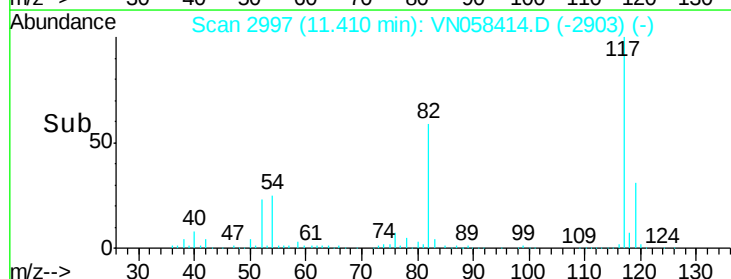
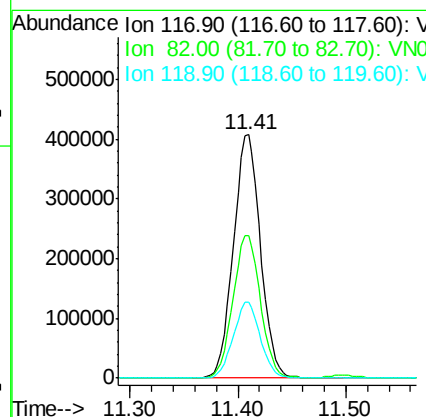
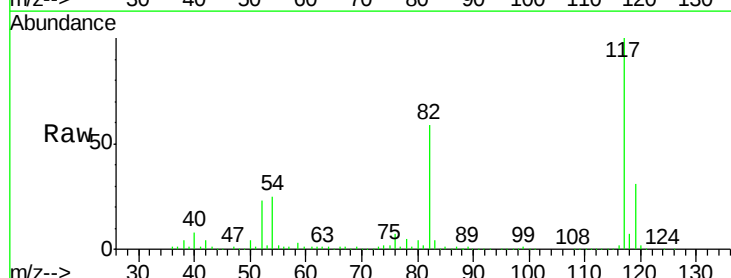
Manual Integrations
APPROVED

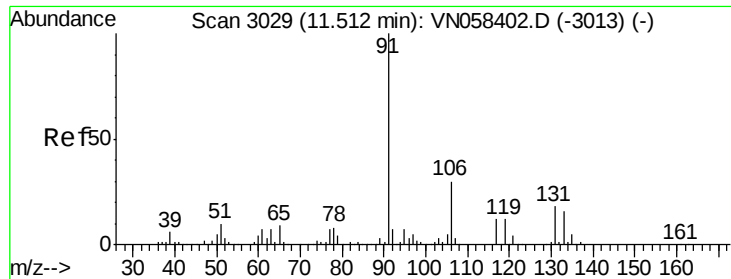
MMDadoda
9/30/2019 10:18:56 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	712776		
82	58.6	47.4	71.0	
119	31.3	25.5	38.3	





#67

Ethyl Benzene

Concen: 186.818 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampled :

40080DL

Tot Ion: 91 Resp: 4794293

Ion Ratio Lower Upper

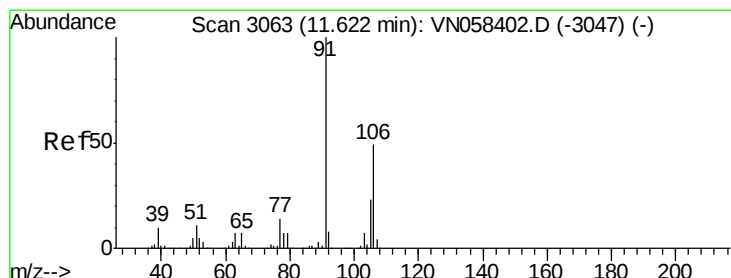
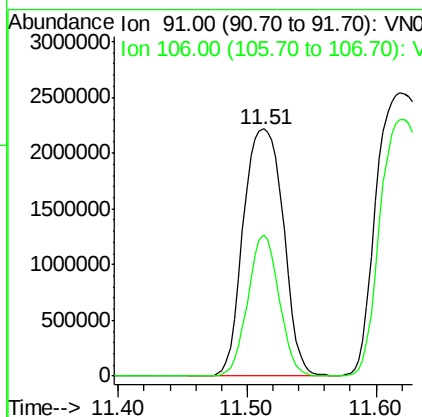
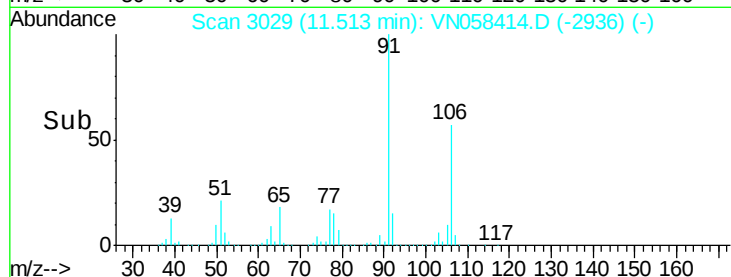
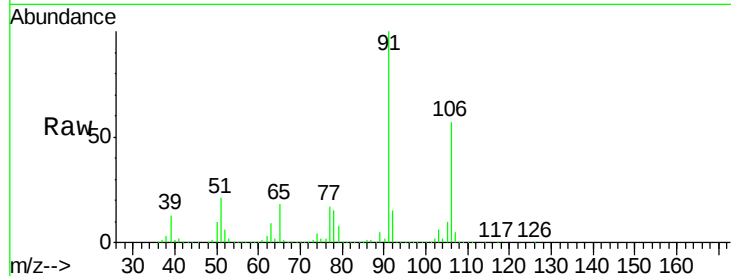
91 100

106 57.4 24.3 36.5#

Manual Integrations
APPROVED

MMDadoda

9/30/2019 10:18:56 AM



#68

m/p-Xylenes

Concen: 586.219 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN058414.D

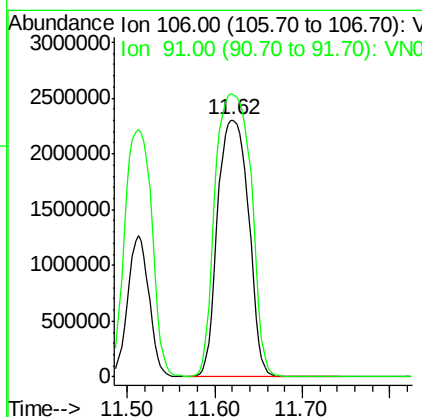
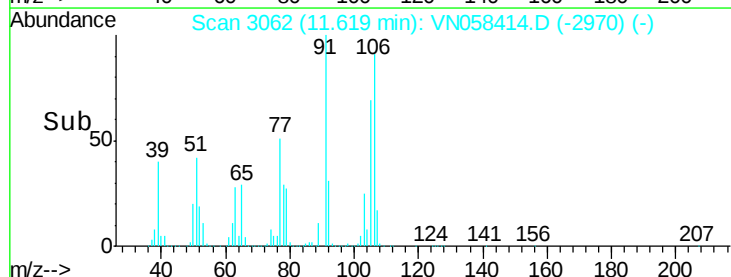
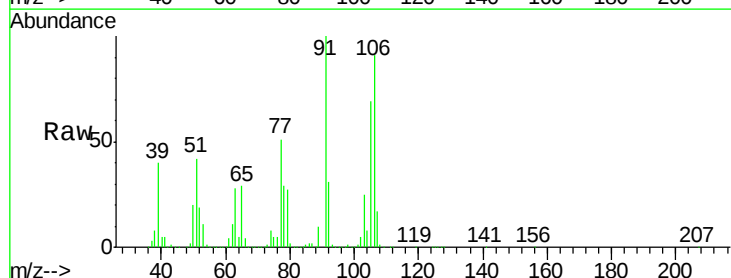
Acq: 27 Sep 2019 17:35

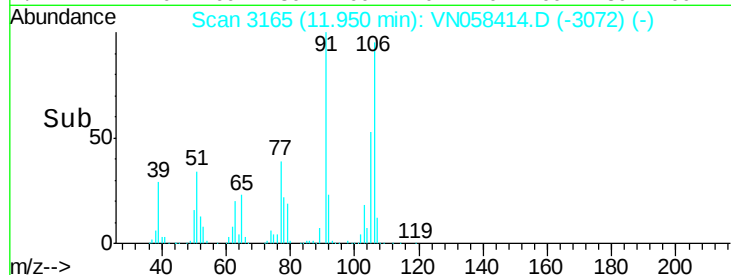
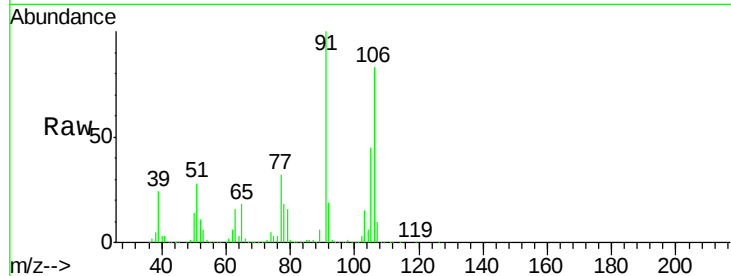
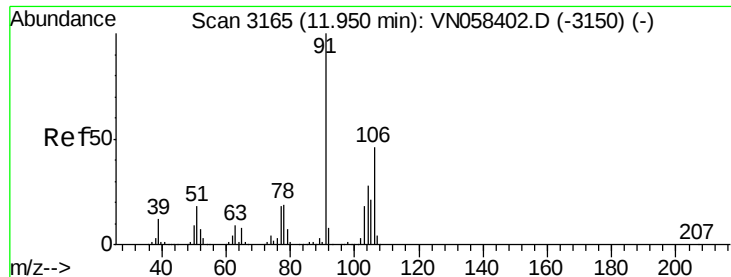
Tgt Ion: 106 Resp: 5660211

Ion Ratio Lower Upper

106 100

91 128.2 165.0 247.4#





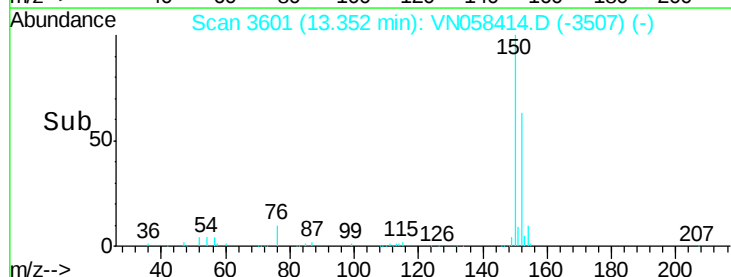
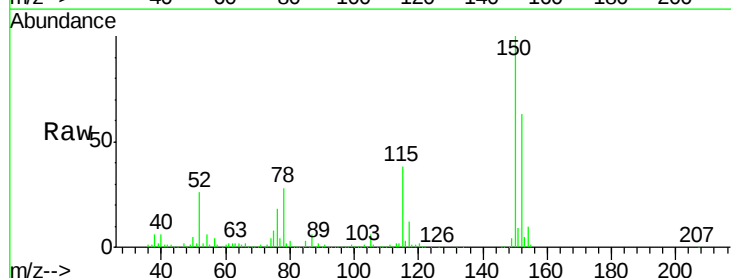
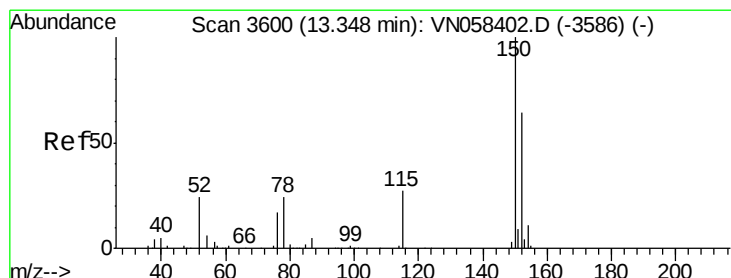
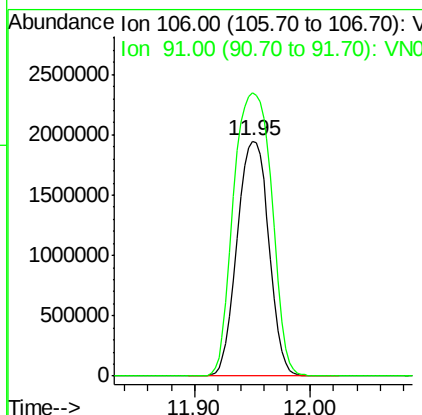
#69
o-Xylene
Concen: 397.060 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tot Ion:106 Resp: 3690568
Ion Ratio Lower Upper
106 100
91 145.7 109.1 327.4

Instrument :
MSVOA_N
ClientSampled :
40080DL

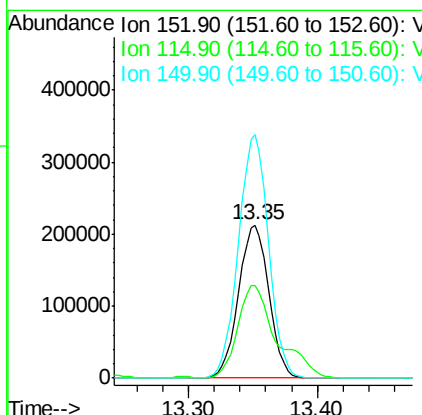
Manual Integrations
APPROVED

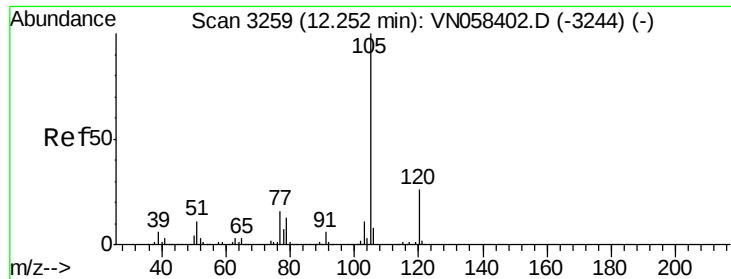
MMDadoda
9/30/2019 10:18:56 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion:152 Resp: 348604
Ion Ratio Lower Upper
152 100
115 75.7 30.0 90.0
150 157.6 0.0 348.2





#73

Isopropylbenzene

Concen: 11.090 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

40080DL

Tot Ion: 105 Resp: 285710

Ion Ratio Lower Upper

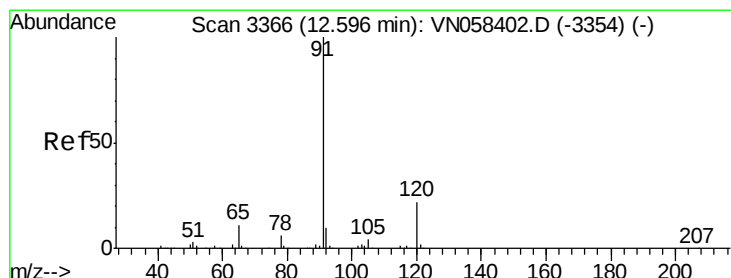
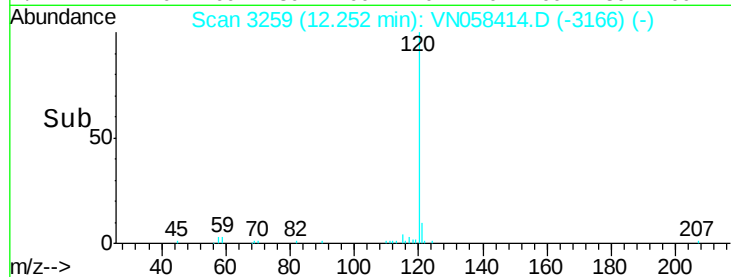
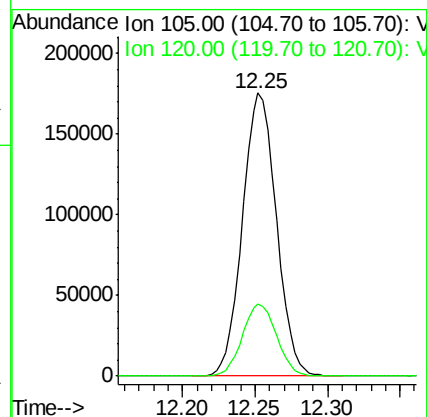
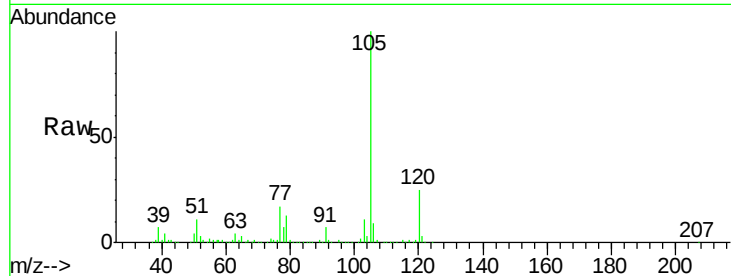
105 100

120 25.7 12.8 38.4

Manual Integrations
APPROVED

MMDadoda

9/30/2019 10:18:56 AM



#78

n-propylbenzene

Concen: 34.025 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058414.D

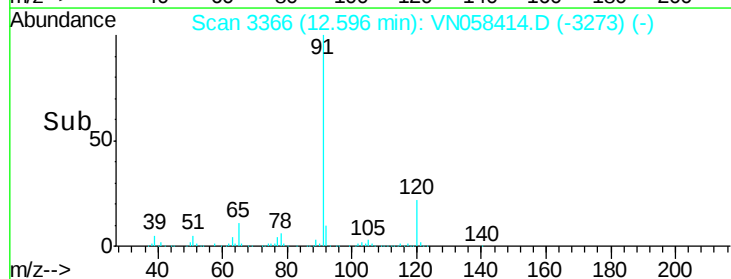
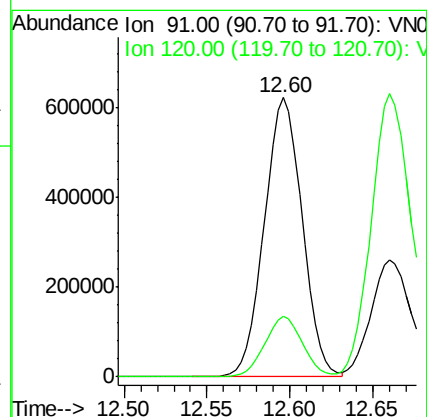
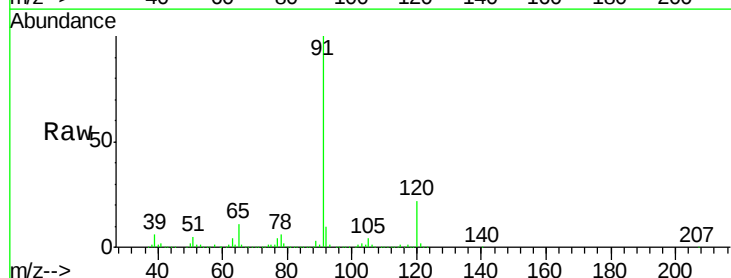
Acq: 27 Sep 2019 17:35

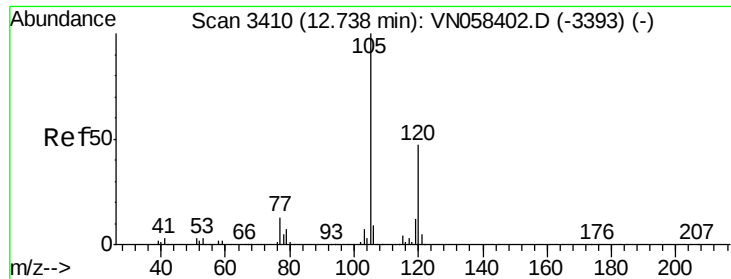
Tgt Ion: 91 Resp: 987551

Ion Ratio Lower Upper

91 100

120 21.4 10.9 32.9





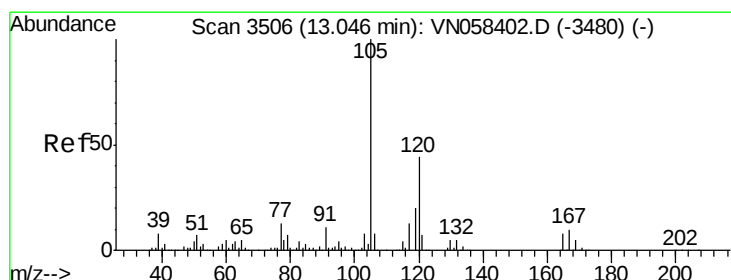
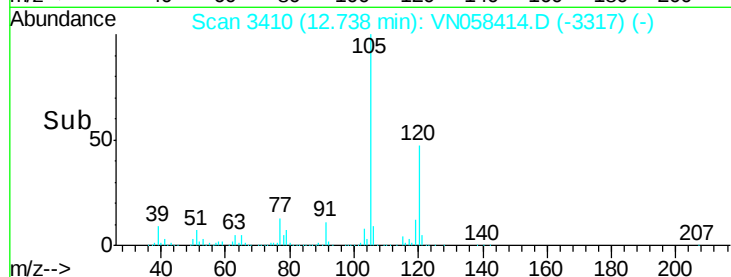
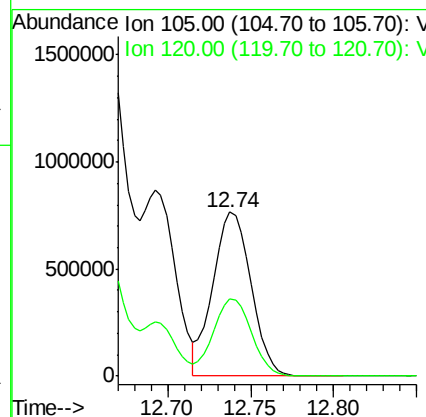
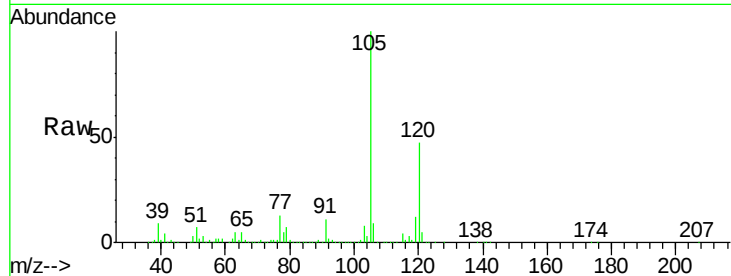
#80
 1,3,5-Trimethylbenzene
 Concen: 56.855 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058414.D
 Acq: 27 Sep 2019 17:35

Instrument :
 MSVOA_N
 ClientSampled :
 40080DL

Tot Ion:105 Resp: 1226139
 Ion Ratio Lower Upper
 105 100
 120 47.5 23.5 70.6

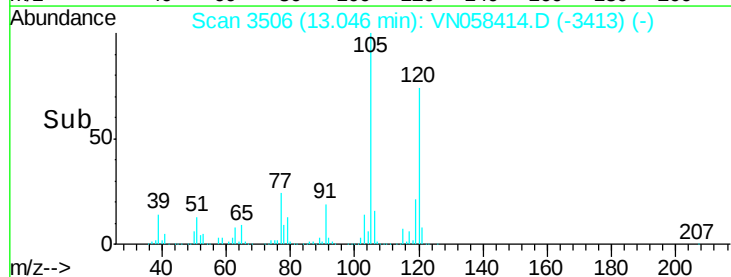
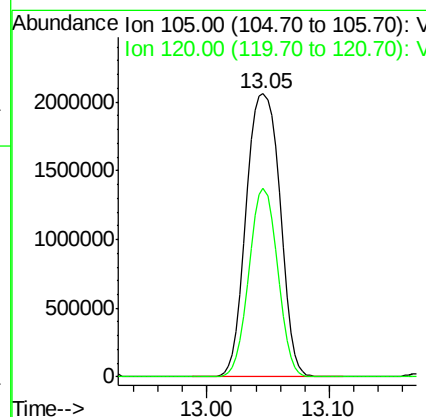
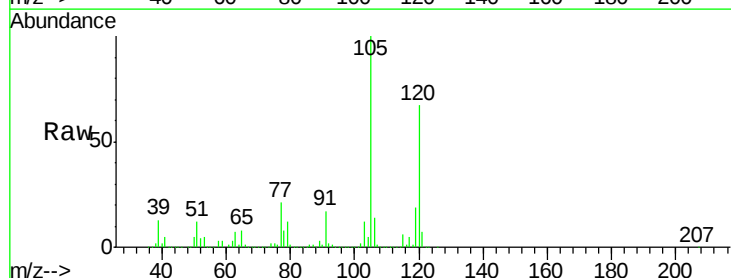
Manual Integrations
 APPROVED

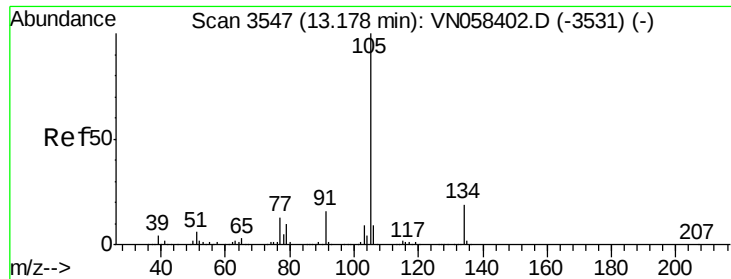
MMDadoda
 9/30/2019 10:18:56 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 182.624 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058414.D
 Acq: 27 Sep 2019 17:35

Tgt Ion:105 Resp: 3945964
 Ion Ratio Lower Upper
 105 100
 120 56.2 21.7 65.1





#85

sec-Butylbenzene

Concen: 2.053 ug/l m

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

40080DL

Tot Ion:105 Resp: 49176

Ion Ratio Lower Upper

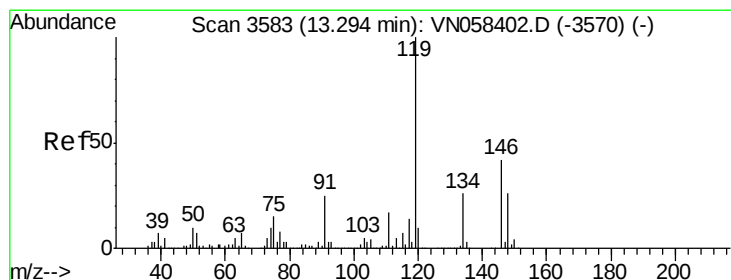
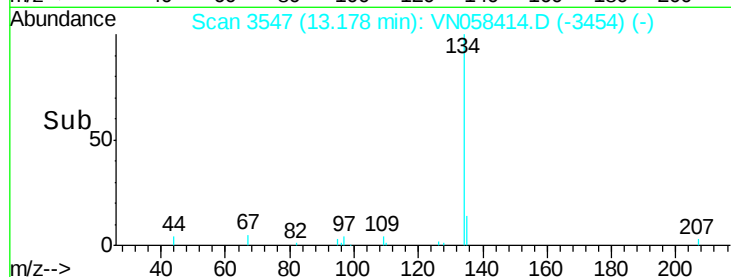
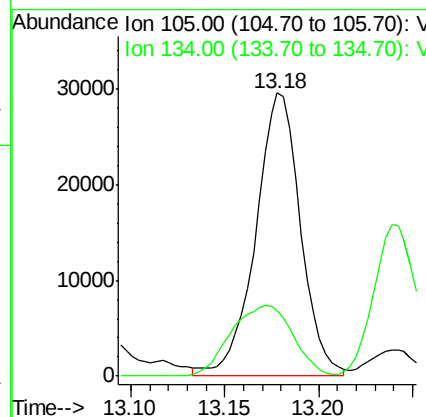
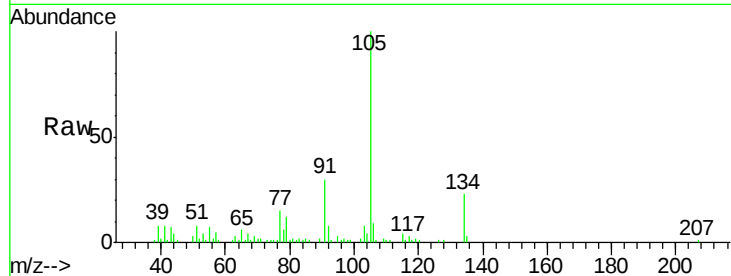
105 100

134 0.0 9.4 28.2#

Manual Integrations
APPROVED

MMDadoda

9/30/2019 10:18:56 AM



#86

p-Isopropyltoluene

Concen: 1.541 ug/l m

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058414.D

Acq: 27 Sep 2019 17:35

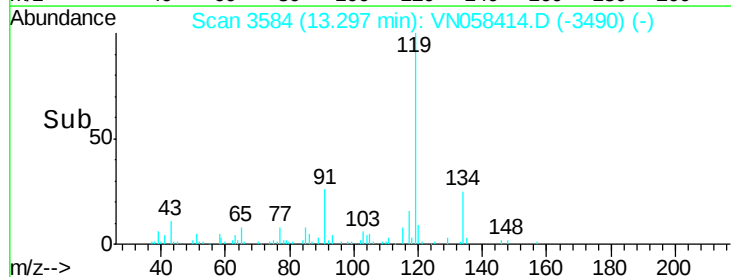
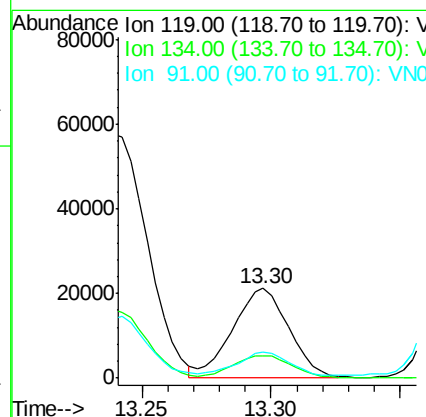
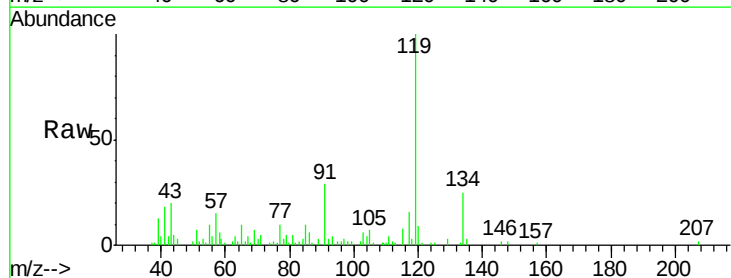
Tgt Ion:119 Resp: 32484

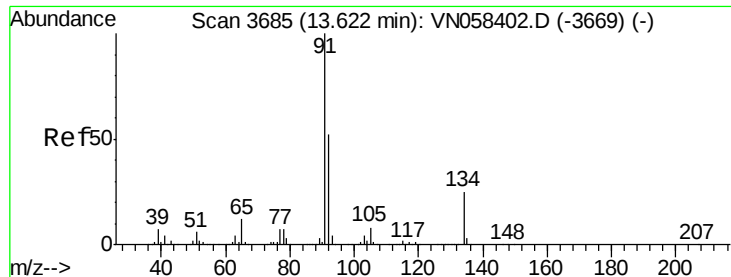
Ion Ratio Lower Upper

119 100

134 77.4 13.0 39.0#

91 67.6 12.4 37.0#





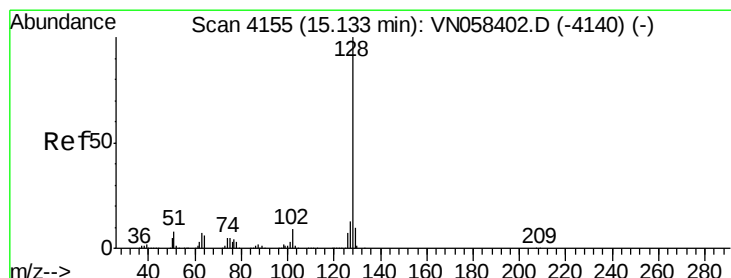
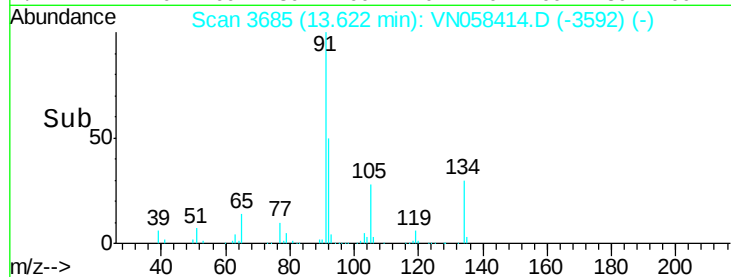
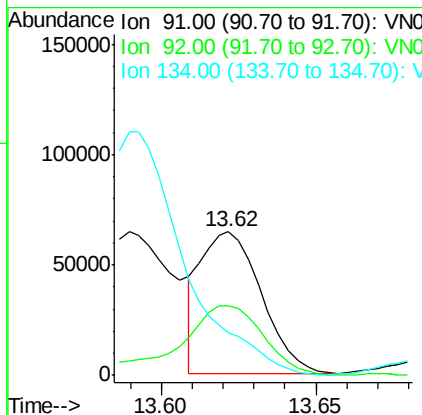
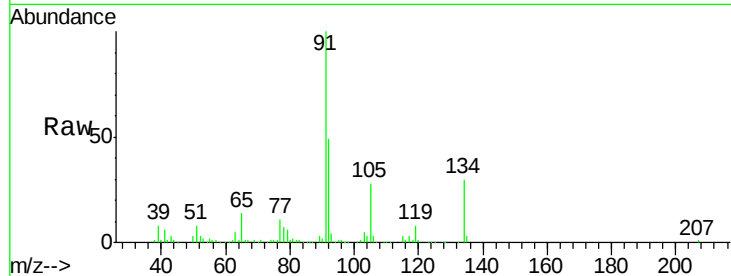
#89
n-Butylbenzene
Concen: 4.526 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampled :
40080DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	69.6	25.7	77.1
134	0.0	12.2	36.6#

Manual Integrations
APPROVED

MMDadoda
9/30/2019 10:18:56 AM



#95
Naphthalene
Concen: 67.683 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058414.D
Acq: 27 Sep 2019 17:35

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.7	8.3	12.5

