

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101019\
 Data File : VN058649.D
 Acq On : 9 Oct 2019 18:48
 Operator : JC/SP
 Sample : K5184-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

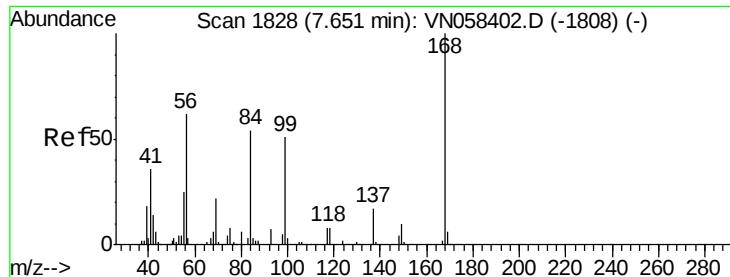
Manual Integrations
 APPROVED

MMDadoda
 10/10/2019 3:20:31 PM

Quant Time: Oct 10 05:08:07 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	443157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	696307	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	609567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	267106	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	295997	45.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.42%	
35) Dibromofluoromethane	7.57	113	213385	50.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
50) Toluene-d8	10.08	98	890224	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
62) 4-Bromofluorobenzene	12.40	95	310502	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
Target Compounds						
					Qvalue	
25) 2-Butanone	6.82	43	22610	7.460	ug/l	92
31) Cyclohexane	7.63	56	283954	31.682	ug/l	95
39) Methylcyclohexane	9.07	83	236219	30.381	ug/l	93
40) Benzene	8.03	78	1592501	83.210	ug/l	98
52) Toluene	10.15	92	175198	14.544	ug/l	99
67) Ethyl Benzene	11.51	91	826873	37.676	ug/l	98
68) m/p-Xylenes	11.62	106	342830	41.518	ug/l	97
69) o-Xylene	11.95	106	34290	4.314	ug/l	98
73) Isopropylbenzene	12.25	105	1749799	88.643	ug/l	99
78) n-propylbenzene	12.60	91	1524061	68.531	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	191109	11.565	ug/l	99
83) tert-Butylbenzene	13.00	119	41574	2.982	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	44311	2.676	ug/l	99
85) sec-Butylbenzene	13.18	105	127587	6.952	ug/l #	63
86) p-Isopropyltoluene	13.30	119	21546m	1.334	ug/l	
89) n-Butylbenzene	13.62	91	107848m	7.370	ug/l	
95) Naphthalene	15.13	128	277312	21.233	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

ClientSampleId :

MW-3

Tot Ion:168 Resp: 443157

Ion Ratio Lower Upper

168 100

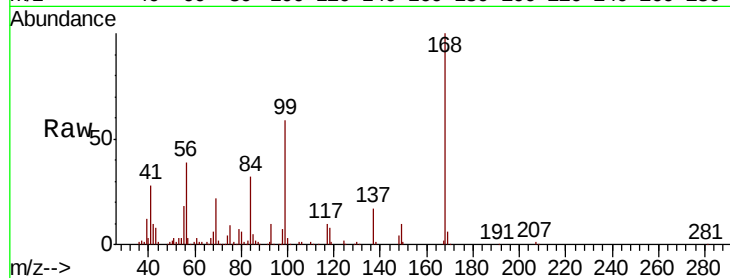
99 59.2 47.7 71.5

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

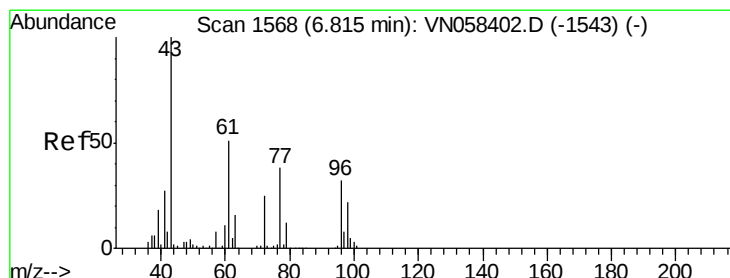
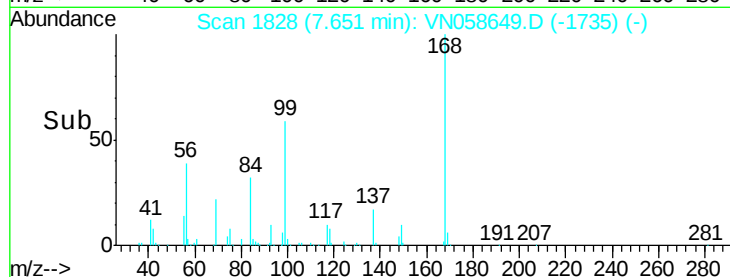
150000

100000

50000

0

Time-->



#25

2-Butanone

Concen: 7.460 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN058649.D

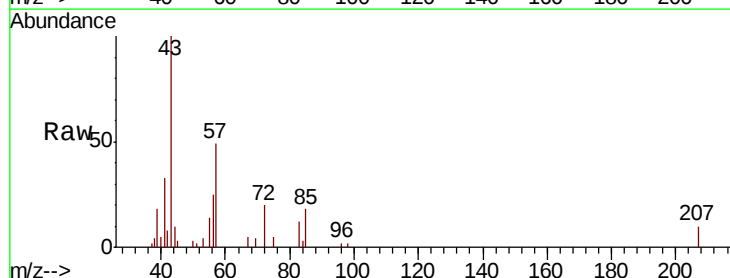
Acq: 9 Oct 2019 18:48

Tgt Ion: 43 Resp: 22610

Ion Ratio Lower Upper

43 100

72 21.3 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 72.00 (71.70 to 72.70): VN

6.82

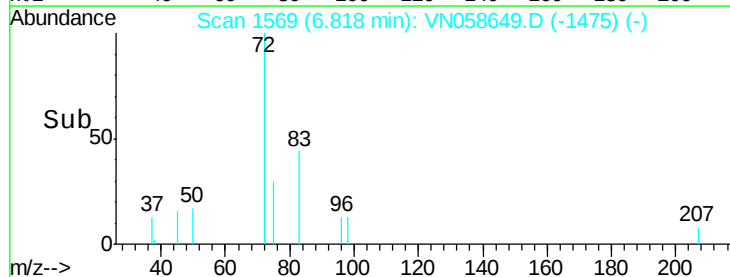
6000

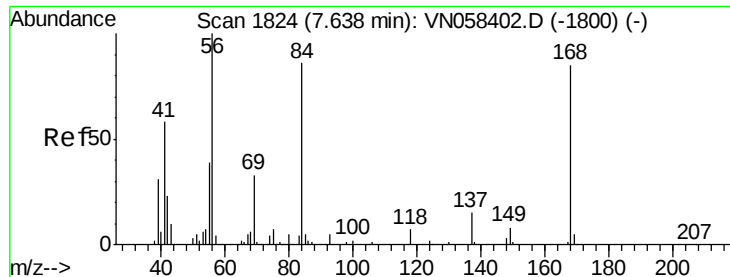
4000

2000

0

Time-->





#31

Cyclohexane

Concen: 31.682 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. -0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

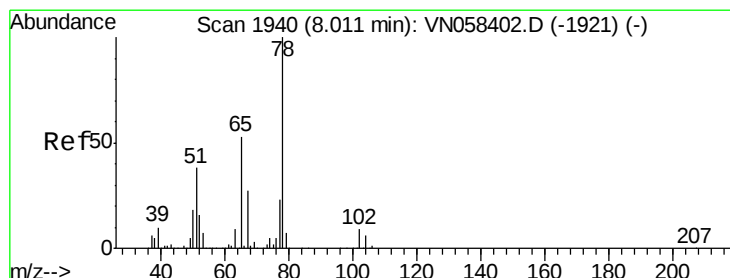
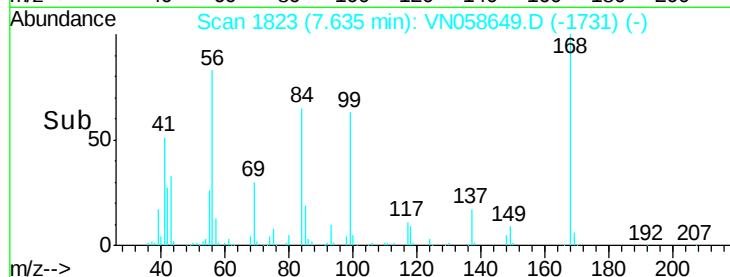
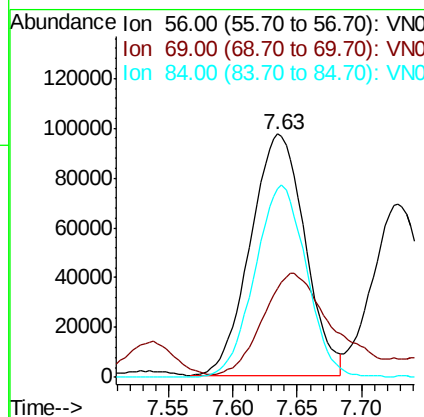
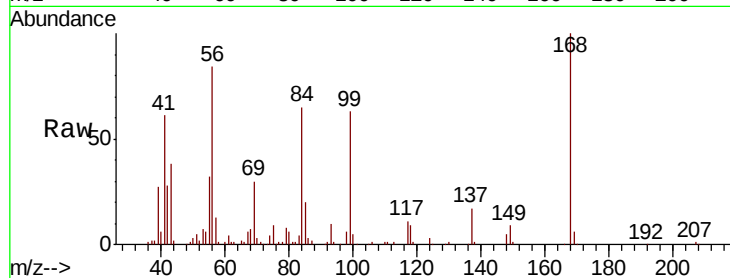
ClientSampled :

MW-3

Tot Ion:	56	Resp:	283954
Ion Ratio	Lower	Upper	
56	100		
69	32.9	26.2	39.4
84	78.3	67.6	101.4

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#33

1,2-Dichloroethane-d4

Concen: 45.707 ug/l

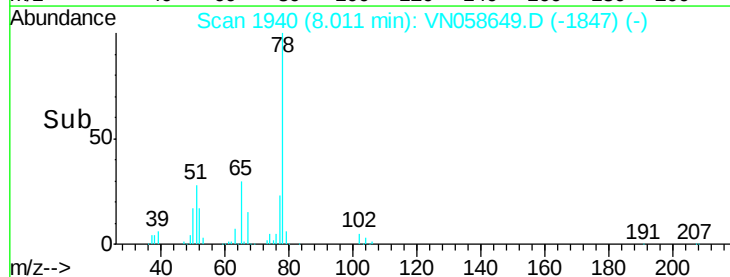
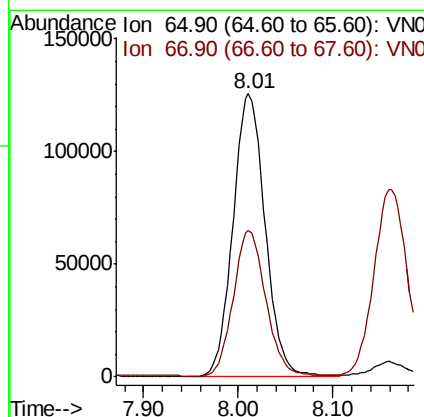
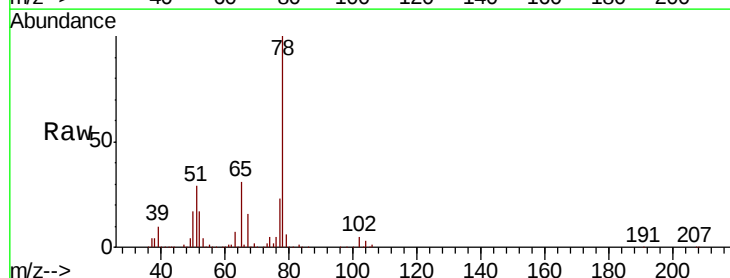
RT: 8.01 min Scan# 1940

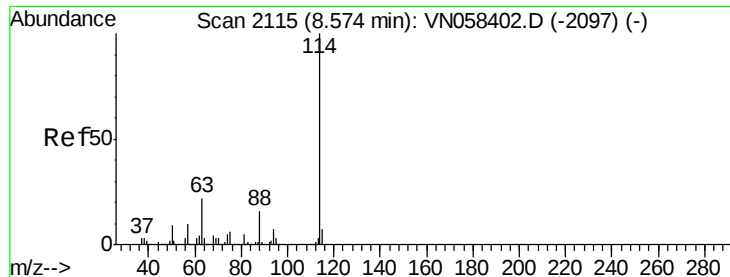
Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Tgt Ion:	65	Resp:	295997
Ion Ratio	Lower	Upper	
65	100		
67	52.8	0.0	102.4





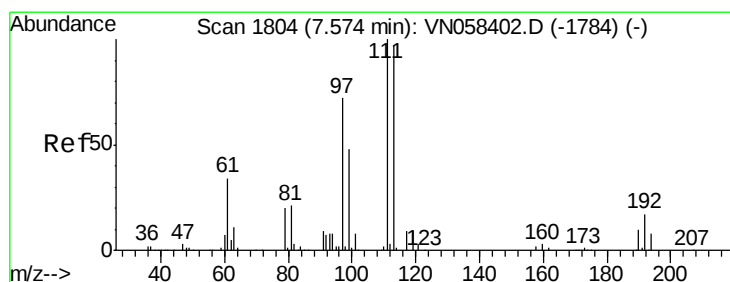
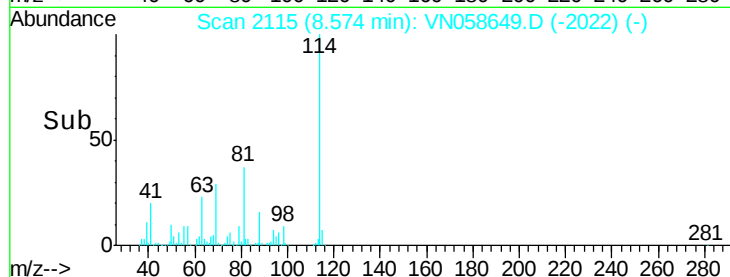
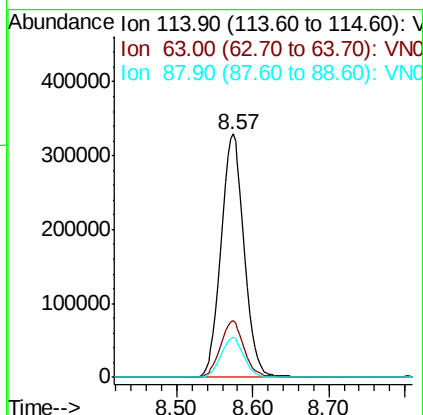
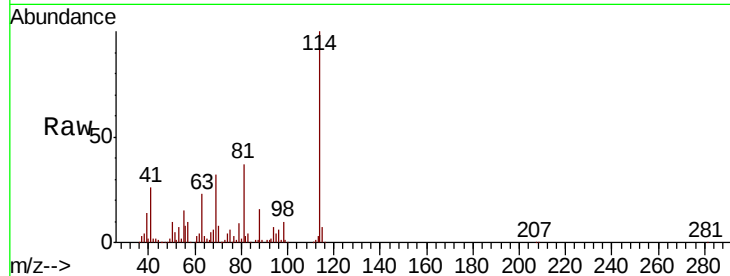
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Instrument :
 MSVOA_N
 ClientSampled :
 MW-3

Tot Ion	Ratio	Resp	Lower	Upper
114	100	696307		
63	23.1	0.0	45.0	
88	16.4	0.0	32.2	

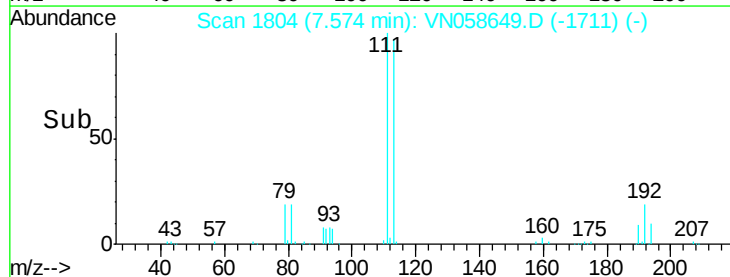
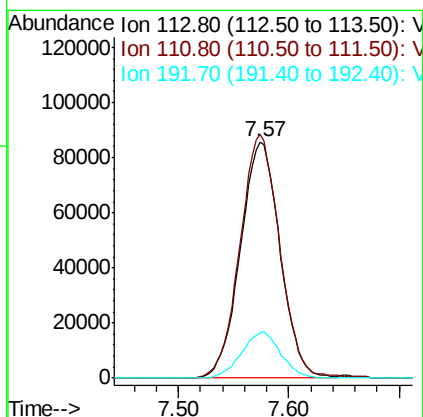
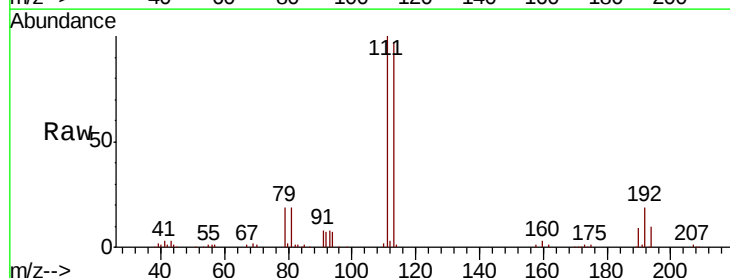
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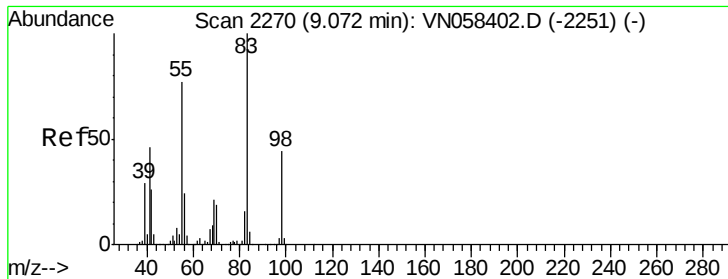
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#35
 Dibromofluoromethane
 Concen: 50.001 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	213385		
111	103.3	83.4	125.2	
192	19.3	14.9	22.3	





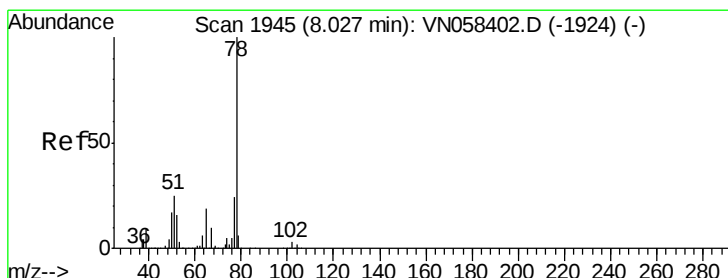
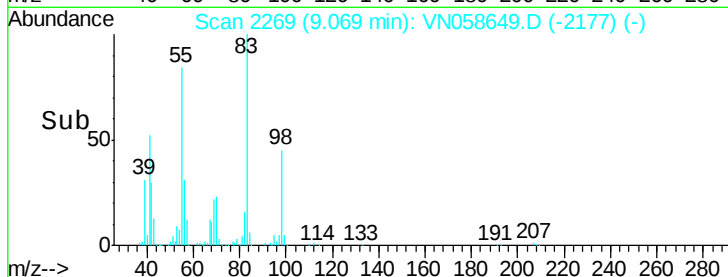
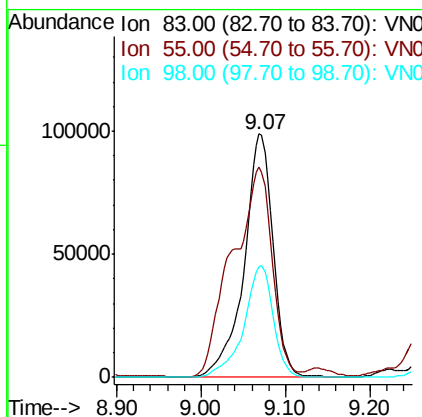
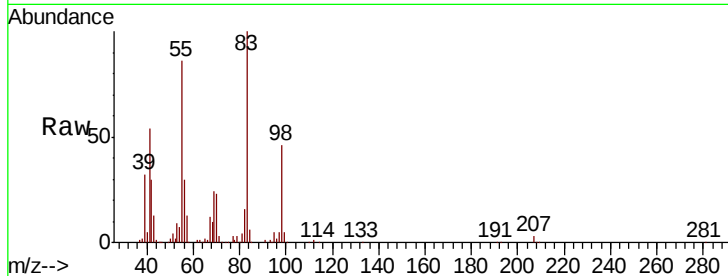
#39
Methvlcvclohexane
Concen: 30.381 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058649.D
Acq: 9 Oct 2019 18:48

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	61.8	92.6
98	45.6	35.4	53.0

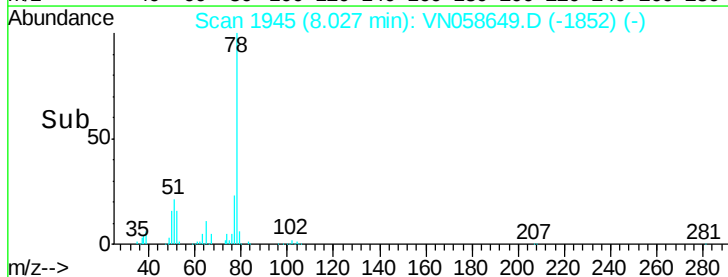
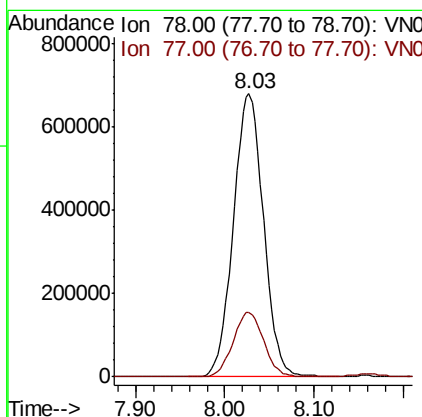
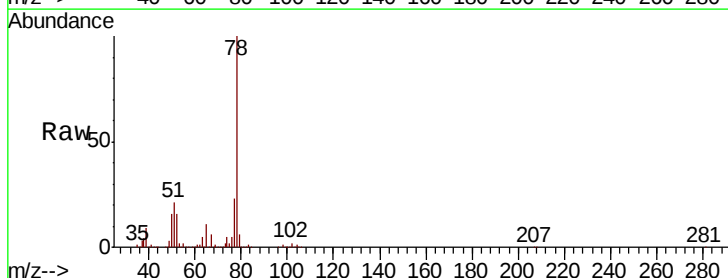
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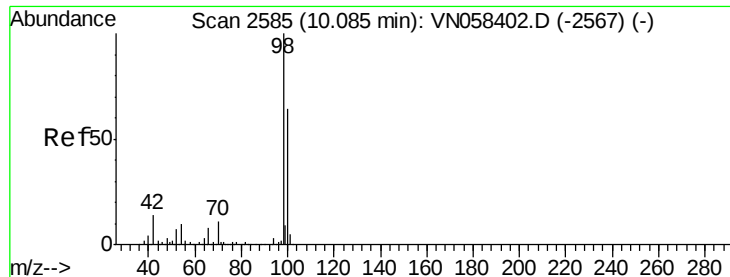
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#40
Benzene
Concen: 83.210 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058649.D
Acq: 9 Oct 2019 18:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.9	28.3





#50

Toluene-d8

Concen: 53.250 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

ClientSampleId :

MW-3

Tot Ion: 98 Resp: 890224

Ion Ratio Lower Upper

98 100

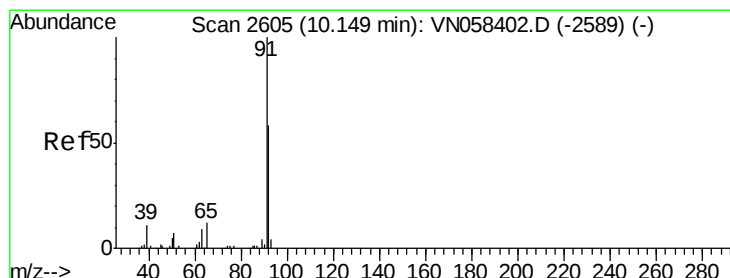
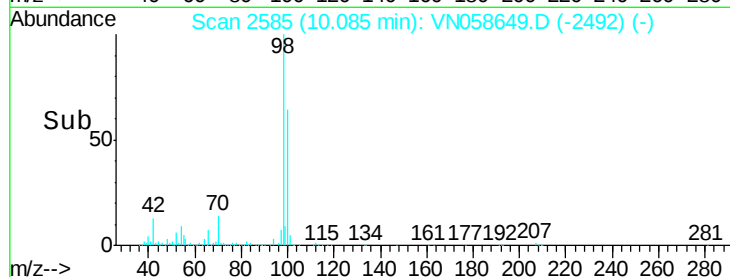
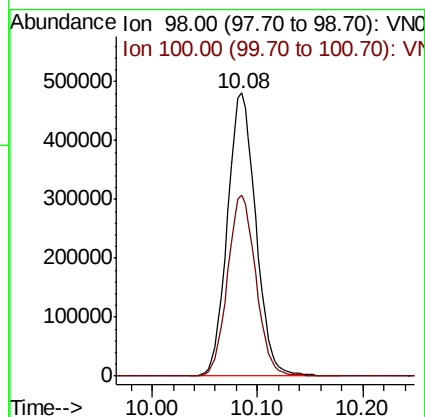
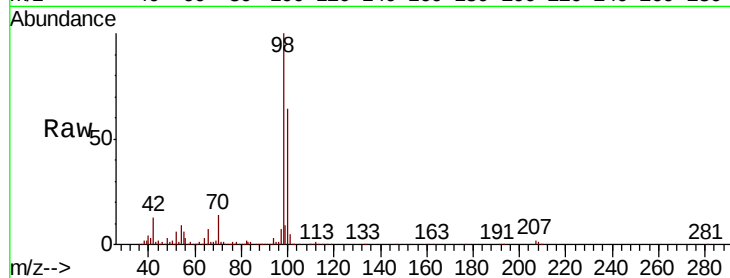
100 64.2 51.0 76.6

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#52

Toluene

Concen: 14.544 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058649.D

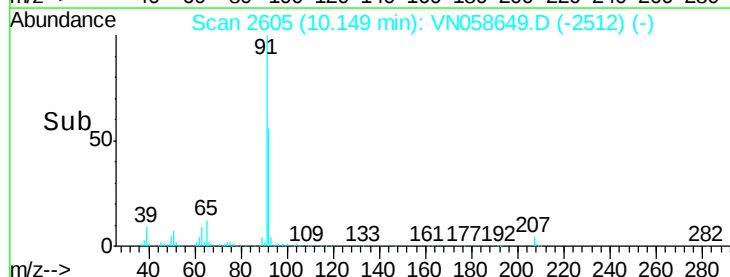
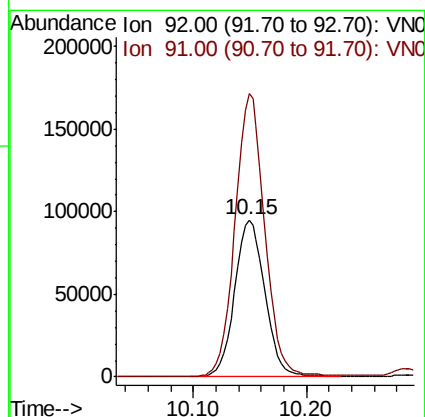
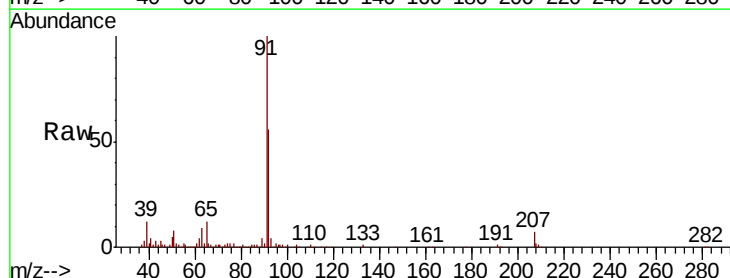
Acq: 9 Oct 2019 18:48

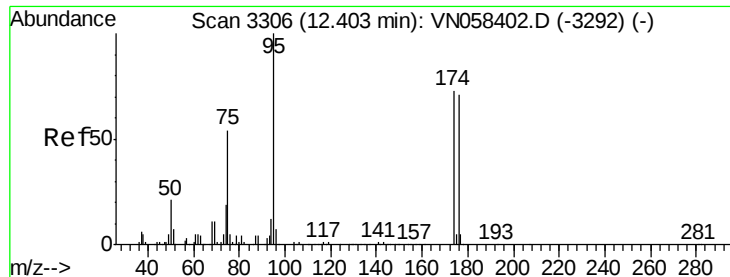
Tgt Ion: 92 Resp: 175198

Ion Ratio Lower Upper

92 100

91 176.7 140.2 210.4





#62

4-Bromofluorobenzene

Concen: 51.366 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

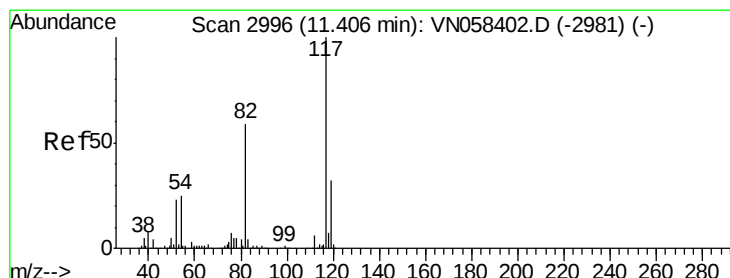
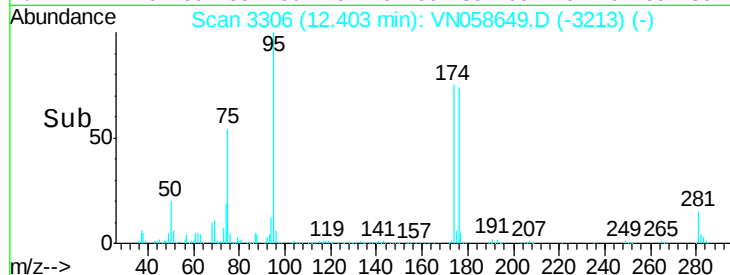
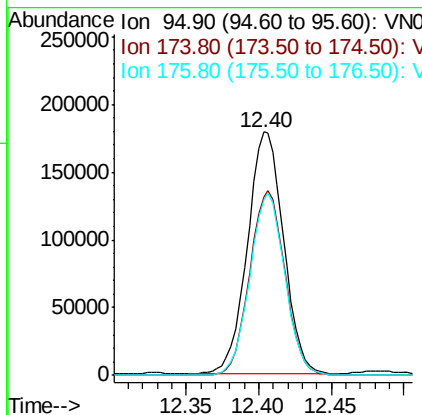
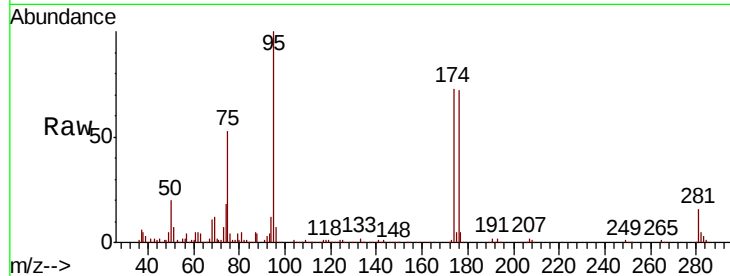
ClientSampleId :

MW-3

Tot Ion:	95	Resp:	310502
Ion Ratio	Lower	Upper	
95	100		
174	74.4	0.0	150.6
176	72.8	0.0	146.2

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

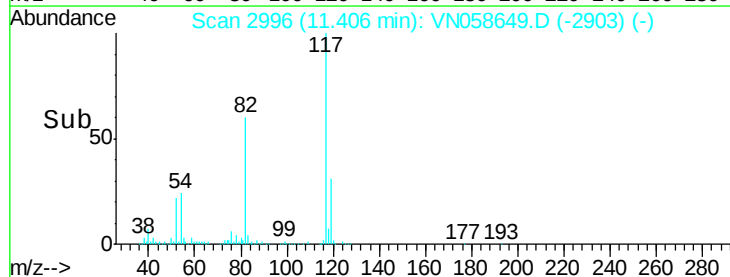
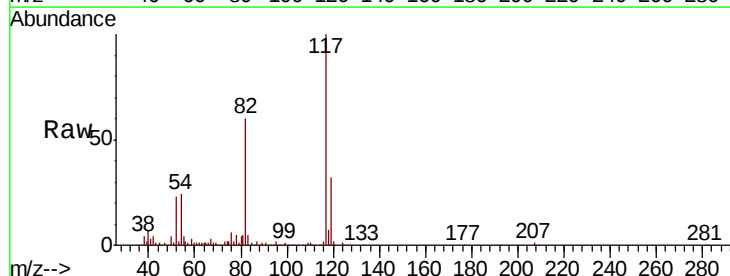
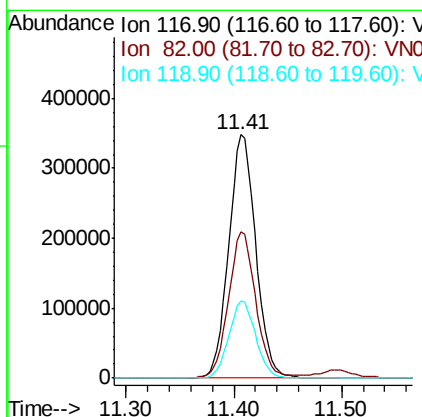
RT: 11.41 min Scan# 2996

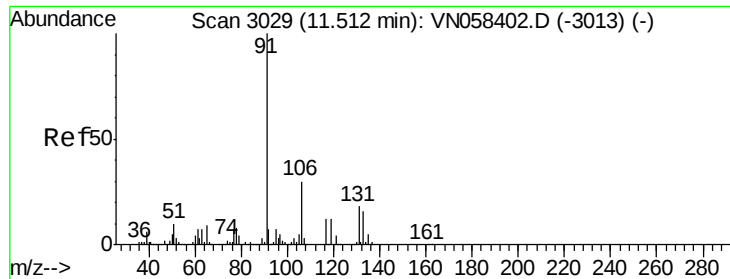
Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Tgt Ion:	117	Resp:	609567
Ion Ratio	Lower	Upper	
117	100		
82	60.0	47.4	71.0
119	31.5	25.5	38.3





#67

Ethyl Benzene

Concen: 37.676 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion: 91 Resp: 826873

Ion Ratio Lower Upper

91 100

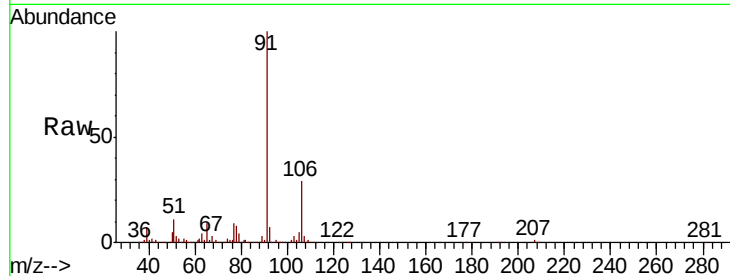
106 29.5 24.3 36.5

Manual Integrations

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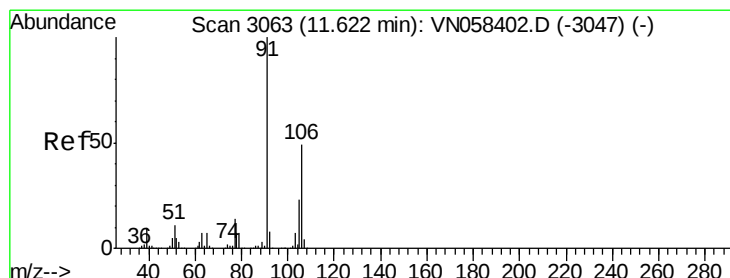
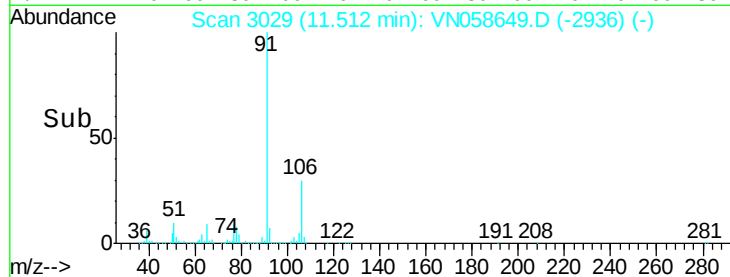
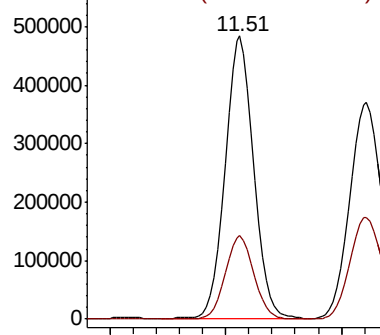
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 41.518 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058649.D

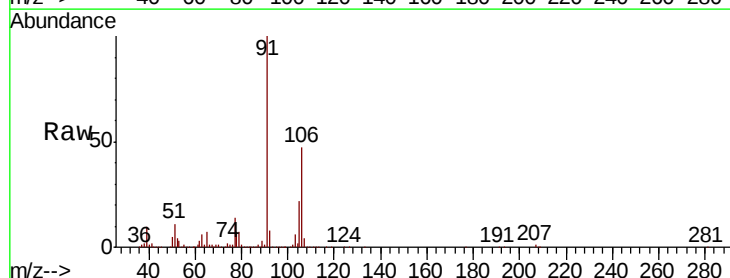
Acq: 9 Oct 2019 18:48

Tgt Ion: 106 Resp: 342830

Ion Ratio Lower Upper

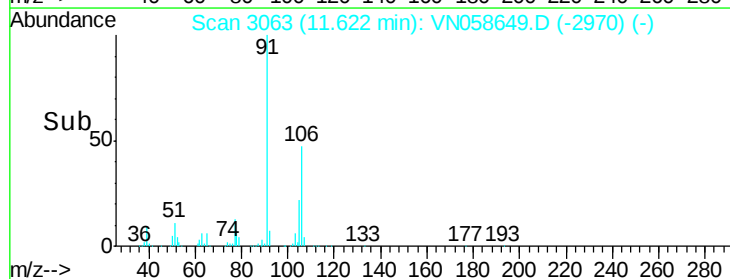
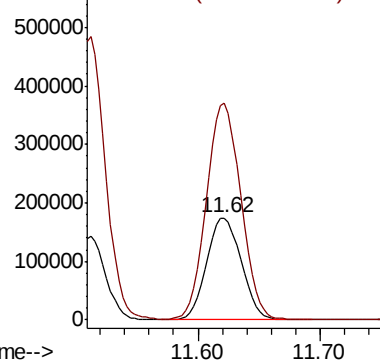
106 100

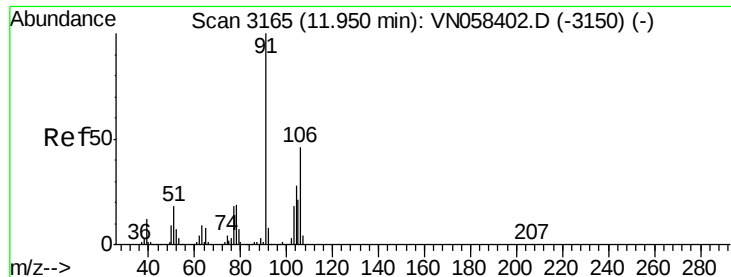
91 210.5 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#69

o-Xylene

Concen: 4.314 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion:106 Resp: 34290

Ion Ratio Lower Upper

106 100

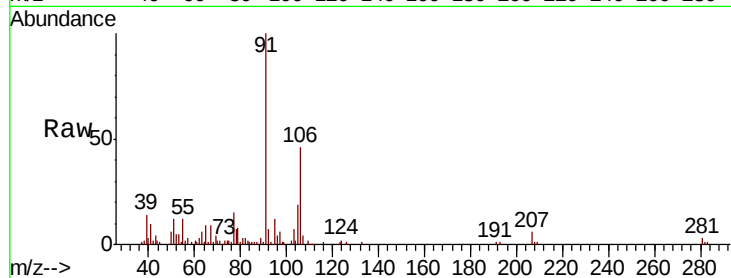
91 215.7 109.1 327.4

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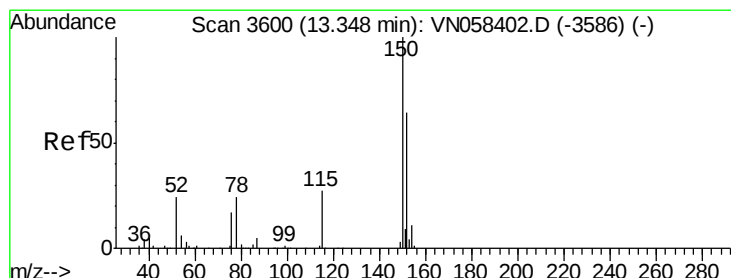
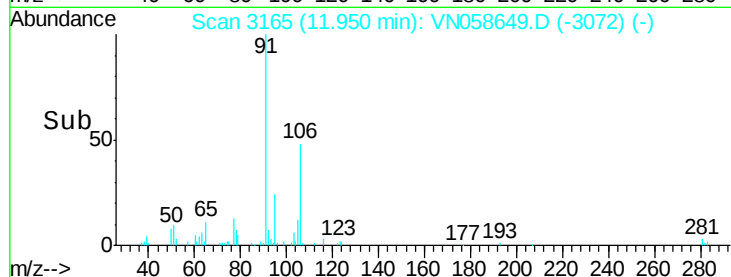
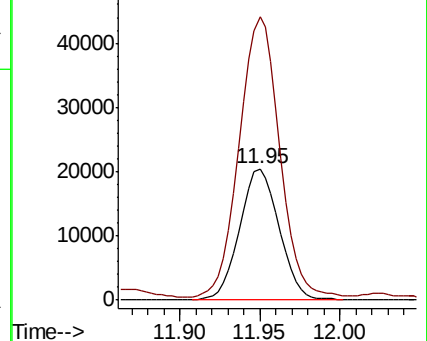
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

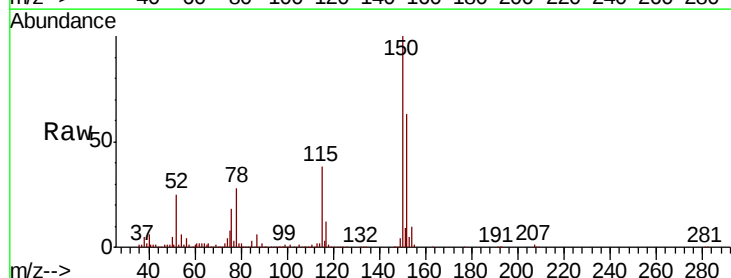
Tgt Ion:152 Resp: 267106

Ion Ratio Lower Upper

152 100

115 60.2 30.0 90.0

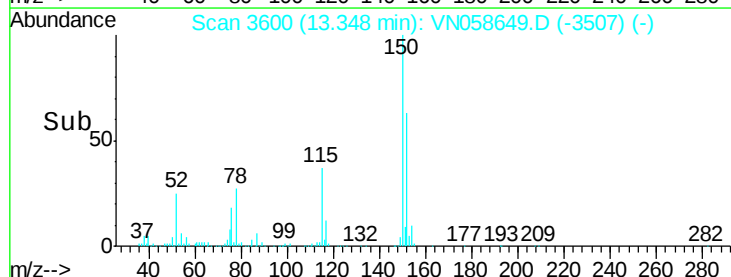
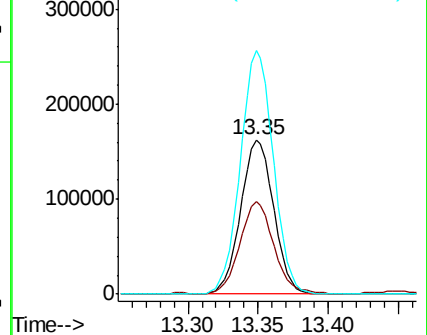
150 157.1 0.0 348.2

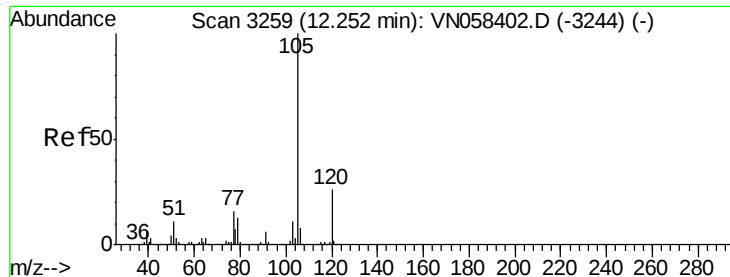


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 88.643 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058649.D

Acq: 9 Oct 2019 18:48

Instrument :

MSVOA_N

ClientSampleId :

MW-3

Tot Ion:105 Resp: 1749799

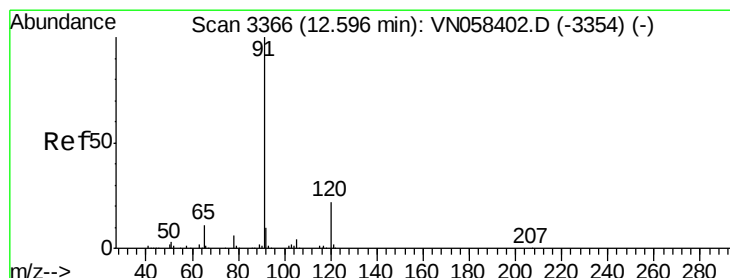
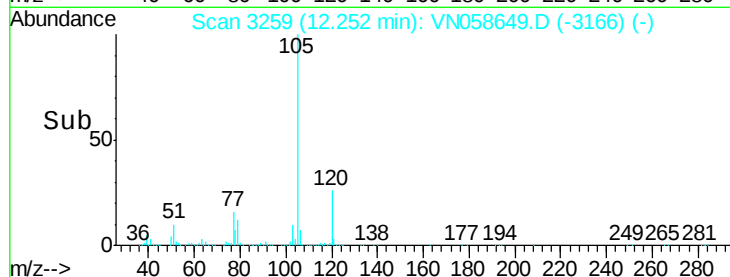
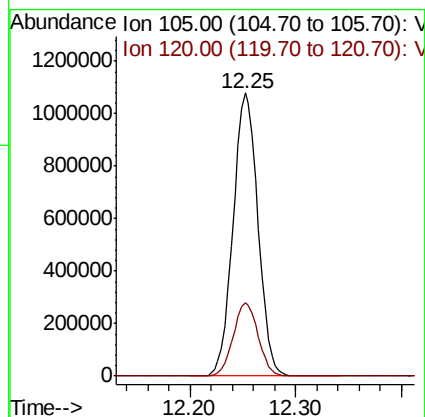
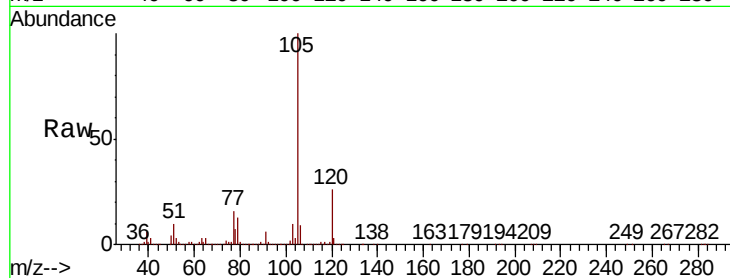
Ion Ratio Lower Upper

105 100

120 26.0 12.8 38.4

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#78

n-propylbenzene

Concen: 68.531 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058649.D

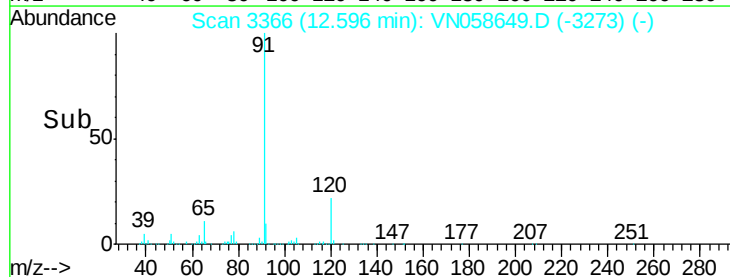
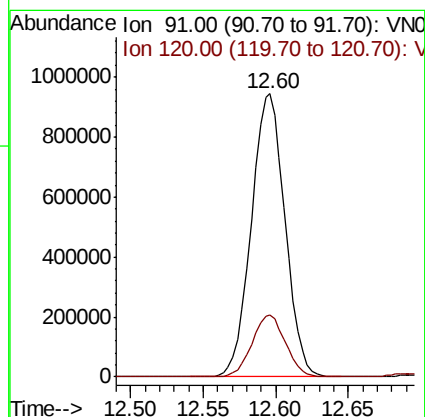
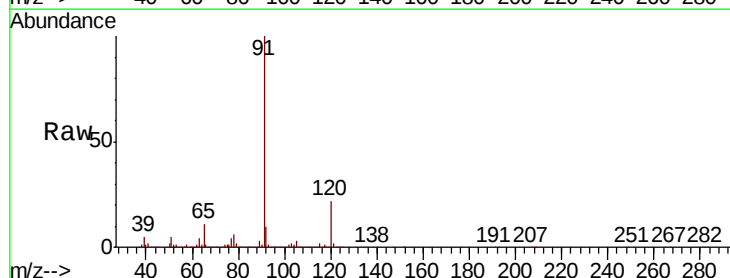
Acq: 9 Oct 2019 18:48

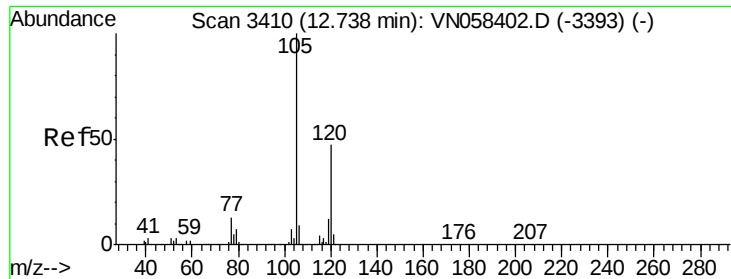
Tgt Ion: 91 Resp: 1524061

Ion Ratio Lower Upper

91 100

120 21.7 10.9 32.9





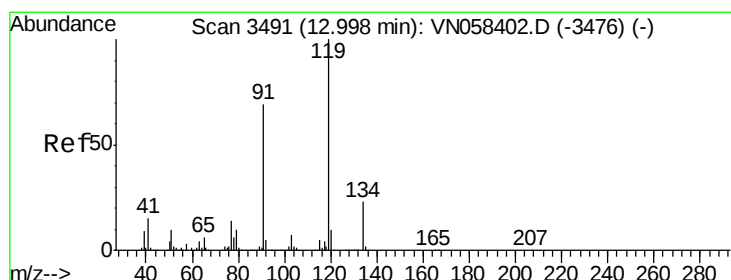
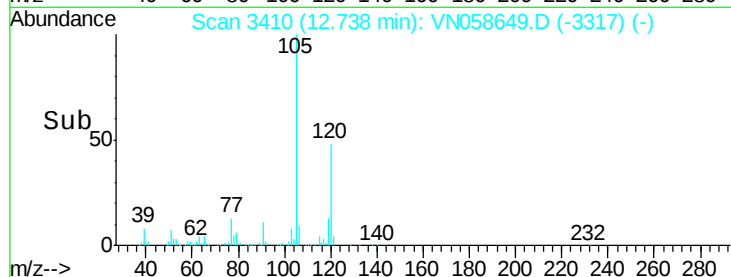
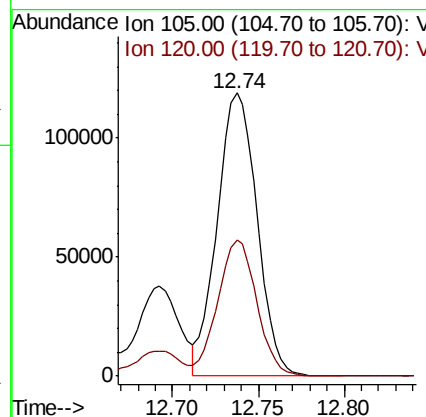
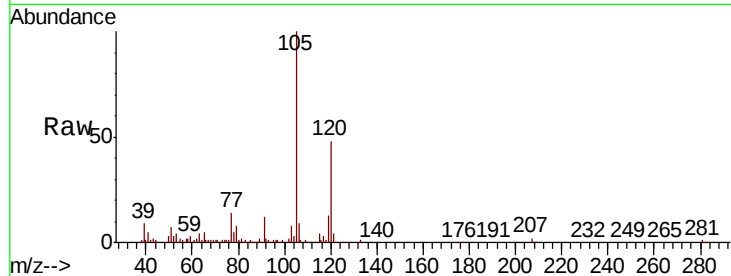
#80
 1,3,5-Trimethylbenzene
 Concen: 11.565 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Instrument :
 MSVOA_N
 ClientSampled :
 MW-3

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.5	70.6

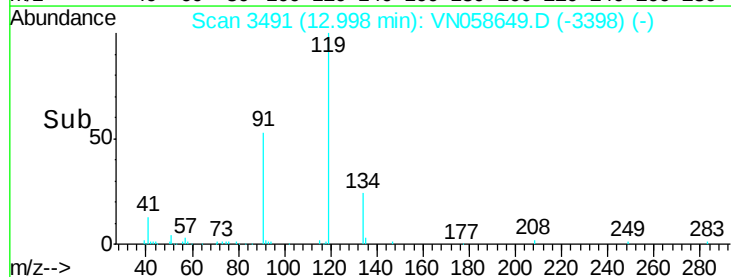
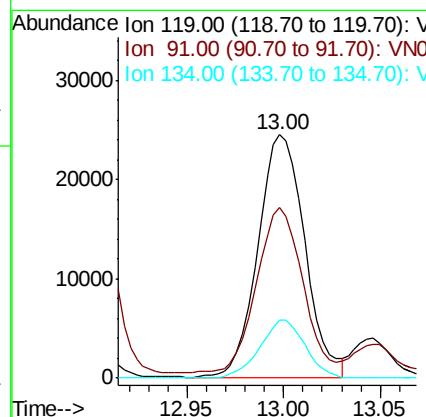
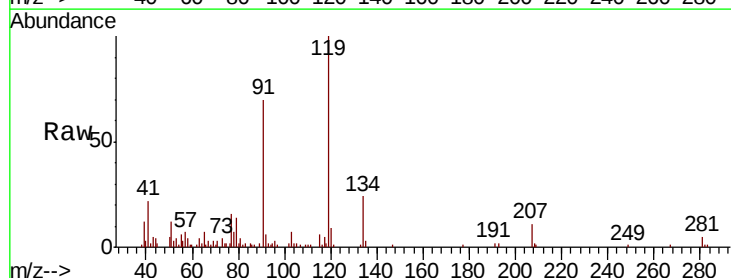
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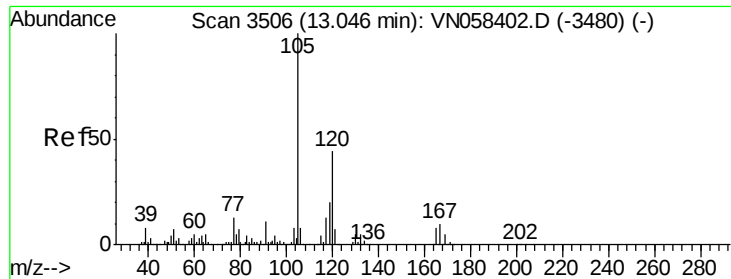
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#83
 tert-Butylbenzene
 Concen: 2.982 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Tgt Ion	Ratio	Lower	Upper
119	100		
91	66.2	34.2	102.6
134	22.8	11.6	34.8





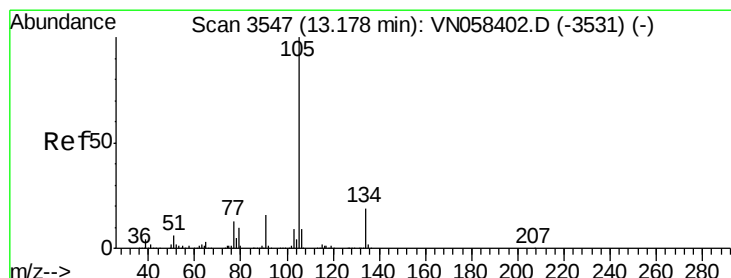
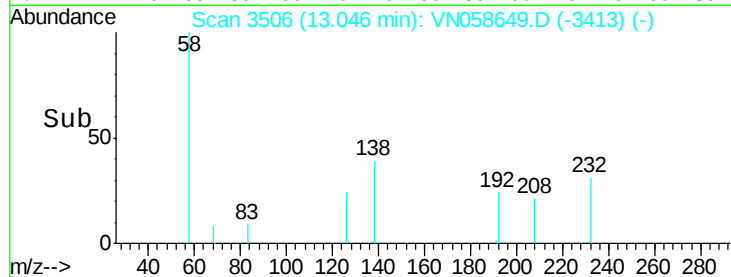
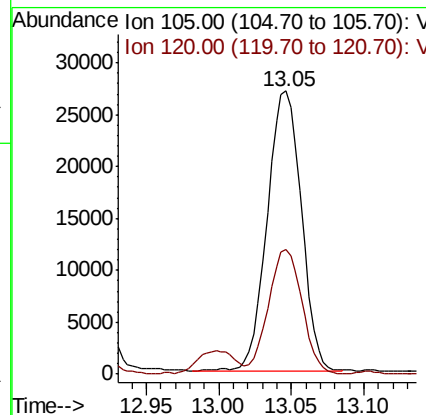
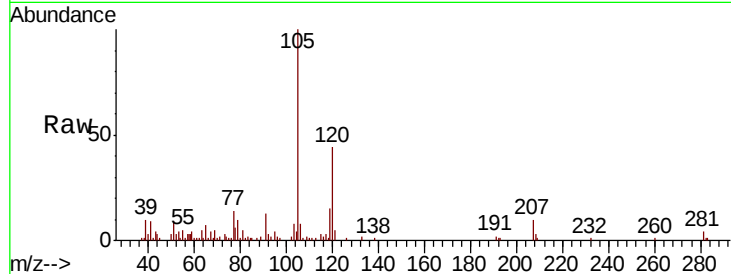
#84
 1,2,4-Trimethylbenzene
 Concen: 2.676 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion:105 Resp: 44311
 Ion Ratio Lower Upper
 105 100
 120 44.0 21.7 65.1

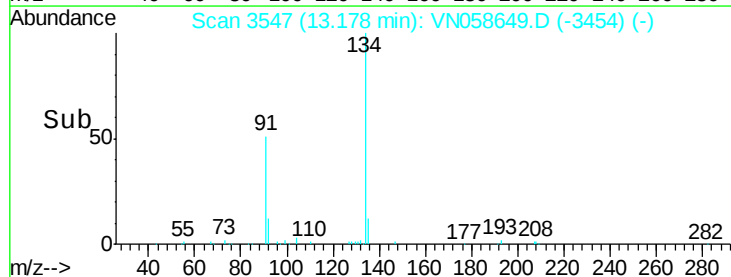
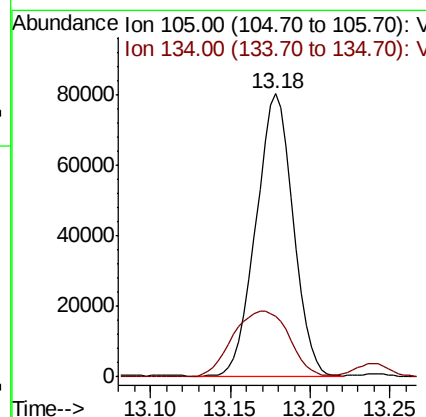
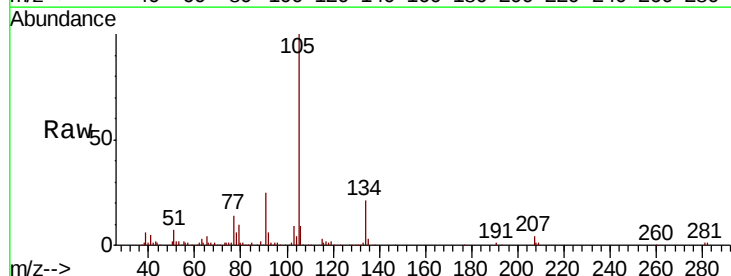
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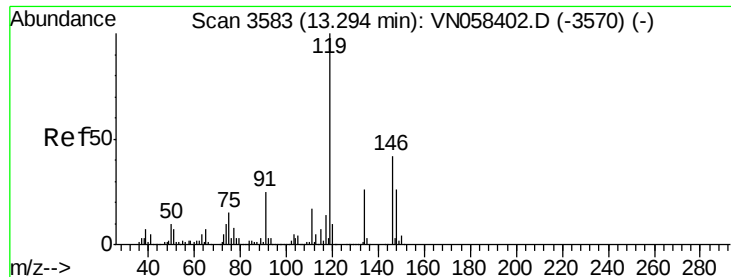
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#85
 sec-Butylbenzene
 Concen: 6.952 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Tgt Ion:105 Resp: 127587
 Ion Ratio Lower Upper
 105 100
 134 35.4 9.4 28.2#





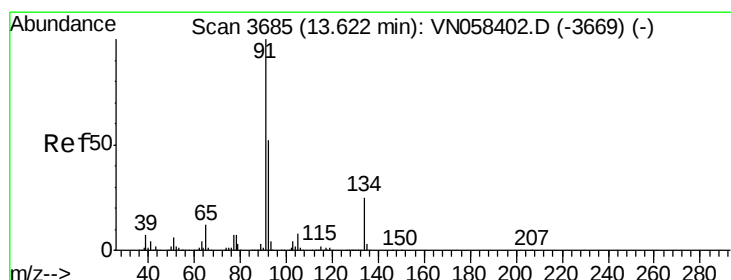
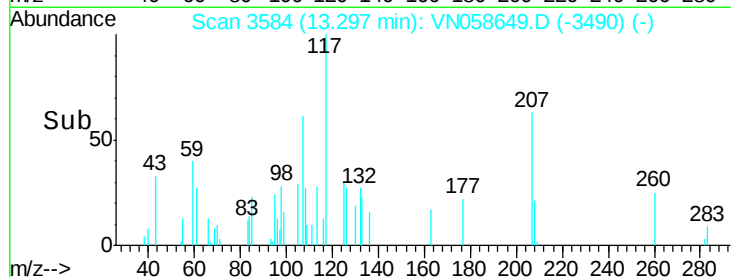
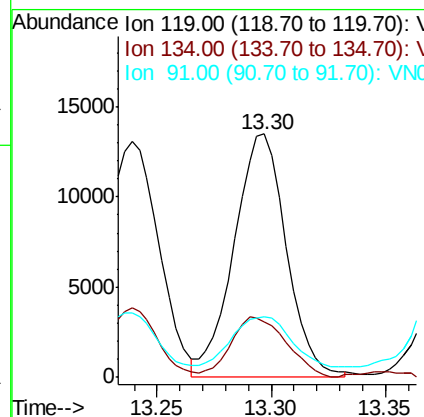
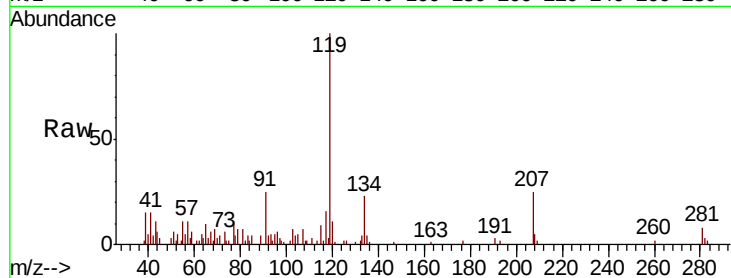
#86
 p-Isopropyltoluene
 Concen: 1.334 ug/l m
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion	Ratio	Lower	Upper
119	100		
134	69.1	13.0	39.0#
91	61.3	12.4	37.0#

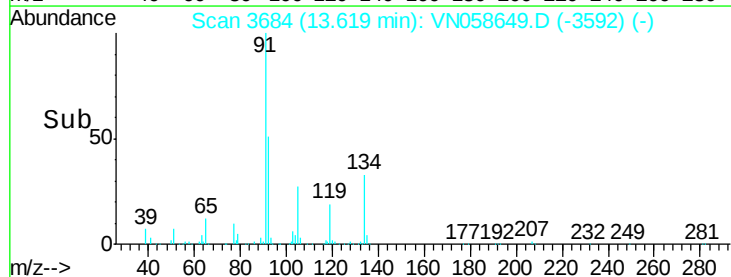
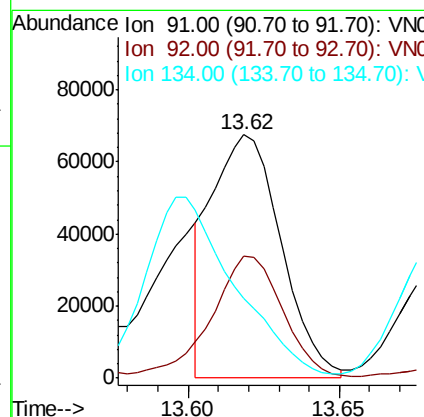
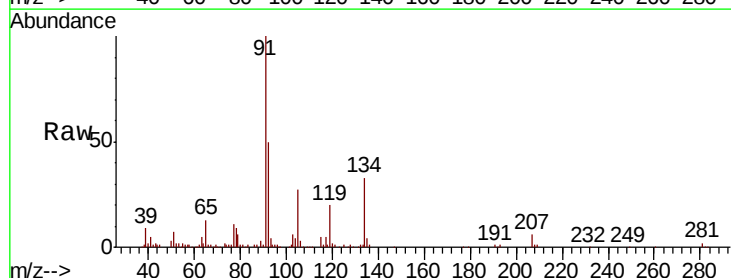
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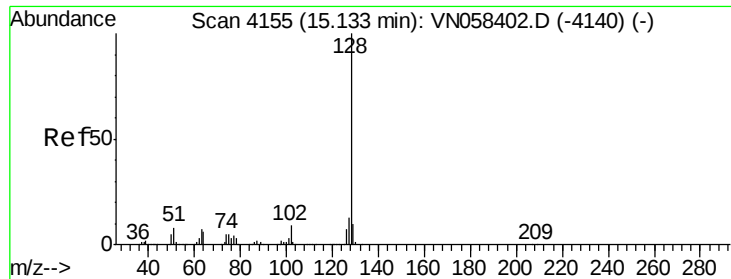
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#89
 n-Butylbenzene
 Concen: 7.370 ug/l m
 RT: 13.62 min Scan# 3684
 Delta R.T. -0.00 min
 Lab File: VN058649.D
 Acq: 9 Oct 2019 18:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.0	25.7	77.1
134	95.7	12.2	36.6#





#95
Naphthalene
Concen: 21.233 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058649.D
Acq: 9 Oct 2019 18:48

Instrument :
MSVOA_N
ClientSampleId :
MW-3

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.6	8.3	12.5

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