

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082520\
 Data File : VN063119.D
 Acq On : 25 Aug 2020 18:15
 Operator : JC/MD
 Sample : L3792-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40617

Manual Integrations
 APPROVED

MMDadoda
 8/26/2020 11:26:56 AM

Quant Time: Aug 26 06:56:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	166330	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	279649	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	282376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	137588	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	101440	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
35) Dibromofluoromethane	7.55	113	54974	30.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.34%	
50) Toluene-d8	10.06	98	351776	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.38	95	137220	55.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.12%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.75	59	17841	63.894	ug/l #	74
16) Acetone	3.80	43	1183491	1951.915	ug/l	98
18) Methyl Acetate	4.29	43	84535	43.151	ug/l	100
19) Methyl tert-butyl Ether	5.00	73	170969	34.723	ug/l	99
22) Diisopropyl ether	5.91	45	98913	17.510	ug/l	96
25) 2-Butanone	6.79	43	205023	195.898	ug/l	98
29) Tetrahydrofuran	7.17	42	2959	4.381	ug/l #	64
37) Ethyl Acetate	6.89	43	2774008	1201.297	ug/l	98
39) Methylcyclohexane	9.05	83	738	1.777	ug/l	91
40) Benzene	8.00	78	6246335	799.148	ug/l #	90
51) 4-Methyl-2-Pentanone	9.96	43	10699	4.425	ug/l #	70
52) Toluene	10.13	92	5726719	1214.558	ug/l #	70
59) 2-Hexanone	10.72	43	10090	5.982	ug/l	83
67) Ethyl Benzene	11.49	91	674340	70.371	ug/l	100
68) m/p-Xylenes	11.59	106	956268	268.498	ug/l	100
69) o-Xylene	11.92	106	538540	157.465	ug/l	98
73) Isopropylbenzene	12.23	105	18872	2.003	ug/l	98
78) n-propylbenzene	12.57	91	48713	4.536	ug/l	98
80) 1,3,5-Trimethylbenzene	12.71	105	90703	11.645	ug/l	99
84) 1,2,4-Trimethylbenzene	13.02	105	529077	69.727	ug/l	100
86) p-Isopropyltoluene	13.26	119	2132	0.269	ug/l #	74
89) n-Butylbenzene	13.59	91	4462m	3.332	ug/l	
95) Naphthalene	15.10	128	724905	122.790	ug/l	99

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

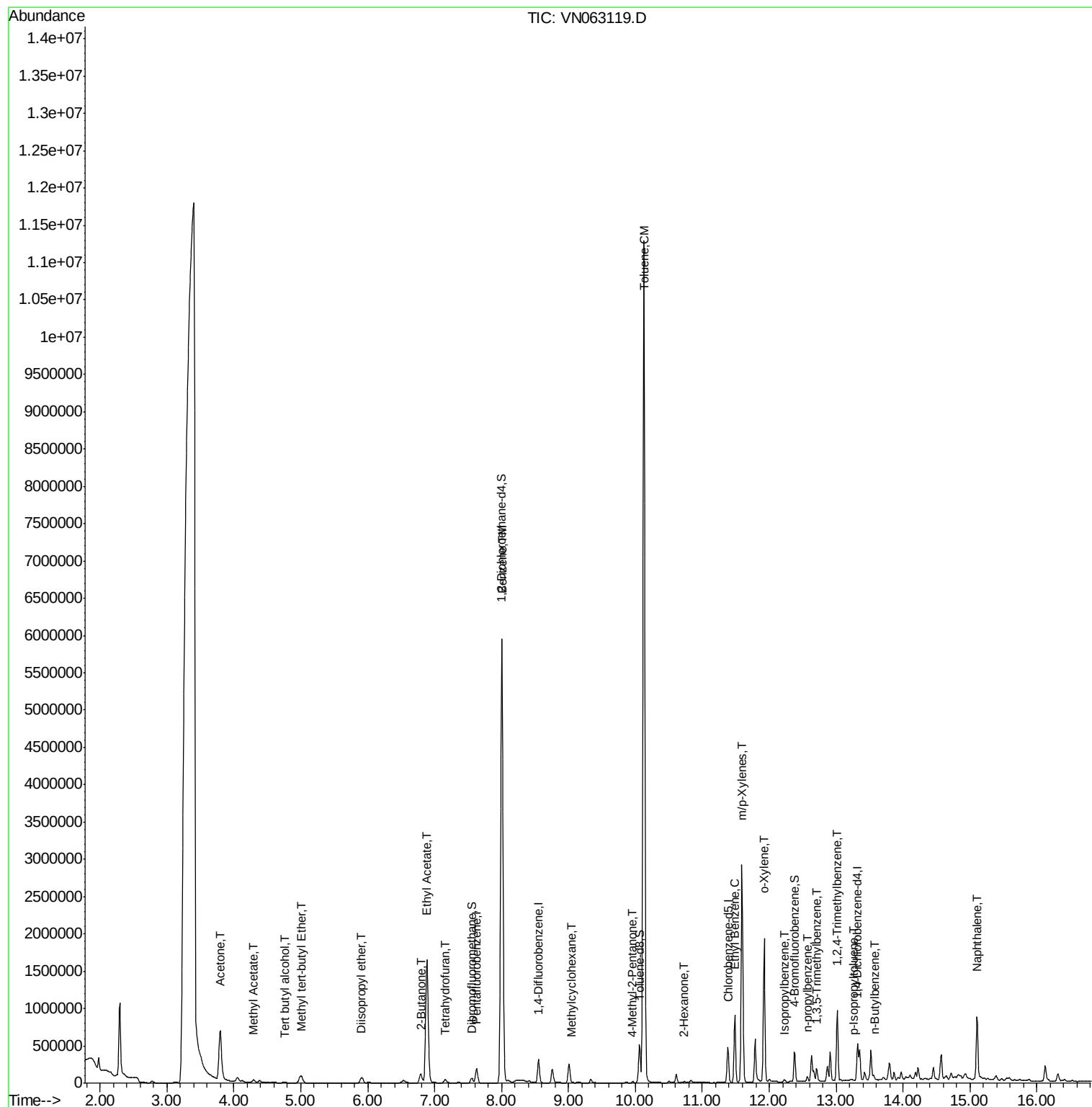
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082520\
Data File : VN063119.D
Acq On : 25 Aug 2020 18:15
Operator : JC/MD
Sample : L3792-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 19 Sample Multiplier: 1

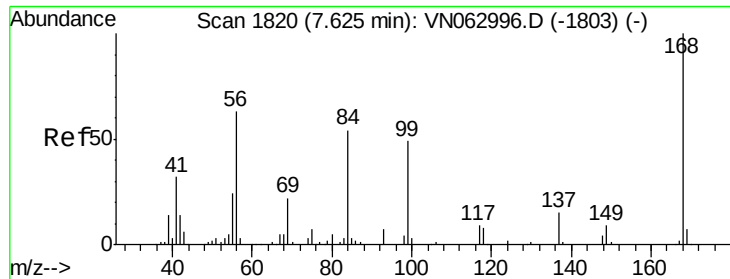
Instrument :
MSVOA_N
ClientSampleId :
40617

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8/26/2020 11:26:56 AM

Quant Time: Aug 26 06:56:49 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 19 06:09:27 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: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

MSVOA_N

ClientSampled :

40617

Tot Ion:168 Resp: 166330

Ion Ratio Lower Upper

168 100

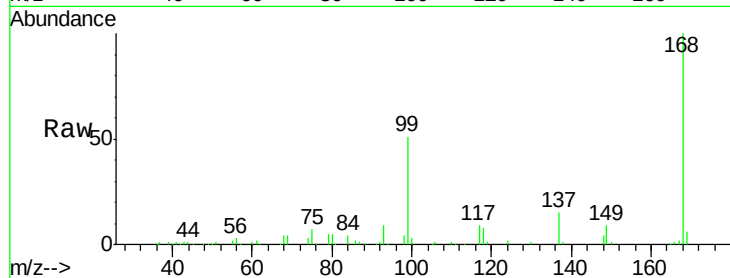
99 50.7 42.0 63.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

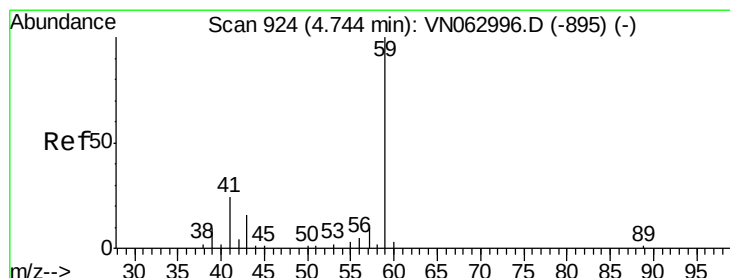
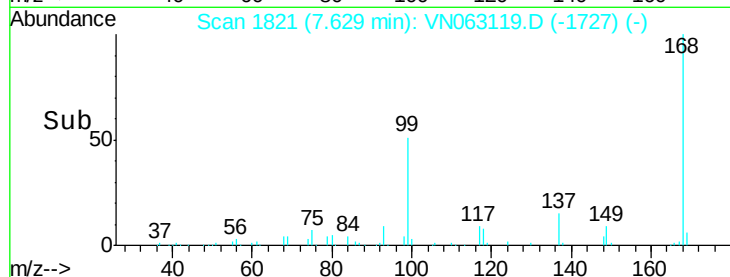
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 63.894 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.01 min

Lab File: VN063119.D

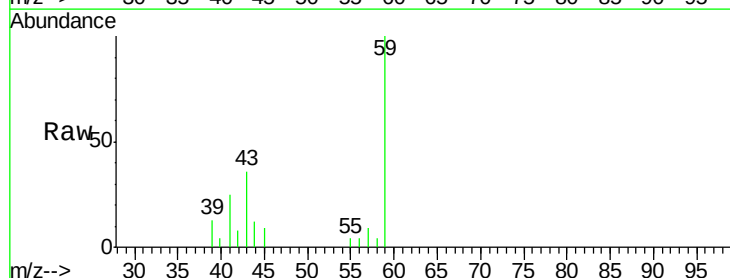
Acq: 25 Aug 2020 18:15

Tgt Ion: 59 Resp: 17841

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

5000

4000

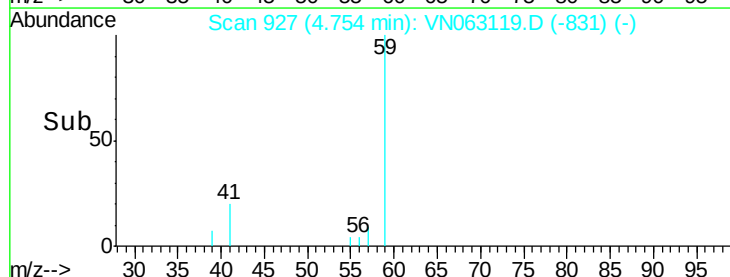
3000

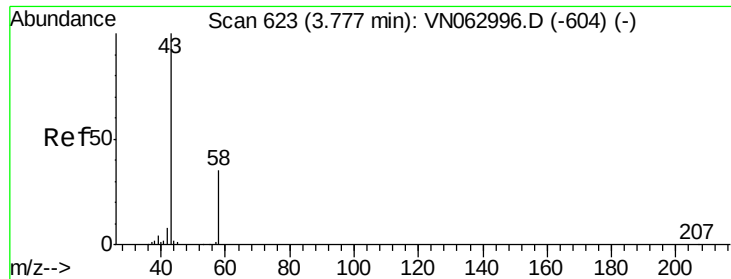
2000

1000

0

Time--> 4.70 4.80 4.90





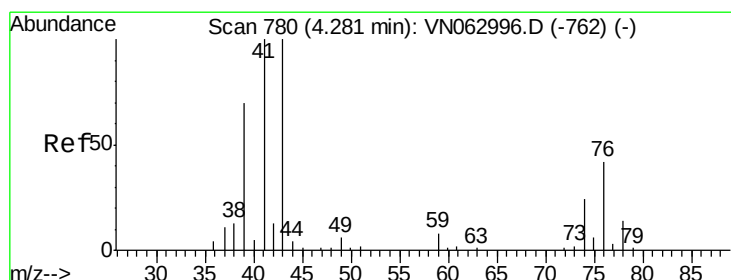
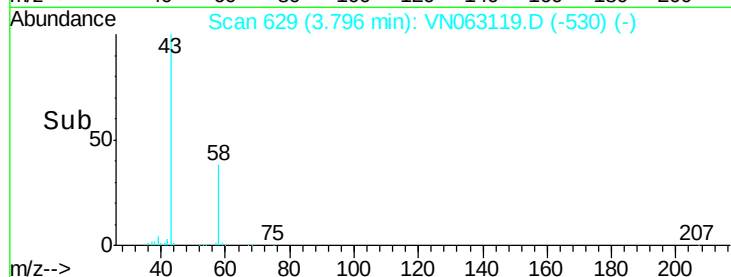
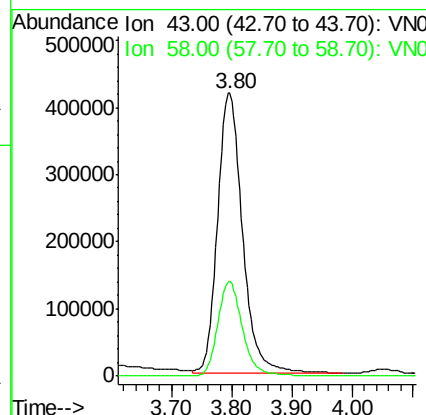
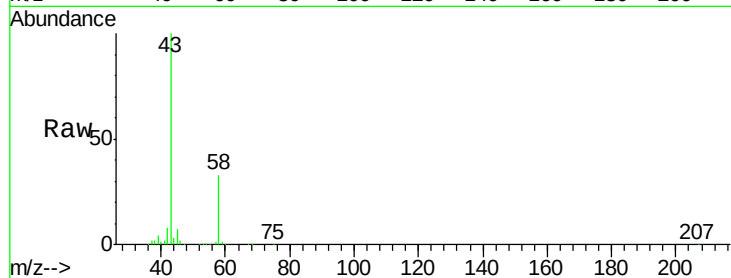
#16
Acetone
Concen: 1951.915 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.02 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampleId :
40617

Tot Ion: 43 Resp: 1183491
Ion Ratio Lower Upper
43 100
58 33.8 27.8 41.6

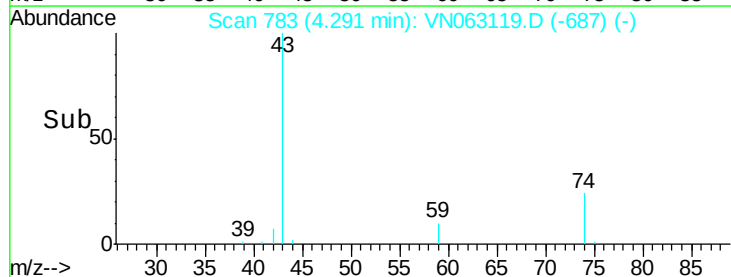
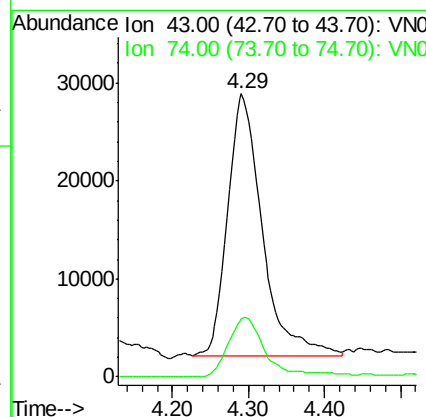
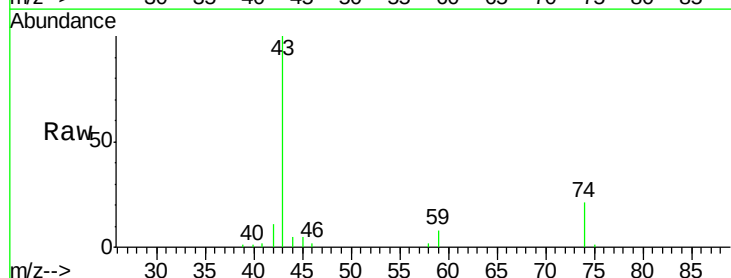
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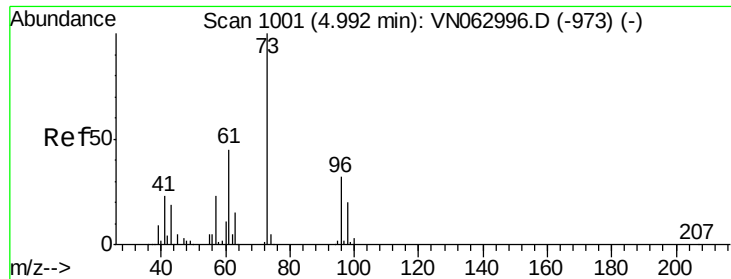
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#18
Methyl Acetate
Concen: 43.151 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion: 43 Resp: 84535
Ion Ratio Lower Upper
43 100
74 23.5 18.6 28.0





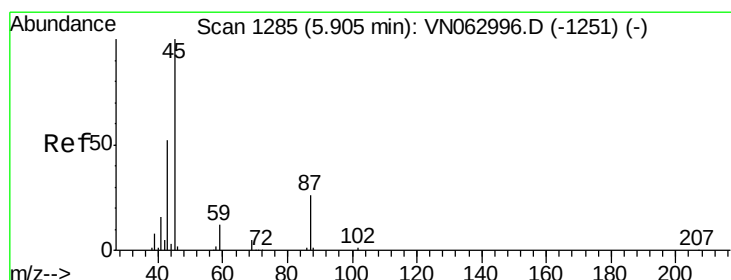
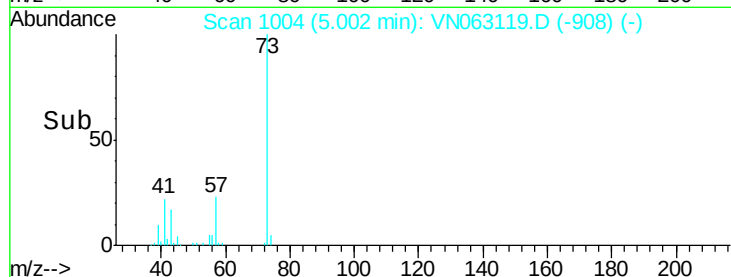
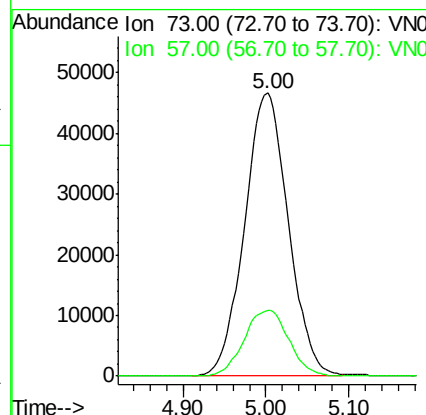
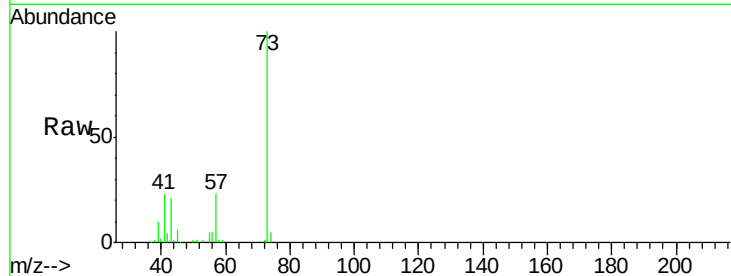
#19
Methyl tert-butyl Ether
Concen: 34.723 ug/l
RT: 5.00 min Scan# 1004
Delta R.T. 0.01 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampled :
40617

Tot Ion: 73 Resp: 170969
Ion Ratio Lower Upper
73 100
57 23.0 18.1 27.1

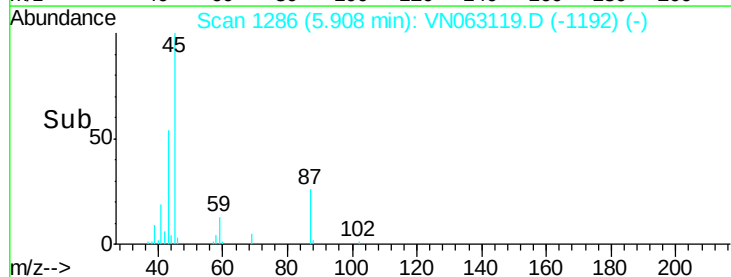
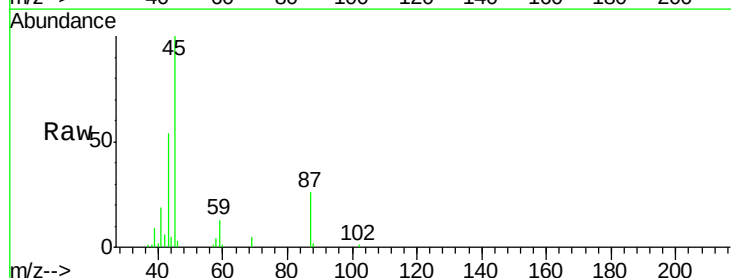
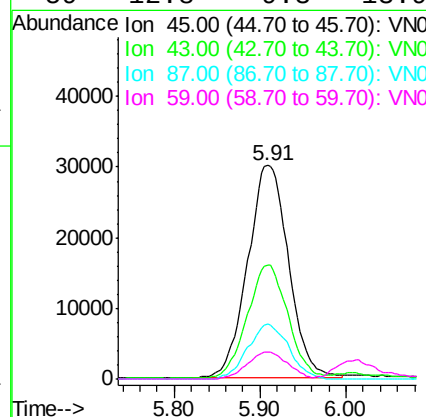
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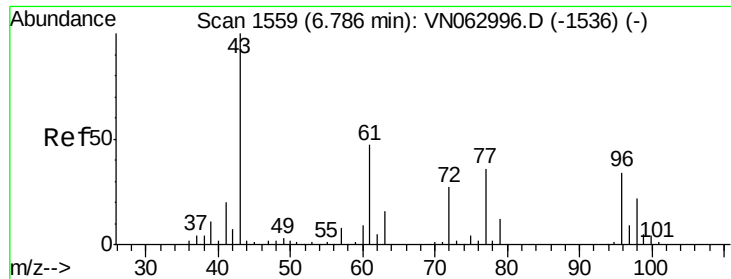
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#22
Diisopropyl ether
Concen: 17.510 ug/l
RT: 5.91 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion: 45 Resp: 98913
Ion Ratio Lower Upper
45 100
43 53.3 45.7 68.5
87 26.0 21.8 32.6
59 12.8 9.3 13.9





#25

2-Butanone

Concen: 195.898 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

MSVOA_N

ClientSampled :
40617

Tot Ion: 43 Resp: 205023

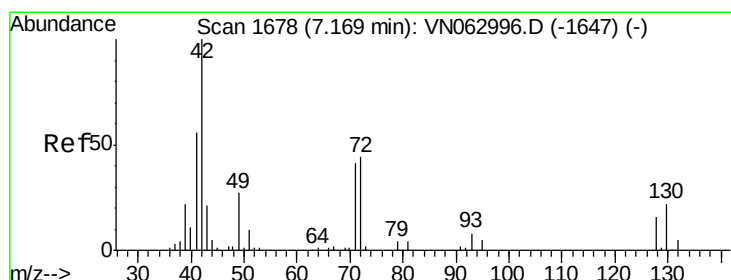
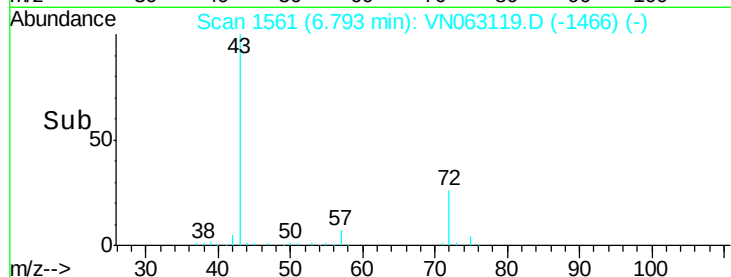
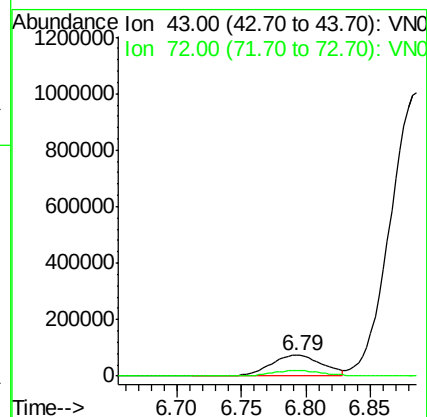
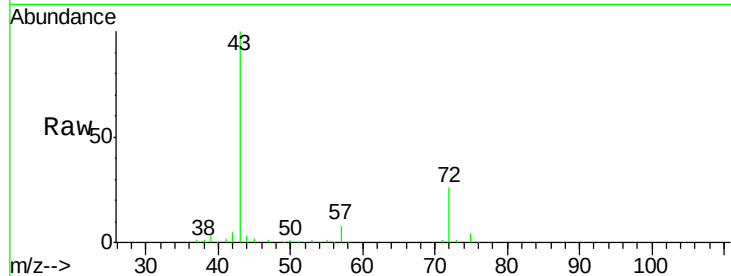
Ion Ratio Lower Upper

43 100

72 26.4 21.8 32.6

Manual Integrations
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#29

Tetrahydrofuran

Concen: 4.381 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

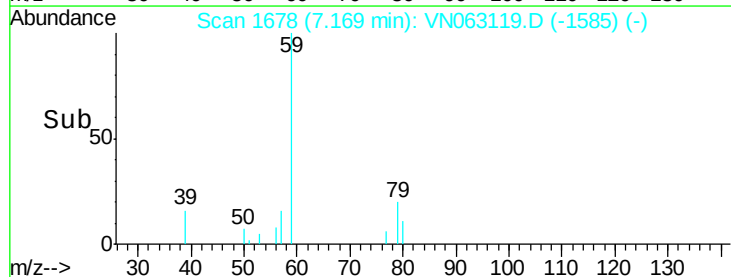
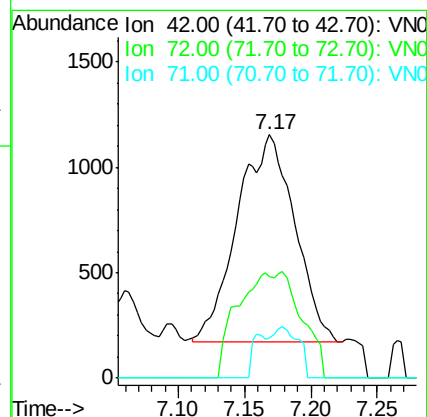
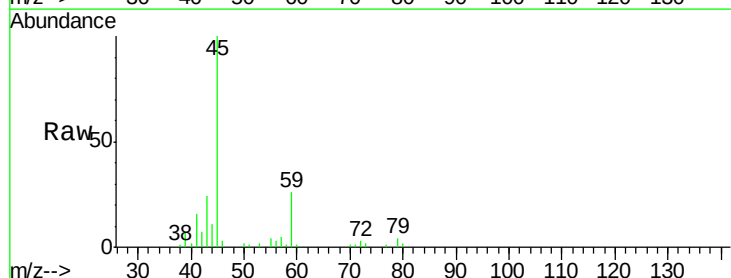
Tgt Ion: 42 Resp: 2959

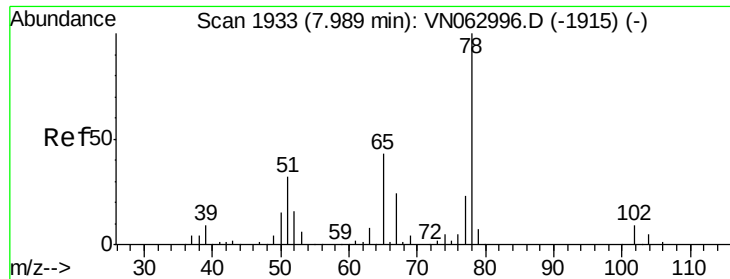
Ion Ratio Lower Upper

42 100

72 33.1 34.6 52.0#

71 5.0 32.3 48.5#





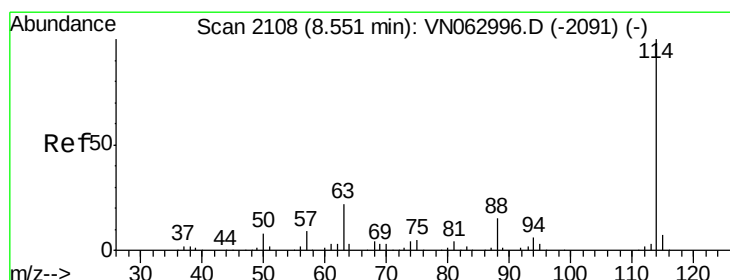
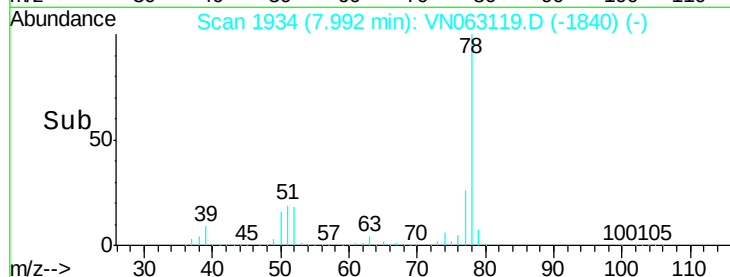
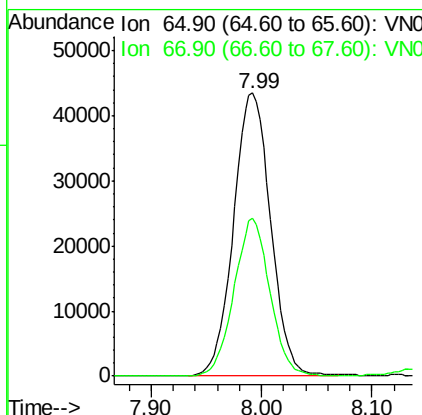
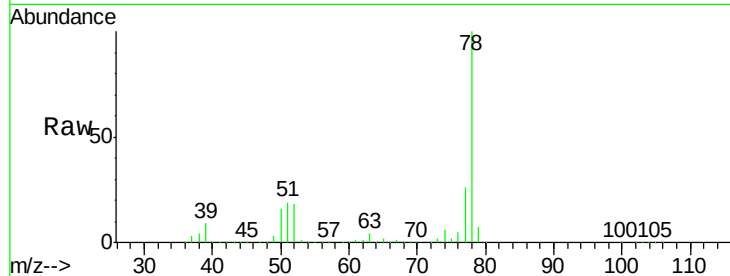
#33
 1,2-Dichloroethane-d4
 Concen: 51.458 ug/l
 RT: 7.99 min Scan# 1934
 Delta R.T. 0.00 min
 Lab File: VN063119.D
 Acq: 25 Aug 2020 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 40617

Tot Ion	Ratio	Resp	Lower	Upper
65	100	101440		
67	53.9	0.0	112.0	

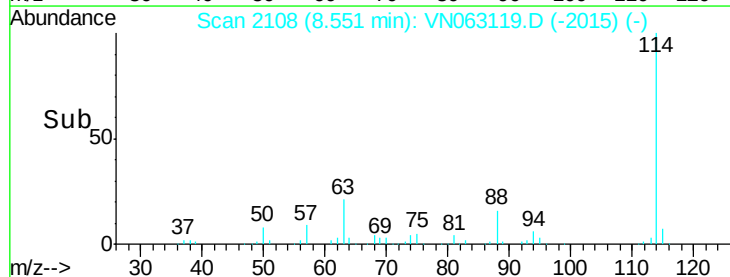
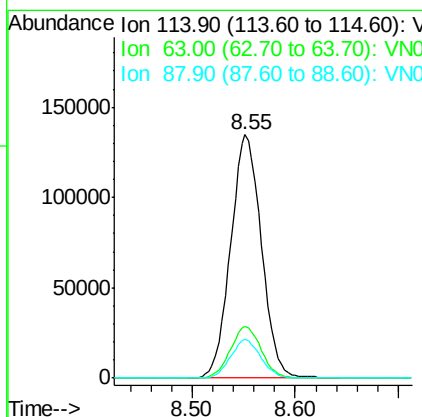
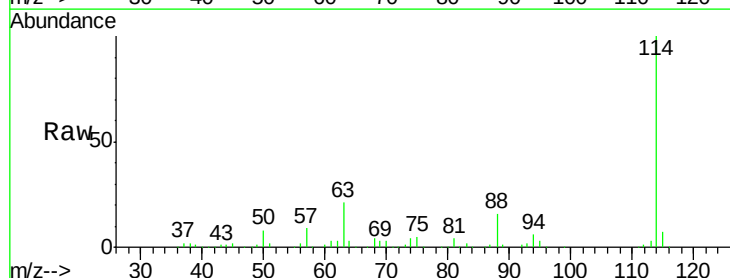
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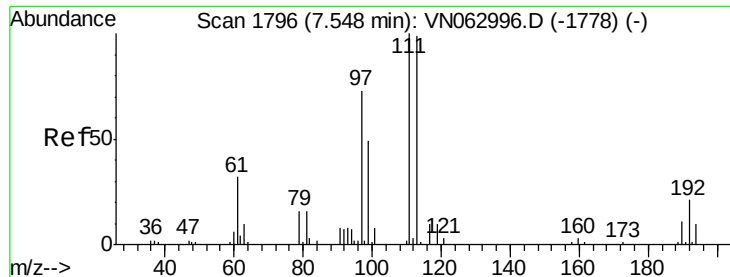
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063119.D
 Acq: 25 Aug 2020 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	279649		
63	21.1	0.0	43.2	
88	15.9	0.0	30.6	





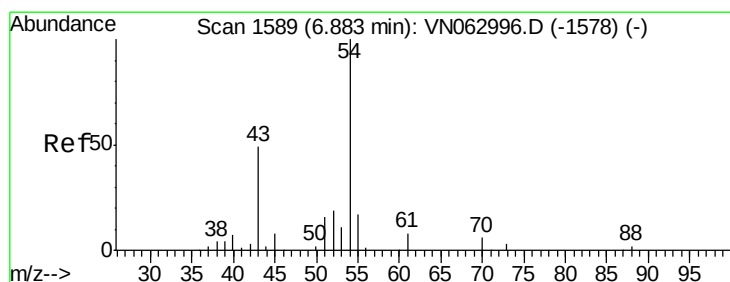
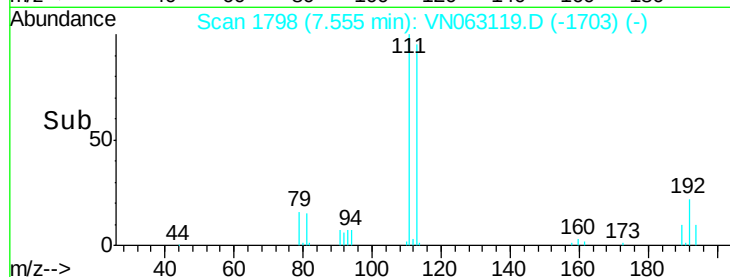
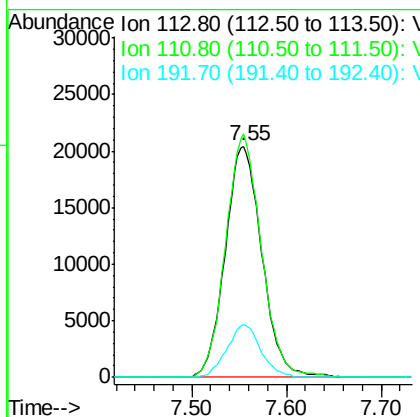
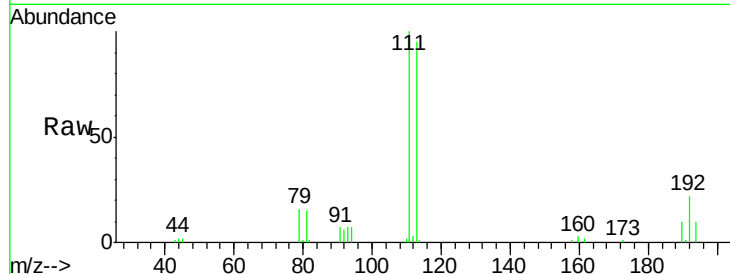
#35
Dibromofluoromethane
Concen: 30.169 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.01 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampled :
40617

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.7	122.5
192	21.1	17.5	26.3

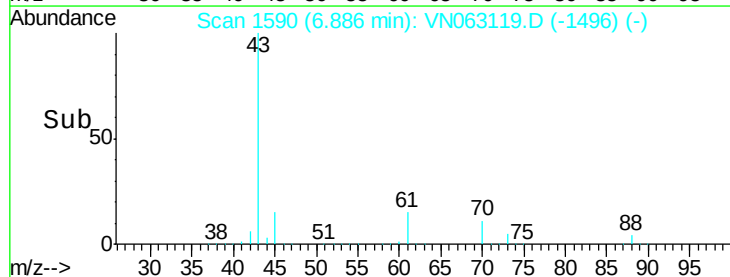
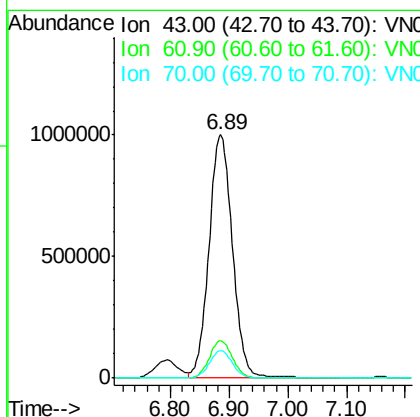
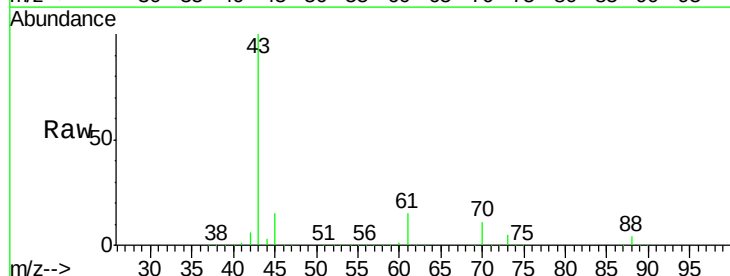
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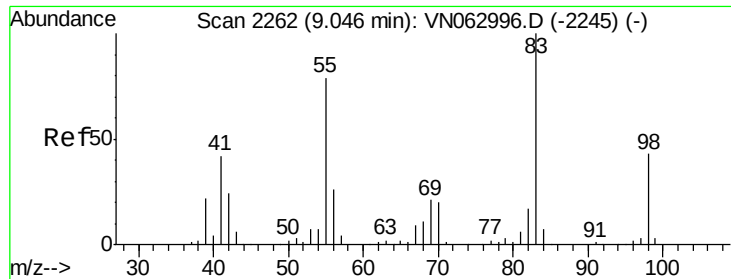
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#37
Ethyl Acetate
Concen: 1201.297 ug/l
RT: 6.89 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.8	17.8
70	11.0	8.2	12.2





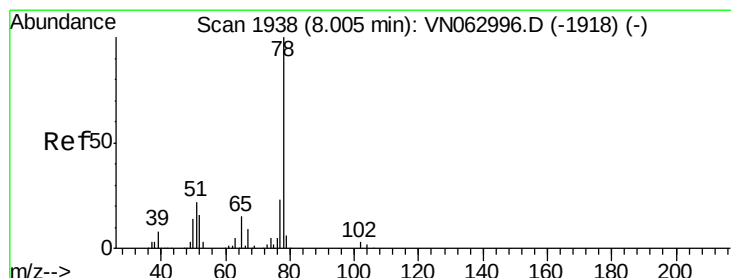
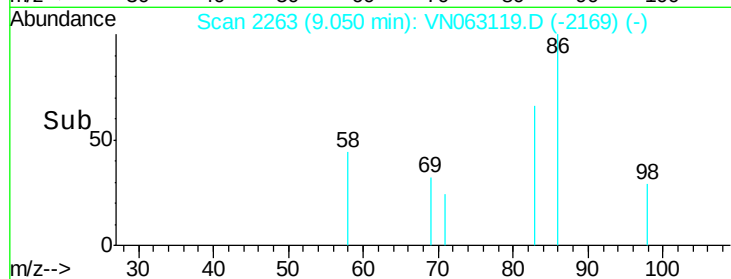
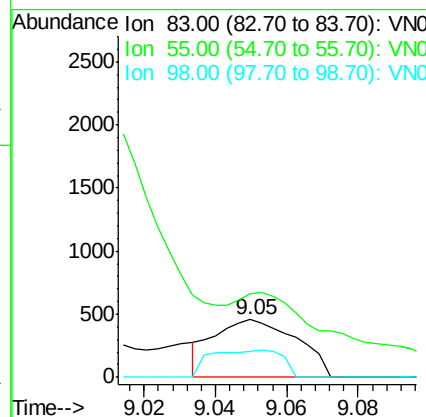
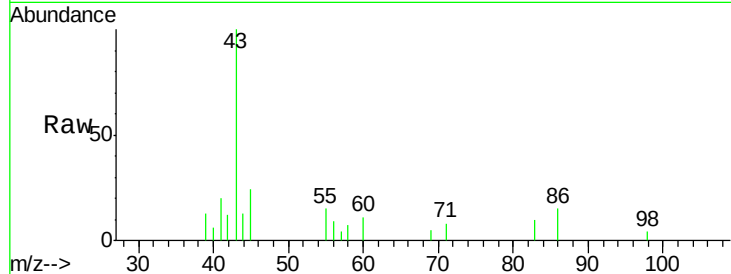
#39
Methylvlcyclohexane
Concen: 1.777 ug/l
RT: 9.05 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampled :
40617

Tot Ion	83	Resp	738
Ion Ratio	100	Lower	Upper
83	100		
55	68.6	63.3	94.9
98	44.6	34.2	51.4

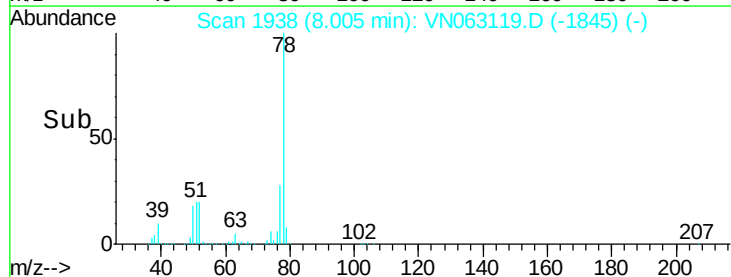
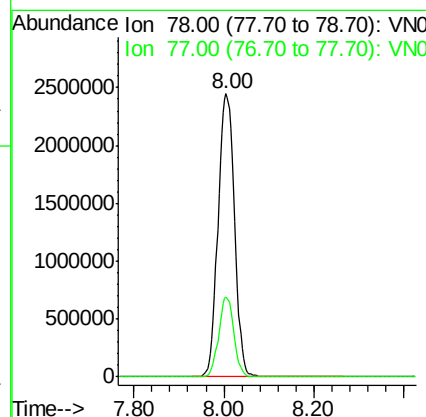
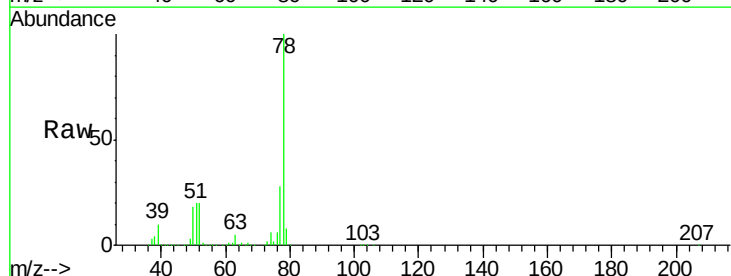
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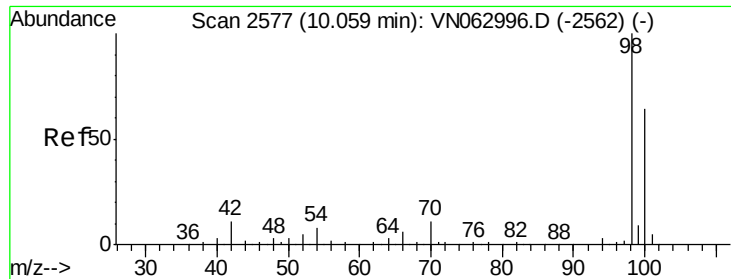
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#40
Benzene
Concen: 799.148 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion	78	Resp	6246335
Ion Ratio	100	Lower	Upper
78	100		
77	28.4	18.8	28.2





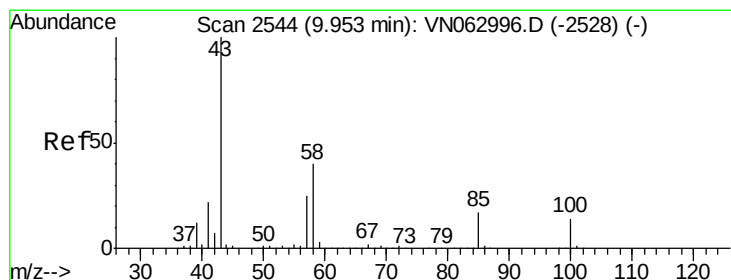
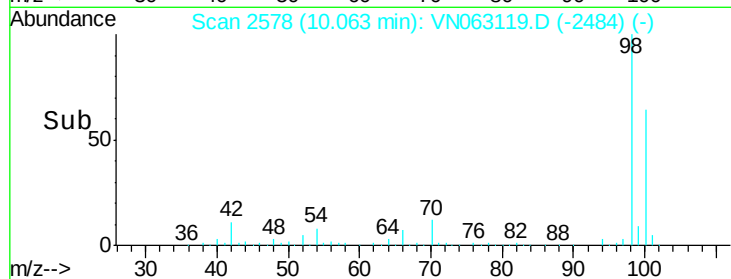
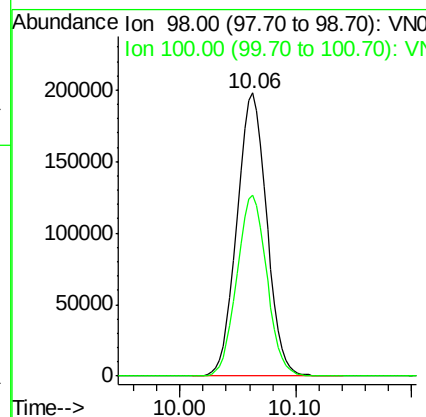
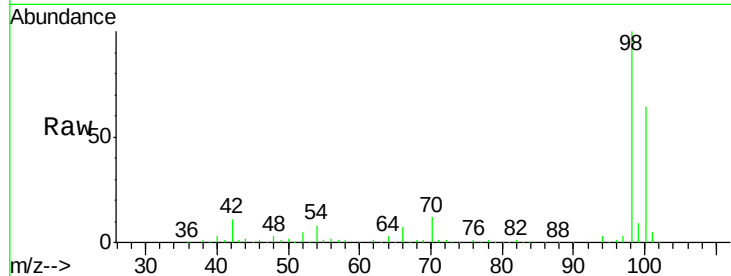
#50
Toluene-d8
Concen: 50.260 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampled :
40617

Tot Ion: 98 Resp: 351776
Ion Ratio Lower Upper
98 100
100 64.3 51.2 76.8

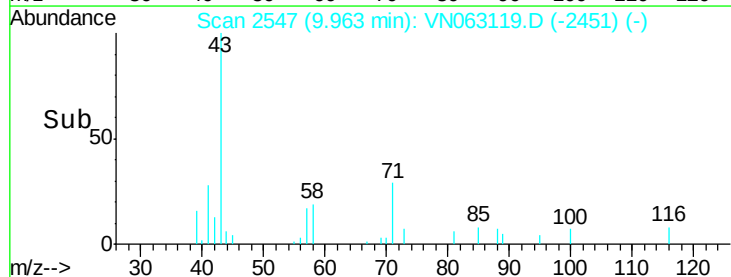
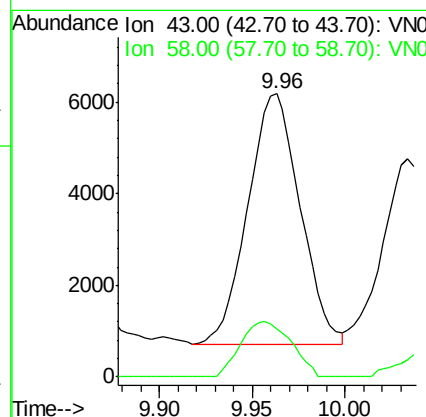
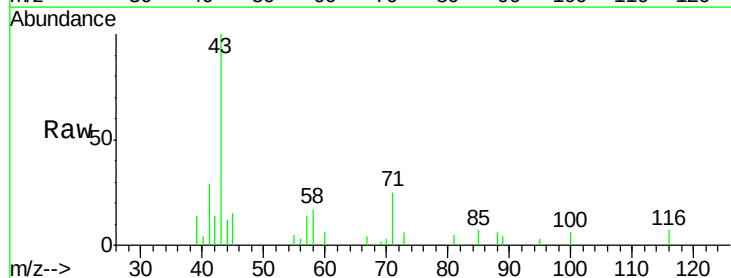
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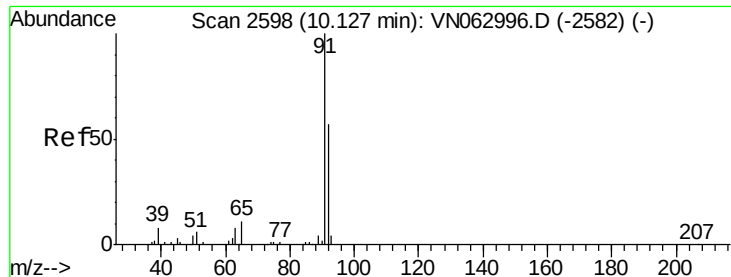
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8/26/2020 11:26:56 AM



#51
4-Methyl-2-Pentanone
Concen: 4.425 ug/l
RT: 9.96 min Scan# 2547
Delta R.T. 0.01 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion: 43 Resp: 10699
Ion Ratio Lower Upper
43 100
58 21.4 32.2 48.2#





#52

Toluene

Concen: 1214.558 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

40617

Tot Ion: 92 Resp: 5726719

Ion Ratio Lower Upper

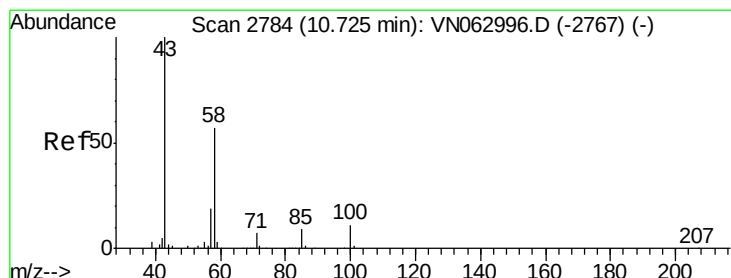
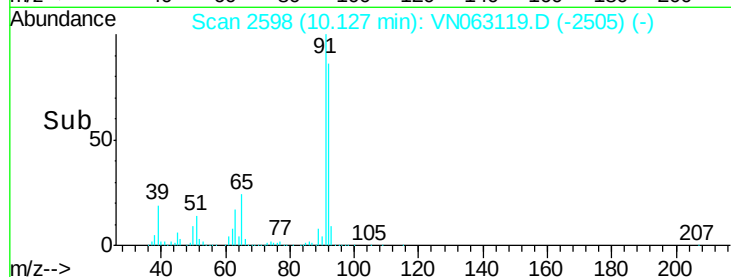
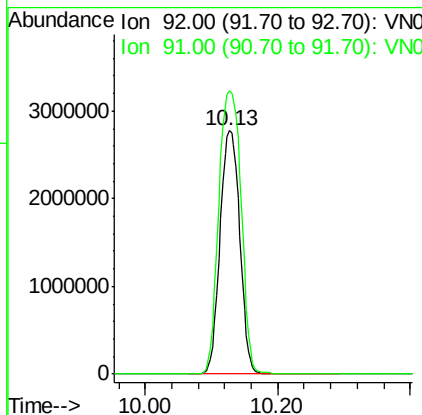
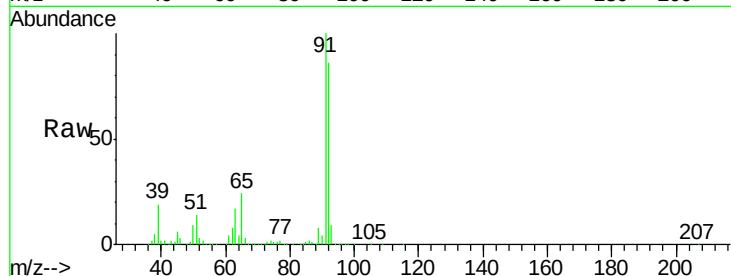
92 100

91 132.8 139.2 208.8#

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8/26/2020 11:26:56 AM



#59

2-Hexanone

Concen: 5.982 ug/l

RT: 10.72 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VN063119.D

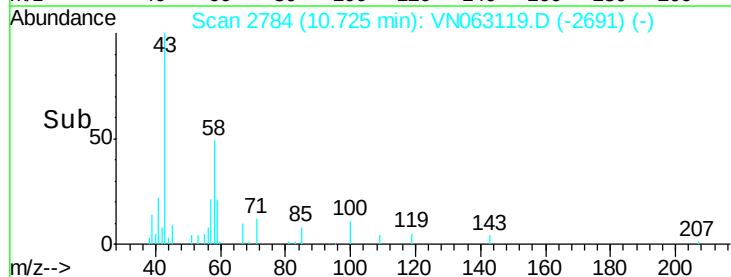
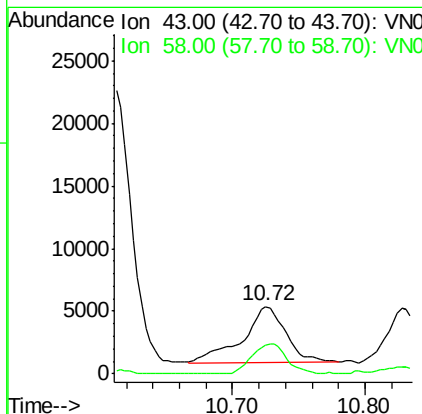
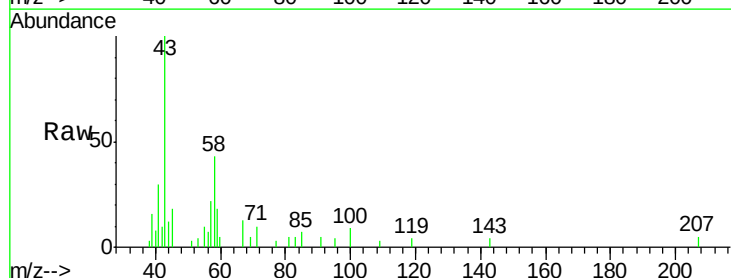
Acq: 25 Aug 2020 18:15

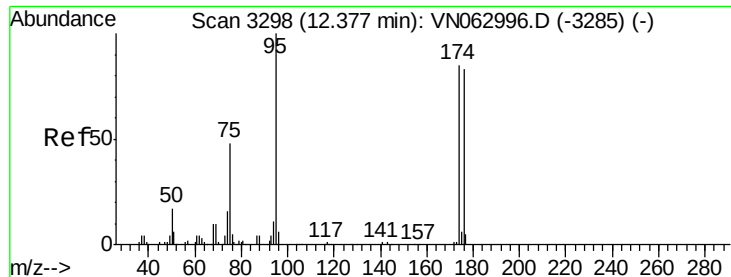
Tgt Ion: 43 Resp: 10090

Ion Ratio Lower Upper

43 100

58 43.7 28.1 84.3





#62

4-Bromofluorobenzene

Concen: 55.558 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

MSVOA_N

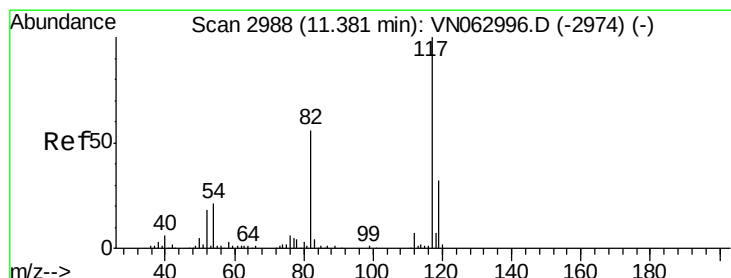
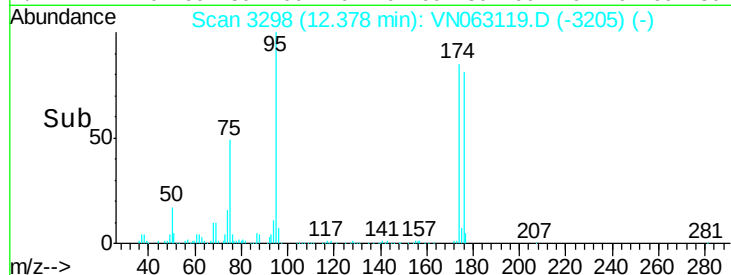
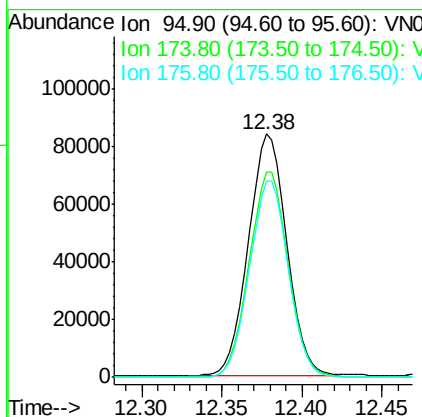
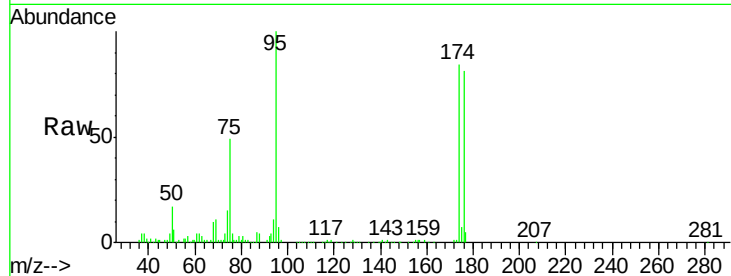
ClientSampled :

40617

Tot Ion:	95	Resp:	137220
Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	170.8
176	82.9	0.0	164.8

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

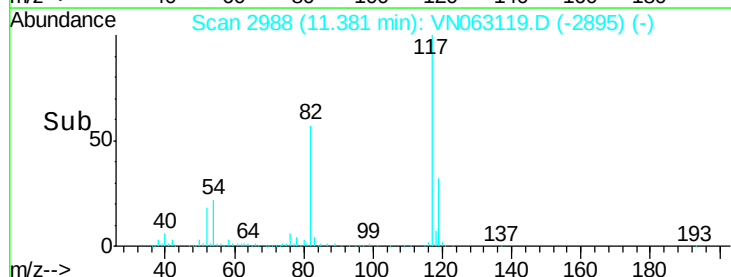
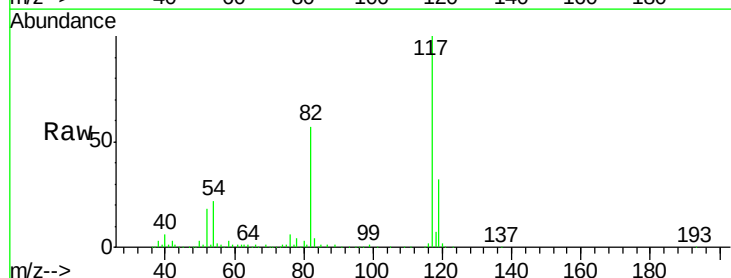
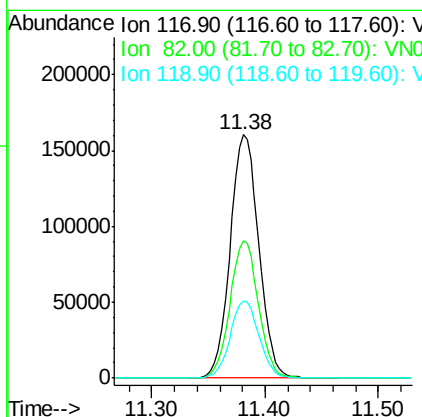
RT: 11.38 min Scan# 2988

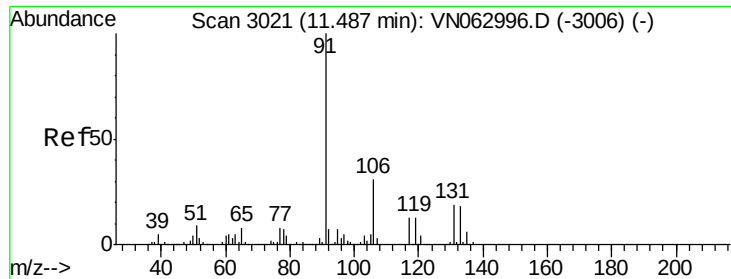
Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Tgt Ion:	117	Resp:	282376
Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.5	66.7
119	31.9	25.5	38.3





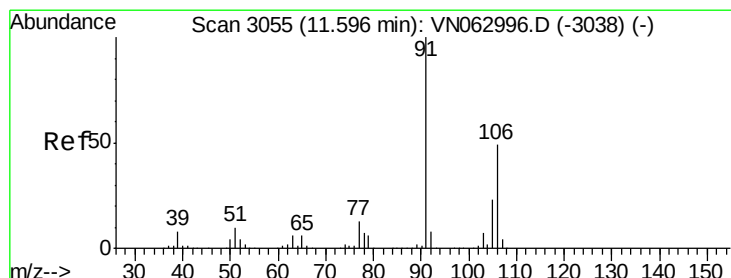
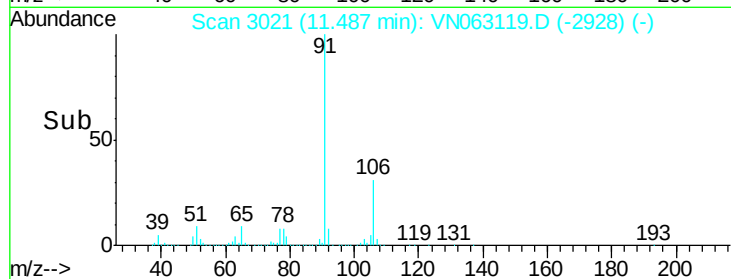
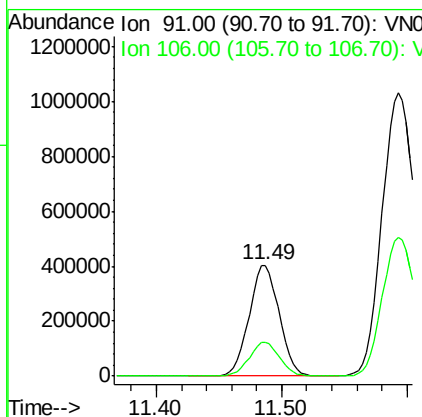
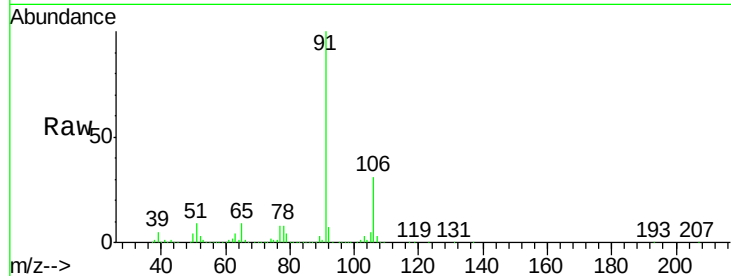
#67
Ethyl Benzene
Concen: 70.371 ug/l
RT: 11.49 min Scan# 3021
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampled :
40617

Tot Ion: 91 Resp: 674340
Ion Ratio Lower Upper
91 100
106 30.8 24.6 37.0

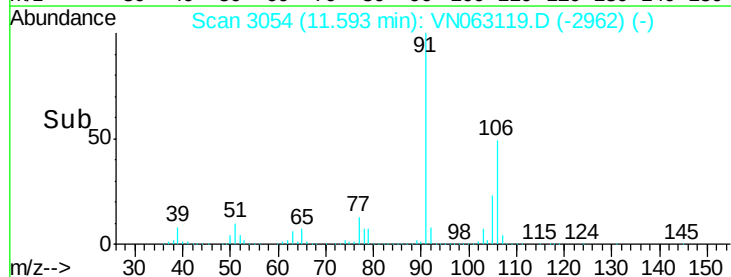
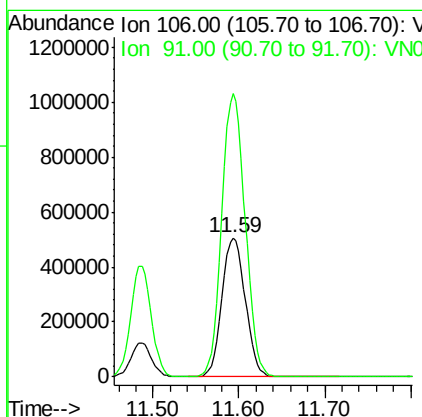
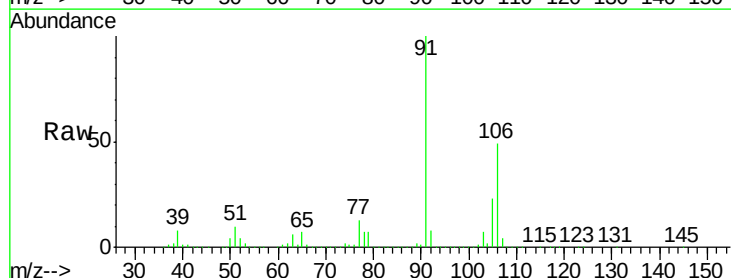
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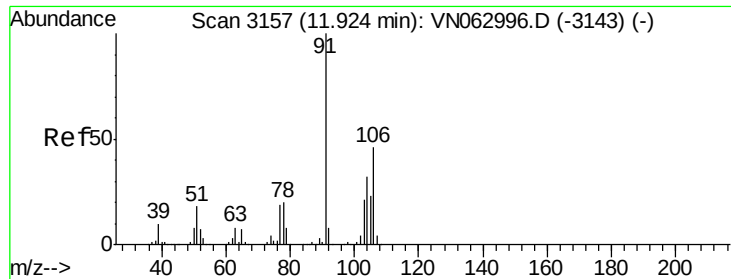
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8/26/2020 11:26:56 AM



#68
m/p-Xylenes
Concen: 268.498 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion: 106 Resp: 956268
Ion Ratio Lower Upper
106 100
91 203.9 163.0 244.4





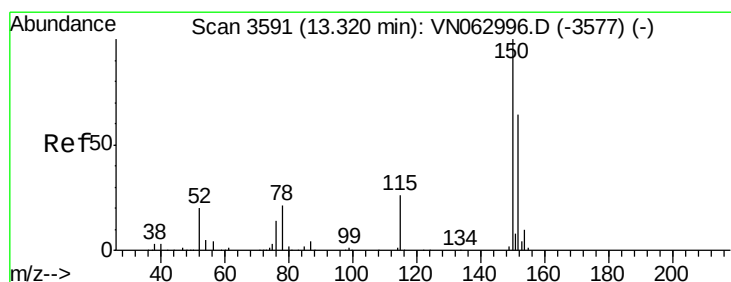
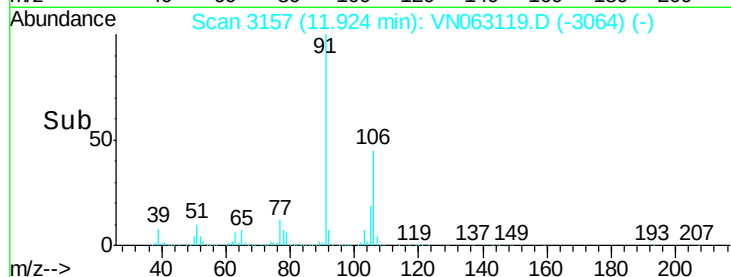
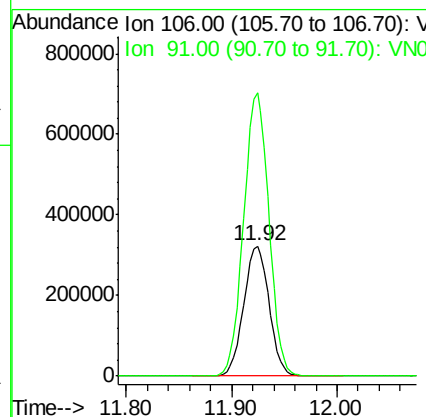
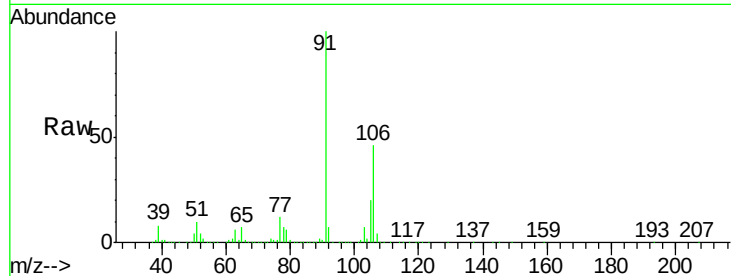
#69
o-Xylene
Concen: 157.465 ug/l
RT: 11.92 min Scan# 3157
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampled :
40617

Tot Ion	Ratio	Resp	Lower	Upper
106	100	538540		
91	217.1	107.3	321.9	

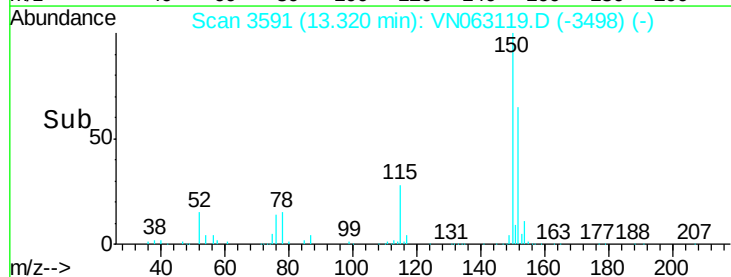
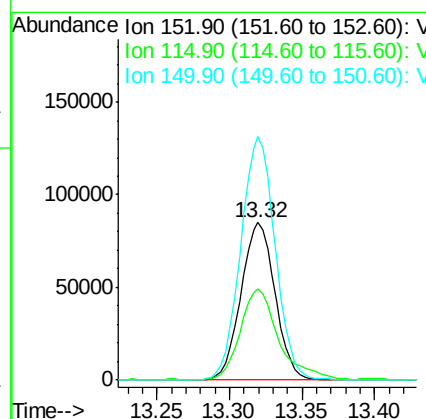
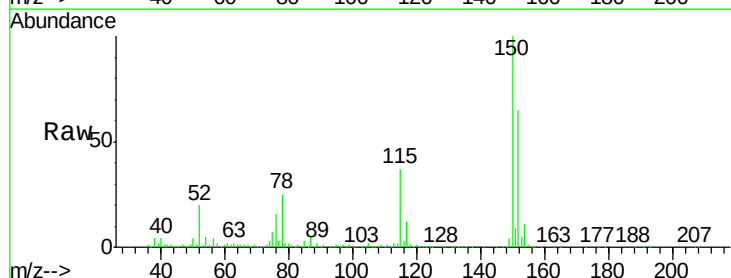
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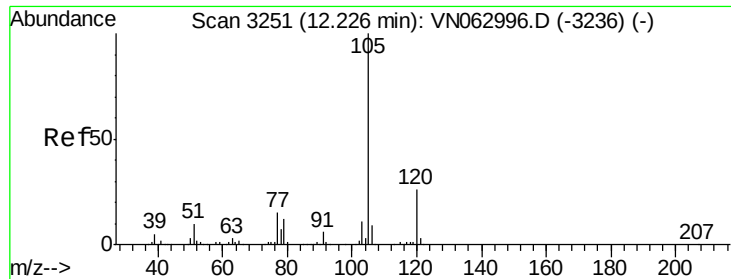
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8/26/2020 11:26:56 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	137588		
115	64.3	28.7	86.3	
150	157.8	0.0	348.8	





#73

Isopropylbenzene

Concen: 2.003 ug/l

RT: 12.23 min Scan# 3251

Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

MSVOA_N

ClientSampleId :

40617

Tot Ion:105 Resp: 18872

Ion Ratio Lower Upper

105 100

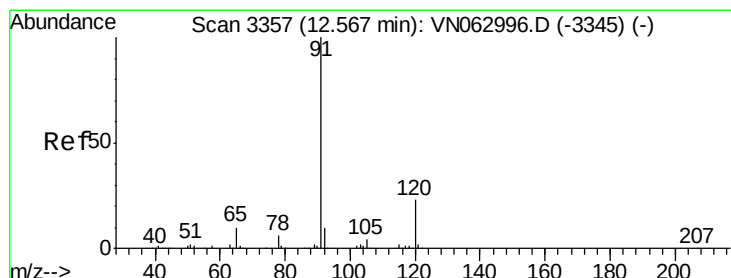
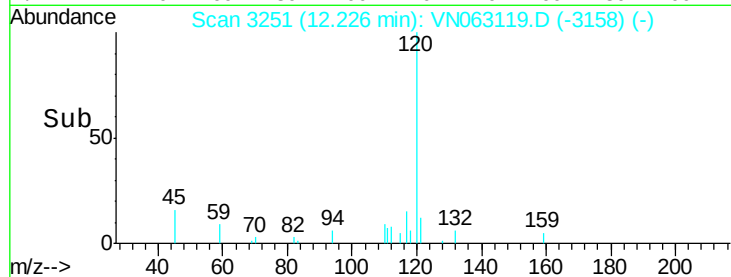
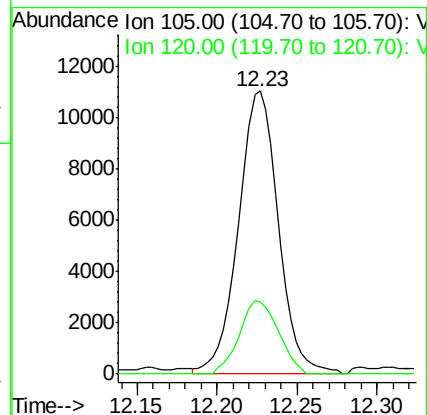
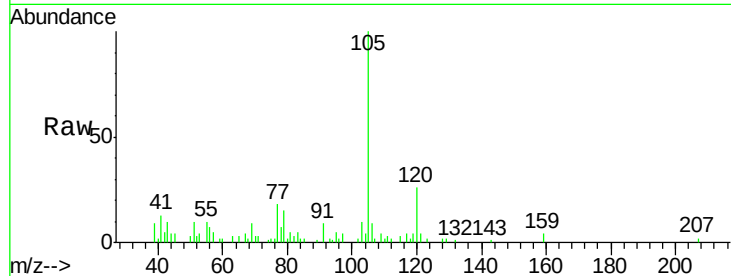
120 25.4 13.2 39.6

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8/26/2020 11:26:56 AM



#78

n-propylbenzene

Concen: 4.536 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN063119.D

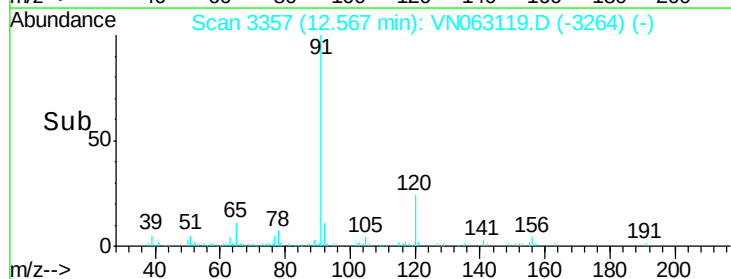
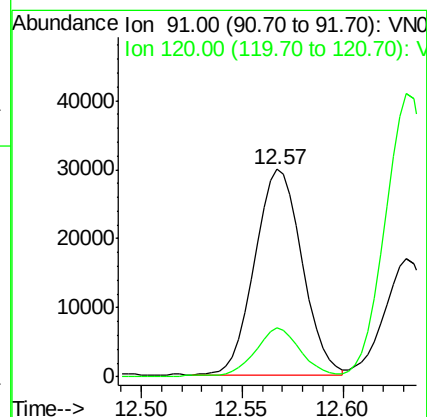
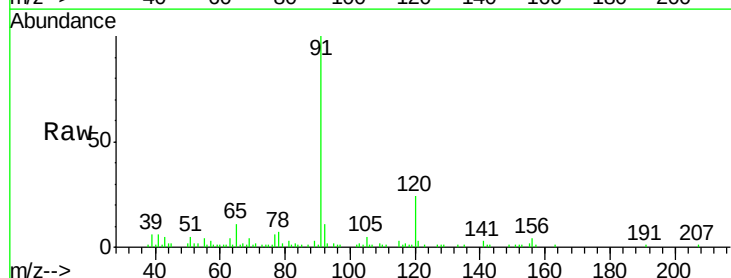
Acq: 25 Aug 2020 18:15

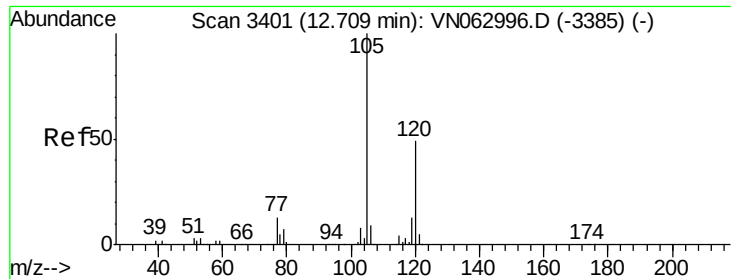
Tgt Ion: 91 Resp: 48713

Ion Ratio Lower Upper

91 100

120 23.4 11.4 34.1





#80

1,3,5-Trimethylbenzene

Concen: 11.645 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

MSVOA_N

ClientSampled :

40617

Tot Ion:105 Resp: 90703

Ion Ratio Lower Upper

105 100

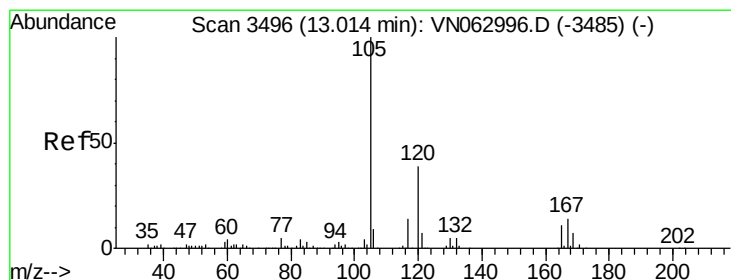
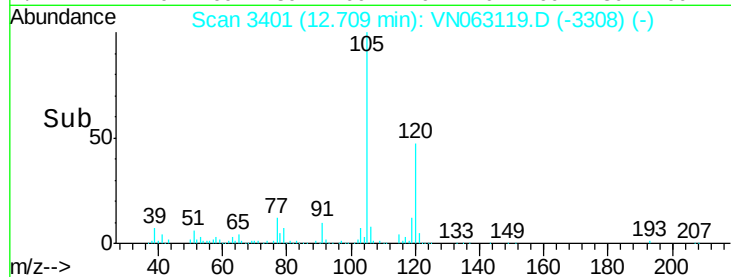
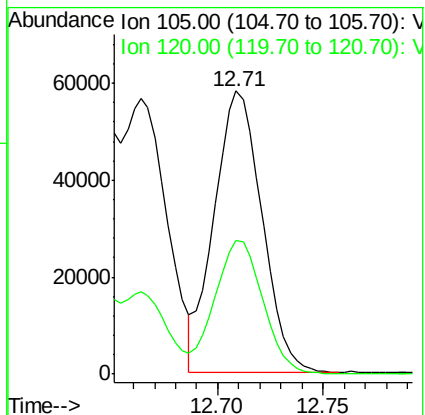
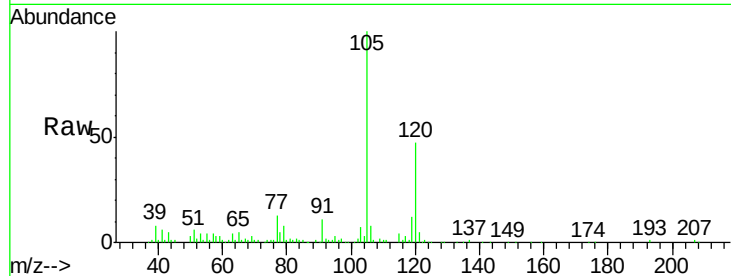
120 47.6 24.3 72.8

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#84

1,2,4-Trimethylbenzene

Concen: 69.727 ug/l

RT: 13.02 min Scan# 3497

Delta R.T. 0.00 min

Lab File: VN063119.D

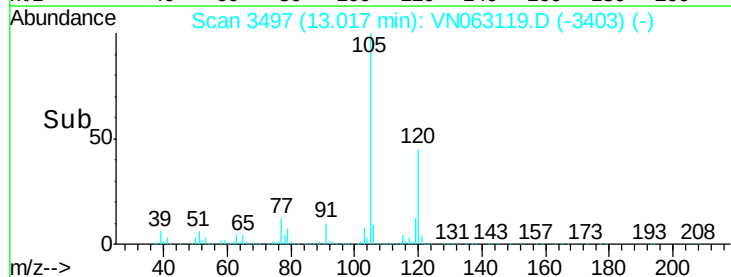
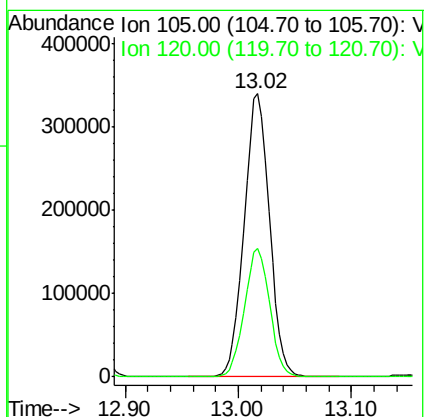
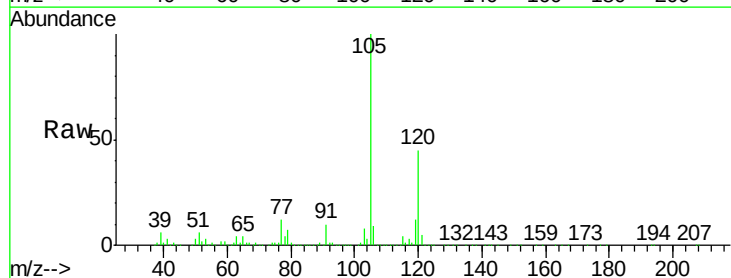
Acq: 25 Aug 2020 18:15

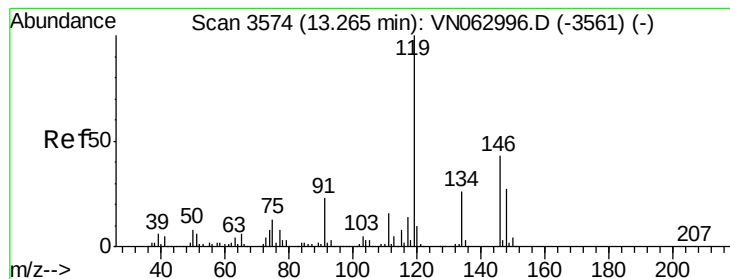
Tgt Ion:105 Resp: 529077

Ion Ratio Lower Upper

105 100

120 45.1 22.5 67.5





#86

p-Isopropyltoluene

Concen: 0.269 ug/l

RT: 13.26 min Scan# 3574

Delta R.T. 0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Instrument :

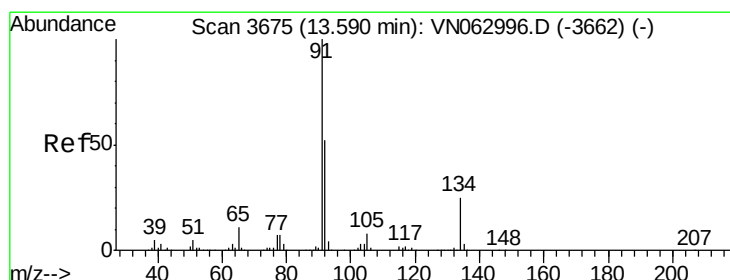
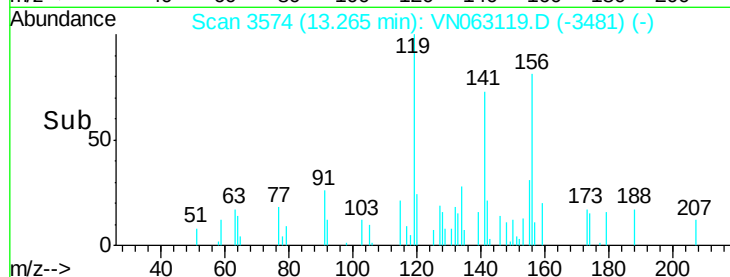
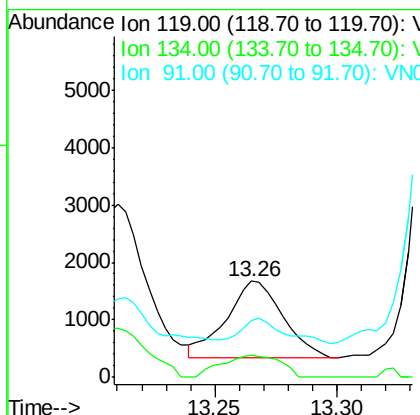
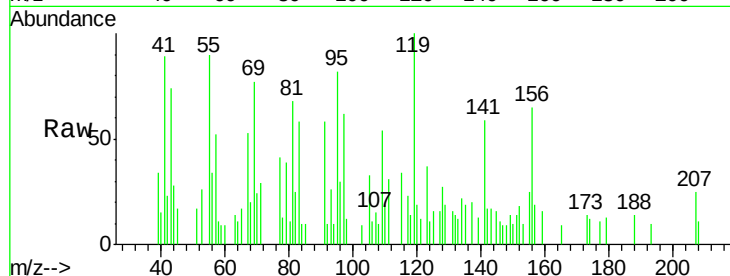
MSVOA_N

ClientSampled :
40617

Tot Ion:	119	Resp:	2132
Ion Ratio	Lower	Upper	
119	100		
134	30.3	13.1	39.3
91	0.0	11.5	34.4#

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#89

n-Butylbenzene

Concen: 3.332 ug/l m

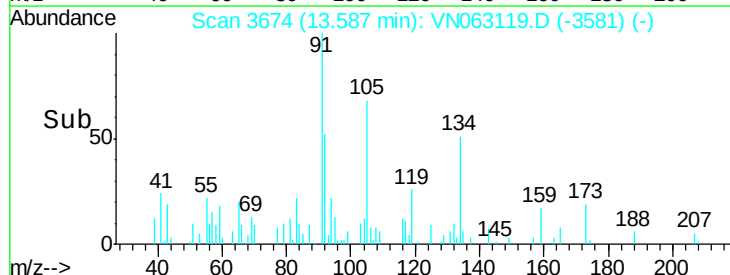
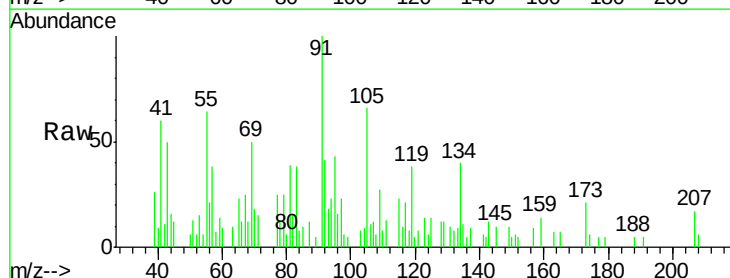
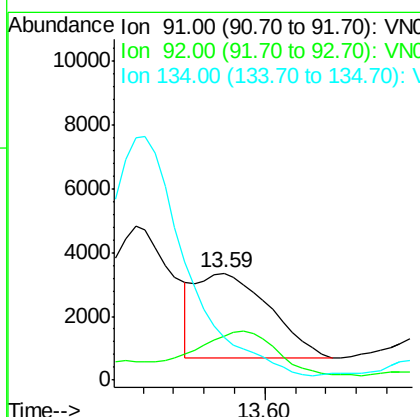
RT: 13.59 min Scan# 3674

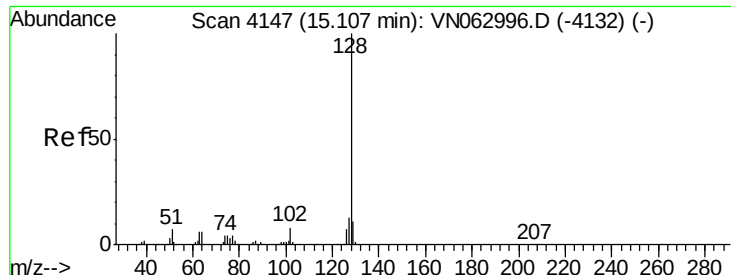
Delta R.T. -0.00 min

Lab File: VN063119.D

Acq: 25 Aug 2020 18:15

Tgt Ion:	91	Resp:	4462
Ion Ratio	Lower	Upper	
91	100		
92	11.4	25.9	77.6#
134	304.1	12.4	37.0#





#95
Naphthalene
Concen: 122.790 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. -0.00 min
Lab File: VN063119.D
Acq: 25 Aug 2020 18:15

Instrument :
MSVOA_N
ClientSampleId :
40617

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.8	8.9	13.3

Manual Integrations
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8/26/2020 11:26:56 AM

