

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070820\
 Data File : VN062438.D
 Acq On : 9 Jul 2020 4:47
 Operator : JC/MD
 Sample : L3215-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 10:58:46 AM

Quant Time: Jul 09 13:05:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 09 02:12:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	193045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	342362	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	325727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	145292	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	142909	48.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.26%	
35) Dibromofluoromethane	7.55	113	103889	49.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.18%	
50) Toluene-d8	10.06	98	444280	53.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.36%	
62) 4-Bromofluorobenzene	12.38	95	170861	55.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.94%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	26169	53.129	ug/l #	74
25) 2-Butanone	6.79	43	16383	8.899	ug/l #	90
27) cis-1,2-Dichloroethene	6.78	96	4734	1.904	ug/l	89
31) Cyclohexane	7.61	56	246079	54.561	ug/l	98
39) Methylcyclohexane	9.05	83	278364	75.593	ug/l	97
40) Benzene	8.00	78	2197742	216.191	ug/l	99
52) Toluene	10.12	92	187883	31.997	ug/l	98
67) Ethyl Benzene	11.48	91	4855344	408.595	ug/l #	87
68) m/p-Xylenes	11.60	106	6689496	1590.203	ug/l #	56
69) o-Xylene	11.92	106	783511	191.296	ug/l	99
73) Isopropylbenzene	12.22	105	590493	52.521	ug/l	100
78) n-propylbenzene	12.57	91	1377536	104.891	ug/l	99
80) 1,3,5-Trimethylbenzene	12.71	105	2319085	251.616	ug/l	98
83) tert-Butylbenzene	12.97	119	9505m	1.215	ug/l	
84) 1,2,4-Trimethylbenzene	13.02	105	6591867	719.535	ug/l	77
85) sec-Butylbenzene	13.15	105	83465m	8.053	ug/l	
86) p-Isopropyltoluene	13.26	119	35718	3.993	ug/l #	74
89) n-Butylbenzene	13.59	91	112323m	14.221	ug/l	
95) Naphthalene	15.10	128	3902503	360.585	ug/l	98

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

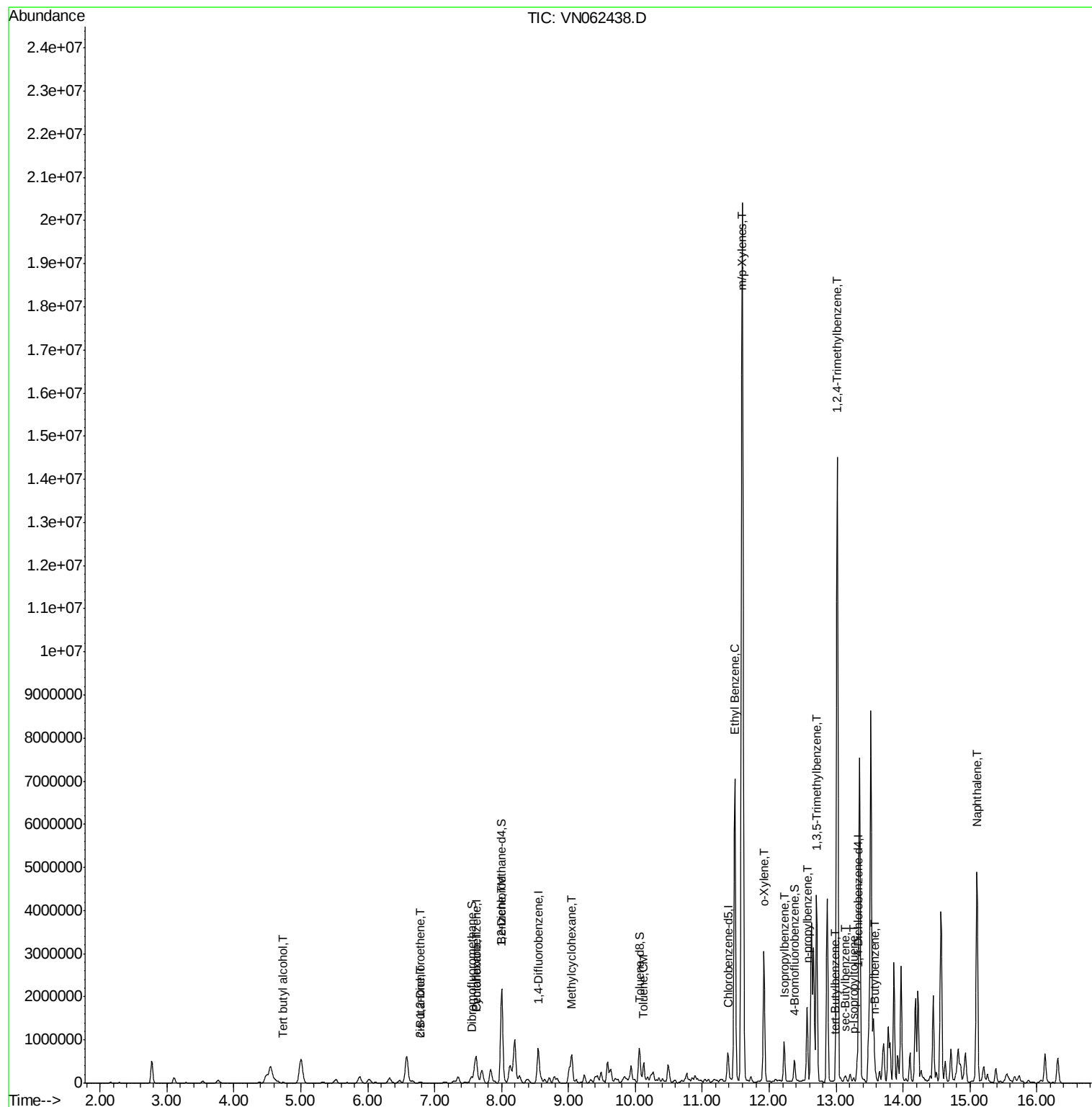
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070820\
Data File : VN062438.D
Acq On : 9 Jul 2020 4:47
Operator : JC/MD
Sample : L3215-16
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ALS Vial : 48 Sample Multiplier: 1

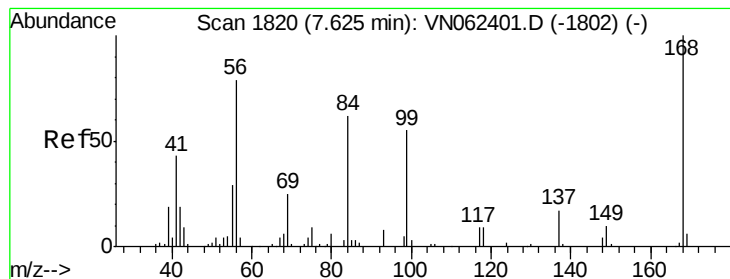
Instrument :
MSVOA_N
ClientSampleId :
MW-2

Manual Integrations
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7/9/2020 10:58:46 AM

Quant Time: Jul 09 13:05:54 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 09 02:12:34 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: VN062438.D

Acq: 9 Jul 2020 4:47

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:168 Resp: 193045

Ion Ratio Lower Upper

168 100

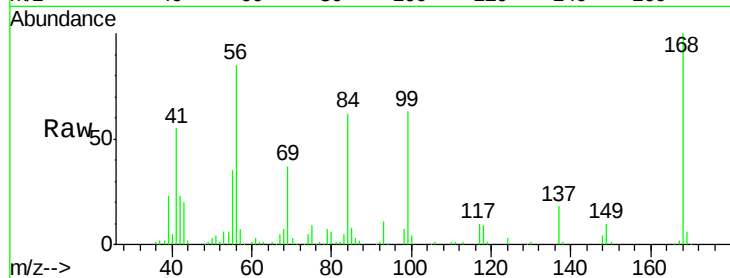
99 63.2 48.8 73.2

Manual Integrations

APPROVED

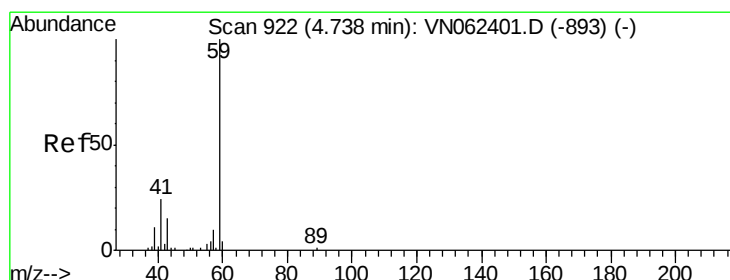
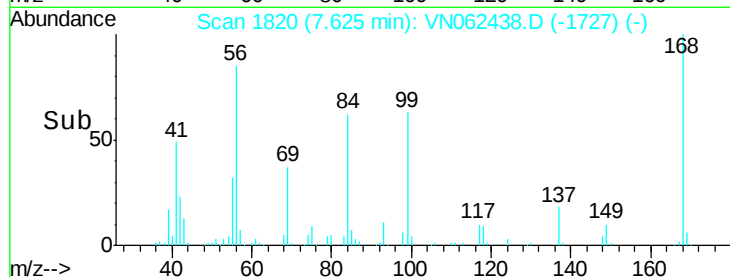
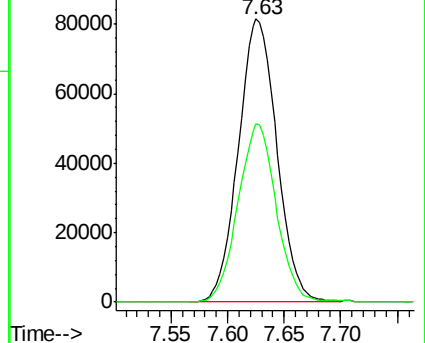
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 53.129 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN062438.D

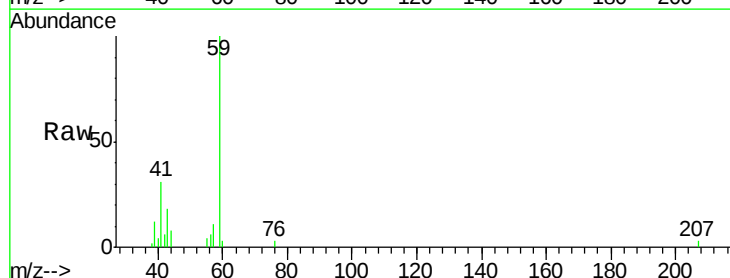
Acq: 9 Jul 2020 4:47

Tgt Ion: 59 Resp: 26169

Ion Ratio Lower Upper

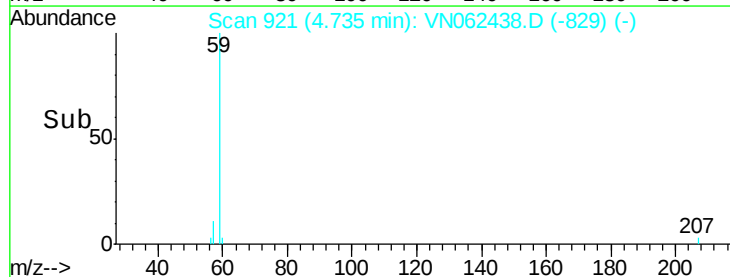
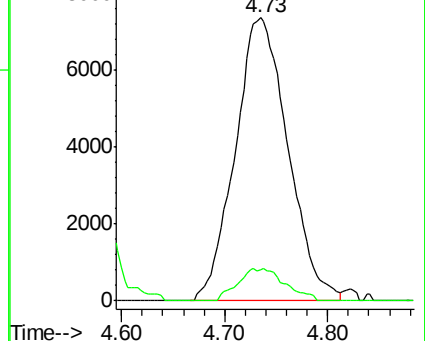
59 100

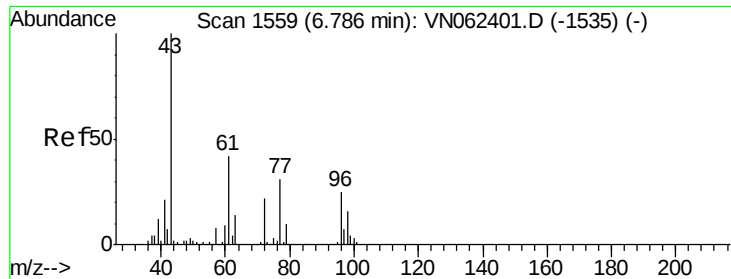
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





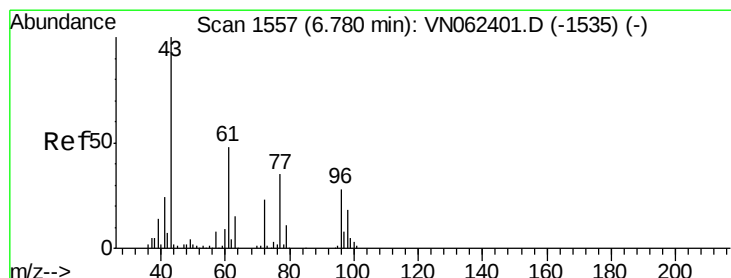
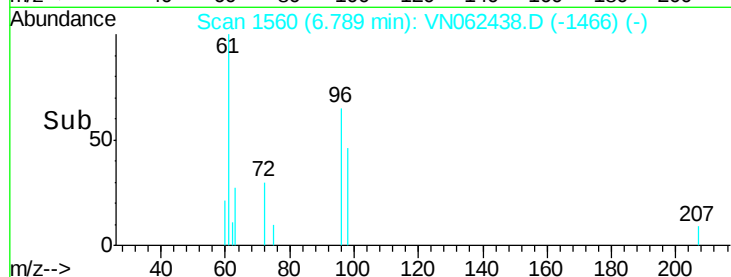
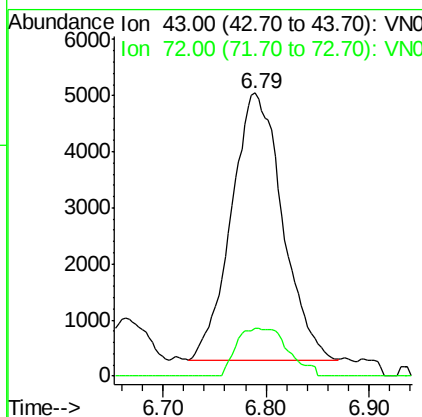
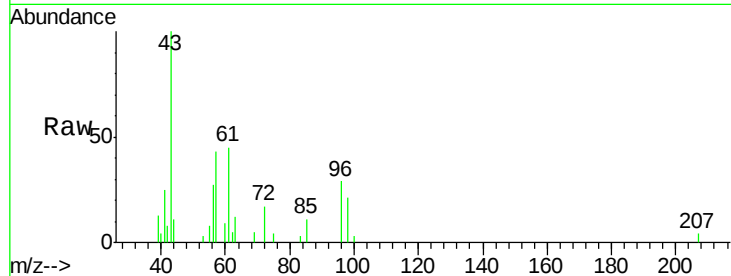
#25
2-Butanone
Concen: 8.899 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion: 43 Resp: 16383
Ion Ratio Lower Upper
43 100
72 17.7 17.9 26.9#

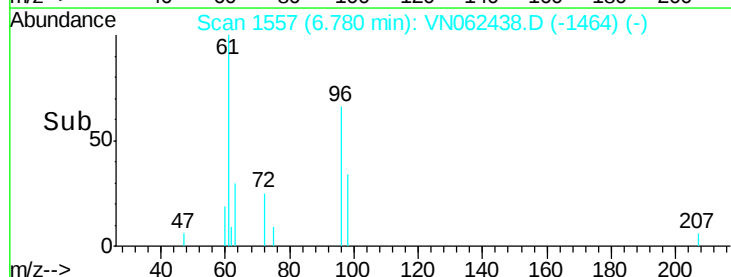
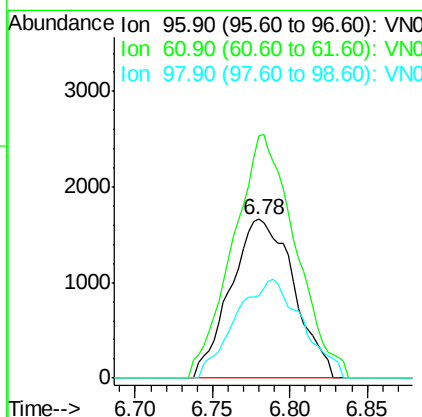
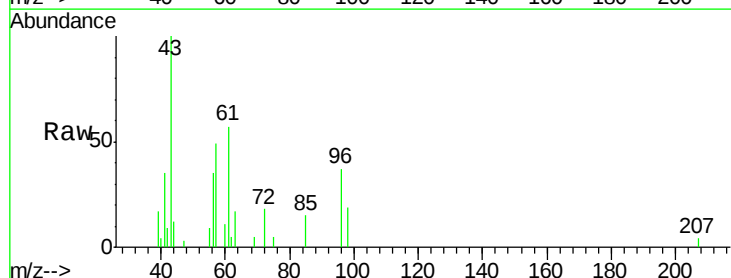
Manual Integrations
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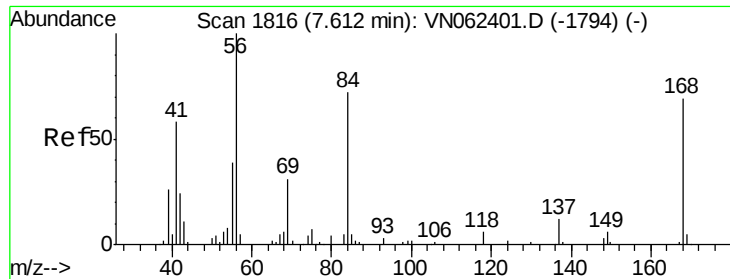
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#27
cis-1,2-Dichloroethene
Concen: 1.904 ug/l
RT: 6.78 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion: 96 Resp: 4734
Ion Ratio Lower Upper
96 100
61 151.6 0.0 343.4
98 65.4 0.0 128.4





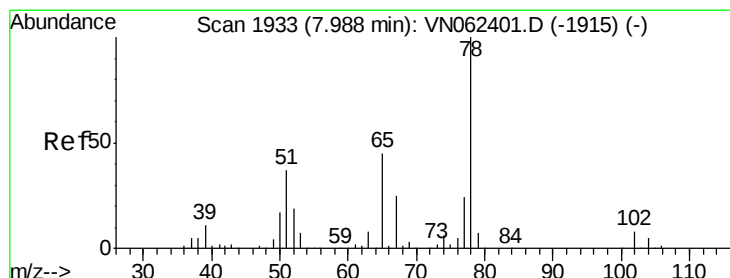
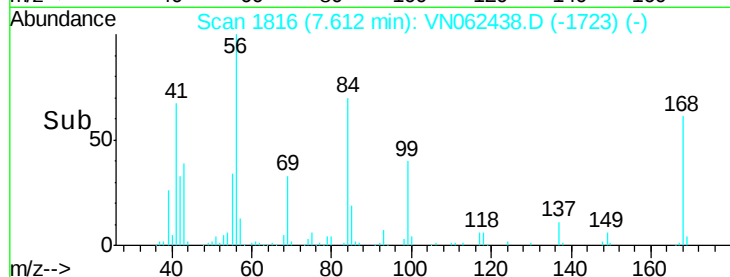
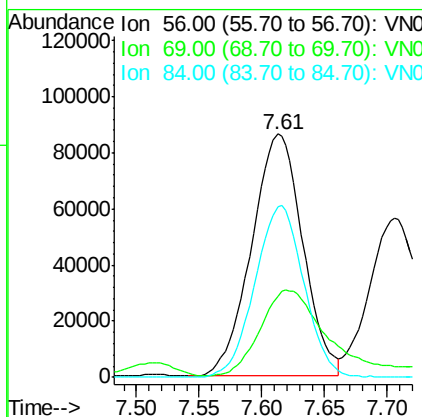
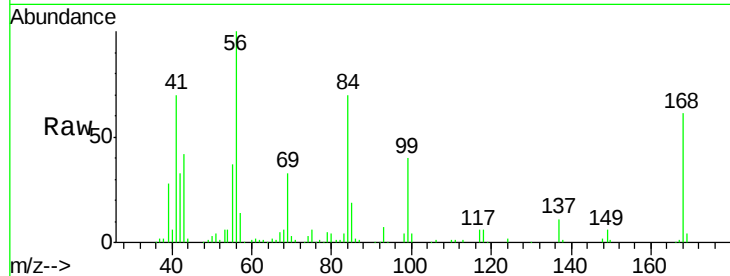
#31
Cyclohexane
Concen: 54.561 ug/l
RT: 7.61 min Scan# 1816
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	24.5	36.7
84	70.2	57.4	86.2

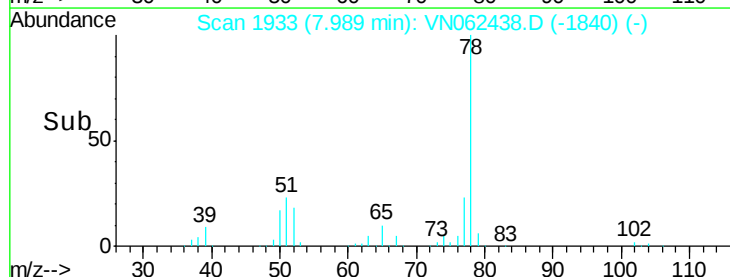
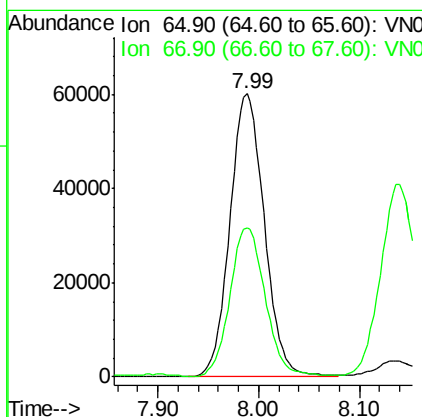
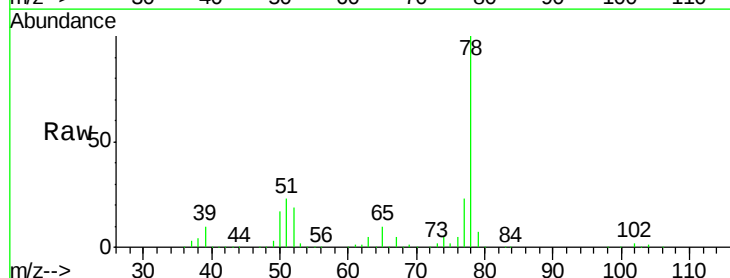
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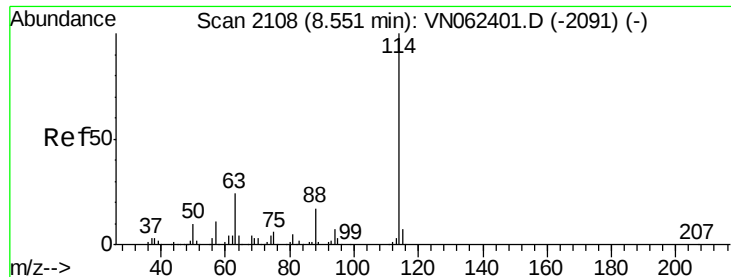
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#33
1,2-Dichloroethane-d4
Concen: 48.129 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062438.D

Acq: 9 Jul 2020 4:47

Instrument :

MSVOA_N

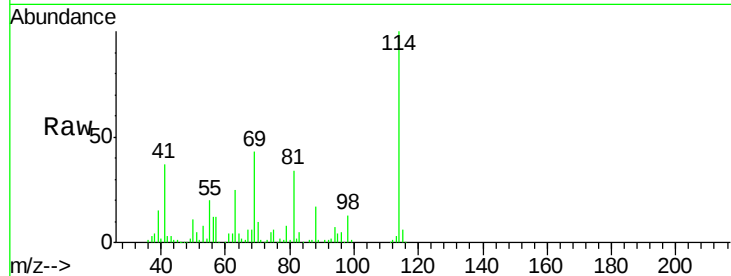
ClientSampleId :

MW-2

Tot Ion:	114	Resp:	342362
Ion Ratio		Lower	Upper
114	100		
63	24.9	0.0	48.4
88	17.0	0.0	33.8

Manual Integrations
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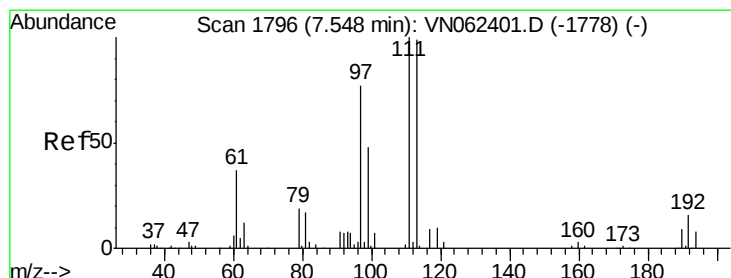
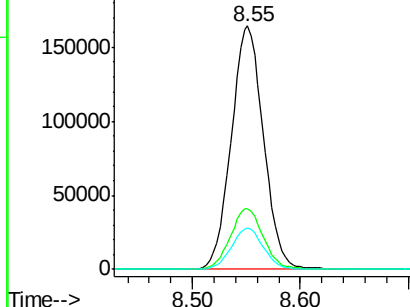
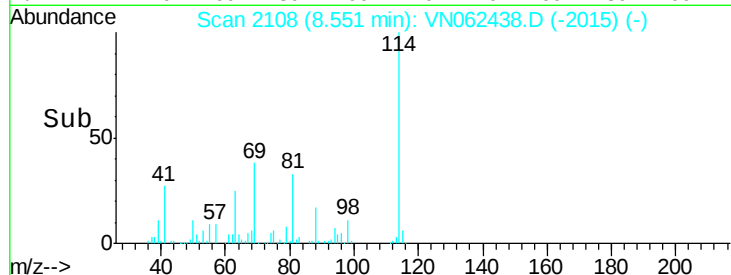
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.091 ug/l

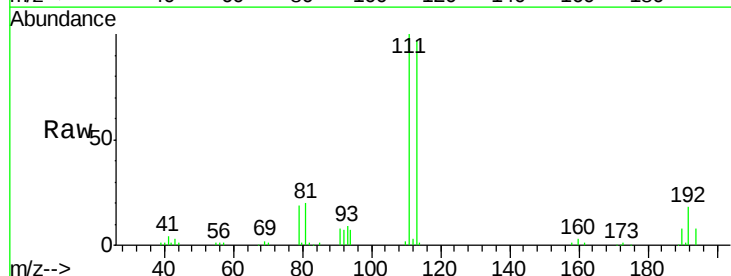
RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN062438.D

Acq: 9 Jul 2020 4:47

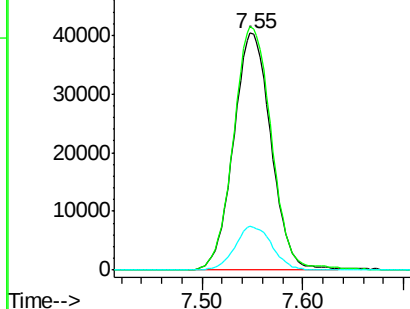
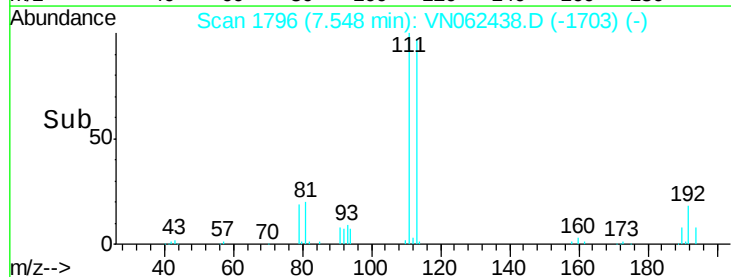
Tgt Ion:	113	Resp:	103889
Ion Ratio		Lower	Upper
113	100		
111	104.5	83.1	124.7
192	18.3	14.1	21.1

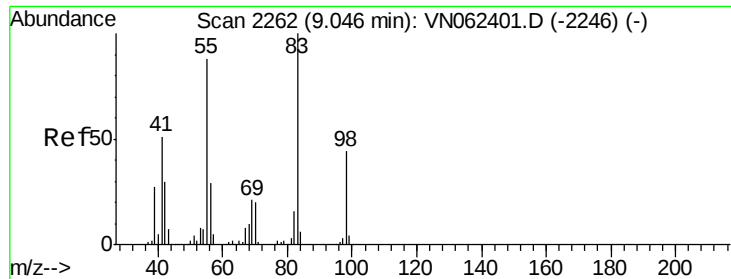


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





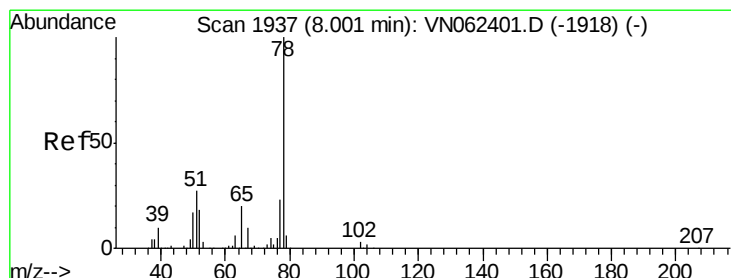
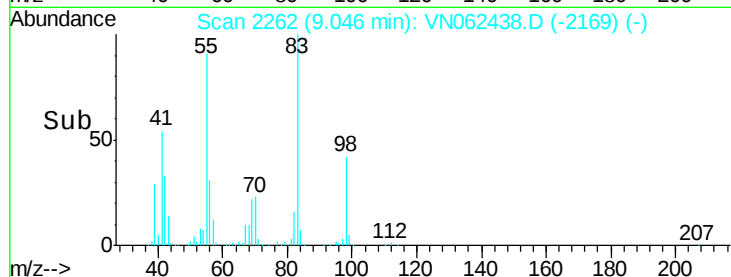
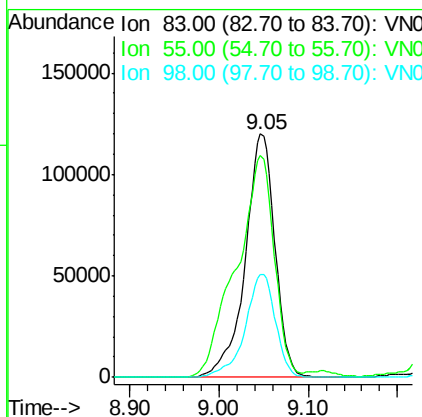
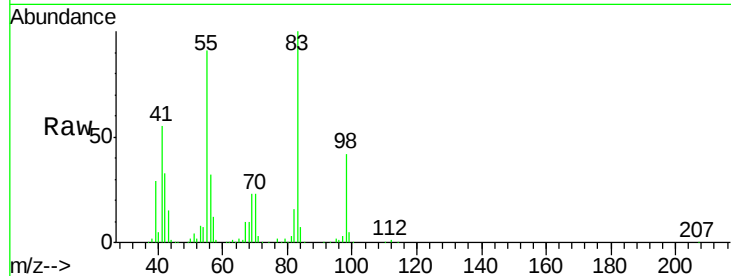
#39
Methvlcvclohexane
Concen: 75.593 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.0	70.5	105.7
98	42.5	35.5	53.3

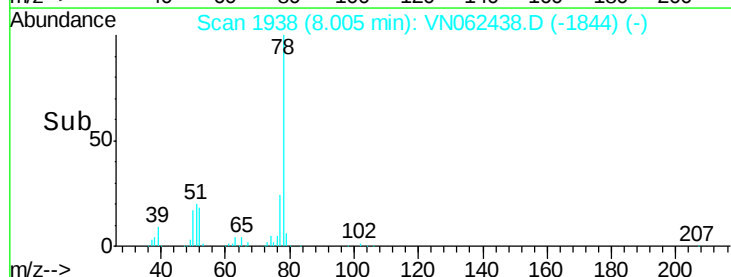
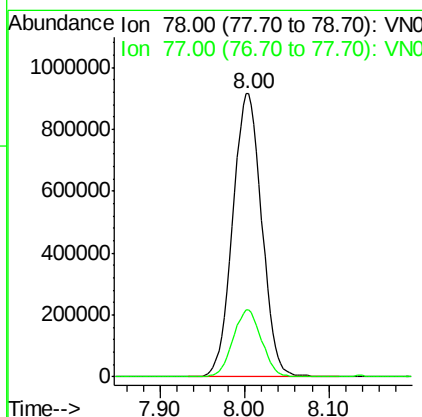
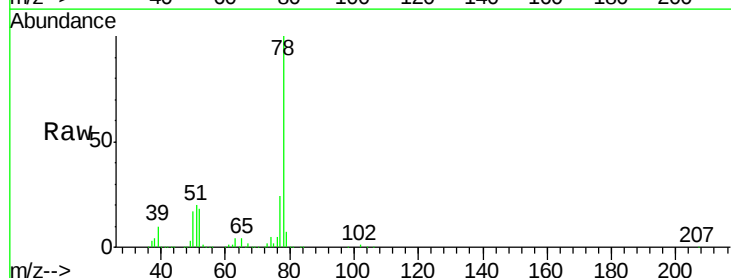
Manual Integrations
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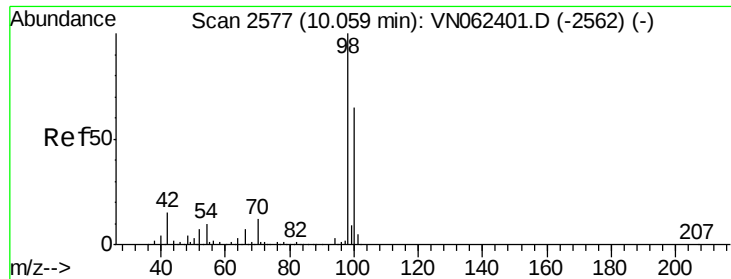
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#40
Benzene
Concen: 216.191 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1





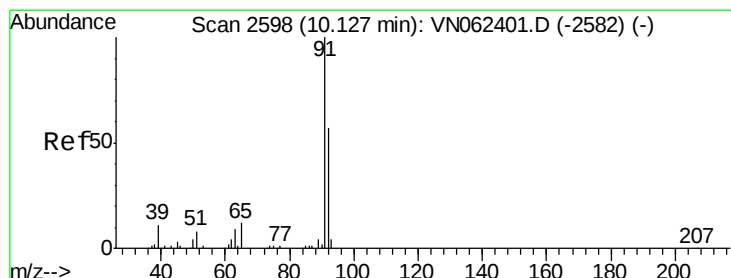
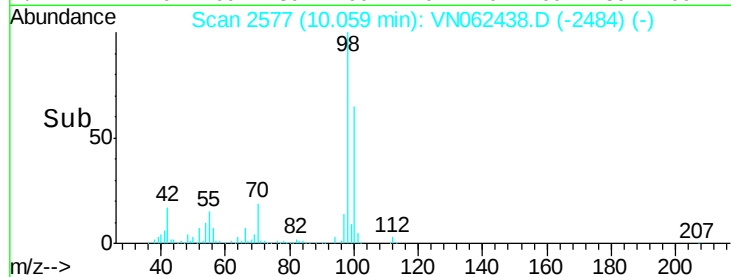
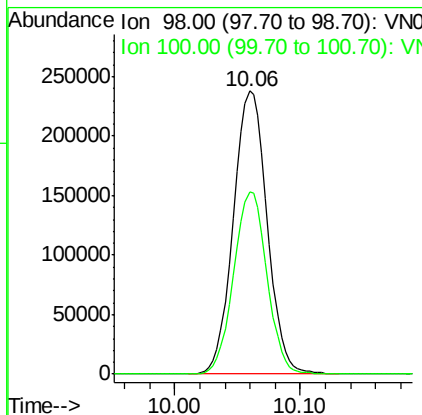
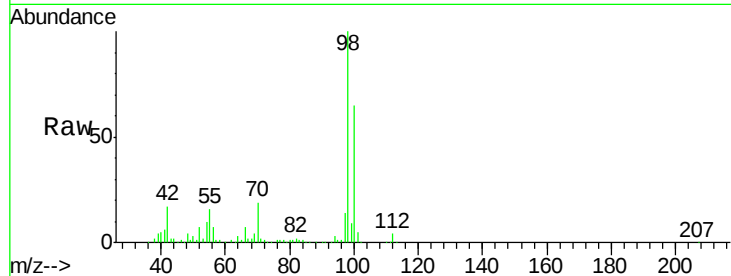
#50
Toluene-d8
Concen: 53.179 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion: 98 Resp: 444280
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3

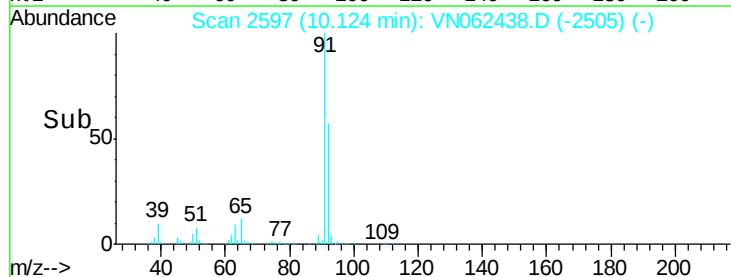
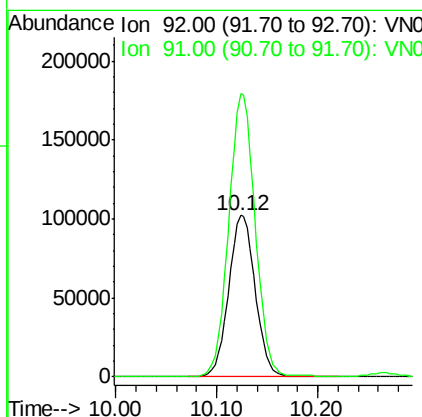
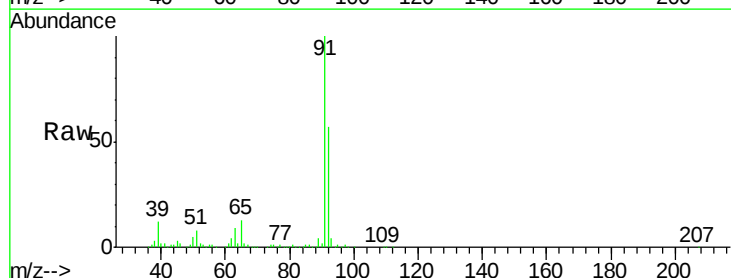
Manual Integrations
APPROVED

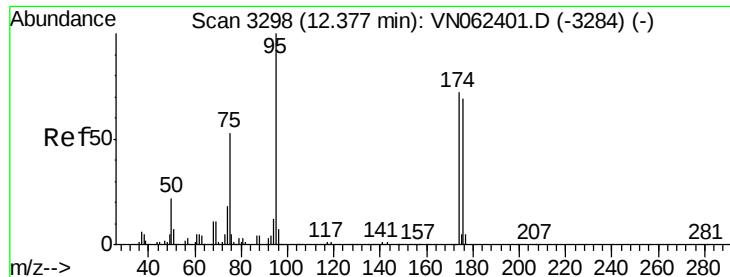
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7/9/2020 10:58:46 AM



#52
Toluene
Concen: 31.997 ug/l
RT: 10.12 min Scan# 2597
Delta R.T. -0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion: 92 Resp: 187883
Ion Ratio Lower Upper
92 100
91 173.5 141.0 211.6





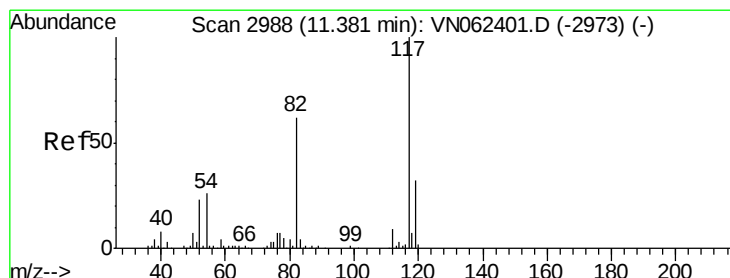
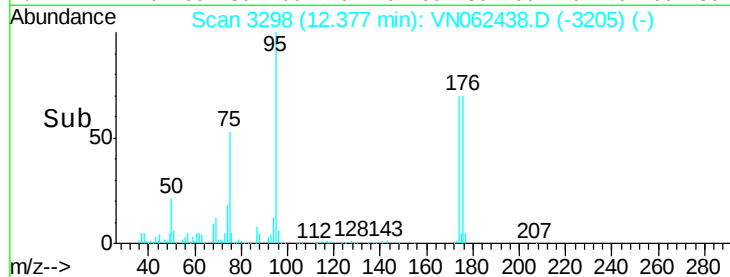
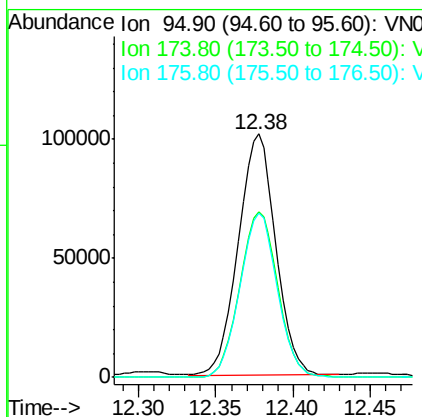
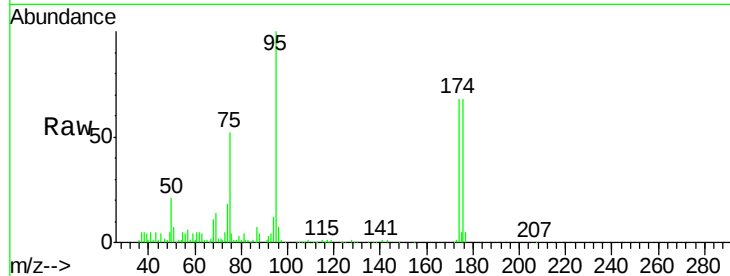
#62
4-Bromofluorobenzene
Concen: 55.966 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Resp	Lower	Upper
95	100	170861		
174	69.7	0.0	141.6	
176	67.9	0.0	137.2	

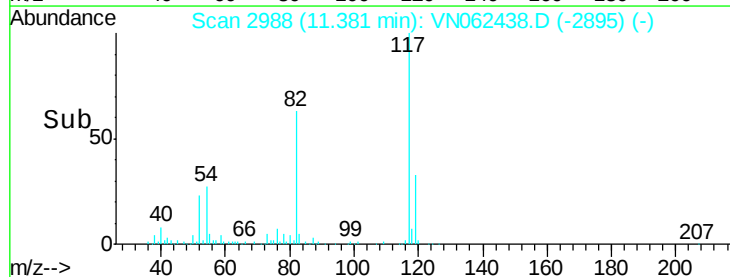
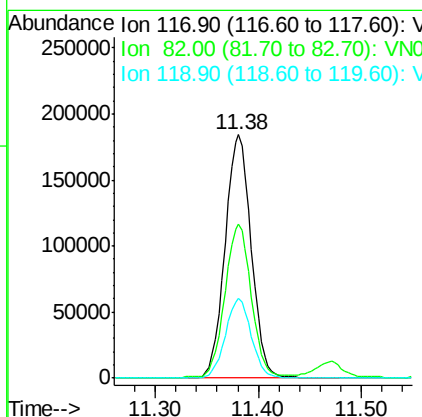
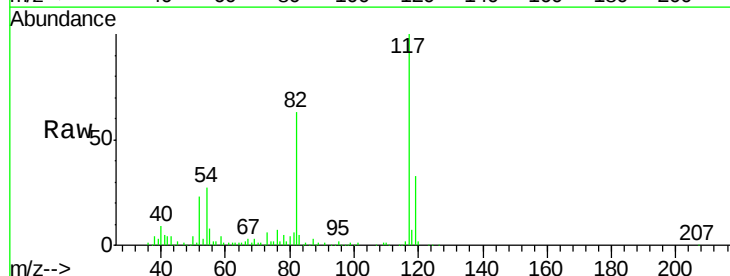
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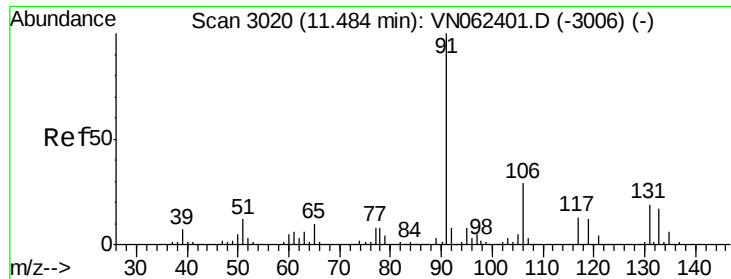
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	325727		
82	63.0	49.6	74.4	
119	32.7	25.4	38.0	





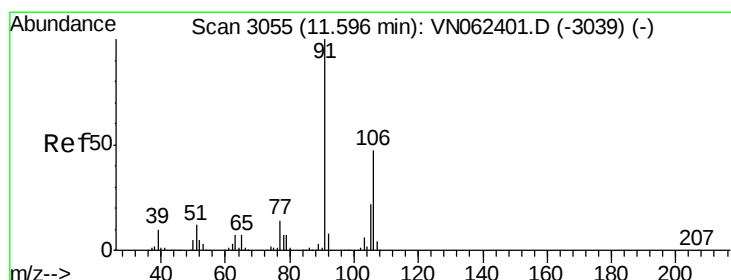
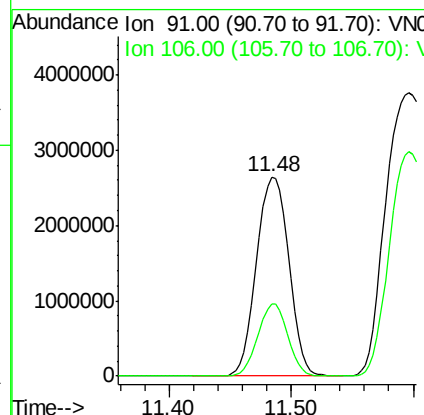
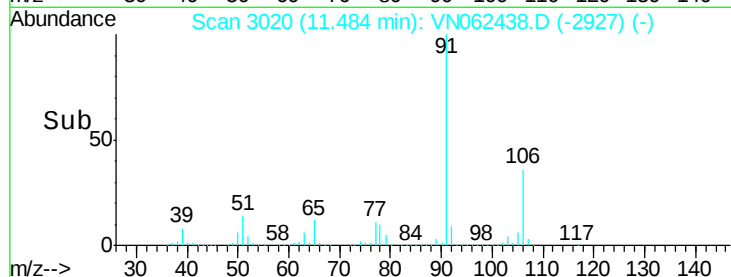
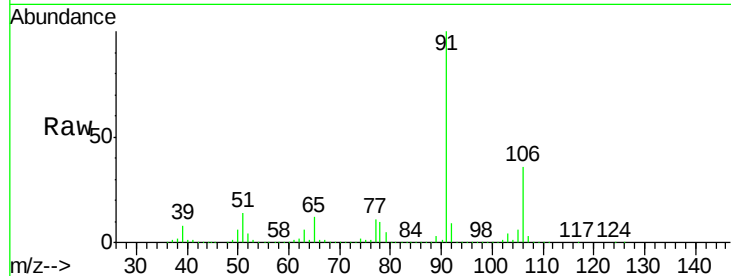
#67
Ethyl Benzene
Concen: 408.595 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
Client Sampled :
MW-2

Tot Ion: 91 Resp: 4855344
Ion Ratio Lower Upper
91 100
106 36.4 23.4 35.2#

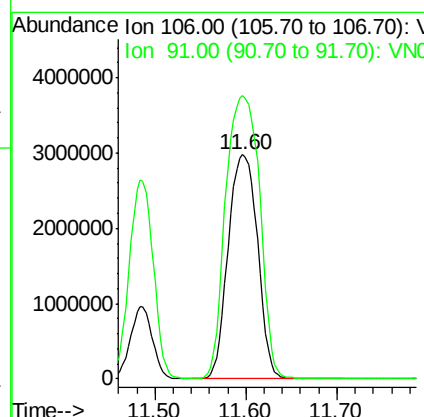
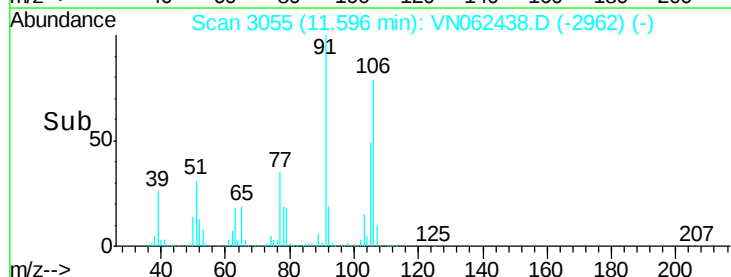
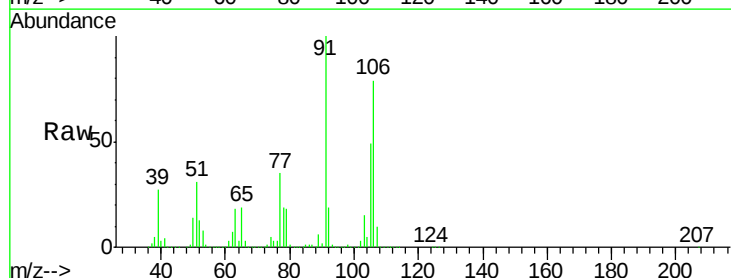
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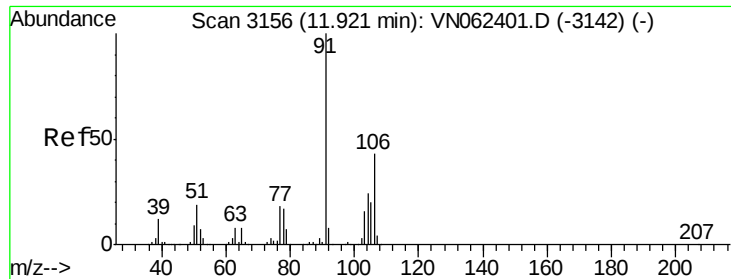
MMDadoda
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#68
m/p-Xylenes
Concen: 1590.203 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion: 106 Resp: 6689496
Ion Ratio Lower Upper
106 100
91 146.4 172.4 258.6#





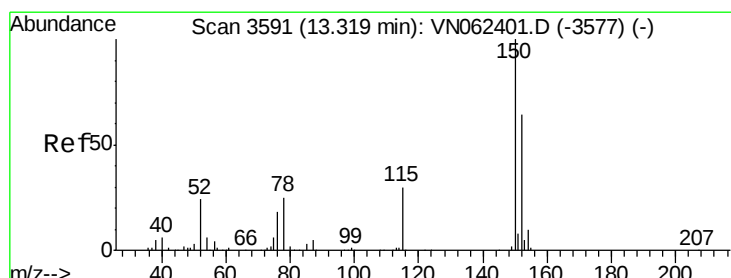
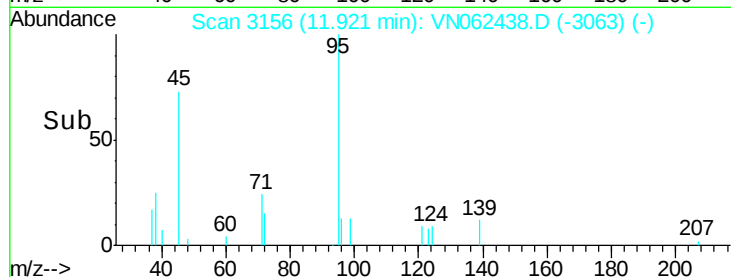
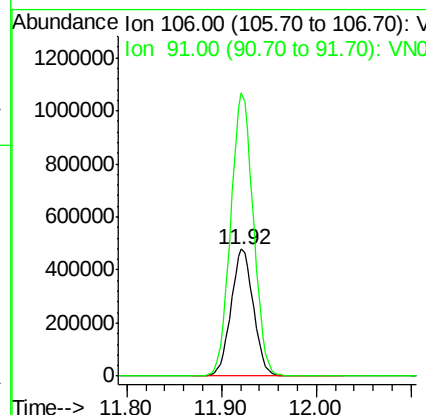
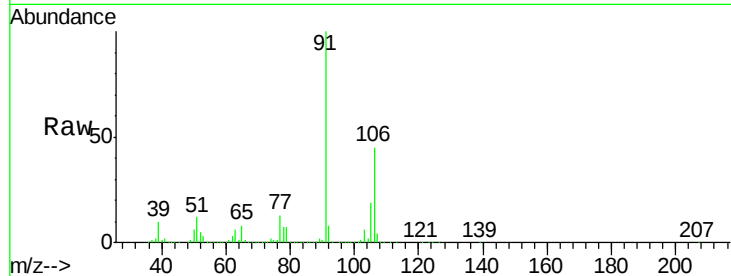
#69
o-Xylene
Concen: 191.296 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Resp	Lower	Upper
106	100	783511		
91	226.2	113.8	341.4	

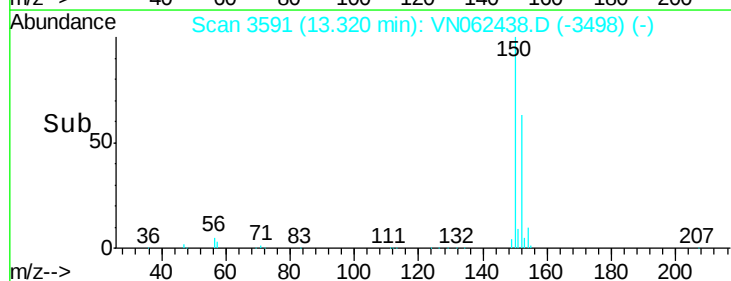
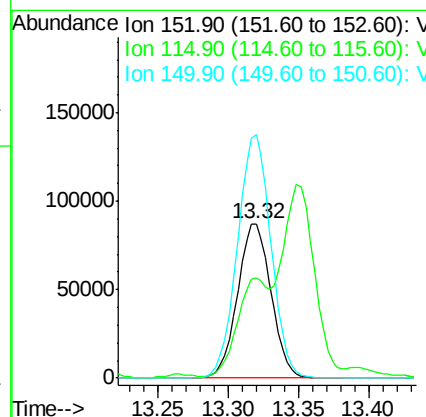
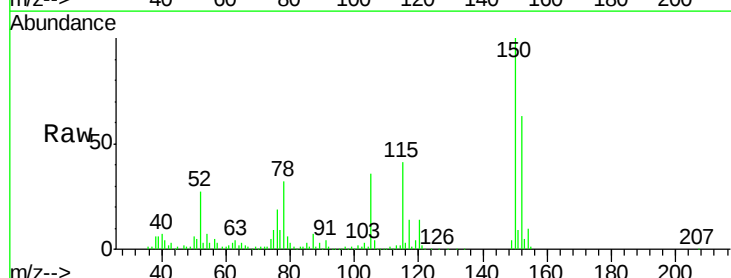
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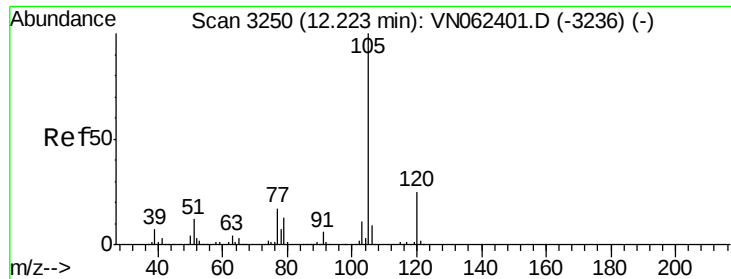
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	145292		
115	58.5	31.4	94.2	
150	157.7	0.0	347.4	





#73

Isopropylbenzene

Concen: 52.521 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN062438.D

Acq: 9 Jul 2020 4:47

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion: 105 Resp: 590493

Ion Ratio Lower Upper

105 100

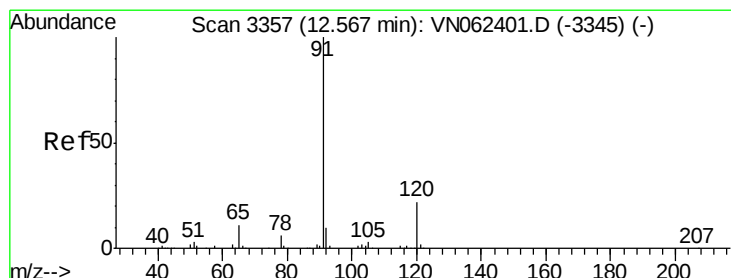
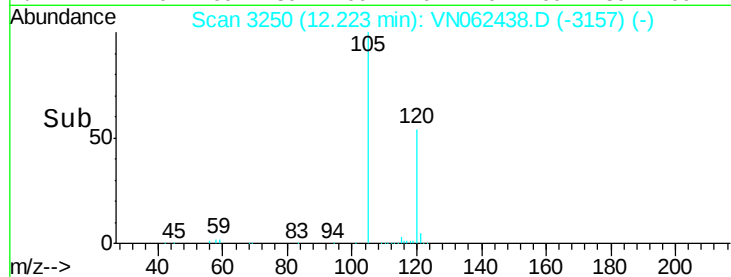
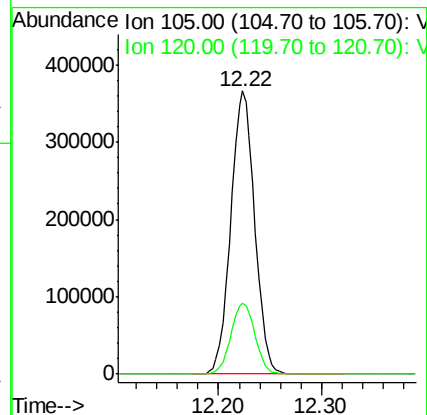
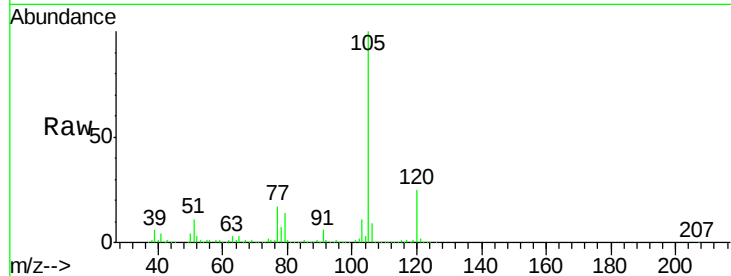
120 25.3 12.7 38.1

Manual Integrations

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#78

n-propylbenzene

Concen: 104.891 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN062438.D

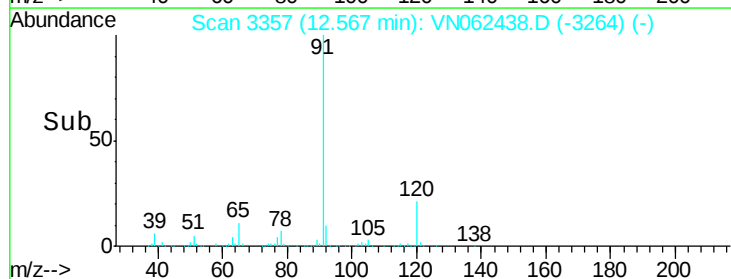
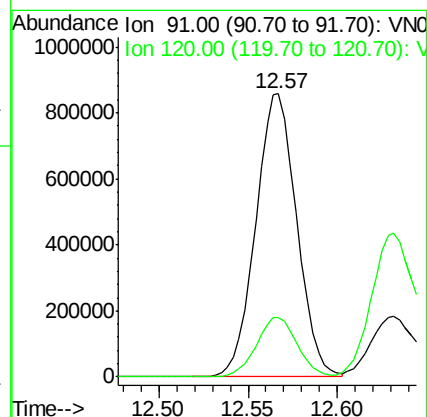
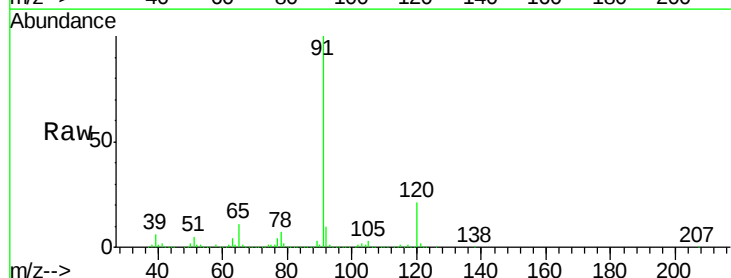
Acq: 9 Jul 2020 4:47

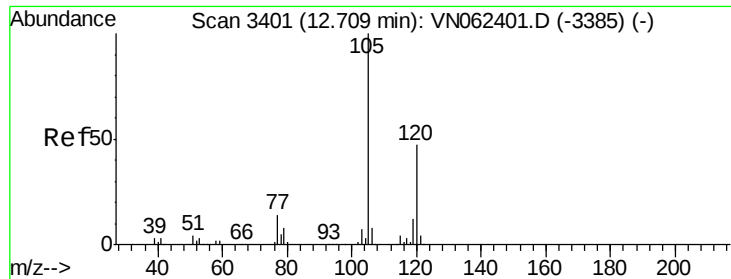
Tgt Ion: 91 Resp: 1377536

Ion Ratio Lower Upper

91 100

120 21.0 10.7 32.1





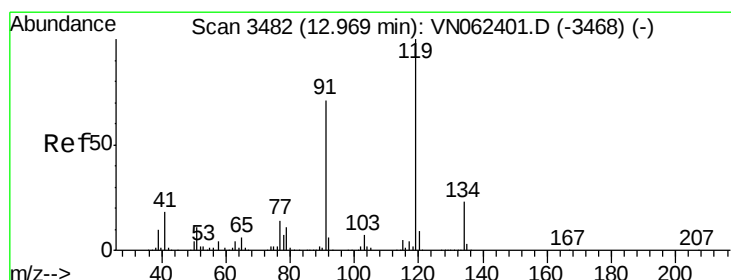
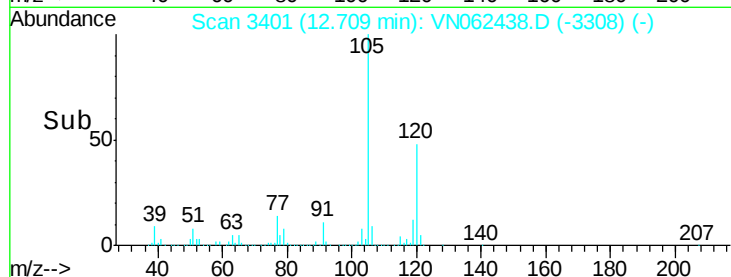
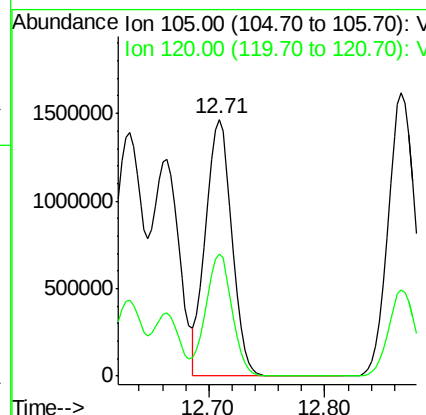
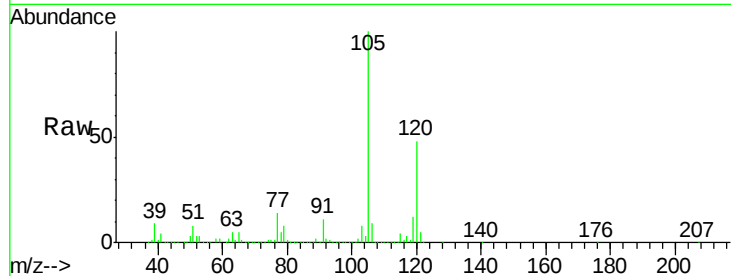
#80
 1,3,5-Trimethylbenzene
 Concen: 251.616 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN062438.D
 Acq: 9 Jul 2020 4:47

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tot Ion:105 Resp: 2319085
 Ion Ratio Lower Upper
 105 100
 120 48.0 23.4 70.2

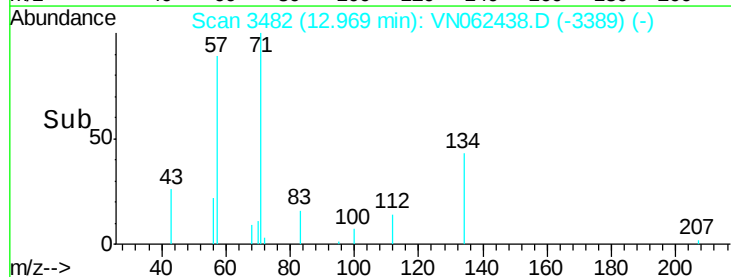
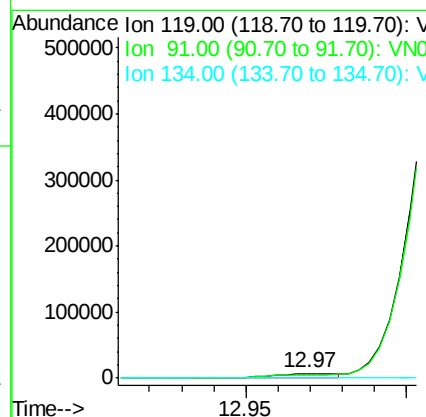
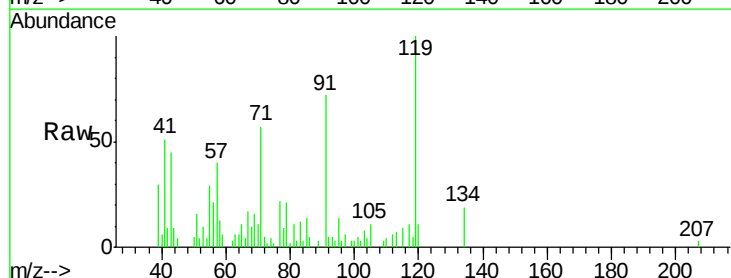
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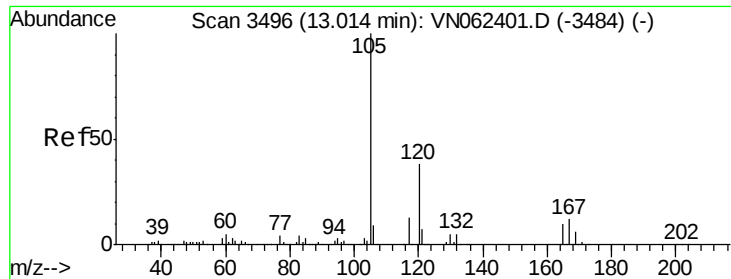
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#83
 tert-Butylbenzene
 Concen: 1.215 ug/l m
 RT: 12.97 min Scan# 3482
 Delta R.T. 0.00 min
 Lab File: VN062438.D
 Acq: 9 Jul 2020 4:47

Tgt Ion:119 Resp: 9505
 Ion Ratio Lower Upper
 119 100
 91 11241.5 34.8 104.3#
 134 0.0 11.7 35.0#





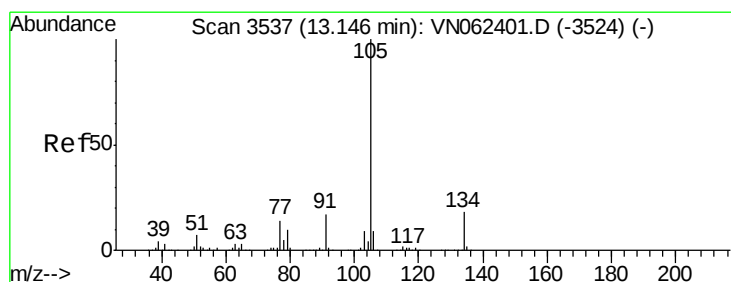
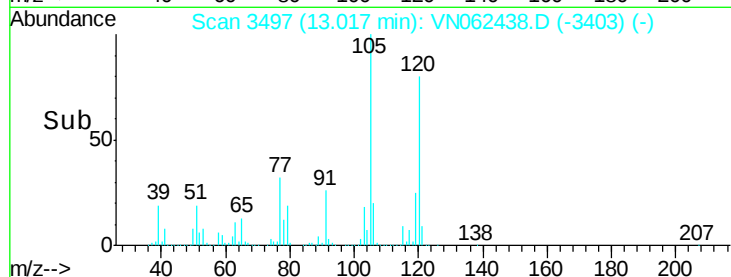
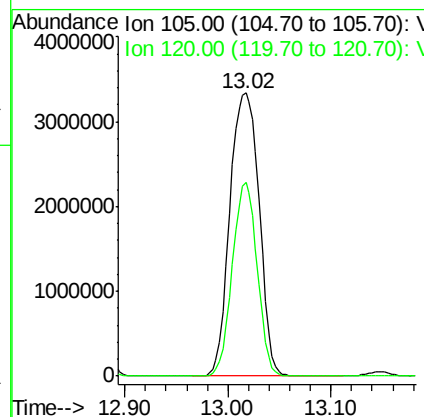
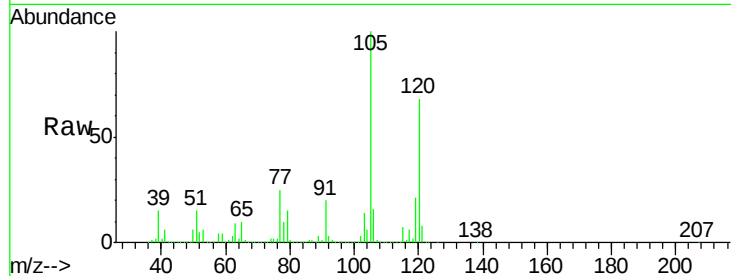
#84
 1,2,4-Trimethylbenzene
 Concen: 719.535 ug/l
 RT: 13.02 min Scan# 3497
 Delta R.T. 0.00 min
 Lab File: VN062438.D
 Acq: 9 Jul 2020 4:47

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Tot Ion:105 Resp: 6591867
 Ion Ratio Lower Upper
 105 100
 120 58.1 21.6 64.8

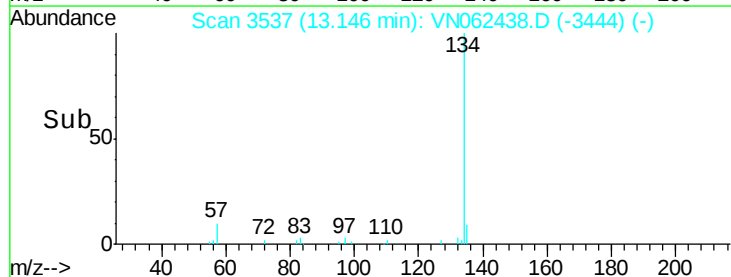
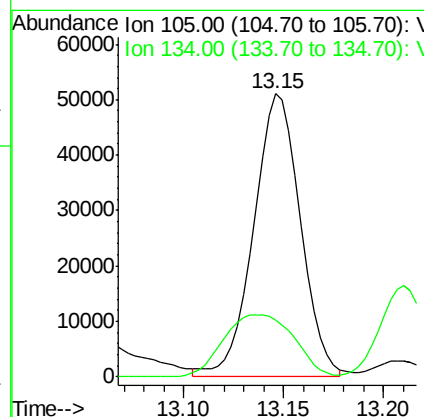
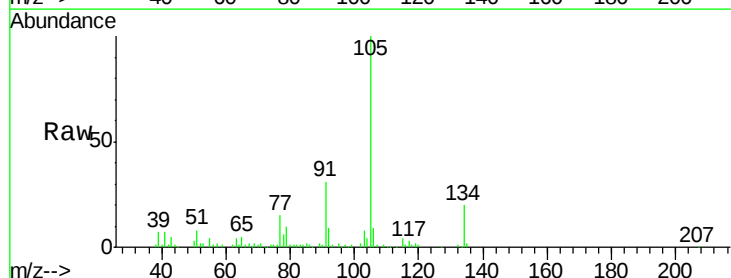
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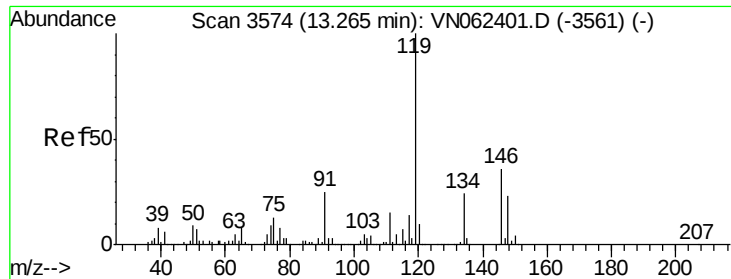
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#85
 sec-Butylbenzene
 Concen: 8.053 ug/l m
 RT: 13.15 min Scan# 3537
 Delta R.T. 0.00 min
 Lab File: VN062438.D
 Acq: 9 Jul 2020 4:47

Tgt Ion:105 Resp: 83465
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.3 28.0#





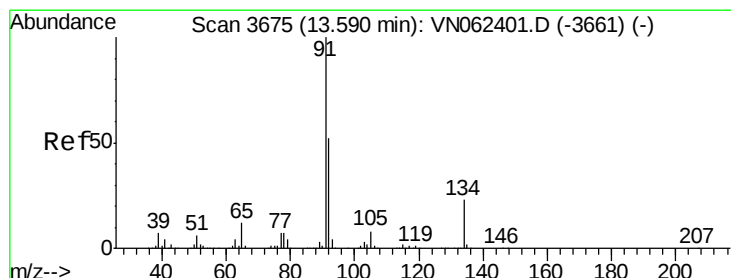
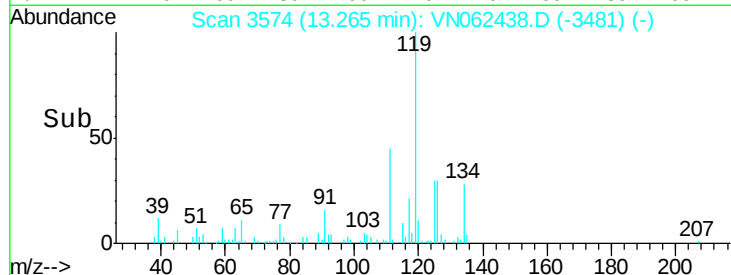
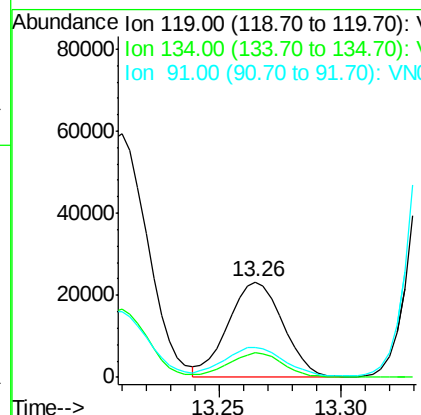
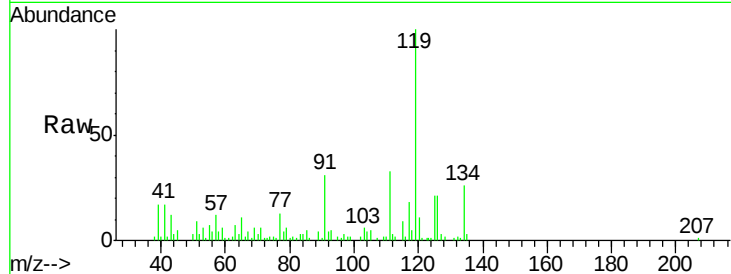
#86
 p-Isopropyltoluene
 Concen: 3.993 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN062438.D
 Acq: 9 Jul 2020 4:47

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tot Ion	Ratio	Resp	Lower	Upper
119	100	35718		
134	25.7		12.4	37.0
91	0.0		12.4	37.4#

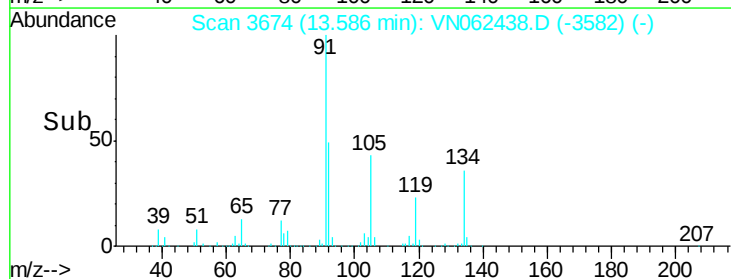
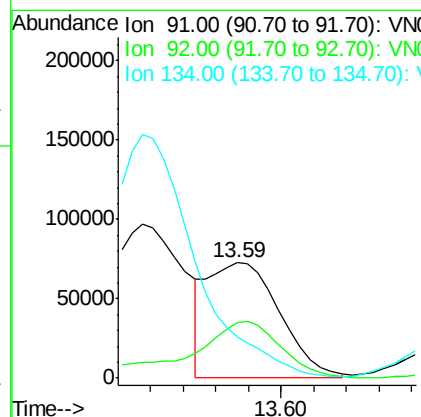
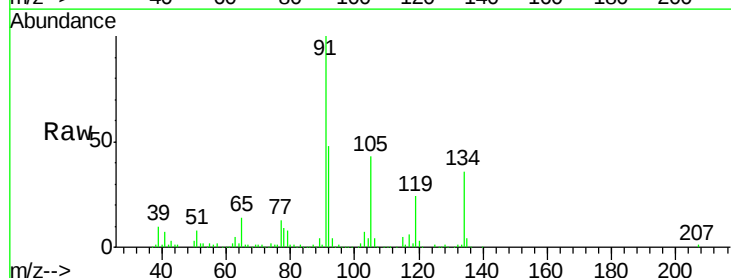
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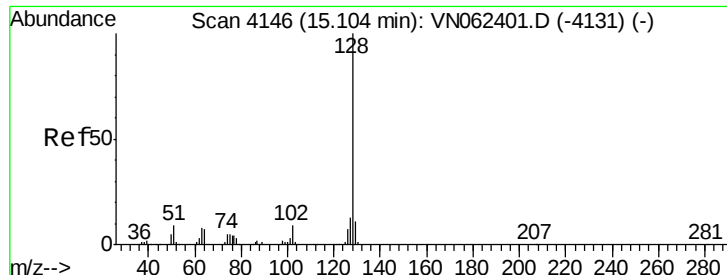
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#89
 n-Butylbenzene
 Concen: 14.221 ug/l m
 RT: 13.59 min Scan# 3674
 Delta R.T. -0.00 min
 Lab File: VN062438.D
 Acq: 9 Jul 2020 4:47

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	112323		
92	0.0		25.9	77.7#
134	252.6		11.6	34.8#





#95
Naphthalene
Concen: 360.585 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN062438.D
Acq: 9 Jul 2020 4:47

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.2
129	11.3	8.6	12.8

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