

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061465.D
 Acq On : 19 May 2020 7:19
 Operator : JC/MD
 Sample : L2645-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Manual Integrations
 APPROVED

MMDadoda
 5/19/2020 4:23:55 PM

Quant Time: May 19 15:11:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	274399	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	515365	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	512562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	295436	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	196163	47.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.80%	
35) Dibromofluoromethane	7.55	113	140574	52.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.14%	
50) Toluene-d8	10.06	98	651755	52.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	12.37	95	286103	61.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.30%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	101266	214.606	ug/l #	73
30) Chloroform	7.33	83	691578	110.364	ug/l	99
31) Cyclohexane	7.61	56	270145	51.232	ug/l	97
39) Methylcyclohexane	9.05	83	285742	48.548	ug/l	99
40) Benzene	8.00	78	434535	29.922	ug/l	100
52) Toluene	10.13	92	51865	5.563	ug/l	100
67) Ethyl Benzene	11.49	91	7293611	382.273	ug/l #	38
68) m/p-Xylenes	11.60	106	3472211	479.449	ug/l #	72
69) o-Xylene	11.92	106	49040	6.997	ug/l	98
73) Isopropylbenzene	12.22	105	896460	37.798	ug/l	99
78) n-propylbenzene	12.56	91	2790393	103.258	ug/l	98
80) 1,3,5-Trimethylbenzene	12.71	105	1510590	77.786	ug/l	99
84) 1,2,4-Trimethylbenzene	13.01	105	6372098	327.869	ug/l	70
85) sec-Butylbenzene	13.15	105	171875m	7.641	ug/l	
86) p-Isopropyltoluene	13.27	119	66008	3.305	ug/l #	74
88) 1,4-Dichlorobenzene	13.34	146	12598	1.335	ug/l #	70
89) n-Butylbenzene	13.59	91	134878m	7.433	ug/l	
95) Naphthalene	15.10	128	2743330	176.121	ug/l	99

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

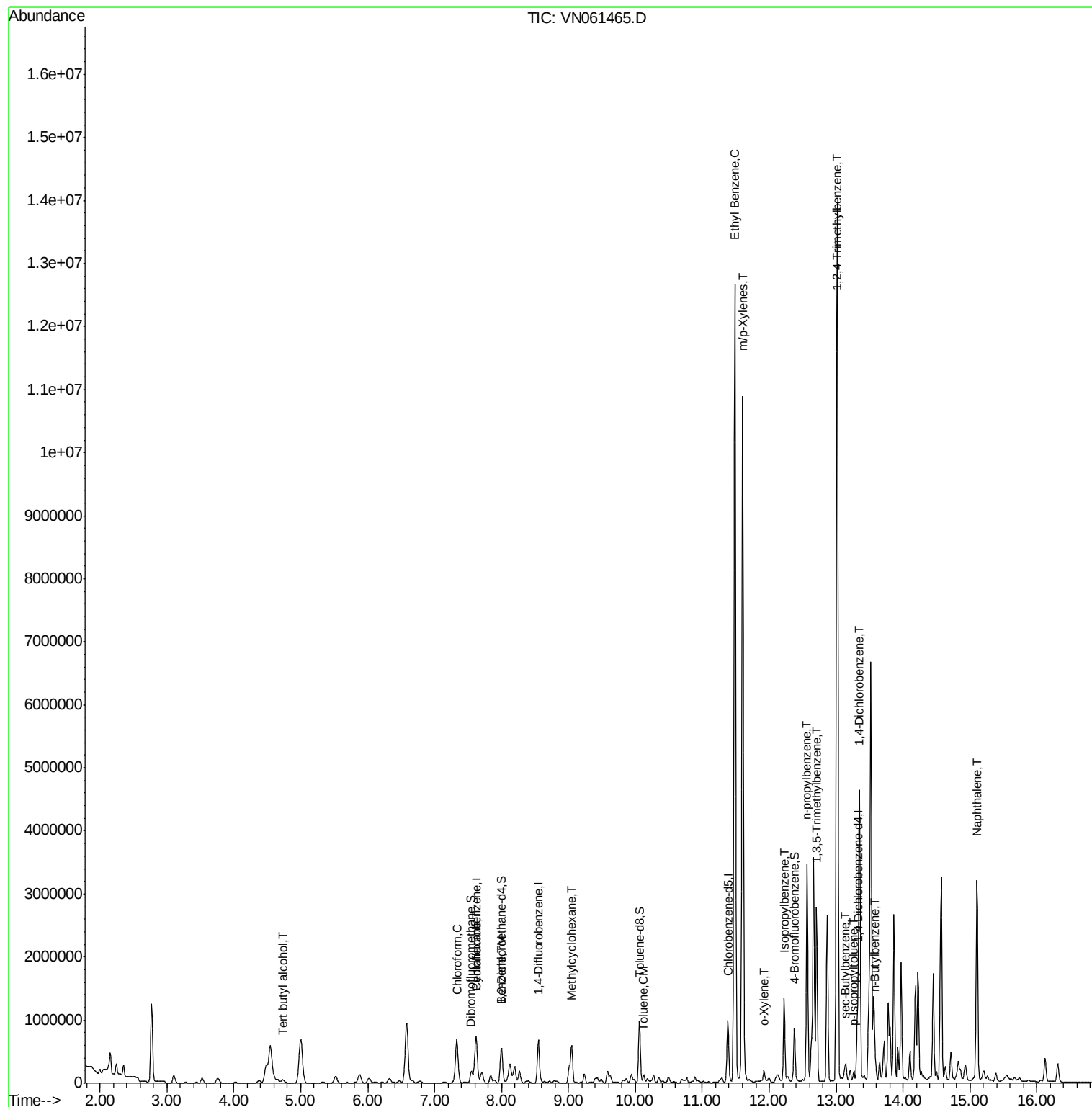
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
Data File : VN061465.D
Acq On : 19 May 2020 7:19
Operator : JC/MD
Sample : L2645-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 45 Sample Multiplier: 1

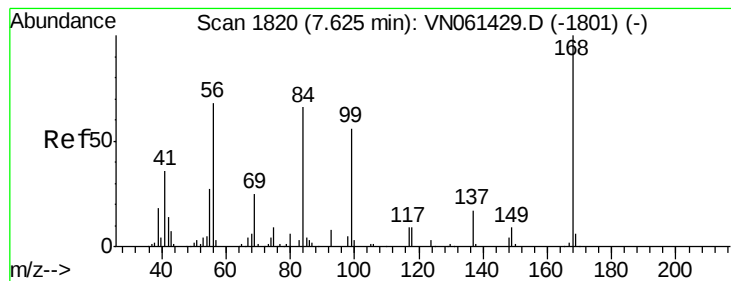
Instrument :
MSVOA_N
ClientSampleId :
MW-3

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Quant Time: May 19 15:11:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061465.D

Acq: 19 May 2020 7:19

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion:168 Resp: 274399

Ion Ratio Lower Upper

168 100

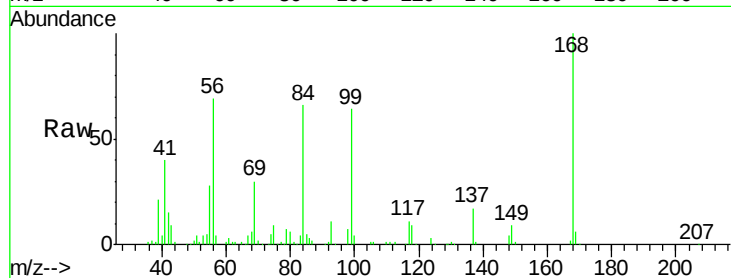
99 63.5 51.1 76.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

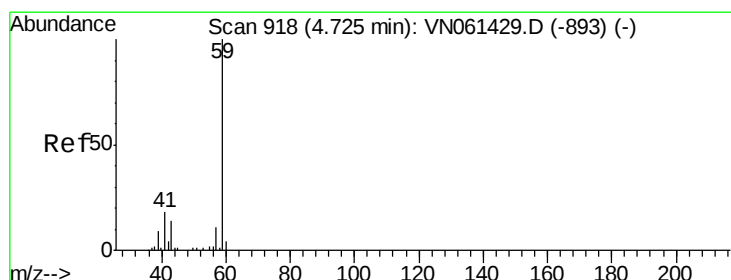
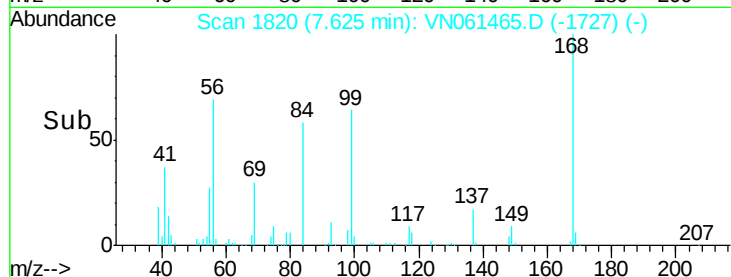
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 214.606 ug/l

RT: 4.73 min Scan# 919

Delta R.T. 0.00 min

Lab File: VN061465.D

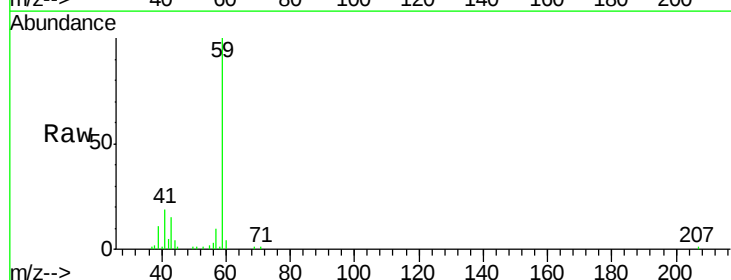
Acq: 19 May 2020 7:19

Tgt Ion: 59 Resp: 101266

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

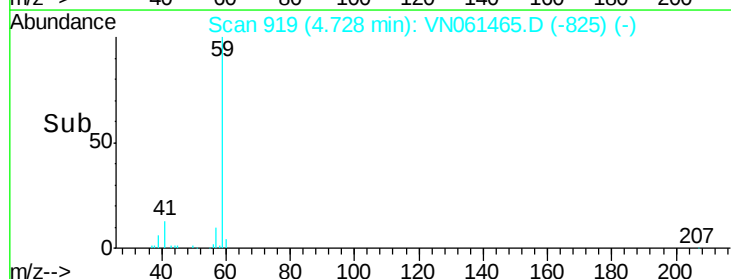
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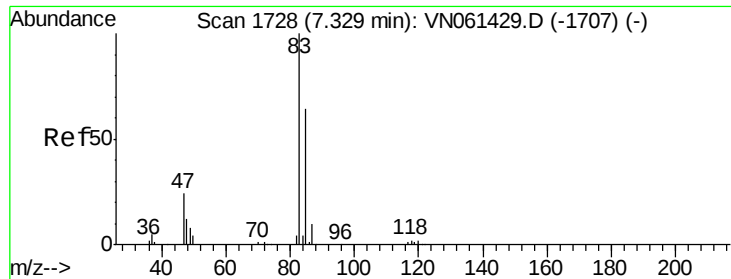
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10000

0

Time--> 4.60 4.70 4.80 4.90





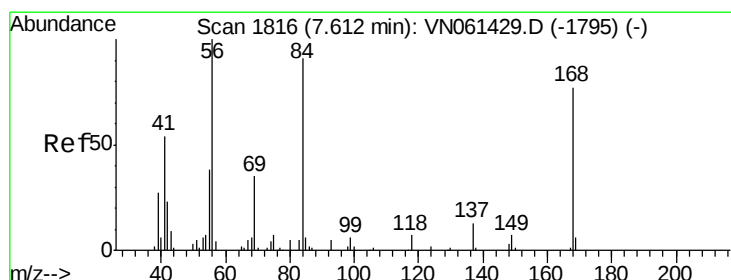
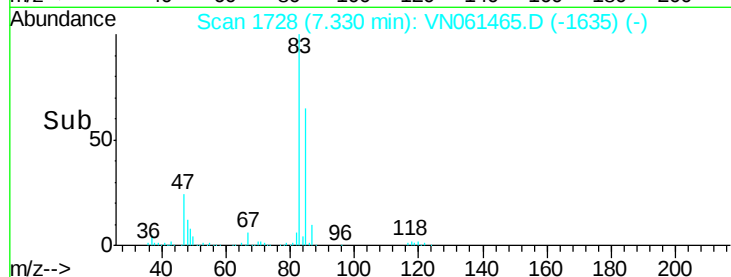
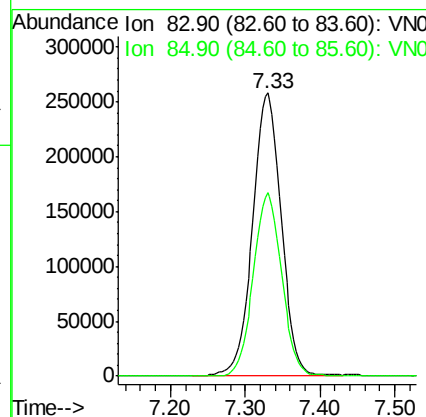
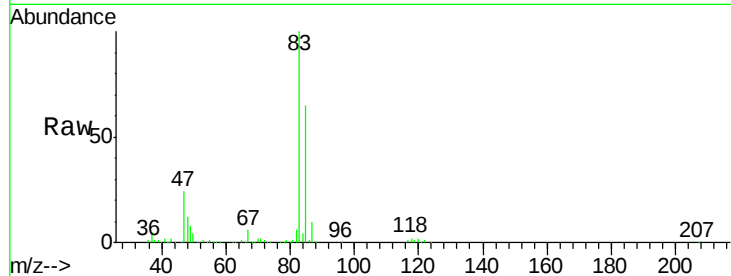
#30
Chloroform
Concen: 110.364 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion	83	Resp	691578
Ion Ratio	100	Lower	Upper
85	64.7	51.0	76.4

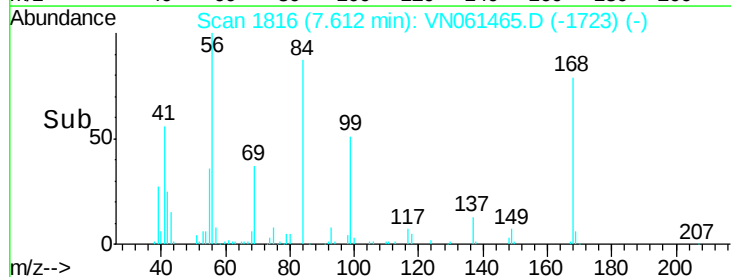
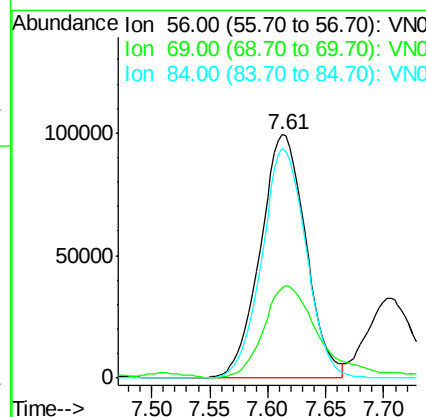
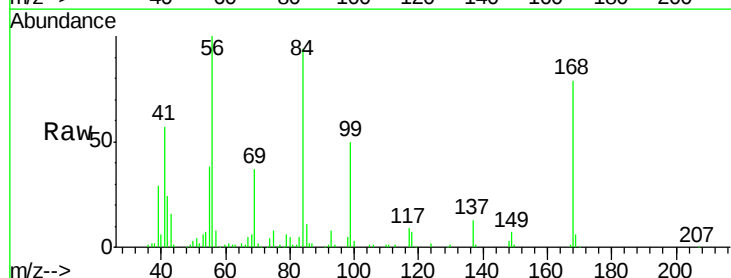
Manual Integrations
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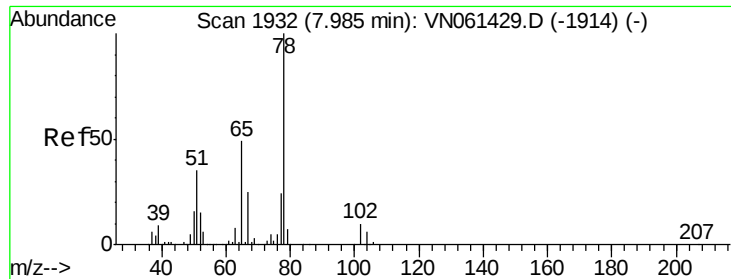
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#31
Cyclohexane
Concen: 51.232 ug/l
RT: 7.61 min Scan# 1816
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion	56	Resp	270145
Ion Ratio	100	Lower	Upper
69	36.2	27.8	41.6
84	94.3	72.7	109.1





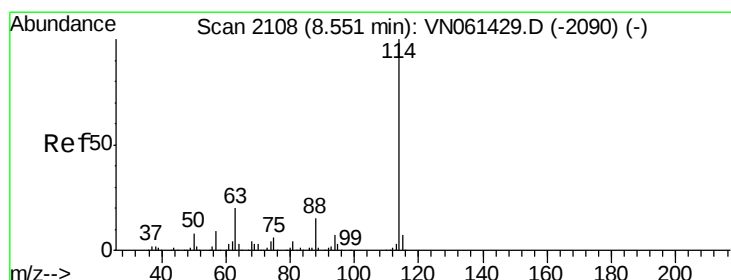
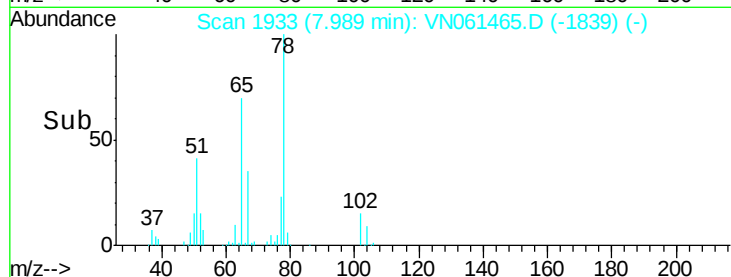
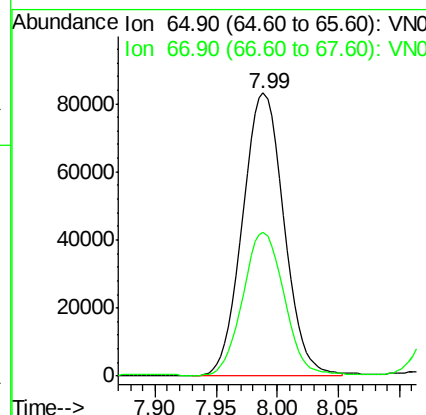
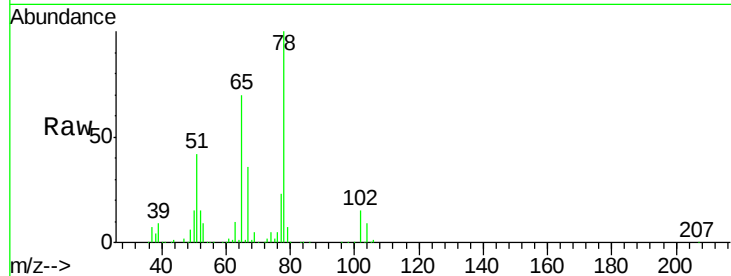
#33
 1,2-Dichloroethane-d4
 Concen: 47.900 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061465.D
 Acq: 19 May 2020 7:19

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion	Ratio	Resp	Lower	Upper
65	100	196163		
67	51.2	0.0	101.4	

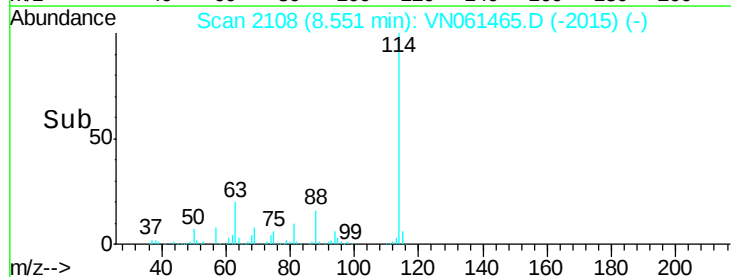
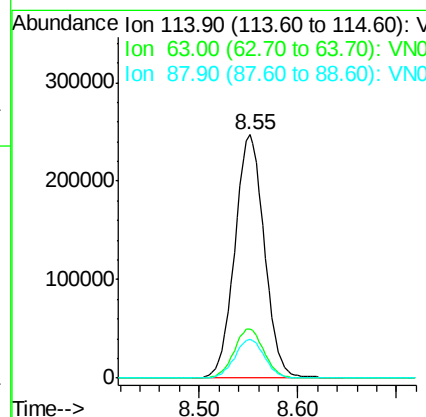
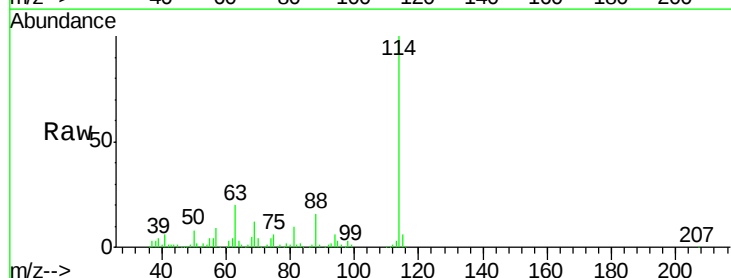
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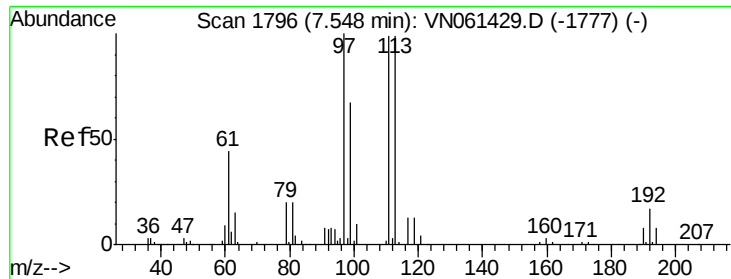
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061465.D
 Acq: 19 May 2020 7:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	515365		
63	20.4	0.0	40.8	
88	15.8	0.0	30.8	





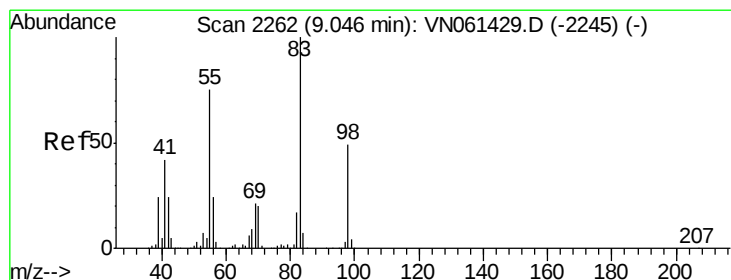
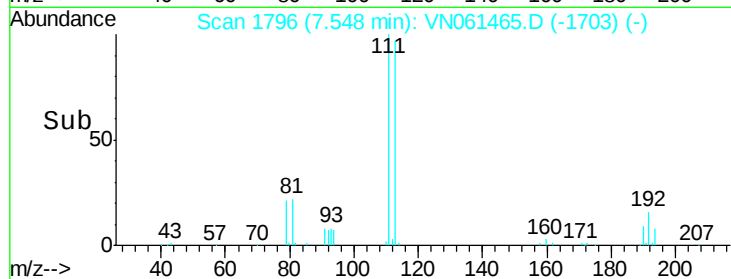
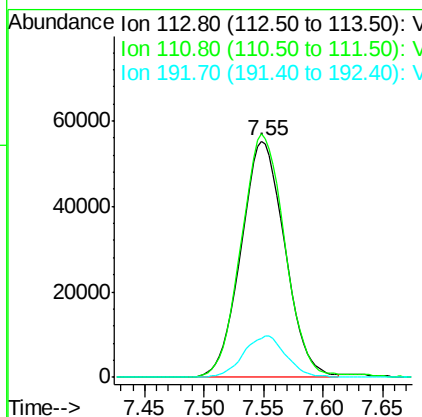
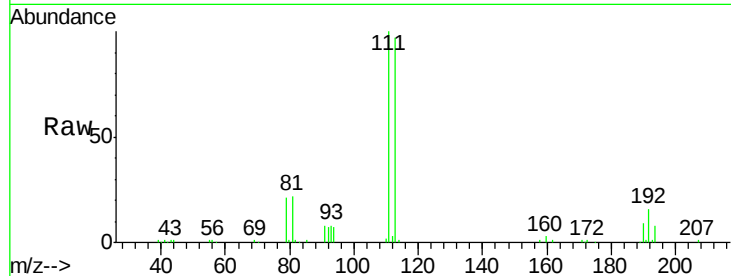
#35
Dibromofluoromethane
Concen: 52.067 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	80.6	121.0	
192	17.2	13.2	19.8	

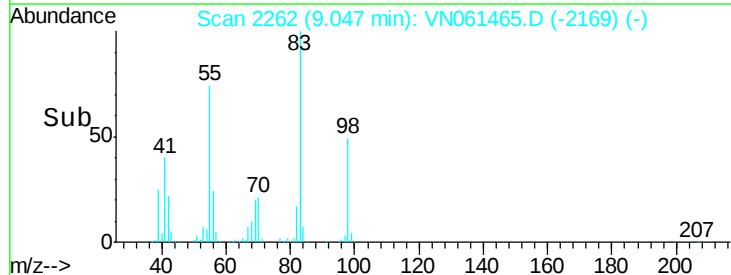
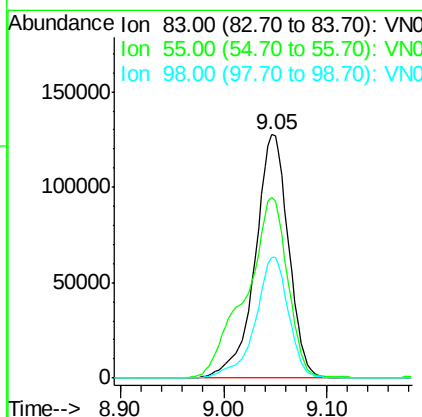
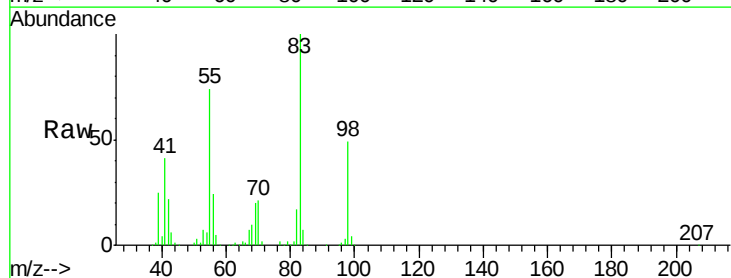
Manual Integrations
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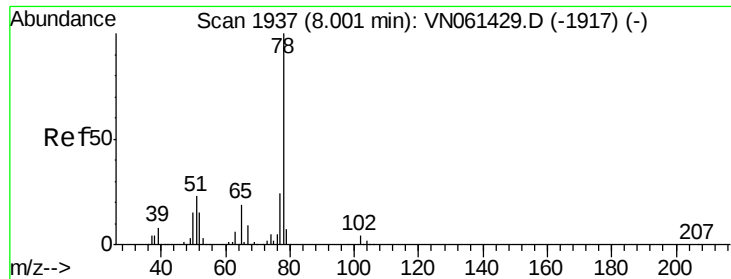
MMDadoda
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#39
Methylcyclohexane
Concen: 48.548 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
55	74.1	59.7	89.5	
98	49.4	38.9	58.3	





#40

Benzene

Concen: 29.922 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN061465.D

Acq: 19 May 2020 7:19

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion: 78 Resp: 434535

Ion Ratio Lower Upper

78 100

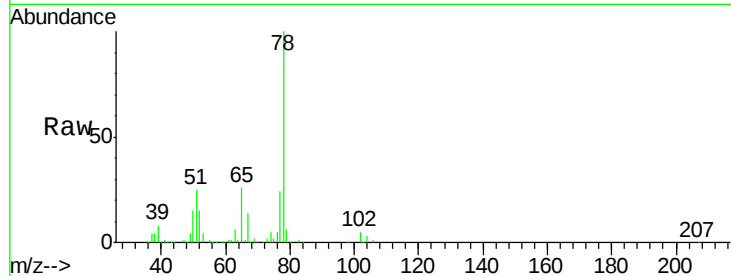
77 23.8 19.1 28.7

Manual Integrations

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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

8.00

200000

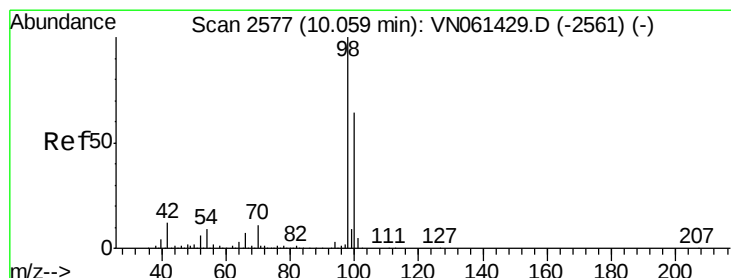
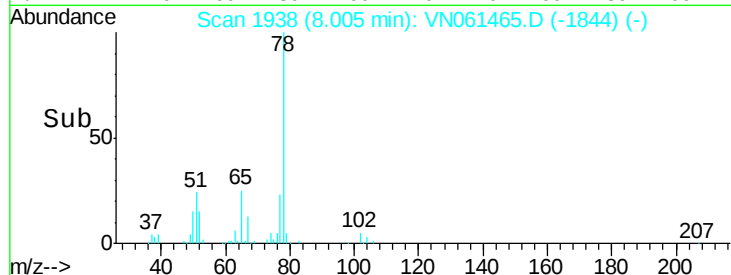
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 52.046 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061465.D

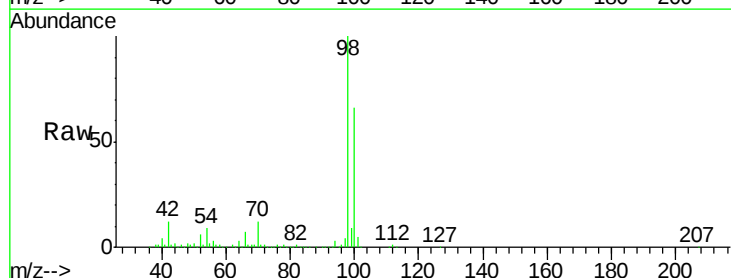
Acq: 19 May 2020 7:19

Tgt Ion: 98 Resp: 651755

Ion Ratio Lower Upper

98 100

100 65.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

10.06

400000

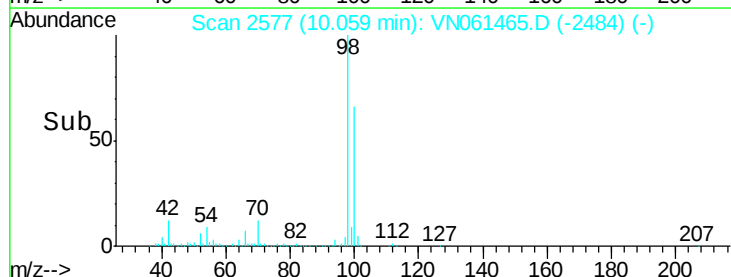
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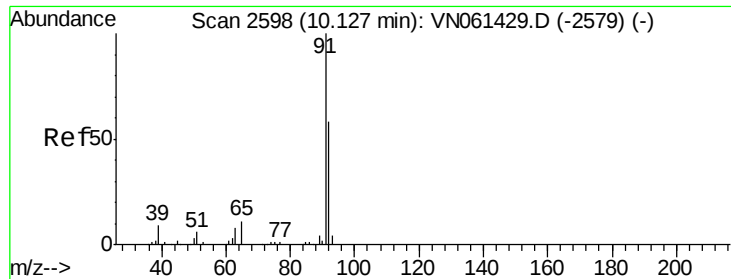
200000

100000

0

Time-->





#52

Toluene

Concen: 5.563 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN061465.D

Acq: 19 May 2020 7:19

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion: 92 Resp: 51865

Ion Ratio Lower Upper

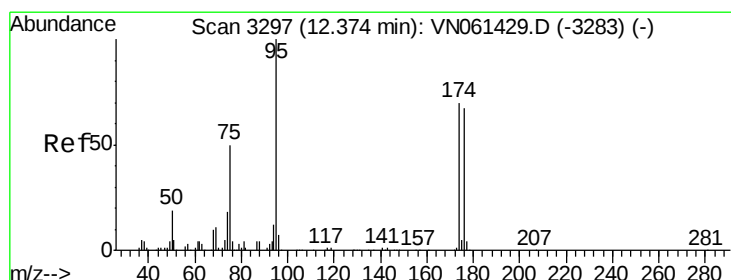
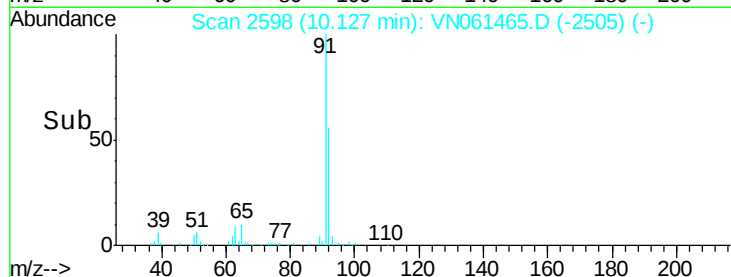
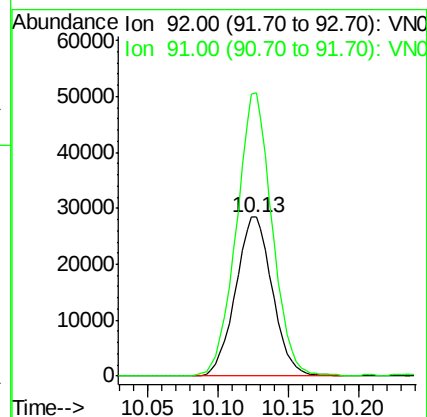
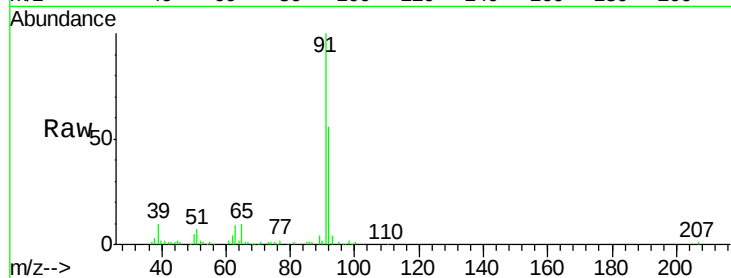
92 100

91 173.1 138.0 207.0

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 61.152 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VN061465.D

Acq: 19 May 2020 7:19

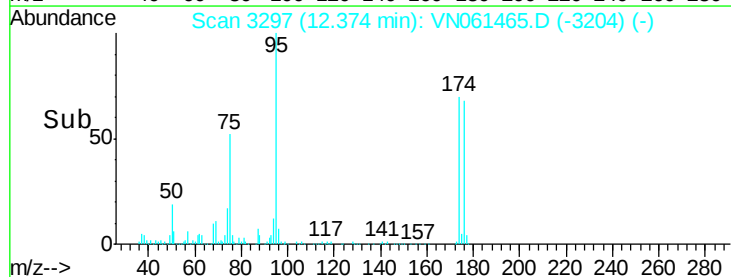
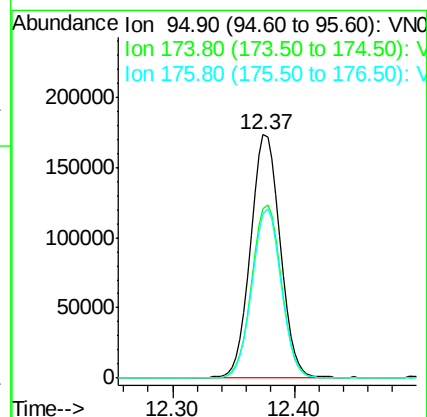
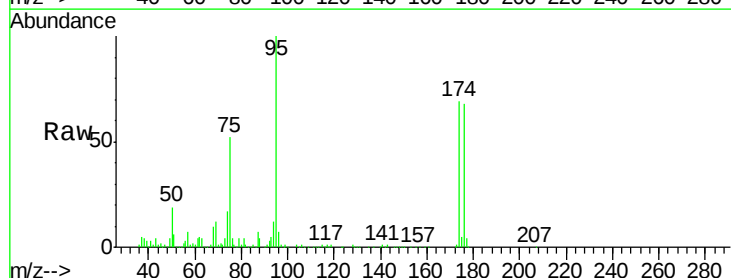
Tgt Ion: 95 Resp: 286103

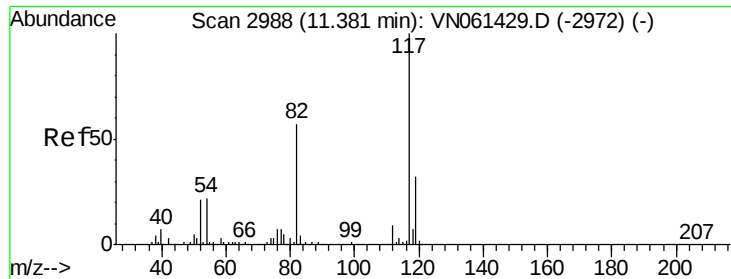
Ion Ratio Lower Upper

95 100

174 71.8 0.0 141.2

176 69.4 0.0 137.6





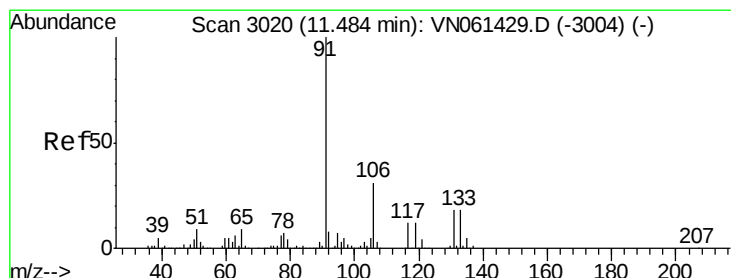
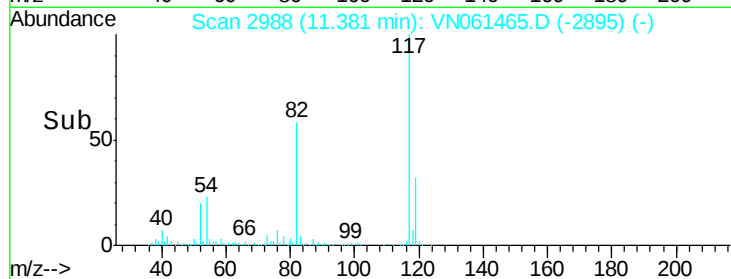
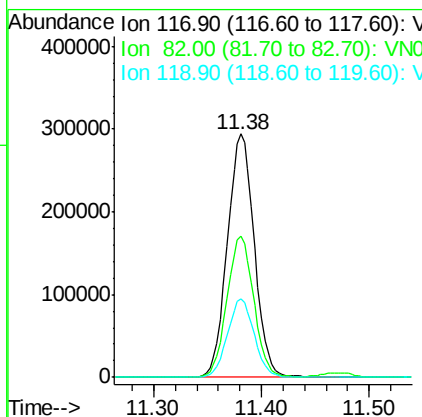
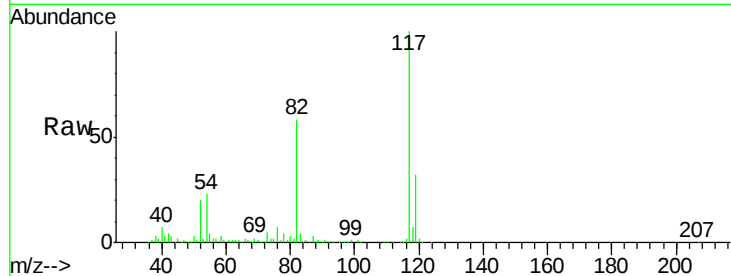
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion	Ratio	Resp	Lower	Upper
117	100	512562		
82	57.7	45.2	67.8	
119	32.1	25.3	37.9	

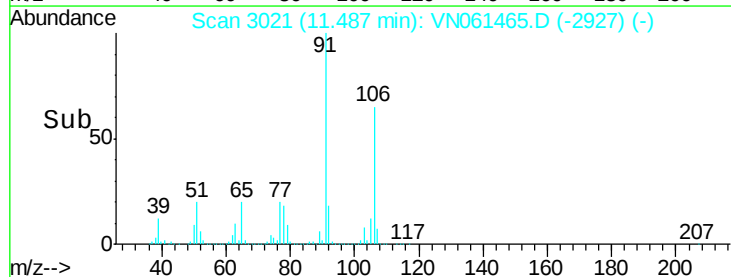
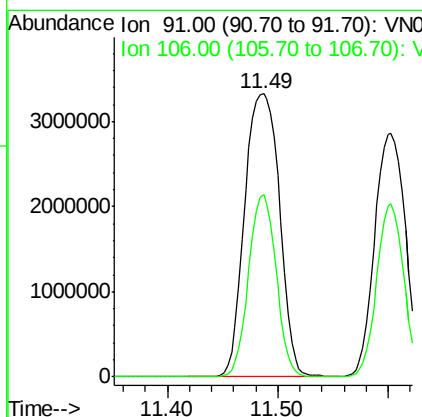
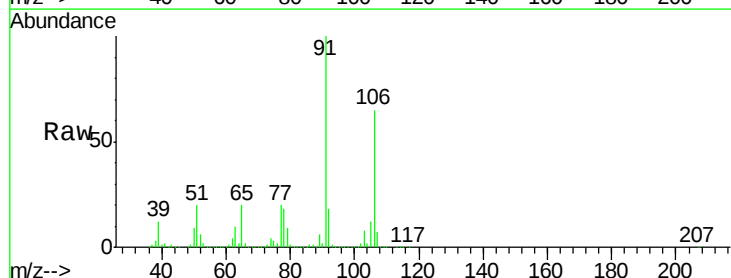
Manual Integrations
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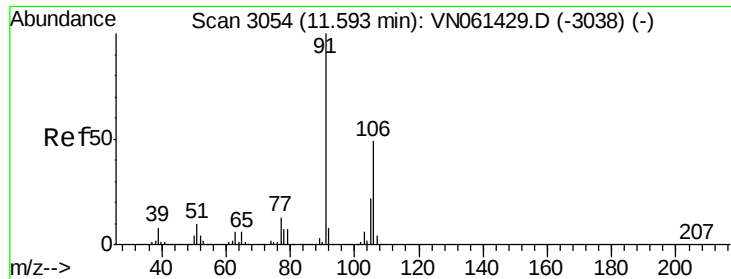
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#67
Ethyl Benzene
Concen: 382.273 ug/l
RT: 11.49 min Scan# 3021
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	7293611		
106	64.6	24.6	36.8	#





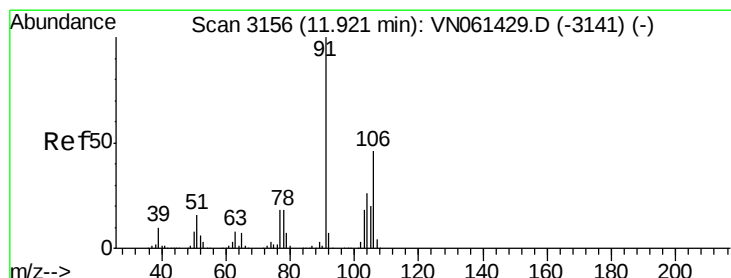
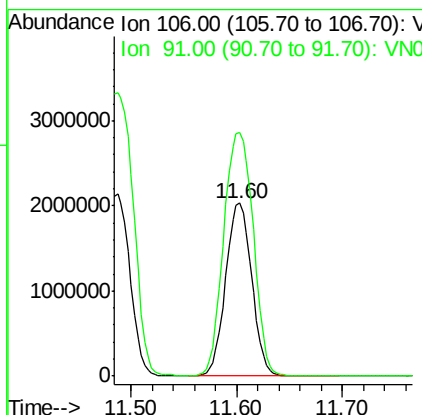
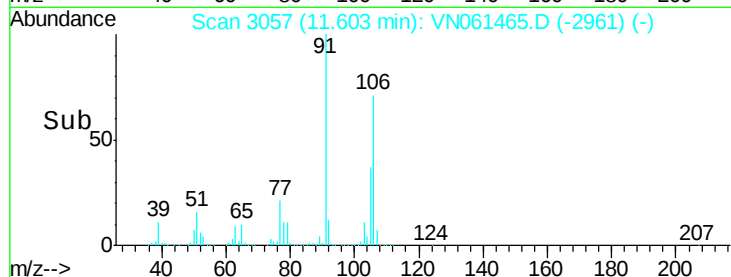
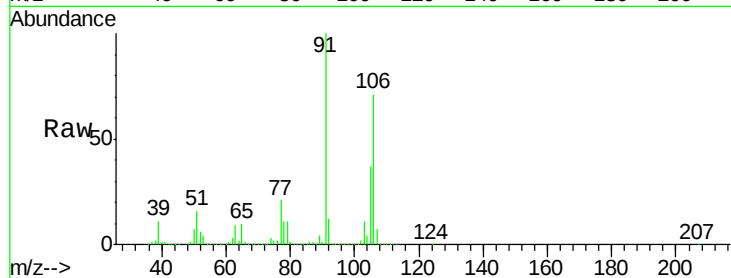
#68
m/p-Xvlenes
Concen: 479.449 ug/l
RT: 11.60 min Scan# 3057
Delta R.T. 0.01 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion:106 Resp: 3472211
Ion Ratio Lower Upper
106 100
91 160.2 163.0 244.6#

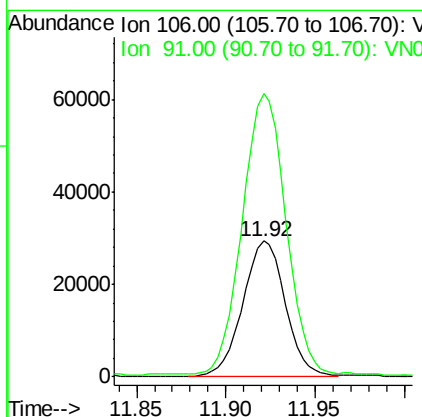
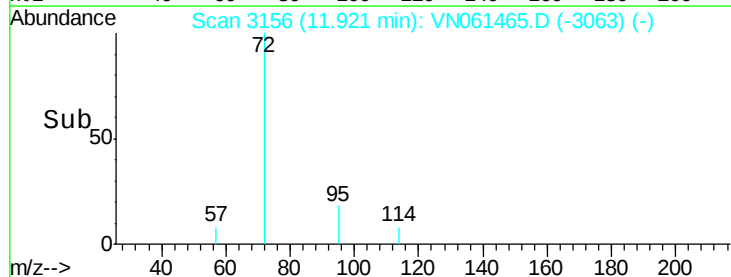
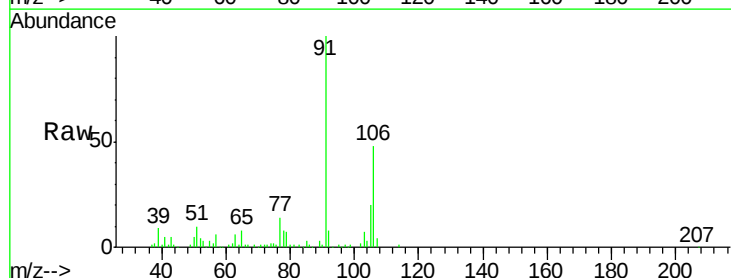
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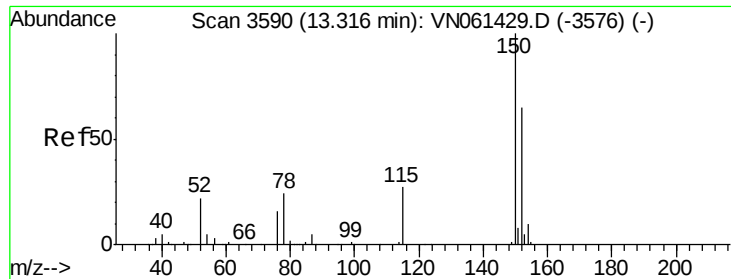
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#69
o-Xylene
Concen: 6.997 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion:106 Resp: 49040
Ion Ratio Lower Upper
106 100
91 213.0 107.9 323.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061465.D

Acq: 19 May 2020 7:19

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion:152 Resp: 295436

Ion Ratio Lower Upper

152 100

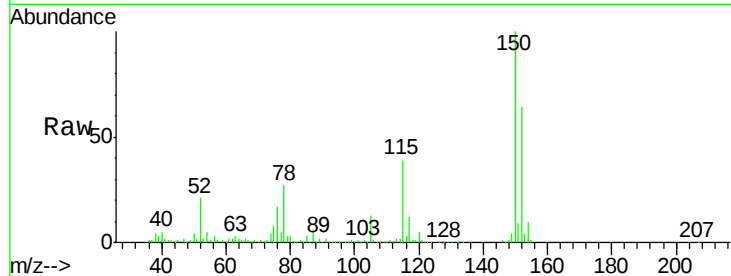
115 61.8 30.9 92.5

150 156.1 0.0 349.2

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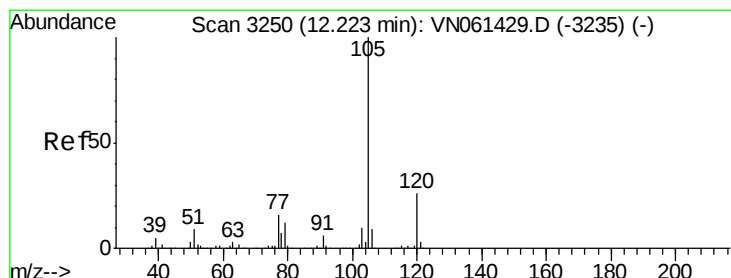
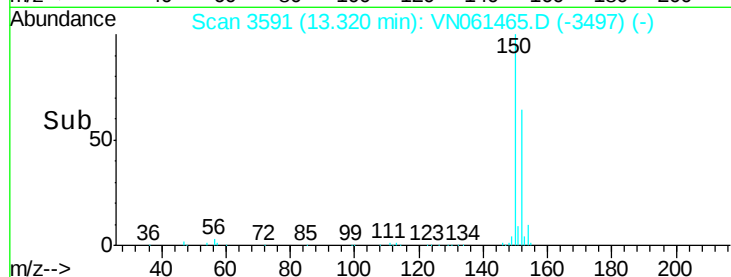
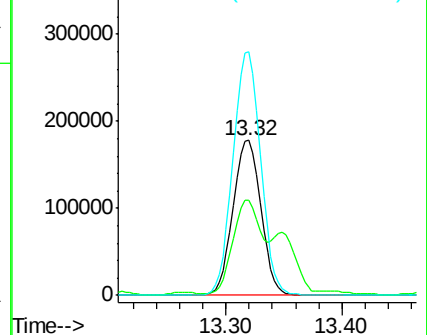
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 37.798 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN061465.D

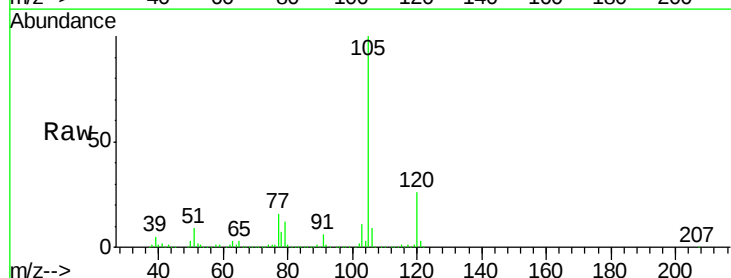
Acq: 19 May 2020 7:19

Tgt Ion:105 Resp: 896460

Ion Ratio Lower Upper

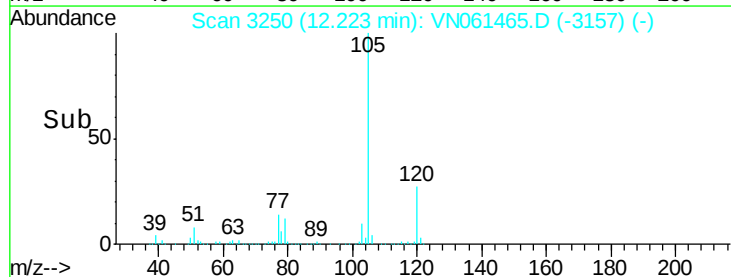
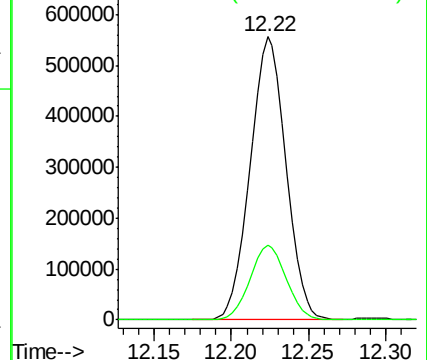
105 100

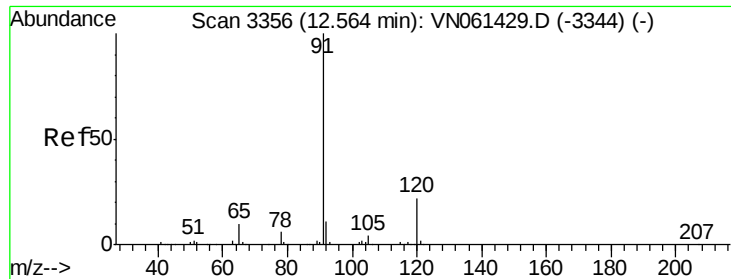
120 26.6 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 103.258 ug/l

RT: 12.56 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VN061465.D

Acq: 19 May 2020 7:19

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion: 91 Resp: 2790393

Ion Ratio Lower Upper

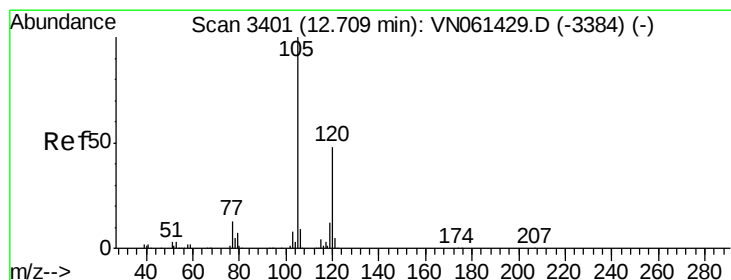
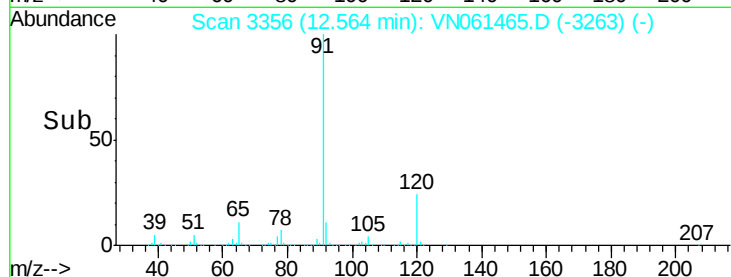
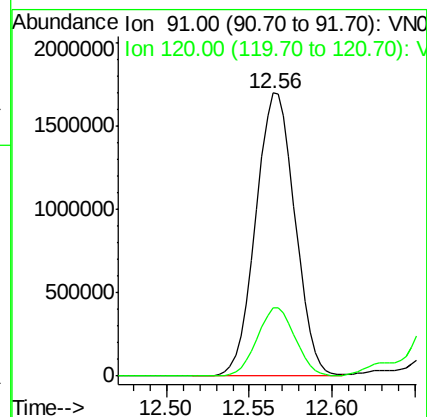
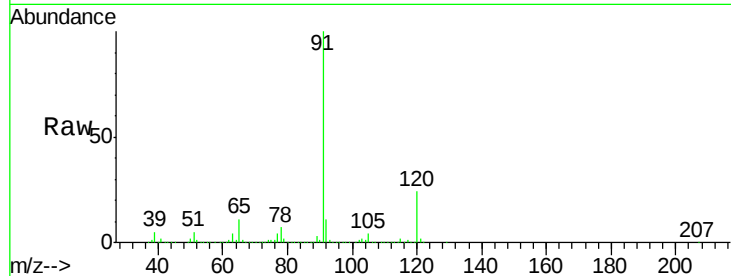
91 100

120 23.5 11.2 33.6

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 77.786 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061465.D

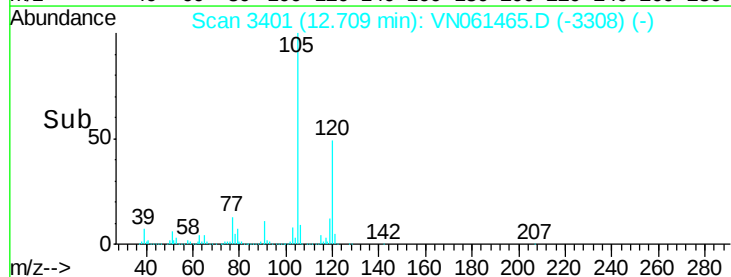
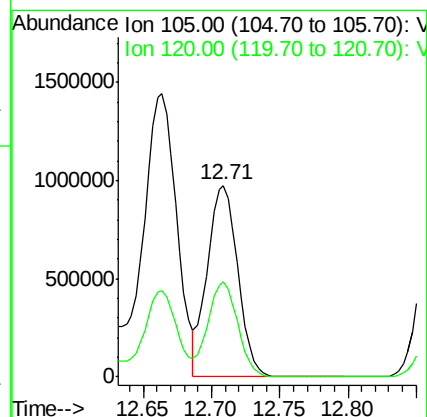
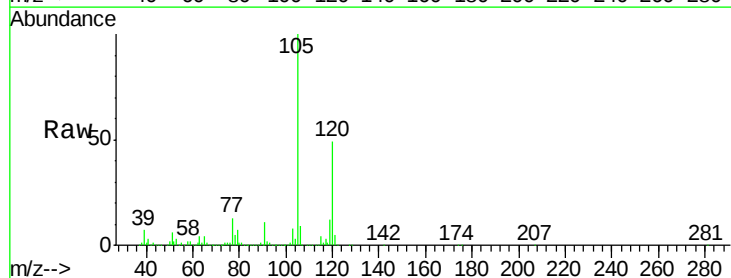
Acq: 19 May 2020 7:19

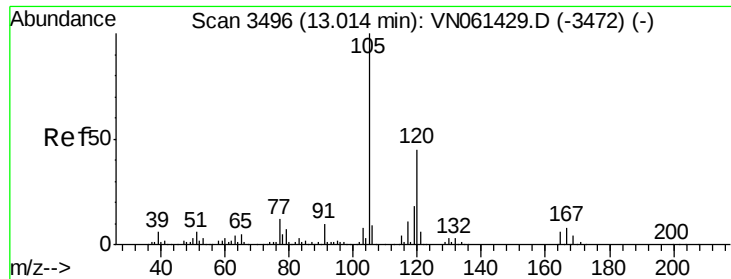
Tgt Ion:105 Resp: 1510590

Ion Ratio Lower Upper

105 100

120 48.9 24.1 72.4





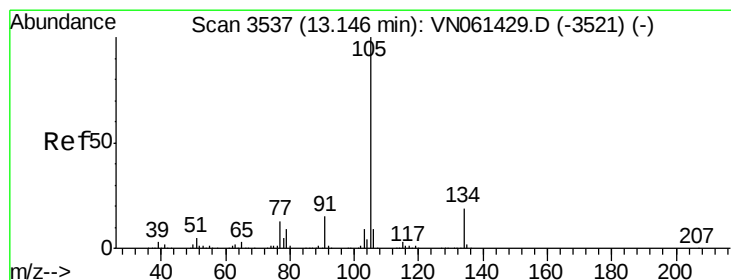
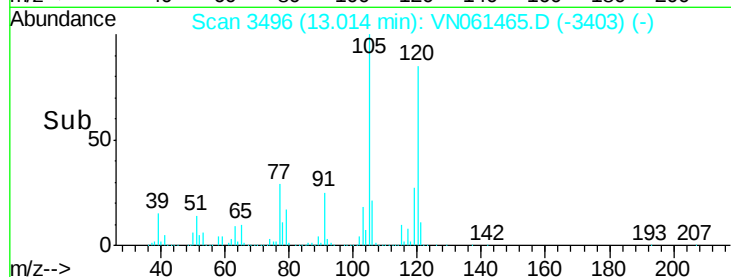
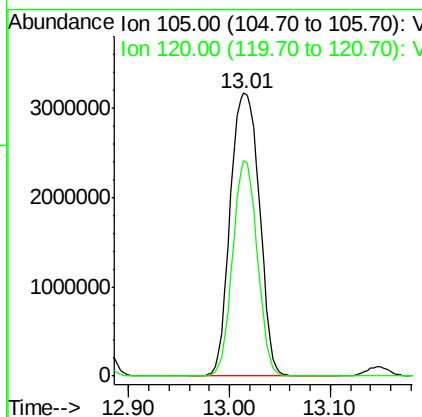
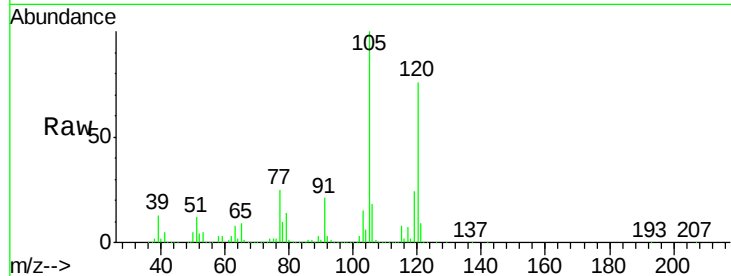
#84
1,2,4-Trimethylbenzene
Concen: 327.869 ug/l
RT: 13.01 min Scan# 3496
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampleId :
MW-3

Tot Ion:105 Resp: 6372098
Ion Ratio Lower Upper
105 100
120 64.4 22.4 67.3

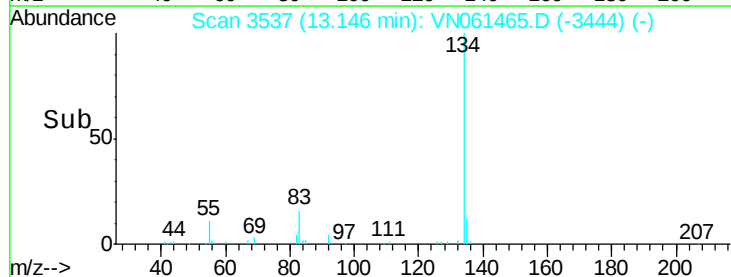
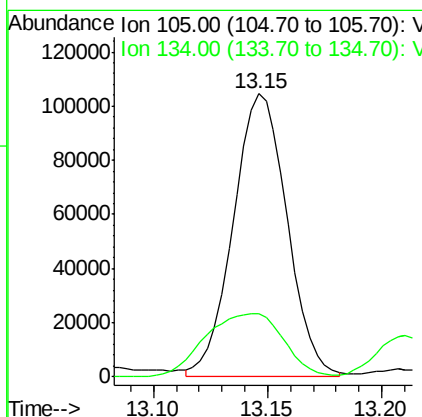
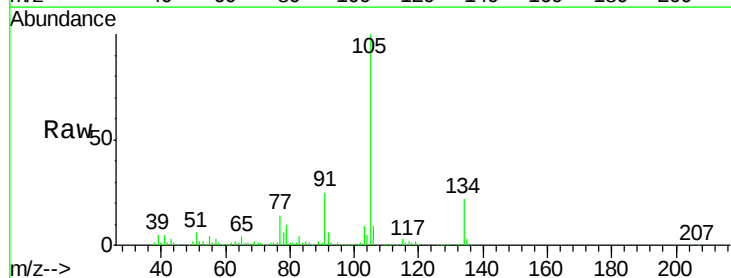
Manual Integrations
APPROVED

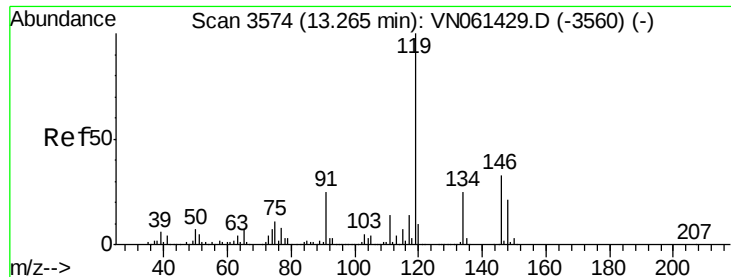
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#85
sec-Butylbenzene
Concen: 7.641 ug/l m
RT: 13.15 min Scan# 3537
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion:105 Resp: 171875
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.5#





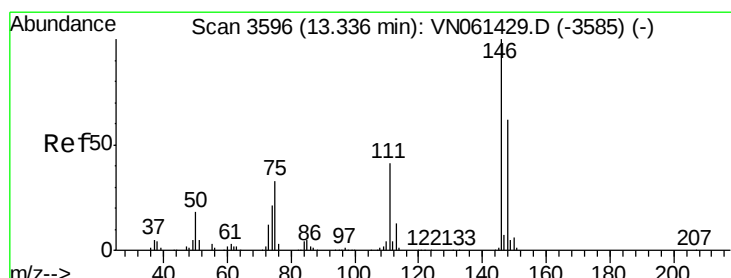
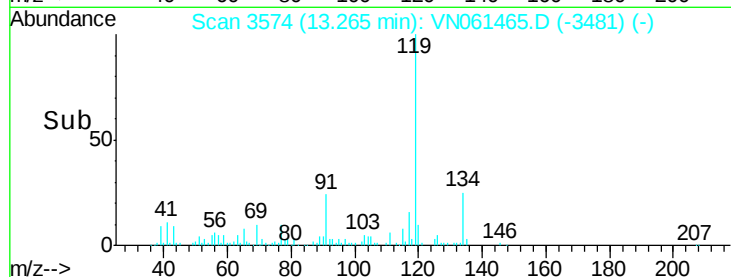
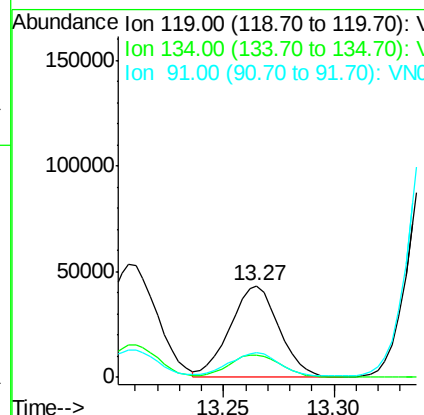
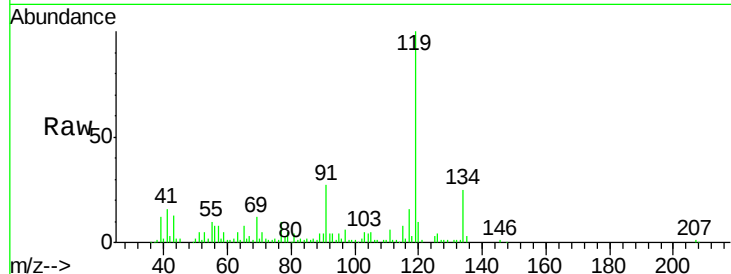
#86
p-Isopropyltoluene
Concen: 3.305 ug/l
RT: 13.27 min Scan# 3574
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.7	38.1
91	0.0	12.6	37.6#

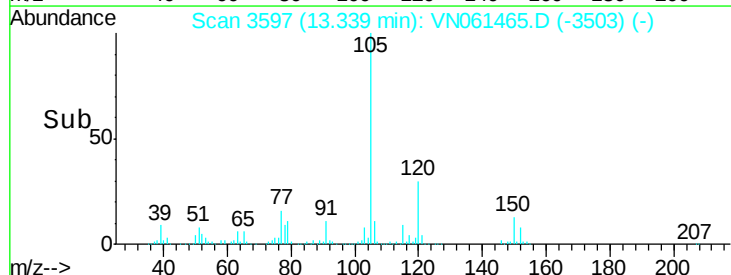
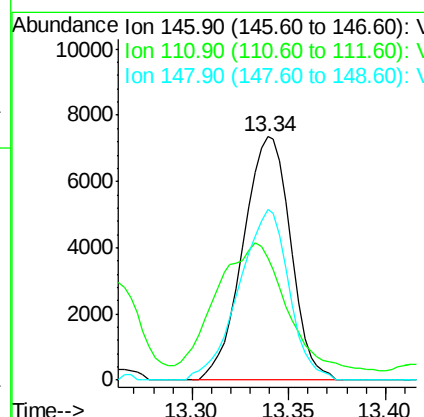
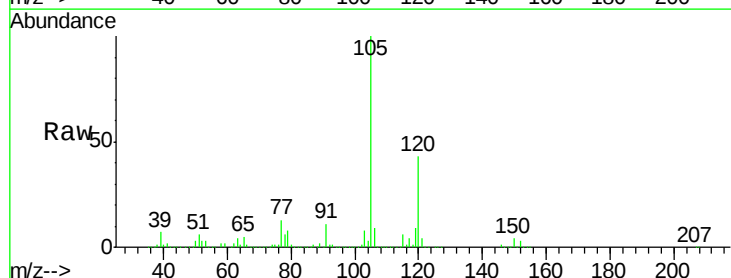
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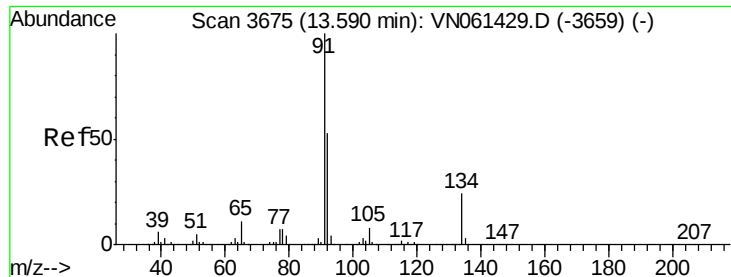
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#88
1,4-Dichlorobenzene
Concen: 1.335 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	75.8	20.8	62.5#
148	73.6	31.6	94.8





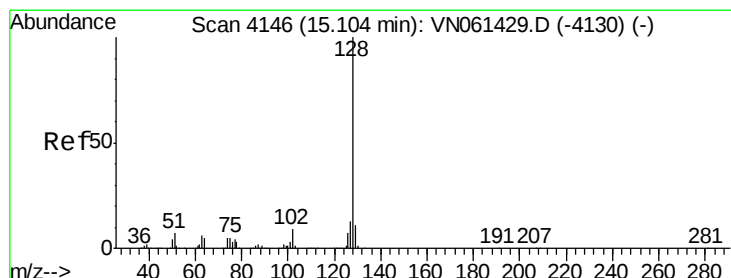
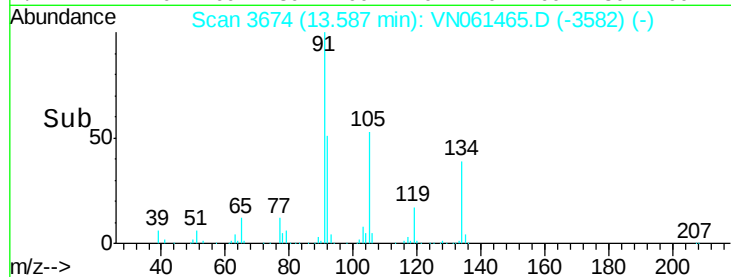
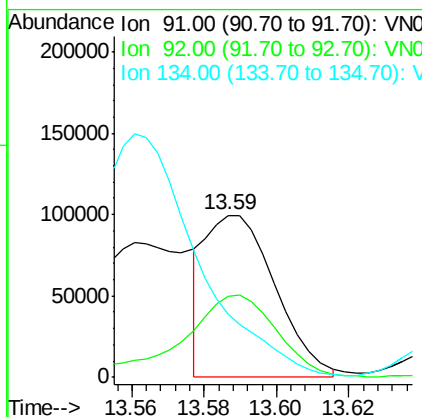
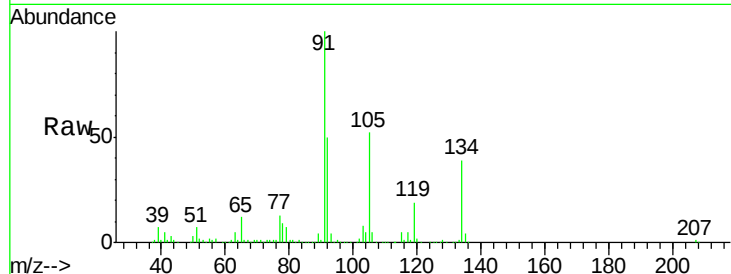
#89
n-Butylbenzene
Concen: 7.433 ug/l m
RT: 13.59 min Scan# 3674
Delta R.T. -0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.8	80.3#
134	220.2	12.4	37.4#

Manual Integrations
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#95
Naphthalene
Concen: 176.121 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN061465.D
Acq: 19 May 2020 7:19

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	11.0	8.6	13.0

