

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061467.D
 Acq On : 19 May 2020 8:06
 Operator : JC/MD
 Sample : L2645-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Manual Integrations
 APPROVED

MMDadoda
 5/19/2020 4:23:59 PM

Quant Time: May 19 15:20:52 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	331453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	619821	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	598279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	340668	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	230299	46.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.12%	
35) Dibromofluoromethane	7.55	113	27629	8.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	17.02%	
50) Toluene-d8	10.06	98	748852	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.37	95	314008	55.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.62%	
Target Compounds						
					Qvalue	
6) Chloroethane	2.67	64	18742	4.328	ug/l	96
11) Tert butyl alcohol	4.73	59	191307	335.637	ug/l #	73
17) Carbon Disulfide	4.01	76	31992	1.271	ug/l	99
25) 2-Butanone	6.79	43	245329	108.923	ug/l	98
30) Chloroform	7.33	83	1780681	235.251	ug/l	99
31) Cyclohexane	7.61	56	1269461	208.459	ug/l	96
39) Methylcyclohexane	9.05	83	792700	111.983	ug/l	96
40) Benzene	8.00	78	13184106	754.859	ug/l #	25
47) Bromodichloromethane	9.37	83	39310	6.088	ug/l	89
52) Toluene	10.13	92	13508674	1204.725	ug/l #	55
59) 2-Hexanone	10.72	43	195160	54.017	ug/l	73
65) Chlorobenzene	11.41	112	50825	4.166	ug/l	92
67) Ethyl Benzene	11.49	91	12851415	577.065	ug/l #	1
68) m/p-Xylenes	11.61	106	15015920	1776.361	ug/l #	4
69) o-Xylene	11.92	106	9264301	1132.516	ug/l	42
73) Isopropylbenzene	12.22	105	2786595	101.892	ug/l	96
78) n-propylbenzene	12.57	91	6378590	204.698	ug/l #	72
80) 1,3,5-Trimethylbenzene	12.71	105	6525431m	291.406	ug/l	
84) 1,2,4-Trimethylbenzene	13.02	105	11284715m	503.547	ug/l	
85) sec-Butylbenzene	13.15	105	419480	16.173	ug/l #	62
86) p-Isopropyltoluene	13.27	119	157809	6.852	ug/l #	73
89) n-Butylbenzene	13.59	91	428923m	20.499	ug/l	
91) 1,2-Dichlorobenzene	13.63	146	31720	3.044	ug/l	94
95) Naphthalene	15.10	128	7072089	393.744	ug/l #	84

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

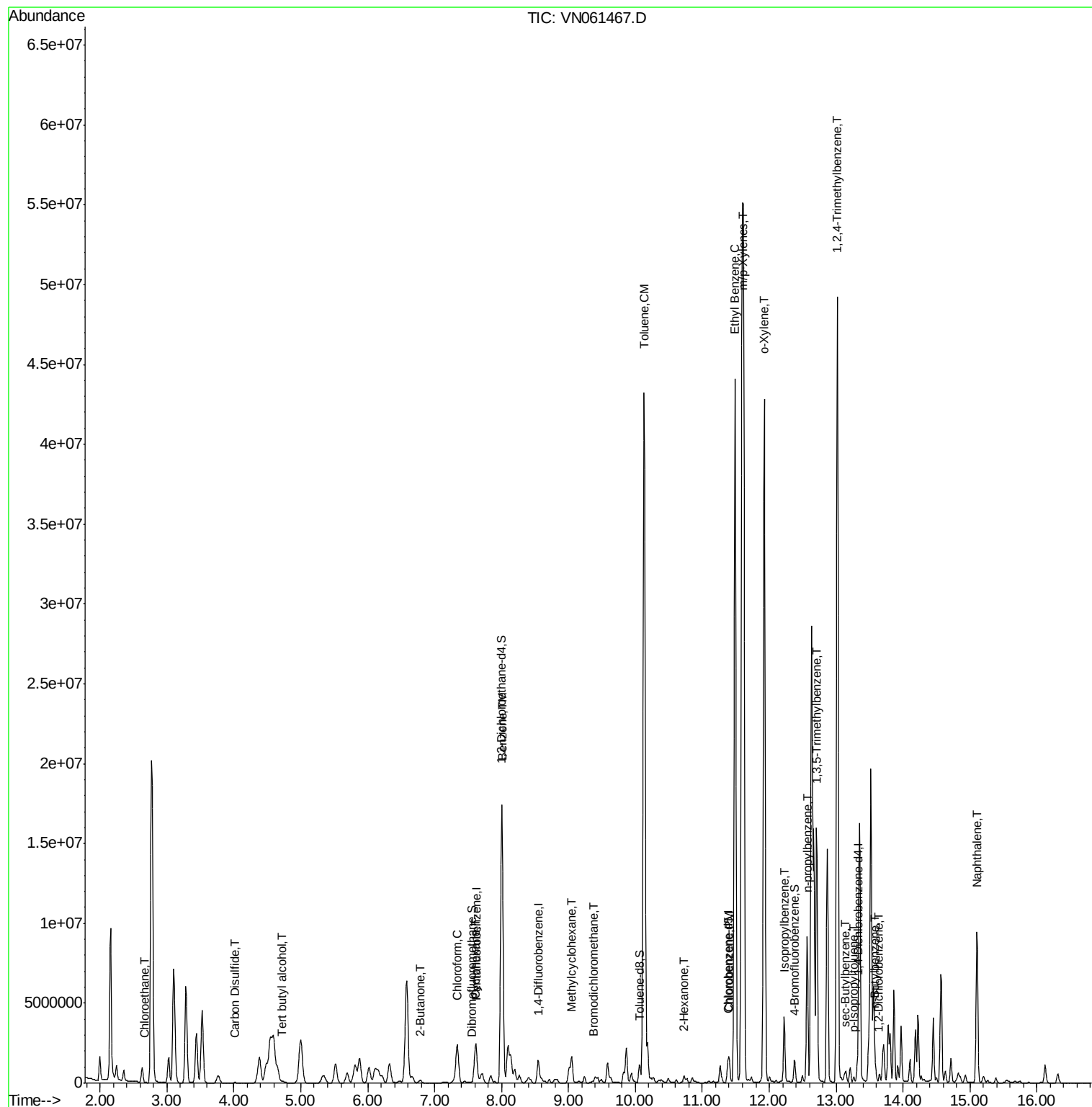
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051820\
Data File : VN061467.D
Acq On : 19 May 2020 8:06
Operator : JC/MD
Sample : L2645-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 47 Sample Multiplier: 1

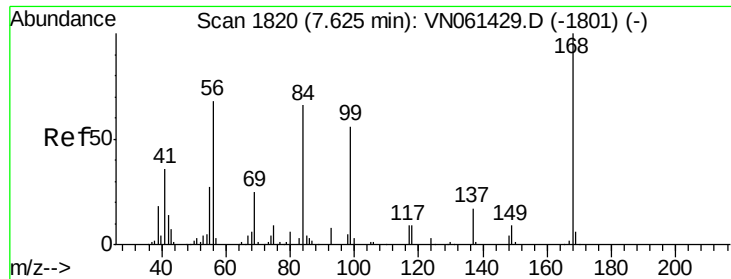
Instrument :
MSVOA_N
ClientSampleId :
MW-2

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Quant Time: May 19 15:20:52 2020
Quant Method : Z:\V0ASRV\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# 1821

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:168 Resp: 331453

Ion Ratio Lower Upper

168 100

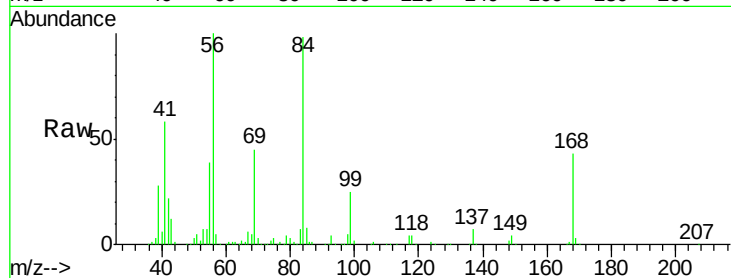
99 58.3 51.1 76.7

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

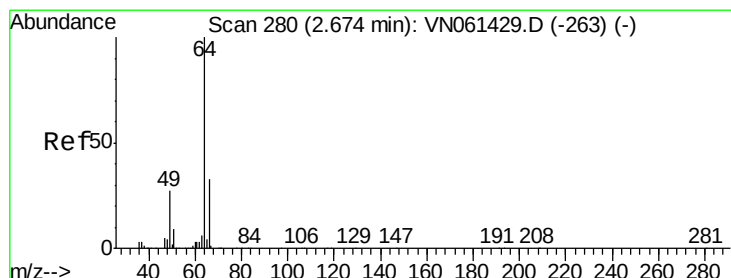
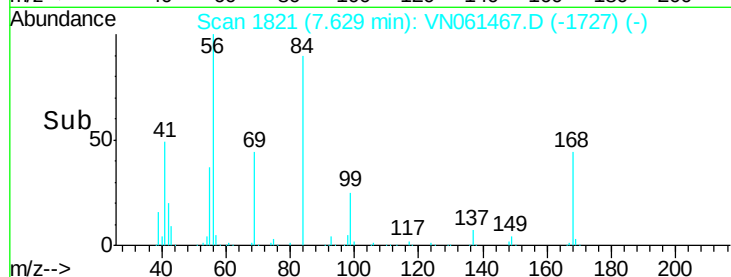
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#6

Chloroethane

Concen: 4.328 ug/l

RT: 2.67 min Scan# 280

Delta R.T. 0.00 min

Lab File: VN061467.D

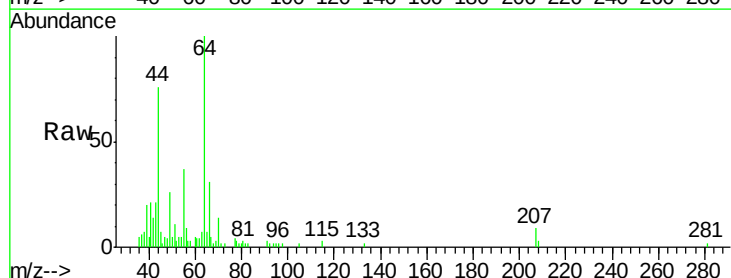
Acq: 19 May 2020 8:06

Tgt Ion: 64 Resp: 18742

Ion Ratio Lower Upper

64 100

66 30.5 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.67

10000

8000

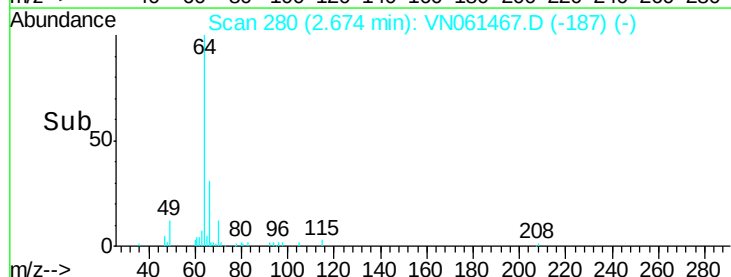
6000

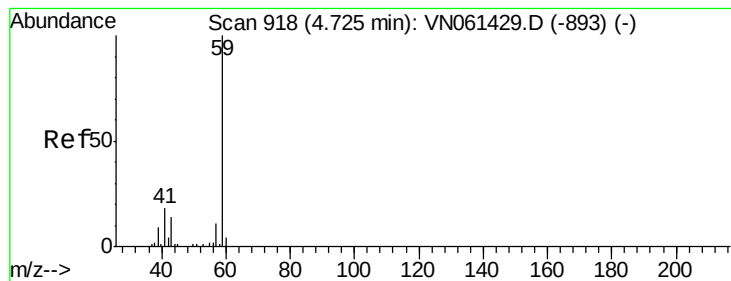
4000

2000

0

Time--> 2.60 2.70





#11

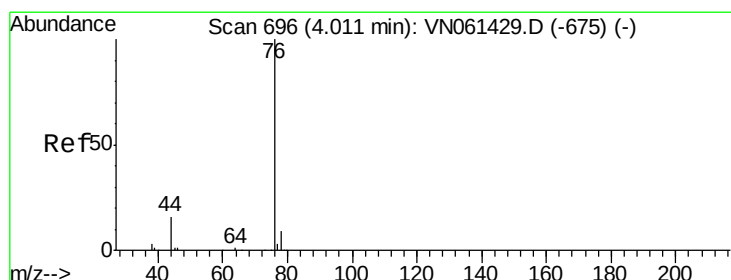
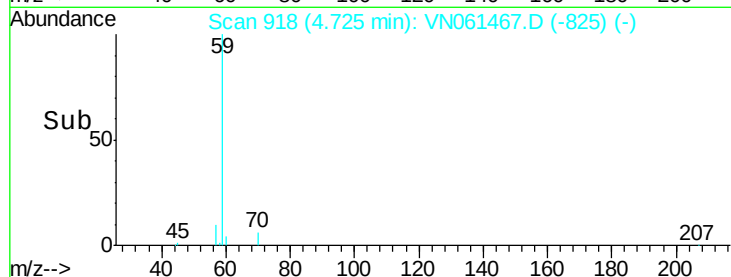
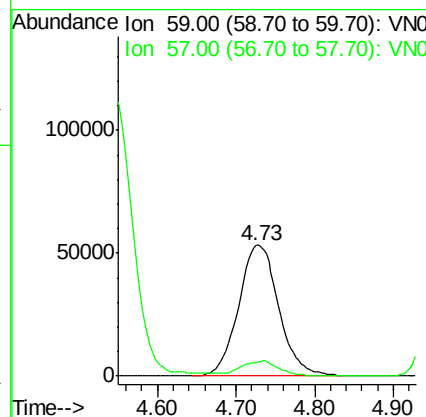
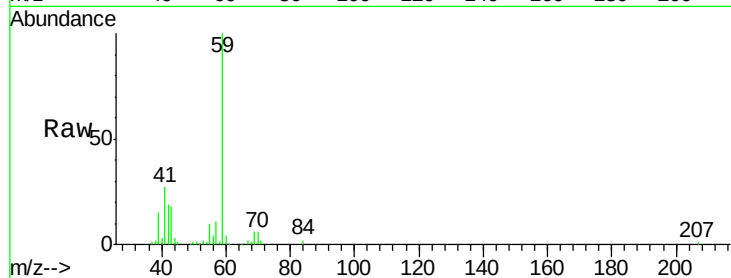
Tert butyl alcohol
Concen: 335.637 ug/l
RT: 4.73 min Scan# 918
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

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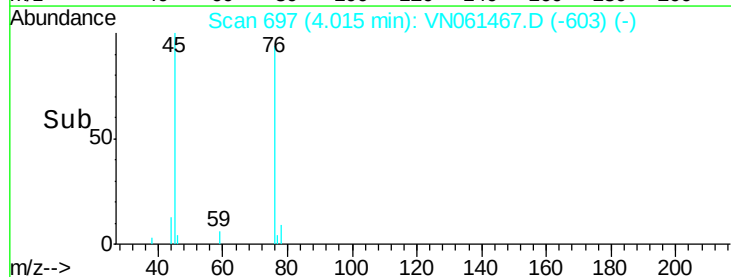
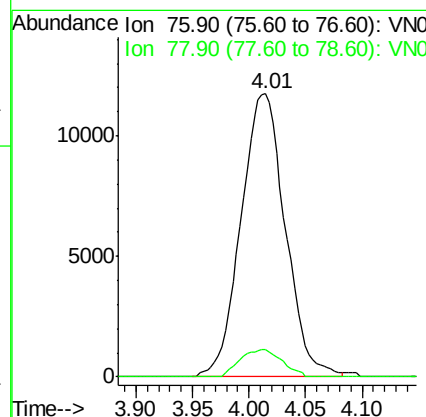
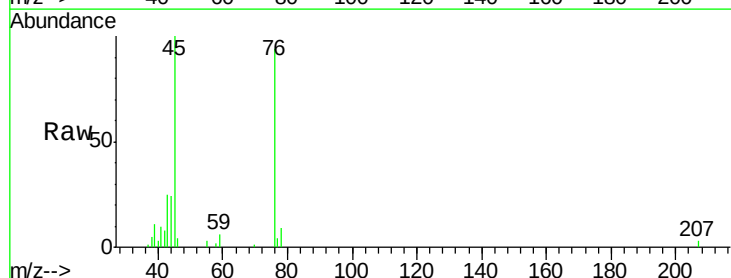
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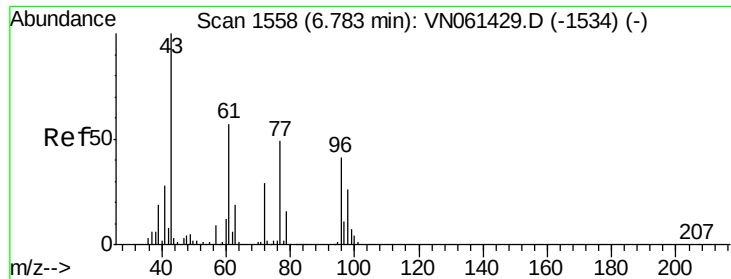


#17

Carbon Disulfide
Concen: 1.271 ug/l
RT: 4.01 min Scan# 697
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.4	11.0





#25

2-Butanone

Concen: 108.923 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tot Ion: 43 Resp: 245329

Ion Ratio Lower Upper

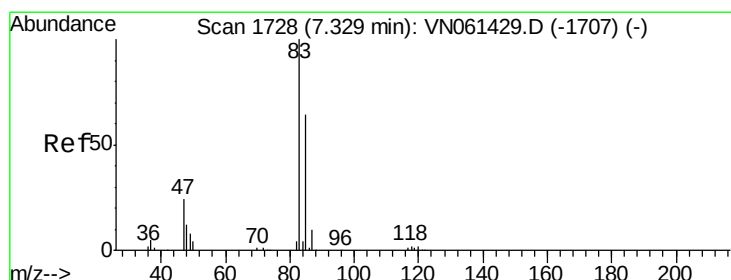
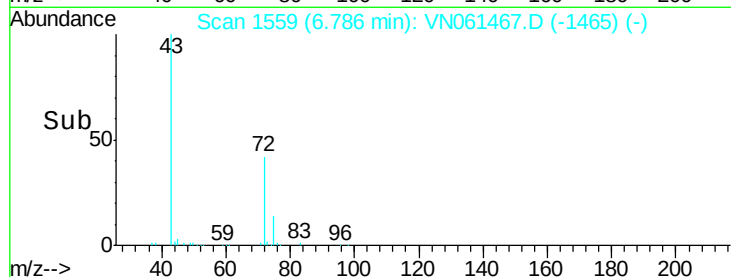
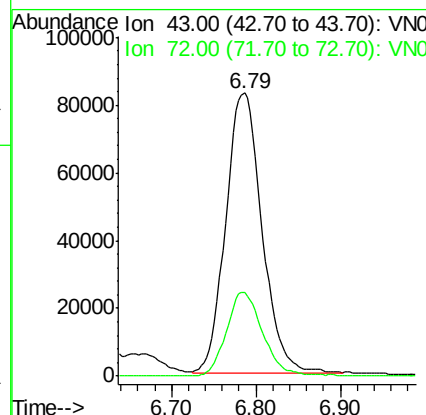
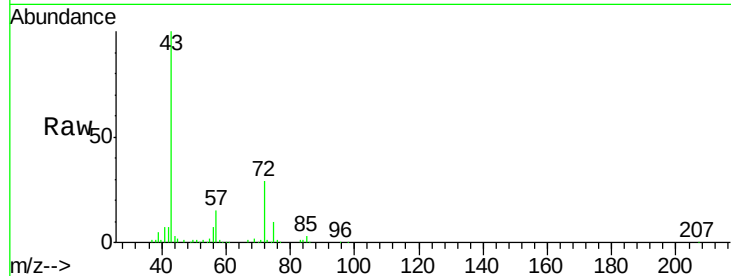
43 100

72 29.9 23.0 34.6

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#30

Chloroform

Concen: 235.251 ug/l

RT: 7.33 min Scan# 1728

Delta R.T. 0.00 min

Lab File: VN061467.D

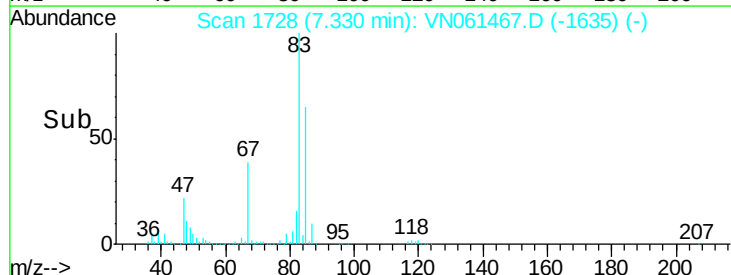
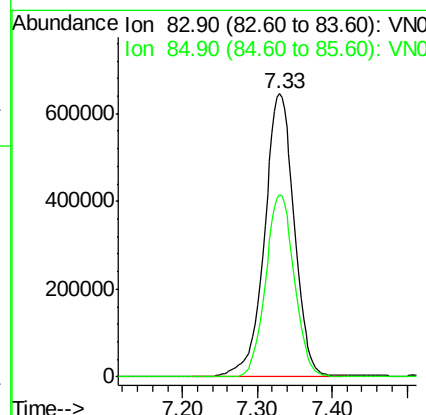
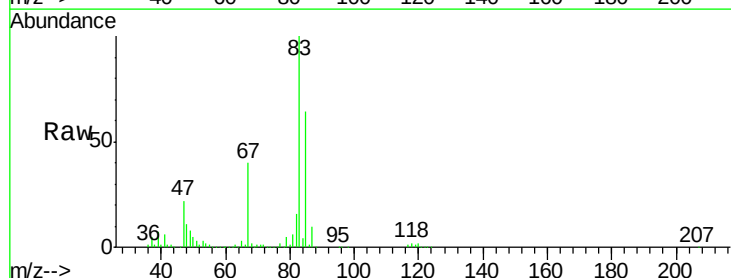
Acq: 19 May 2020 8:06

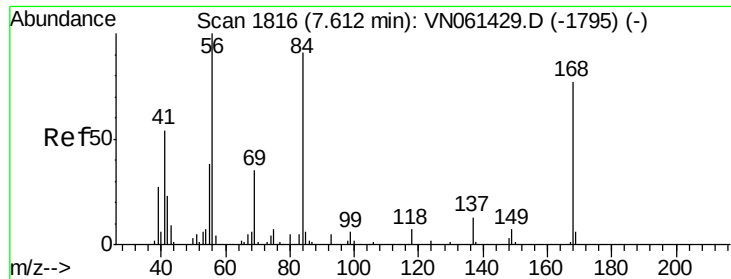
Tgt Ion: 83 Resp: 1780681

Ion Ratio Lower Upper

83 100

85 64.5 51.0 76.4





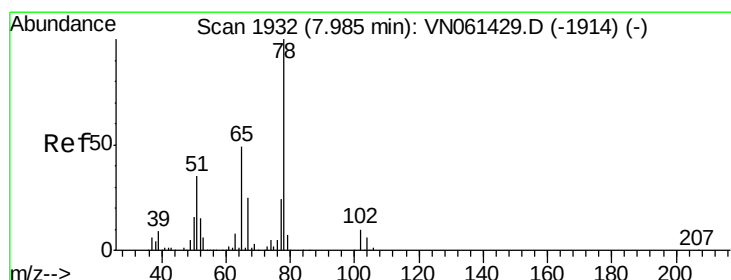
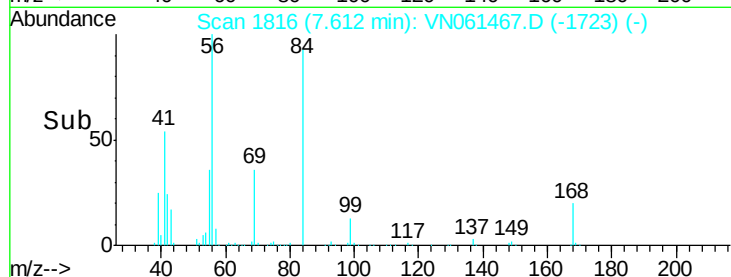
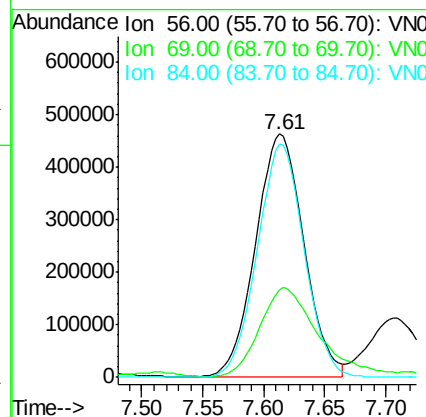
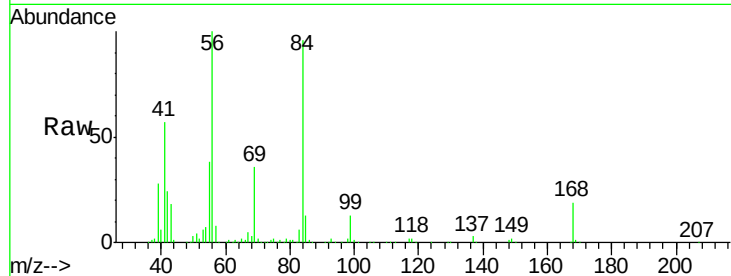
#31
Cyclohexane
Concen: 208.459 ug/l
RT: 7.61 min Scan# 1816
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.5	27.8	41.6
84	96.0	72.7	109.1

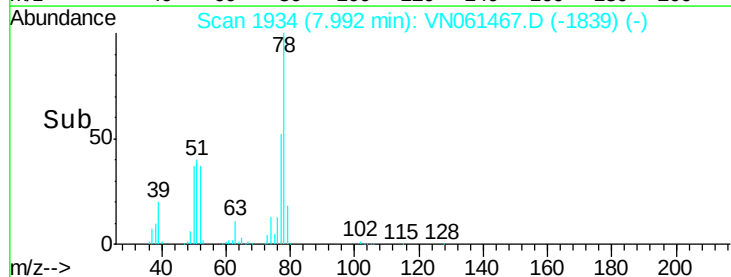
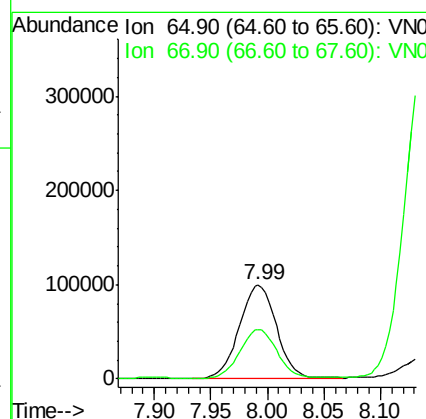
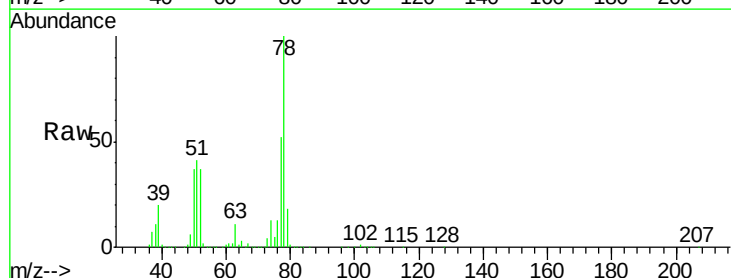
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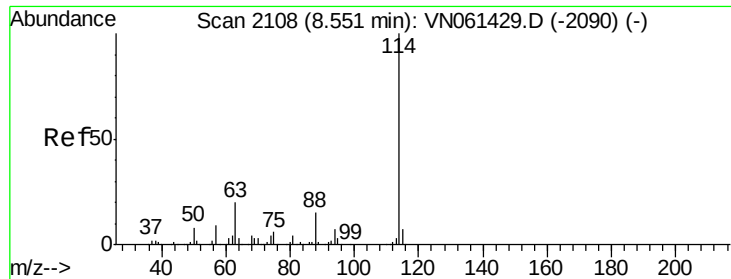
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#33
1,2-Dichloroethane-d4
Concen: 46.555 ug/l
RT: 7.99 min Scan# 1934
Delta R.T. 0.01 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	101.4





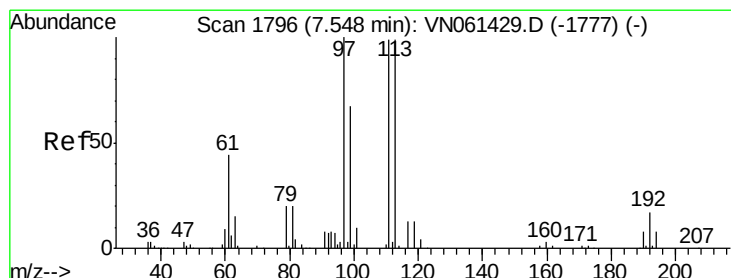
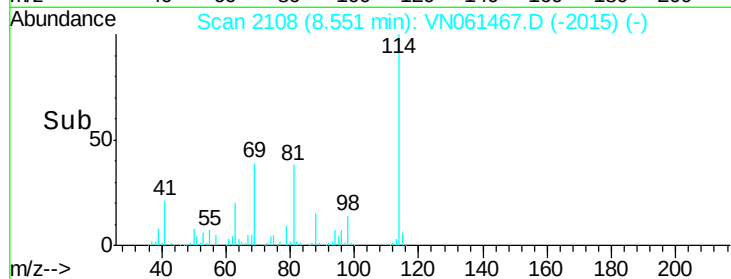
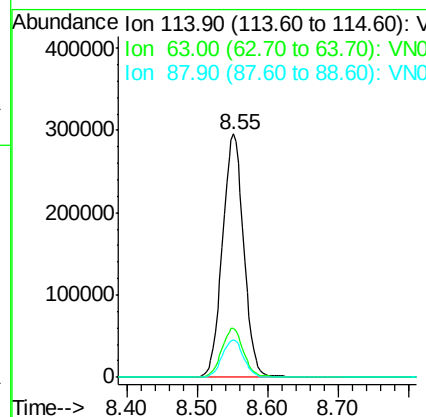
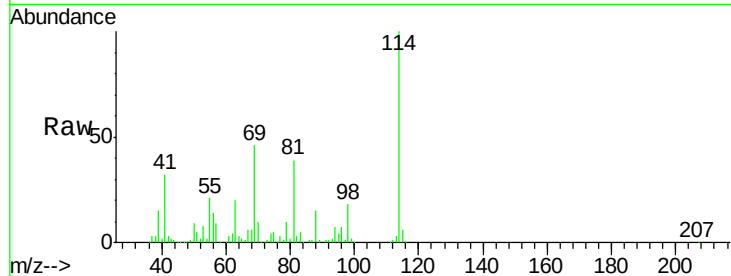
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061467.D
 Acq: 19 May 2020 8:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Tot Ion	Ratio	Resp	Lower	Upper
114	100	619821		
63	20.4	0.0	40.8	
88	15.2	0.0	30.8	

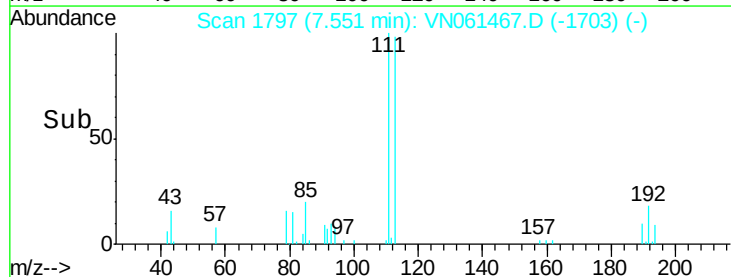
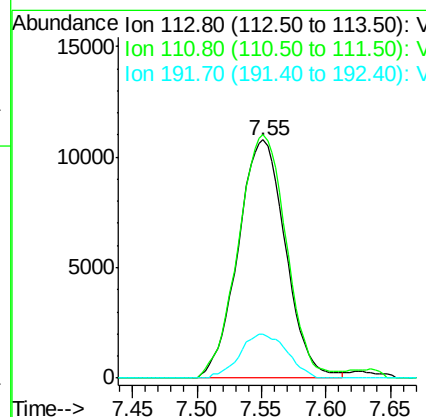
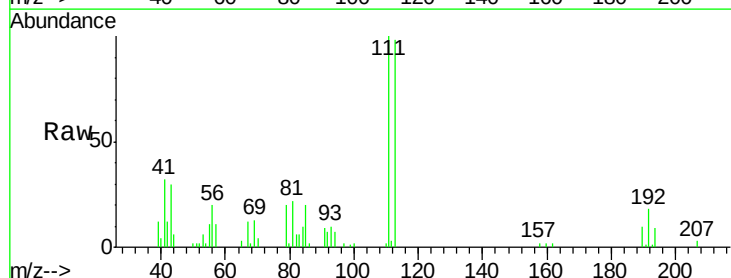
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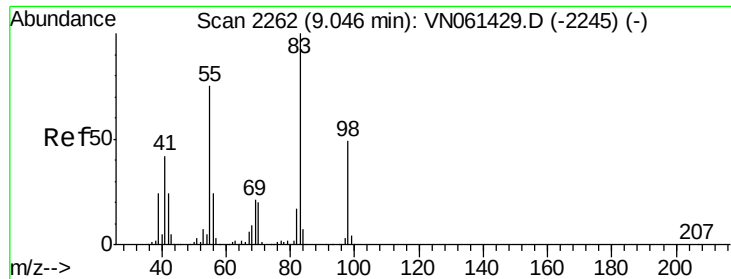
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#35
 Dibromofluoromethane
 Concen: 8.509 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061467.D
 Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	27629		
111	103.3	80.6	121.0	
192	18.4	13.2	19.8	





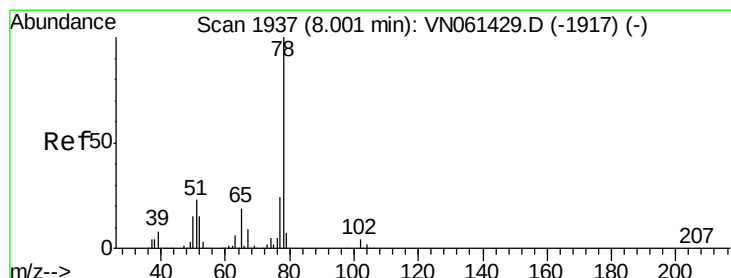
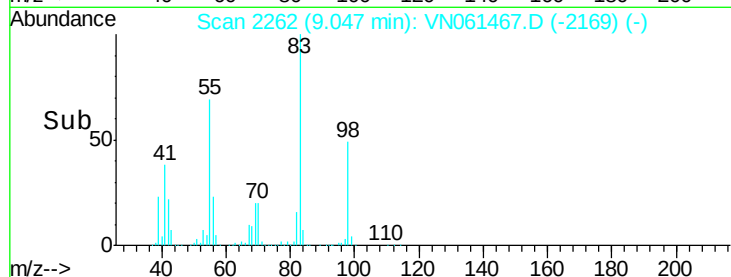
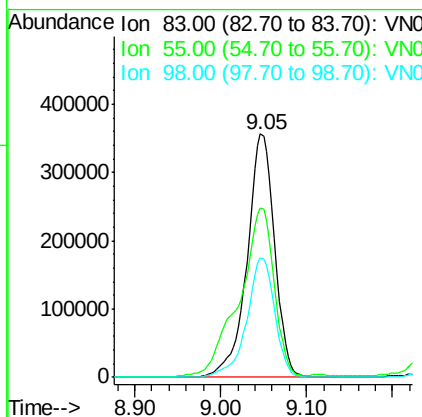
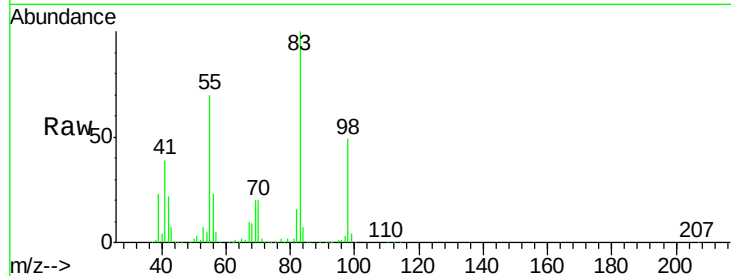
#39
Methvlcvclohexane
Concen: 111.983 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Resp	Lower	Upper
83	100	792700		
55	69.0		59.7	89.5
98	49.1		38.9	58.3

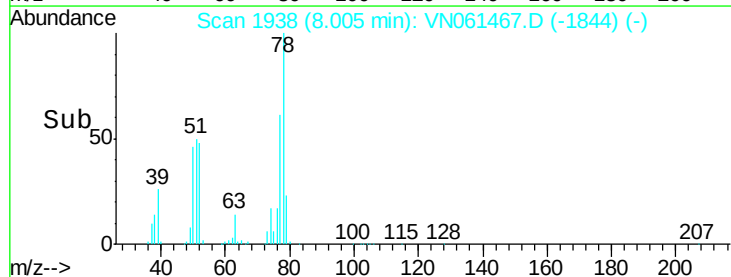
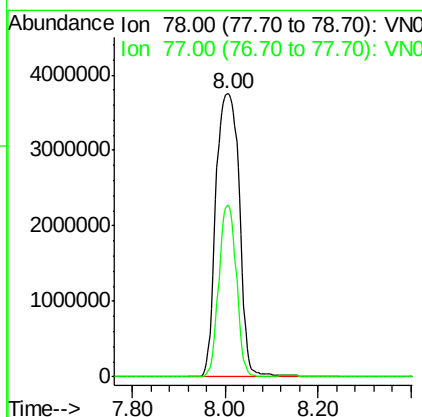
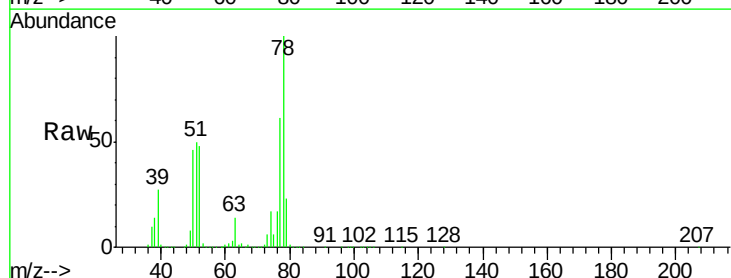
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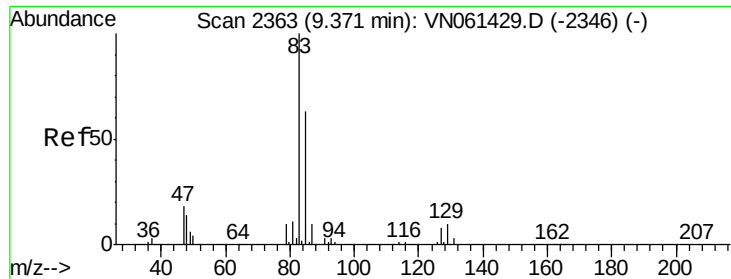
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#40
Benzene
Concen: 754.859 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	13184106		
77	60.6		19.1	28.7#





#47

Bromodichloromethane

Concen: 6.088 ug/l

RT: 9.37 min Scan# 2362

Delta R.T. -0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

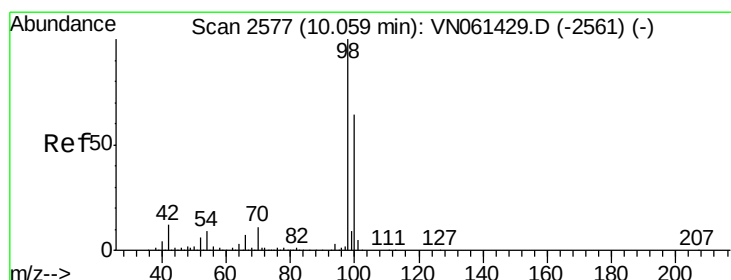
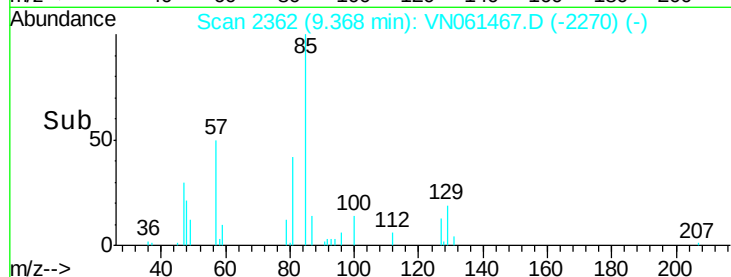
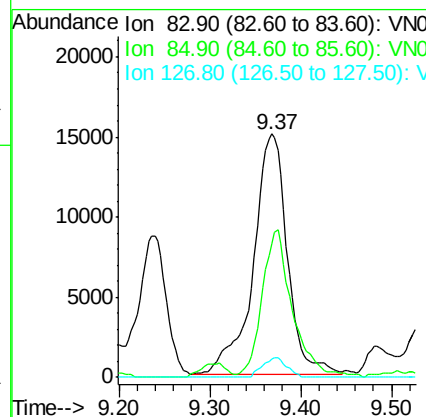
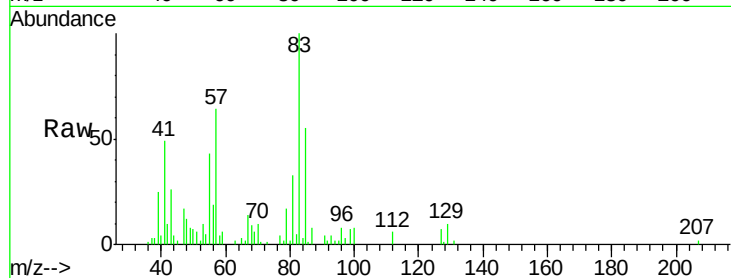
ClientSampled :

MW-2

Tot Ion:	83	Resp:	39310
Ion	Ratio	Lower	Upper
83	100		
85	53.9	50.6	76.0
127	7.4	6.1	9.1

Manual Integrations
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#50

Toluene-d8

Concen: 49.722 ug/l

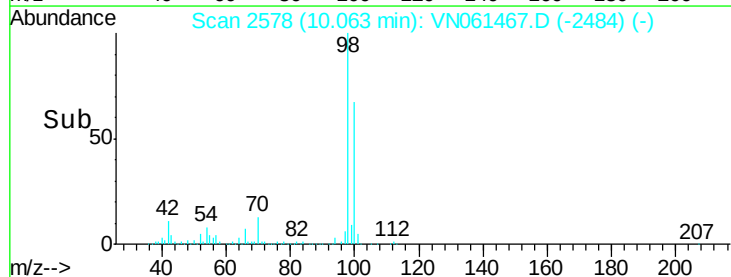
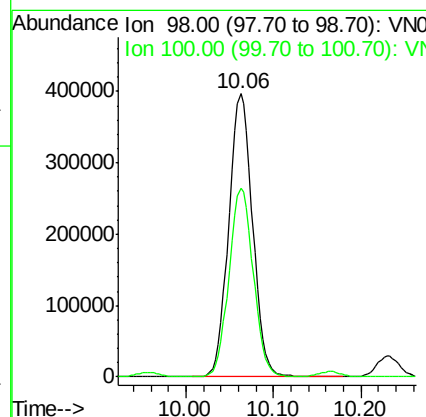
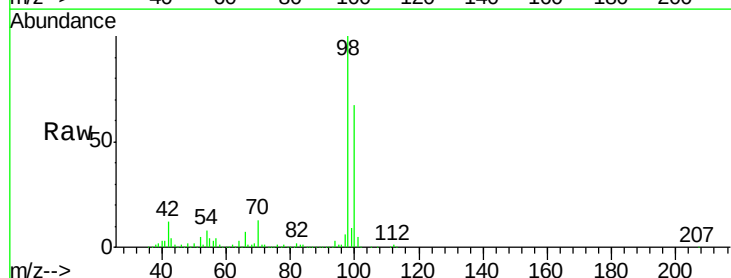
RT: 10.06 min Scan# 2578

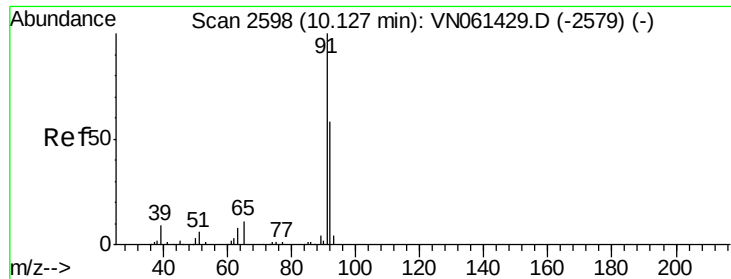
Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Tgt Ion:	98	Resp:	748852
Ion	Ratio	Lower	Upper
98	100		
100	68.3	51.8	77.8





#52

Toluene

Concen: 1204.725 ug/l

RT: 10.13 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion: 92 Resp:13508674

Ion Ratio Lower Upper

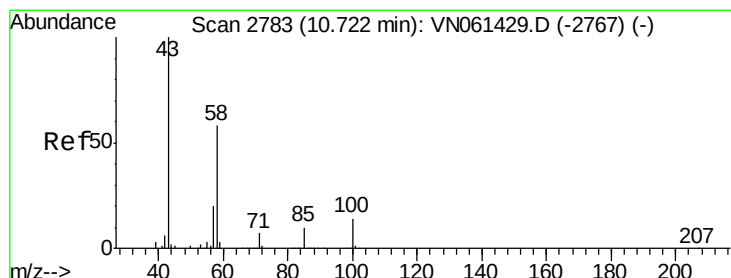
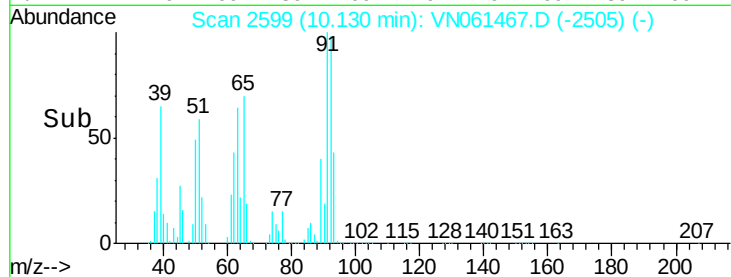
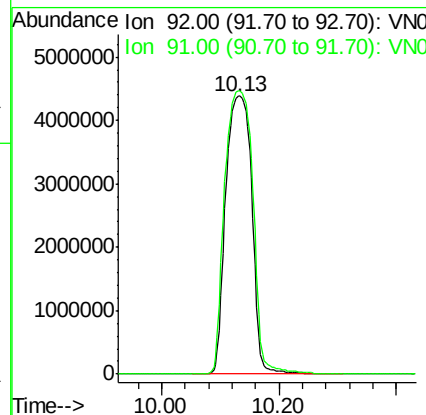
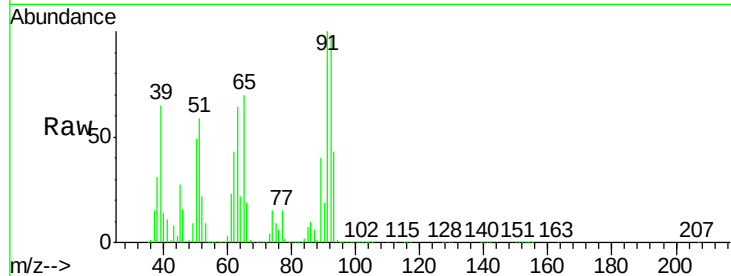
92 100

91 110.7 138.0 207.0#

Manual Integrations
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#59

2-Hexanone

Concen: 54.017 ug/l

RT: 10.72 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VN061467.D

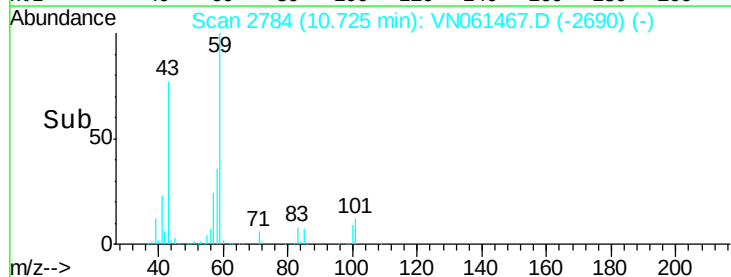
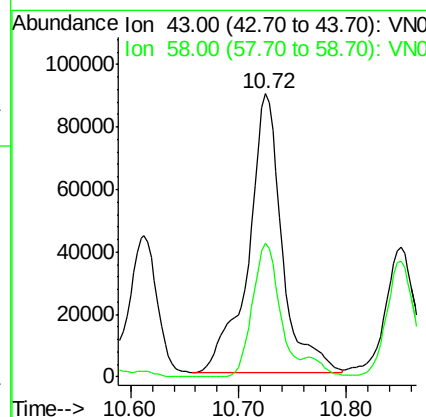
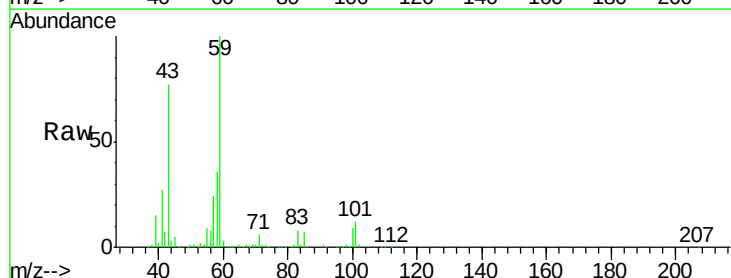
Acq: 19 May 2020 8:06

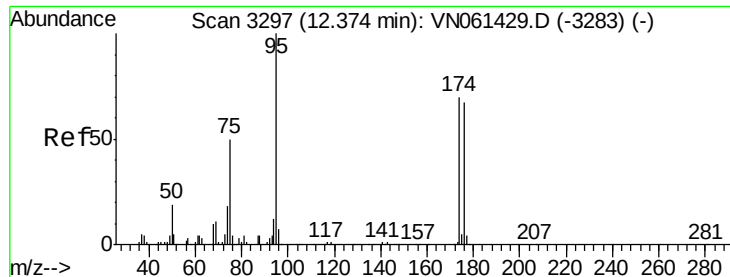
Tgt Ion: 43 Resp: 195160

Ion Ratio Lower Upper

43 100

58 38.4 29.2 87.6





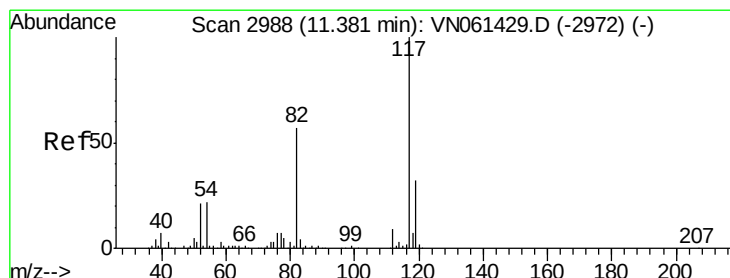
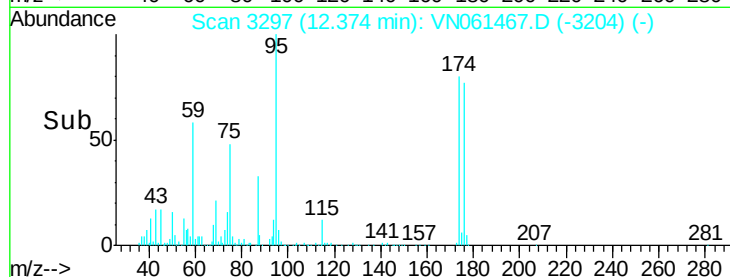
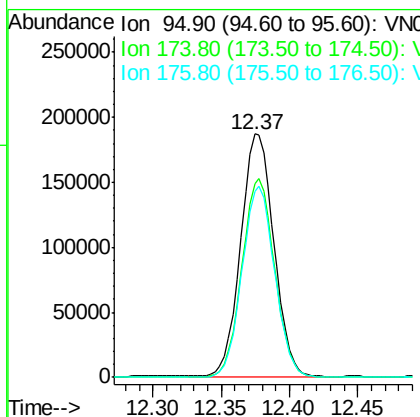
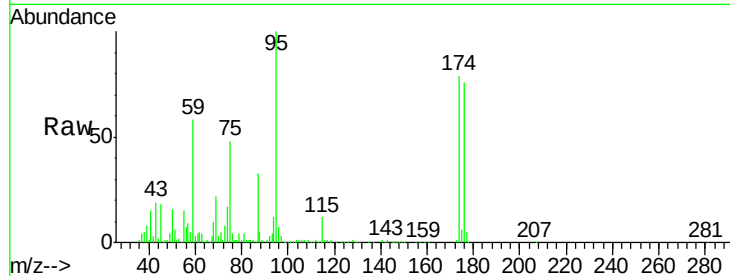
#62
4-Bromofluorobenzene
Concen: 55.806 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Resp	Lower	Upper
95	100	314008		
174	81.0	0.0	141.2	
176	77.9	0.0	137.6	

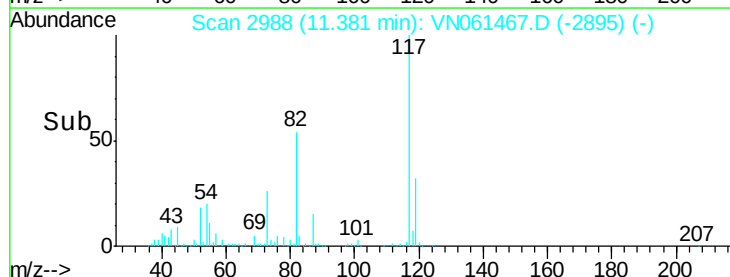
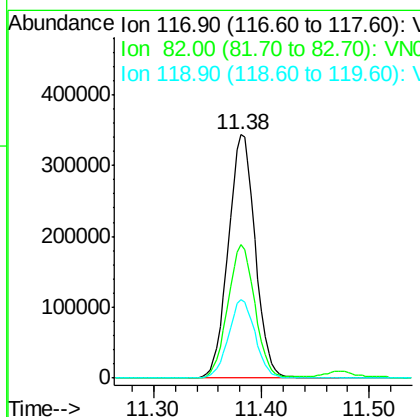
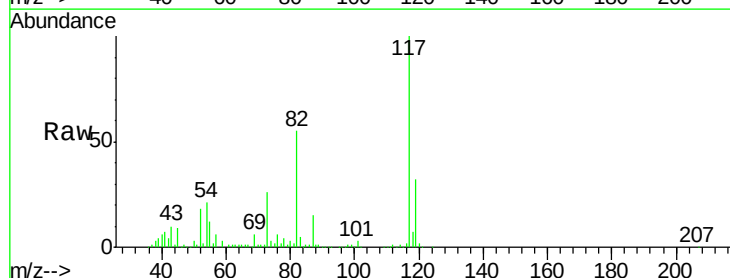
Manual Integrations
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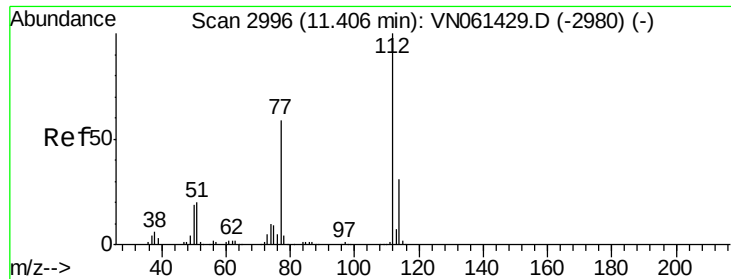
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	598279		
82	54.5	45.2	67.8	
119	32.2	25.3	37.9	





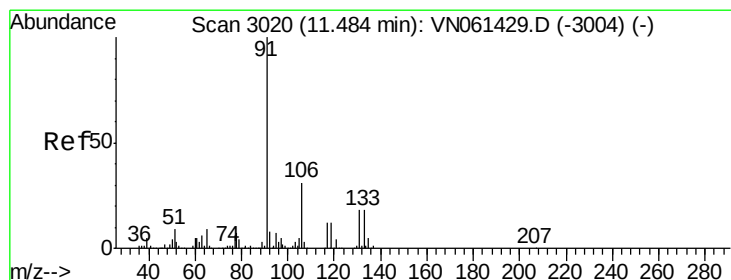
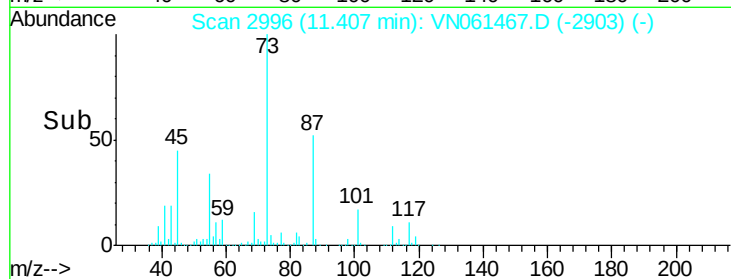
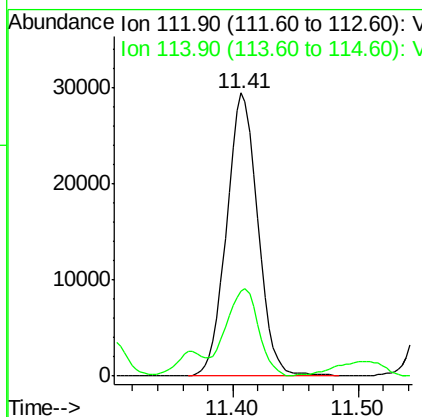
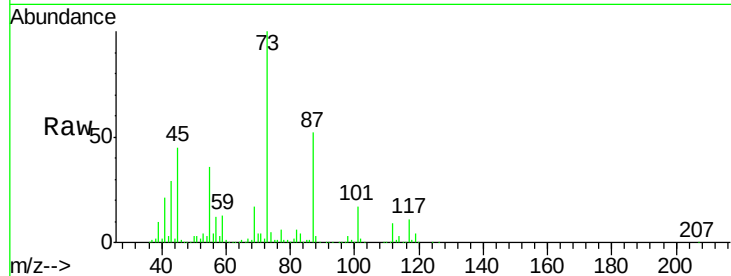
#65
Chlorobenzene
Concen: 4.166 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
112	100		
114	26.6	25.0	37.6

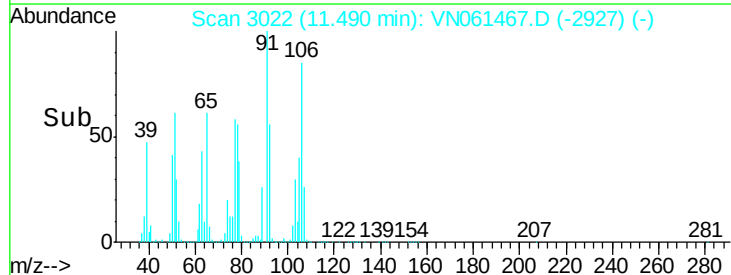
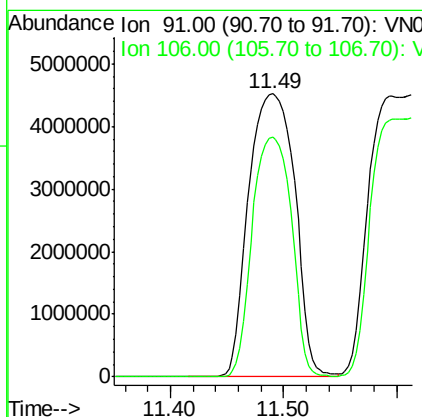
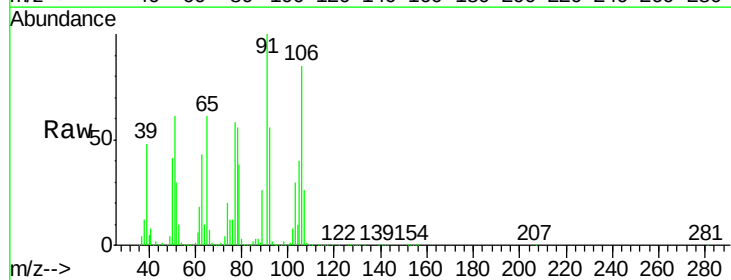
Manual Integrations
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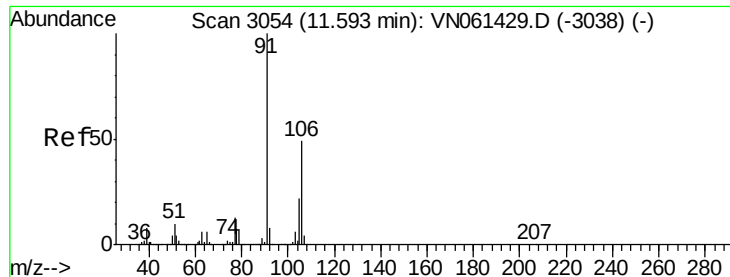
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#67
Ethyl Benzene
Concen: 577.065 ug/l
RT: 11.49 min Scan# 3022
Delta R.T. 0.01 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Lower	Upper
91	100		
106	84.7	24.6	36.8#





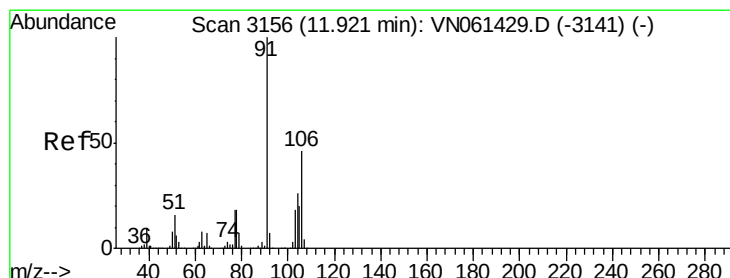
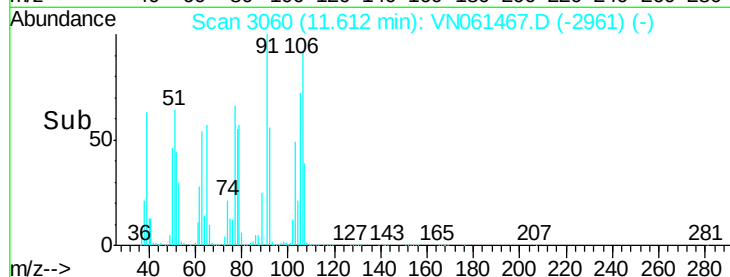
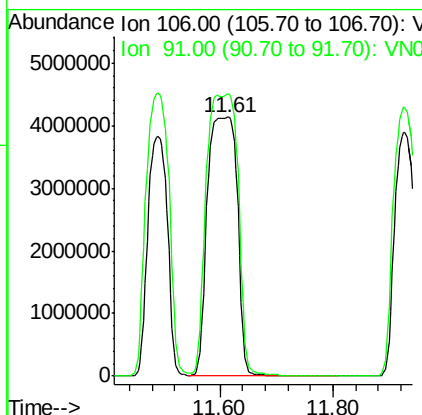
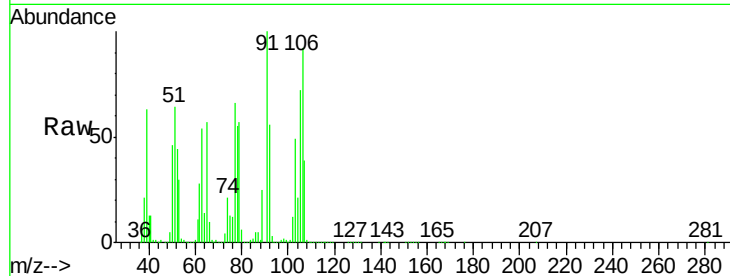
#68
m/p-Xylenes
Concen: 1776.361 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. 0.02 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:106 Resp:15015920
Ion Ratio Lower Upper
106 100
91 57.4 163.0 244.6#

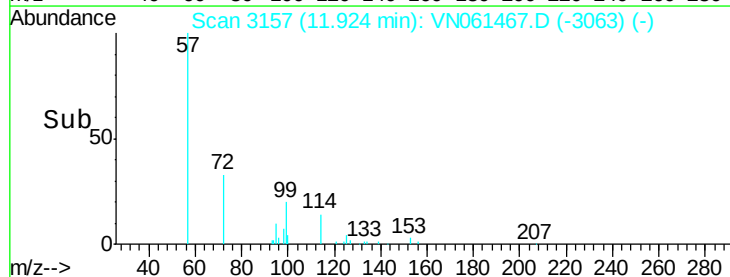
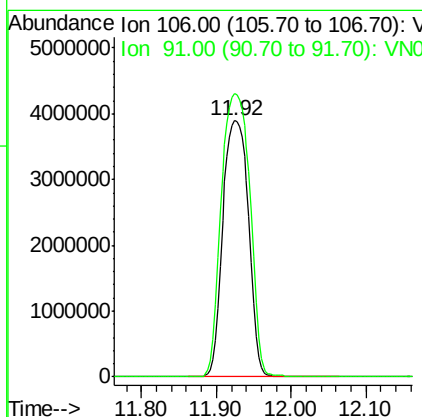
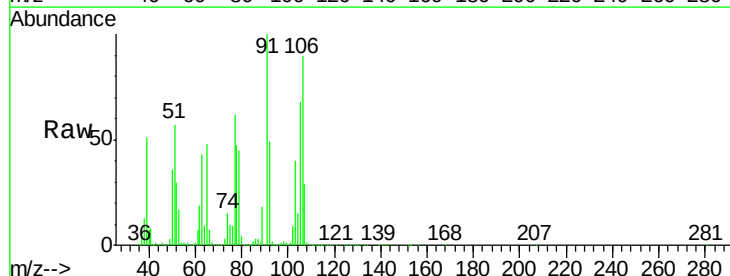
Manual Integrations
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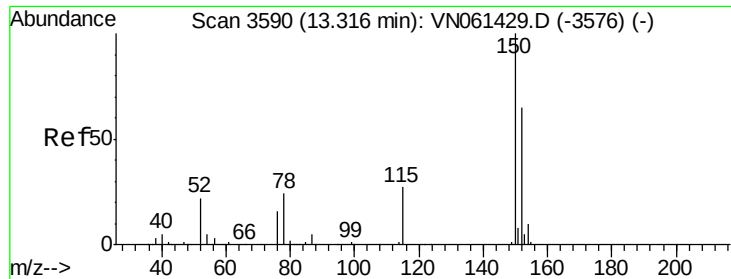
MMDadoda
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#69
o-Xylene
Concen: 1132.516 ug/l
RT: 11.92 min Scan# 3157
Delta R.T. 0.00 min
Lab File: VN061467.D
Acq: 19 May 2020 8:06

Tgt Ion:106 Resp: 9264301
Ion Ratio Lower Upper
106 100
91 123.9 107.9 323.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:152 Resp: 340668

Ion Ratio Lower Upper

152 100

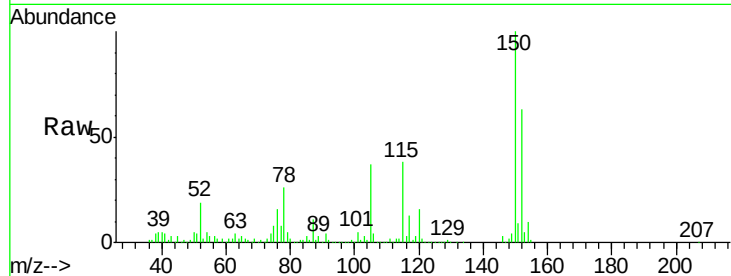
115 46.3 30.9 92.5

150 158.0 0.0 349.2

Manual Integrations
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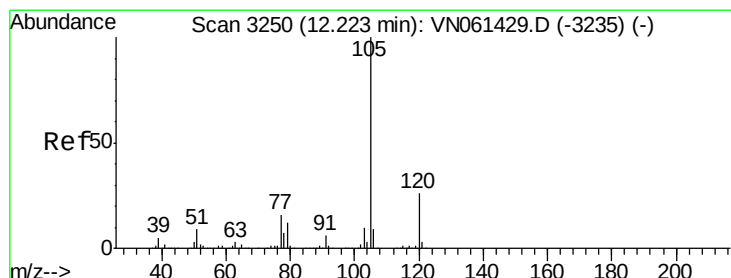
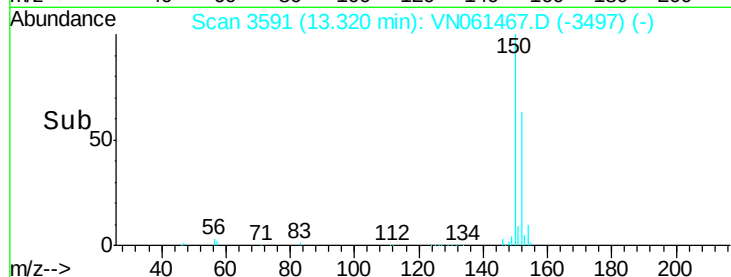
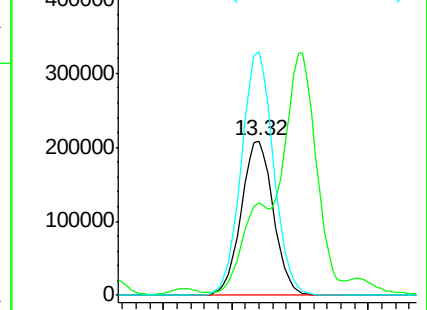
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 101.892 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN061467.D

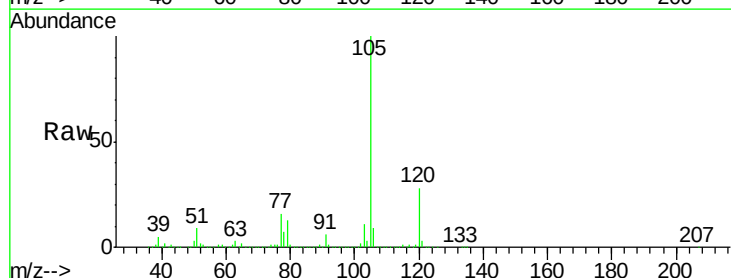
Acq: 19 May 2020 8:06

Tgt Ion:105 Resp: 2786595

Ion Ratio Lower Upper

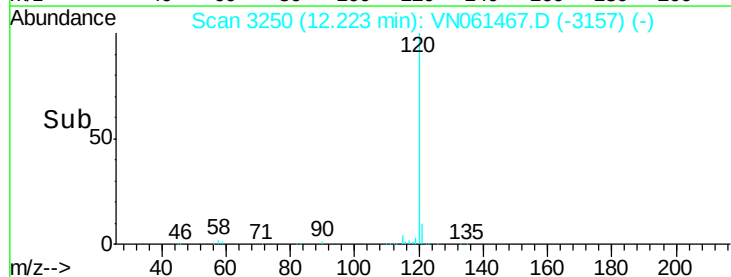
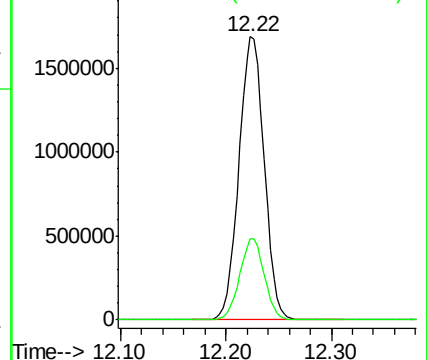
105 100

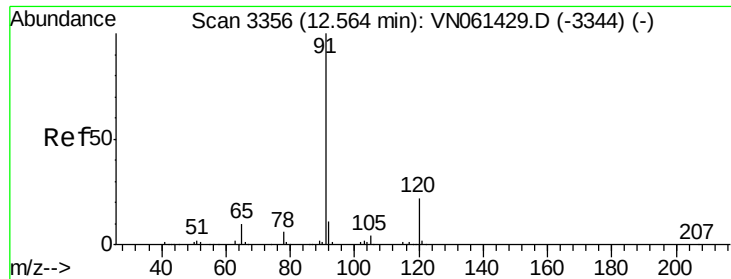
120 27.8 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 204.698 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion: 91 Resp: 6378590

Ion Ratio Lower Upper

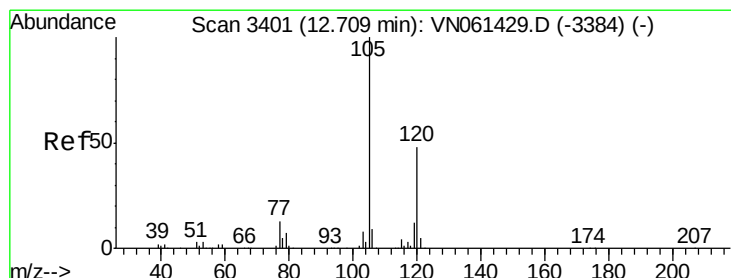
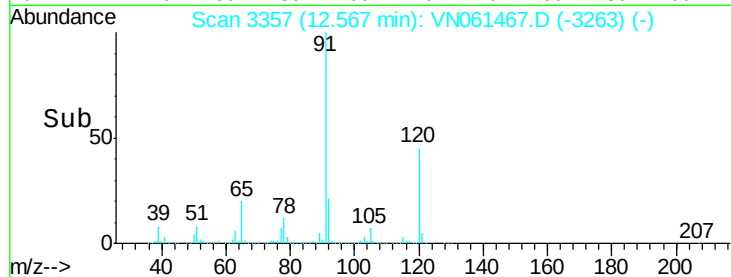
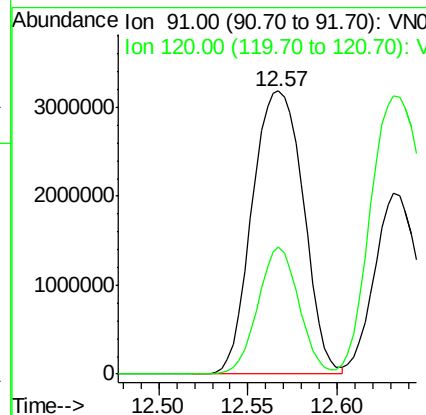
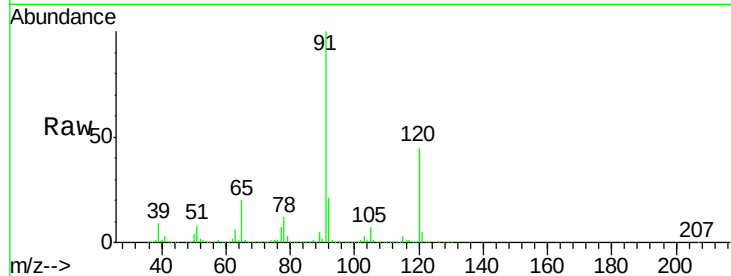
91 100

120 35.9 11.2 33.6#

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 291.406 ug/l m

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061467.D

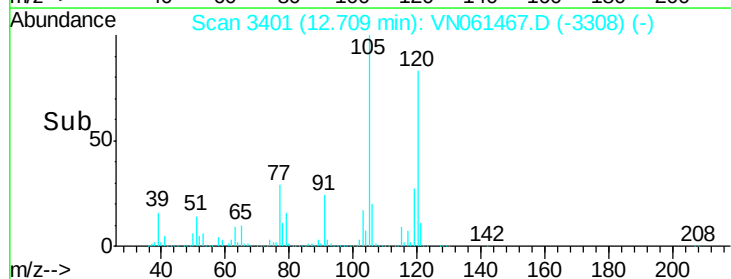
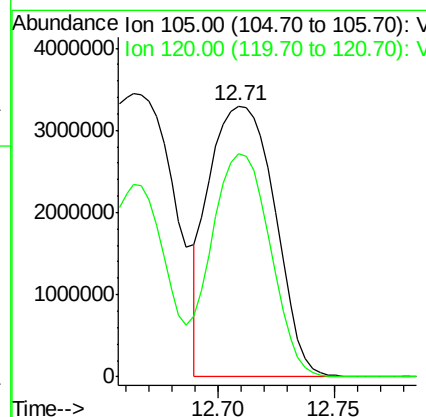
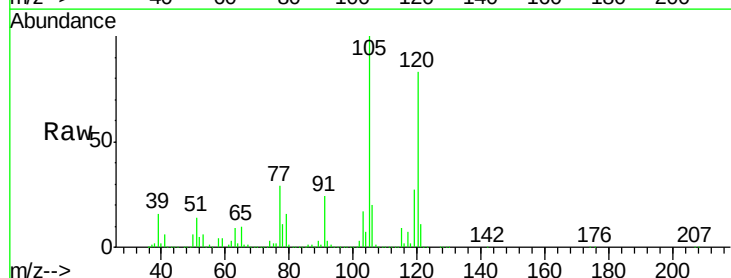
Acq: 19 May 2020 8:06

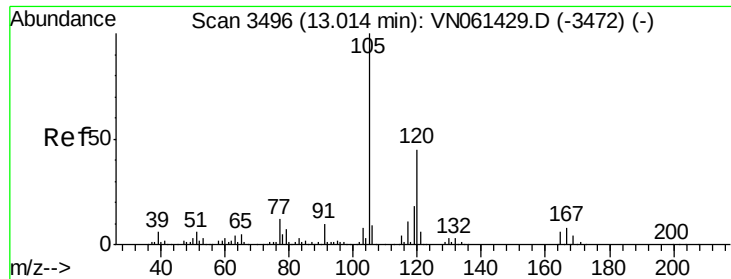
Tgt Ion: 105 Resp: 6525431

Ion Ratio Lower Upper

105 100

120 97.0 24.1 72.4#





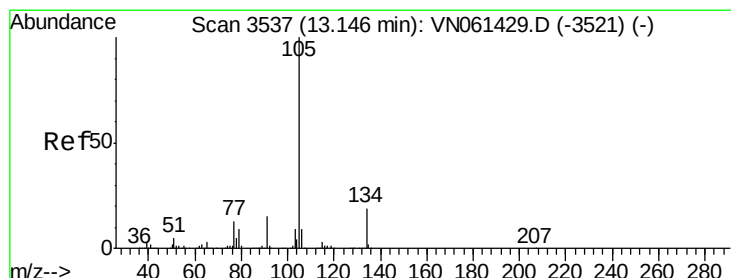
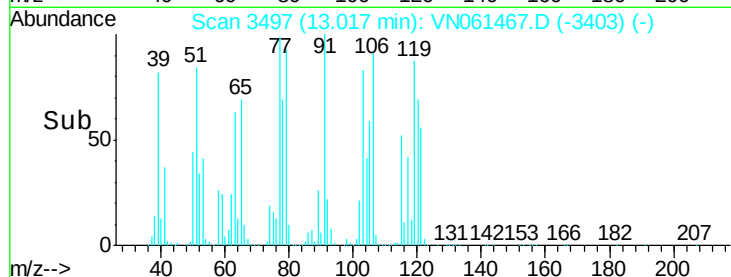
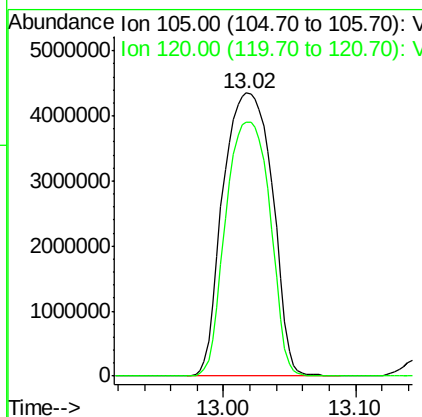
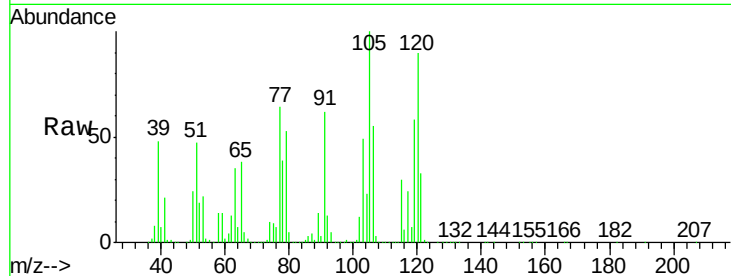
#84
 1,2,4-Trimethylbenzene
 Concen: 503.547 ug/l m
 RT: 13.02 min Scan# 3497
 Delta R.T. 0.00 min
 Lab File: VN061467.D
 Acq: 19 May 2020 8:06

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tot Ion:105 Resp:11284715
 Ion Ratio Lower Upper
 105 100
 120 32.9 22.4 67.3

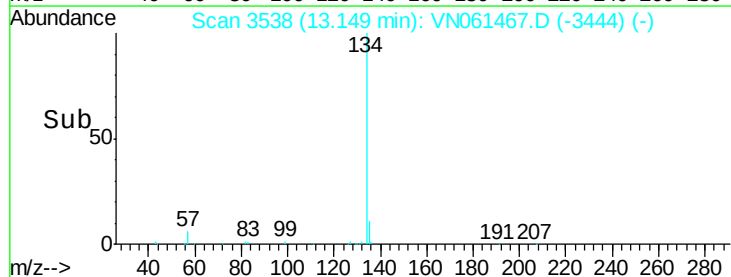
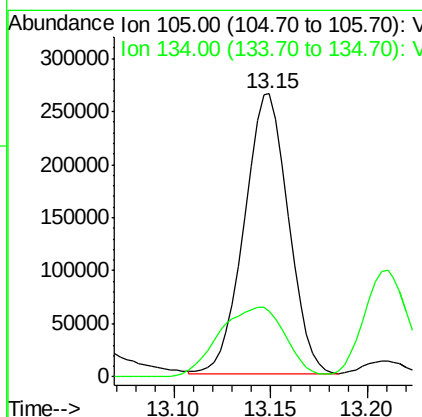
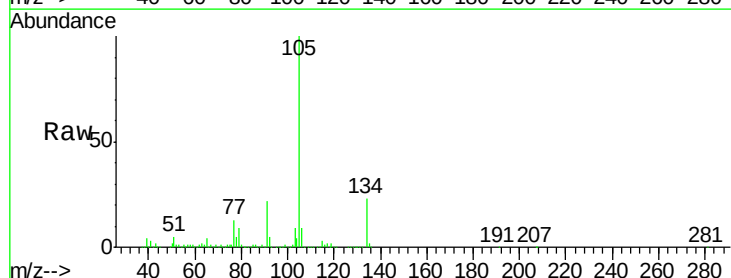
Manual Integrations
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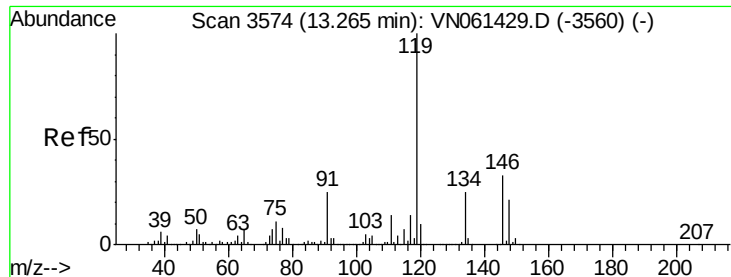
MMDadoda
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#85
 sec-Butylbenzene
 Concen: 16.173 ug/l
 RT: 13.15 min Scan# 3538
 Delta R.T. 0.00 min
 Lab File: VN061467.D
 Acq: 19 May 2020 8:06

Tgt Ion:105 Resp: 419480
 Ion Ratio Lower Upper
 105 100
 134 37.3 9.8 29.5#





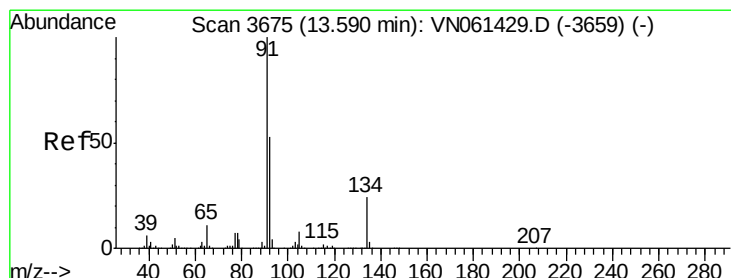
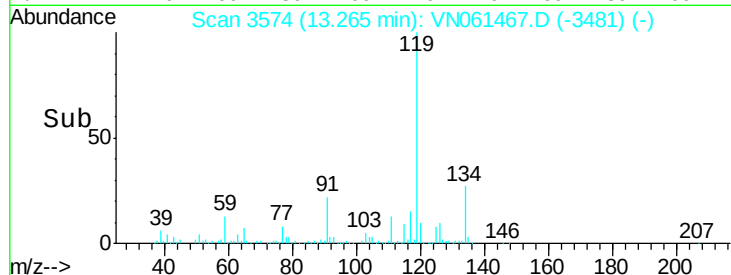
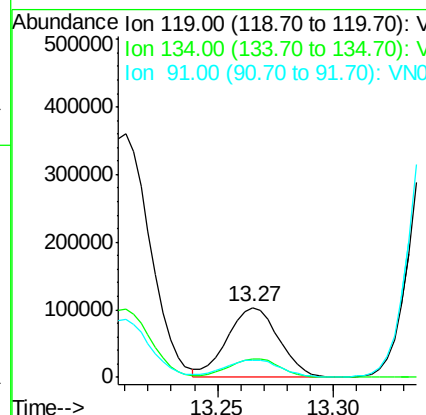
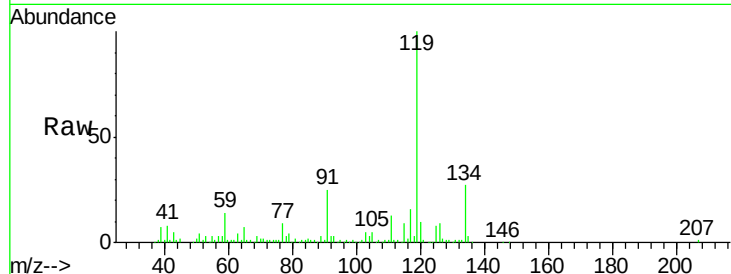
#86
 p-Isopropyltoluene
 Concen: 6.852 ug/l
 RT: 13.27 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN061467.D
 Acq: 19 May 2020 8:06

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.1	12.7	38.1
91	0.0	12.6	37.6#

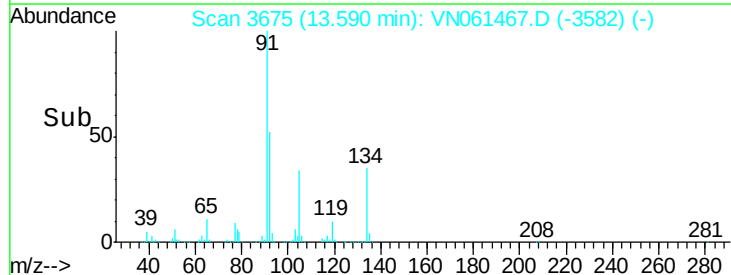
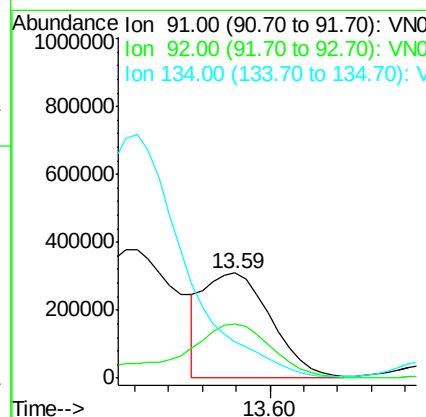
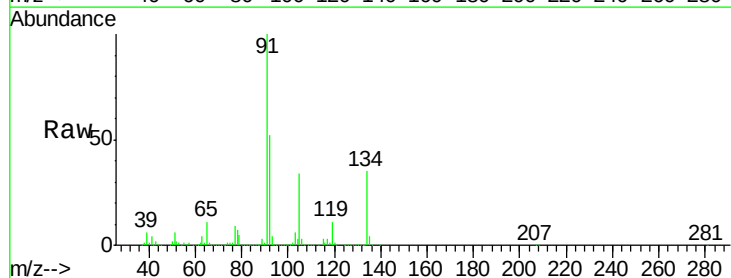
Manual Integrations
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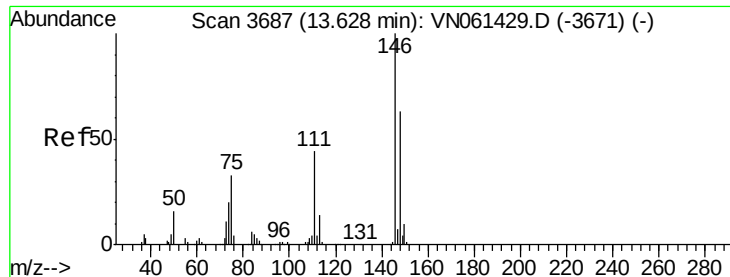
MMDadoda
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#89
 n-Butylbenzene
 Concen: 20.499 ug/l m
 RT: 13.59 min Scan# 3675
 Delta R.T. 0.00 min
 Lab File: VN061467.D
 Acq: 19 May 2020 8:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.8	80.3#
134	313.2	12.4	37.4#





#91

1,2-Dichlorobenzene

Concen: 3.044 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Instrument :

MSVOA_N

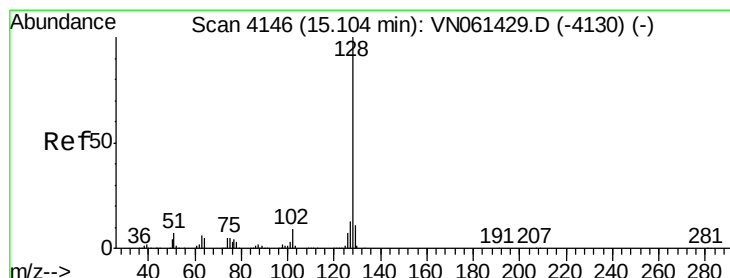
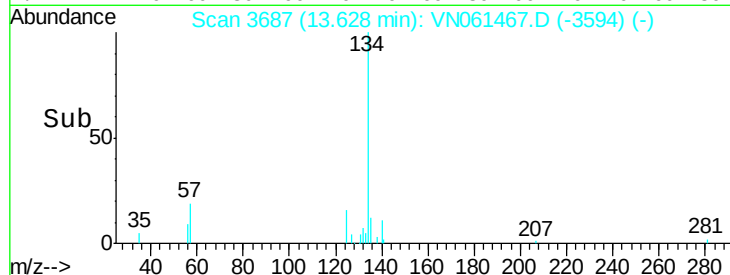
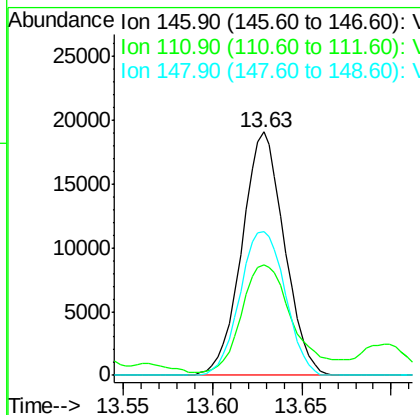
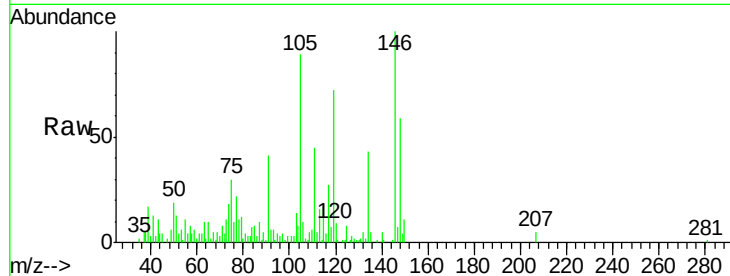
ClientSampled :

MW-2

Tot Ion:	146	Resp:	31720
Ion Ratio	Lower	Upper	
146	100		
111	53.4	21.9	65.7
148	62.9	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
5/19/2020 4:23:59 PM



#95

Naphthalene

Concen: 393.744 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN061467.D

Acq: 19 May 2020 8:06

Tgt Ion:	128	Resp:	7072089
Ion Ratio	Lower	Upper	
128	100		
127	19.1	10.1	15.1#
129	16.7	8.6	13.0#

