

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059283.D
 Acq On : 18 Nov 2019 15:00
 Operator : JC/SP
 Sample : K5900-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30696

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:03:10 AM

Quant Time: Nov 19 08:02:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	516110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	803793	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	687449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	477162	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	283984	44.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.52%	
35) Dibromofluoromethane	7.57	113	208096	43.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.72%	
50) Toluene-d8	10.08	98	980085	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.40	95	339893	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.39	74	137905	41.404	ug/l	99
11) Tert butyl alcohol	4.75	59	3904521m	3229.304	ug/l	
16) Acetone	3.79	43	9756577	2957.282	ug/l #	48
18) Methyl Acetate	4.29	43	2136248	272.798	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	7549432	455.451	ug/l	94
20) Methylene Chloride	4.52	84	12637	2.199	ug/l	96
25) 2-Butanone	6.81	43	4349462	1000.310	ug/l	96
29) Tetrahydrofuran	7.19	42	229482	83.062	ug/l	98
31) Cyclohexane	7.63	56	32253	3.265	ug/l #	54
39) Methylcyclohexane	9.07	83	20949	2.403	ug/l	89
40) Benzene	8.02	78	6490747	286.888	ug/l #	84
43) Isopropyl Acetate	8.15	43	215345m	16.161	ug/l	
51) 4-Methyl-2-Pentanone	9.98	43	969391	128.573	ug/l	97
52) Toluene	10.15	92	5806671	428.203	ug/l #	65
67) Ethyl Benzene	11.51	91	5485454	230.709	ug/l #	58
68) m/p-Xylenes	11.62	106	8140798	914.039	ug/l #	47
69) o-Xylene	11.95	106	5551789	645.021	ug/l	48
73) Isopropylbenzene	12.25	105	256089	7.378	ug/l	99
78) n-propylbenzene	12.59	91	212500	5.347	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	1646712	55.990	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.29	75	37049	9.008	ug/l #	61
83) tert-Butylbenzene	12.99	119	64635	2.545	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	4713075	165.634	ug/l	85
85) sec-Butylbenzene	13.17	105	163032	4.936	ug/l #	77
86) p-Isopropyltoluene	13.29	119	187660	6.434	ug/l #	77
89) n-Butylbenzene	13.62	91	124468m	4.876	ug/l	
95) Naphthalene	15.13	128	667048	28.379	ug/l	99

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

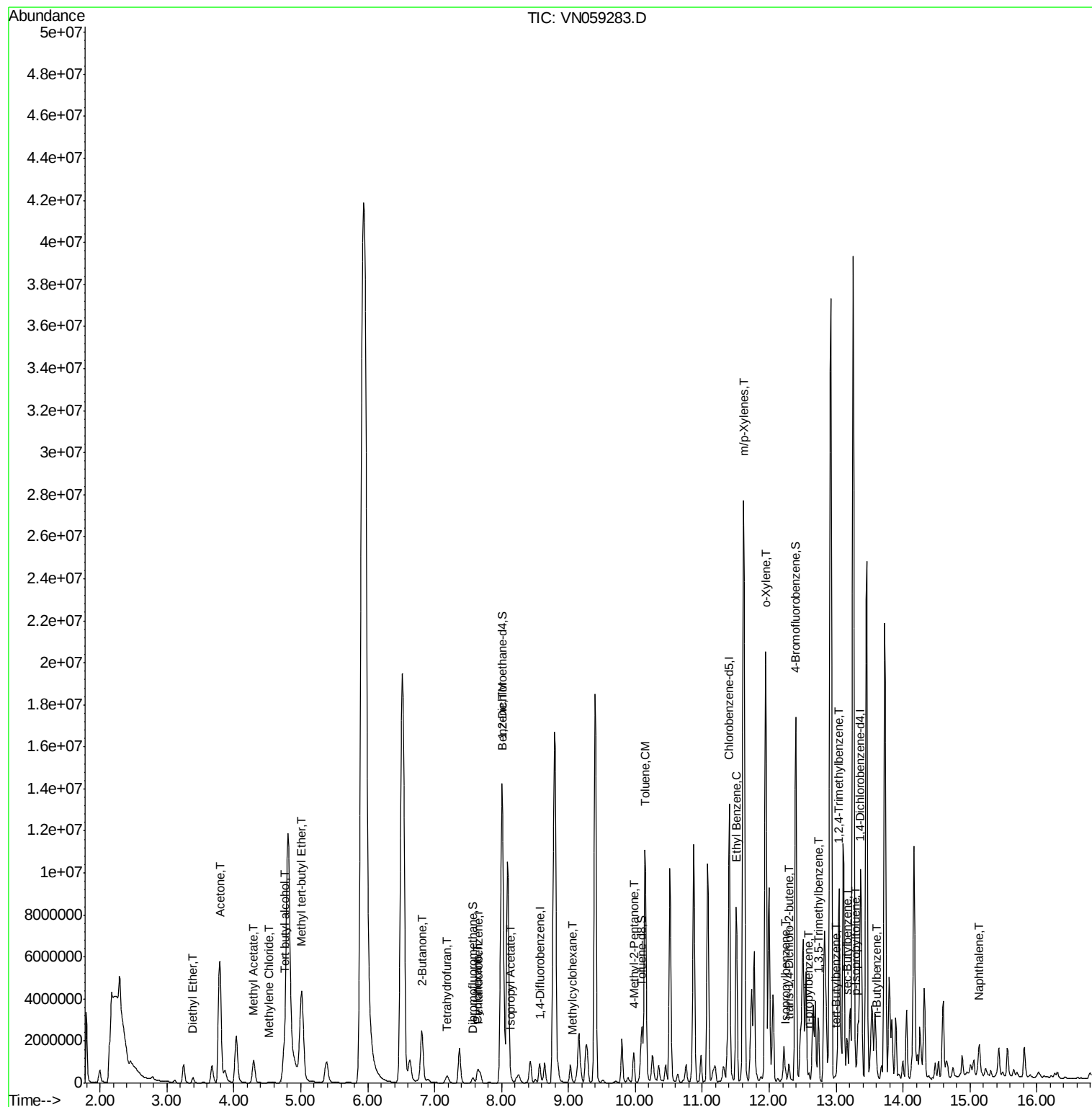
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
Data File : VN059283.D
Acq On : 18 Nov 2019 15:00
Operator : JC/SP
Sample : K5900-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

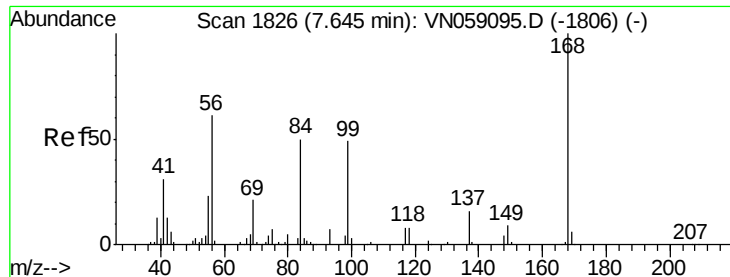
Instrument :
MSVOA_N
ClientSampleId :
30696

Manual Integrations
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11/19/2019 11:03:10 AM

Quant Time: Nov 19 08:02:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

30696

Tot Ion:168 Resp: 516110

Ion Ratio Lower Upper

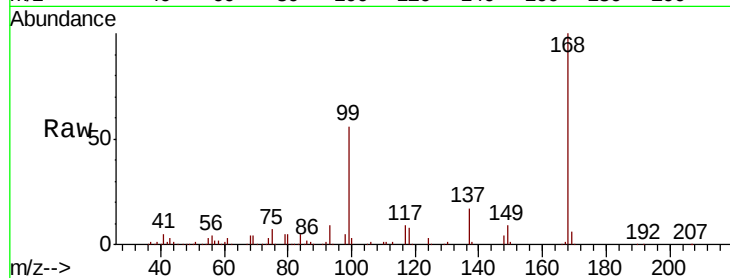
168 100

99 55.7 45.7 68.5

Manual Integrations
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11/19/2019 11:03:10 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

250000

200000

150000

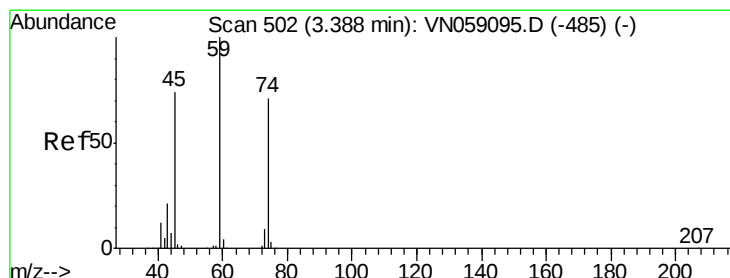
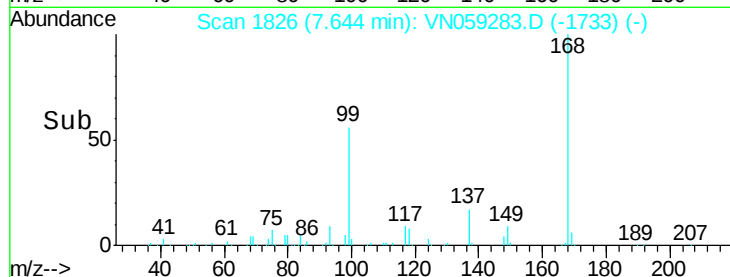
100000

50000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 41.404 ug/l

RT: 3.39 min Scan# 502

Delta R.T. -0.00 min

Lab File: VN059283.D

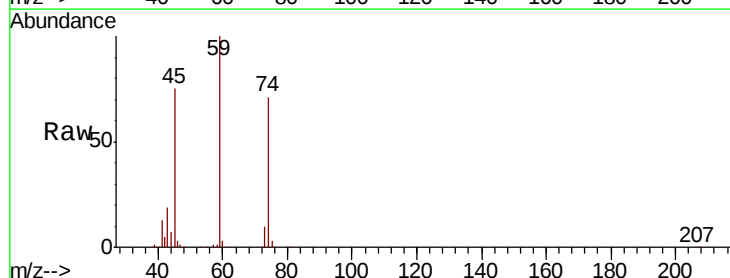
Acq: 18 Nov 2019 15:00

Tgt Ion: 74 Resp: 137905

Ion Ratio Lower Upper

74 100

45 104.0 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

600000

500000

400000

300000

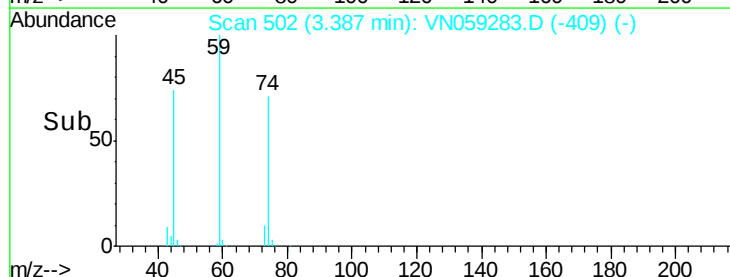
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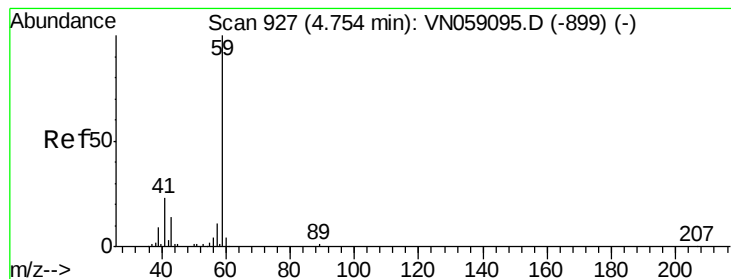
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3.30 3.40 3.50

Time-->





#11

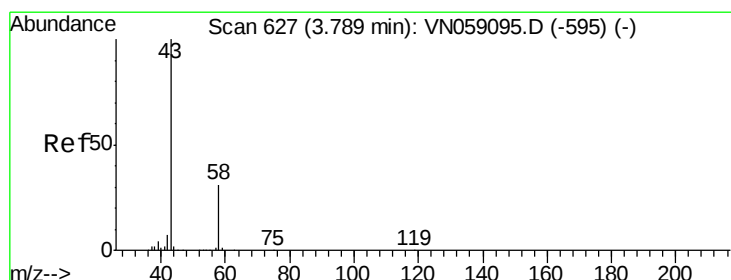
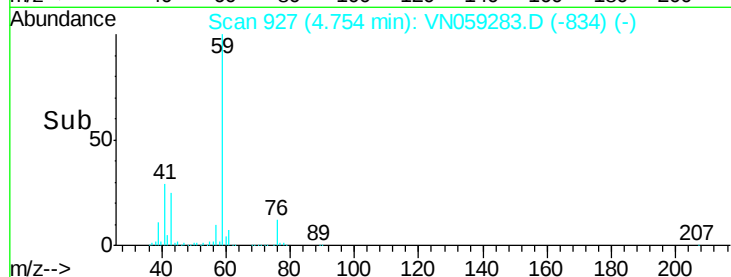
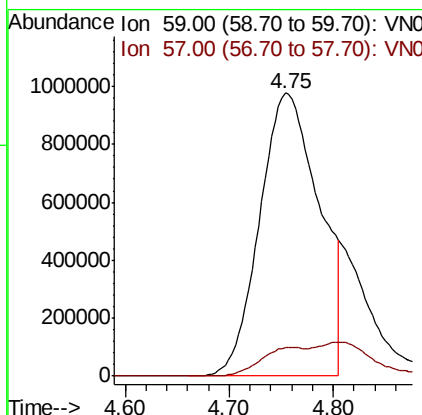
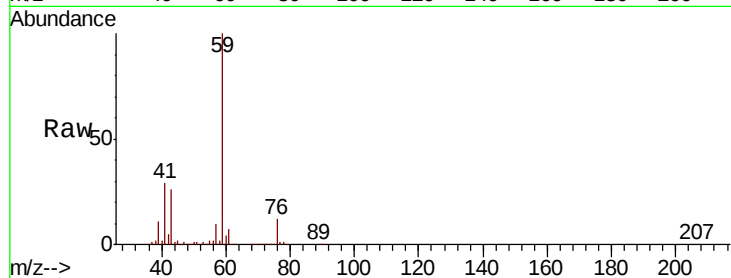
Tert butyl alcohol
 Concen: 3229.304 ug/l m
 RT: 4.75 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VN059283.D
 Acq: 18 Nov 2019 15:00

Instrument :
 MSVOA_N
 ClientSampled :
 30696

Tot Ion: 59 Resp: 3904521
 Ion Ratio Lower Upper
 59 100
 57 7.4 8.3 12.5#

Manual Integrations
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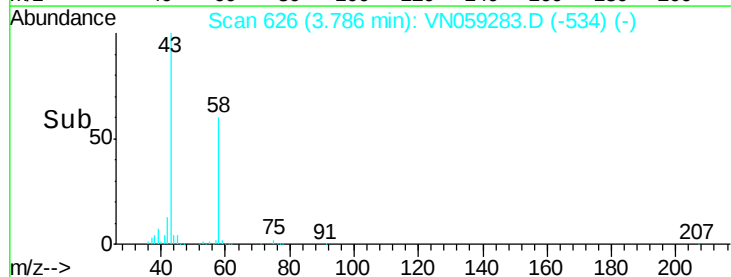
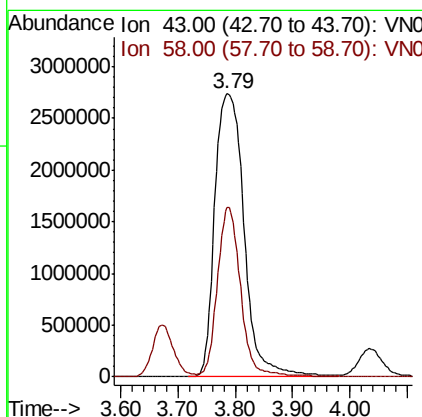
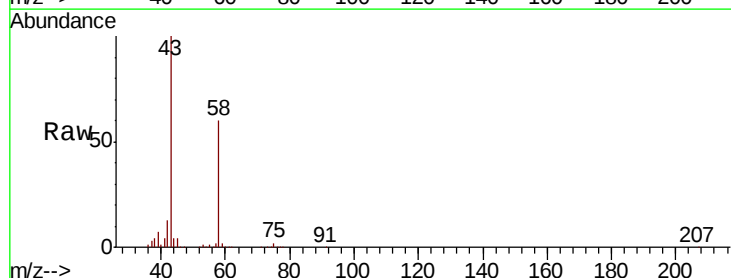
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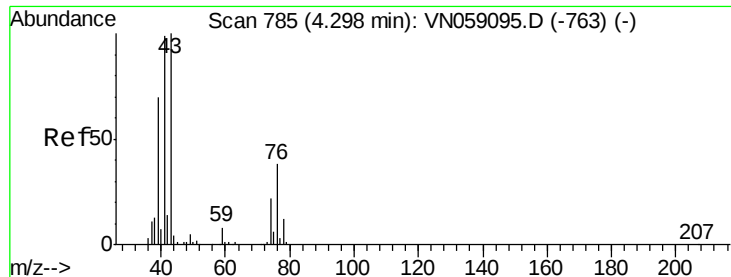


#16

Acetone
 Concen: 2957.282 ug/l
 RT: 3.79 min Scan# 626
 Delta R.T. -0.00 min
 Lab File: VN059283.D
 Acq: 18 Nov 2019 15:00

Tgt Ion: 43 Resp: 9756577
 Ion Ratio Lower Upper
 43 100
 58 59.8 24.9 37.3#





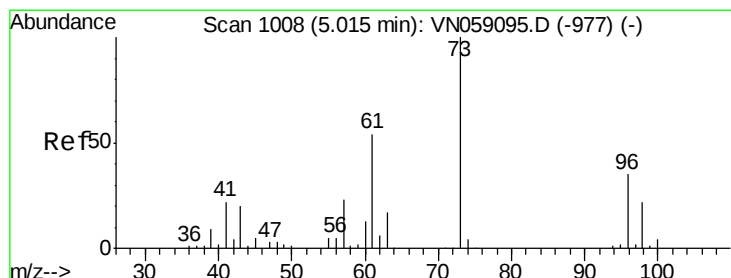
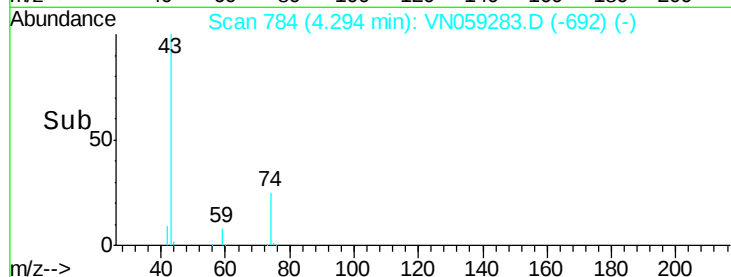
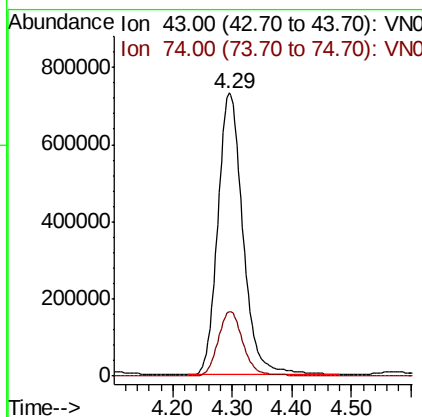
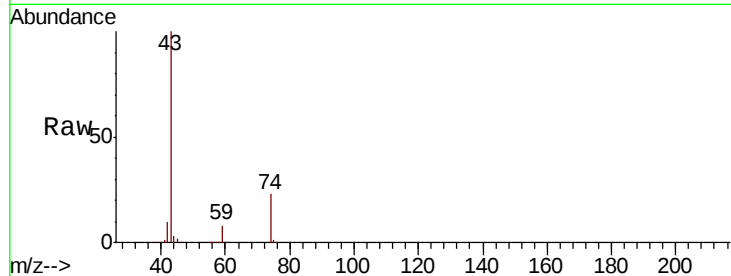
#18
Methyl Acetate
Concen: 272.798 ug/l
RT: 4.29 min Scan# 784
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampled :
30696

Tot Ion: 43 Resp: 2136248
Ion Ratio Lower Upper
43 100
74 23.2 17.8 26.8

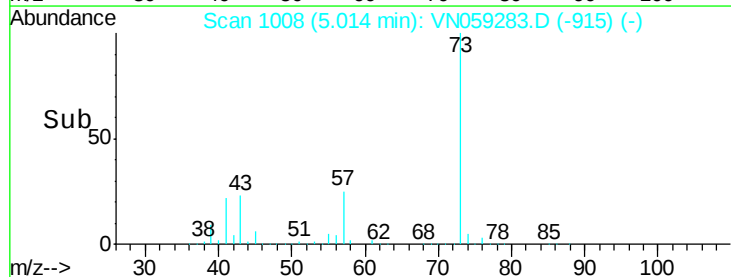
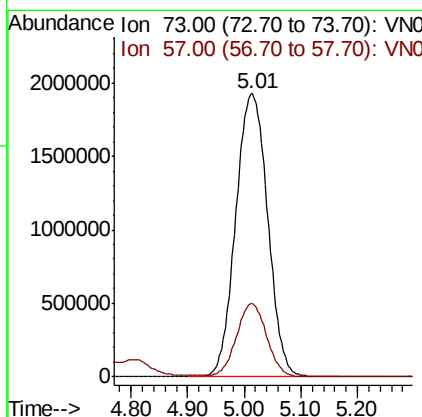
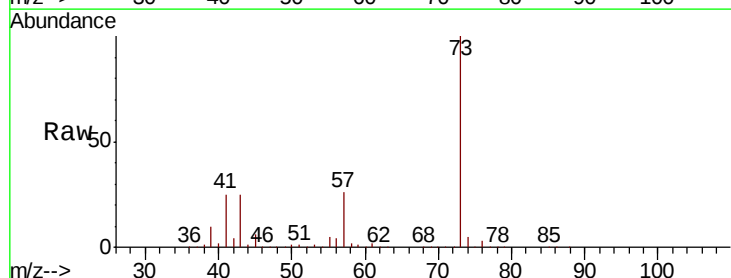
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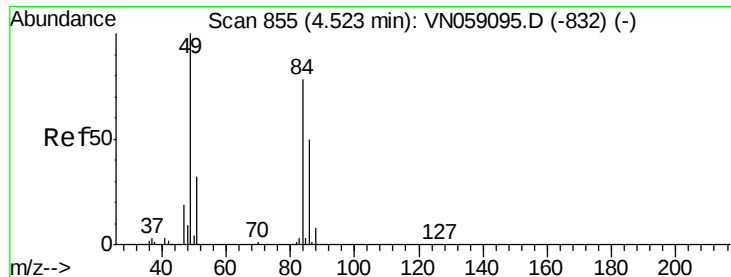
MMDADODA
11/19/2019 11:03:10 AM



#19
Methyl tert-butyl Ether
Concen: 455.451 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Tgt Ion: 73 Resp: 7549432
Ion Ratio Lower Upper
73 100
57 25.9 18.4 27.6





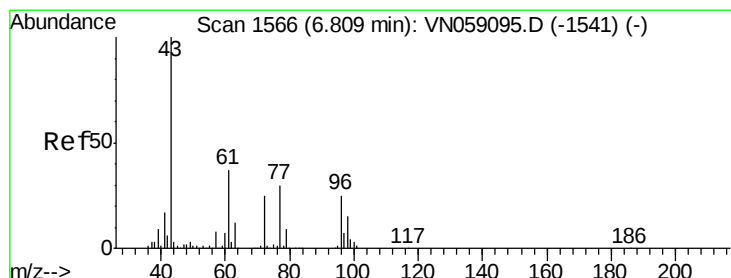
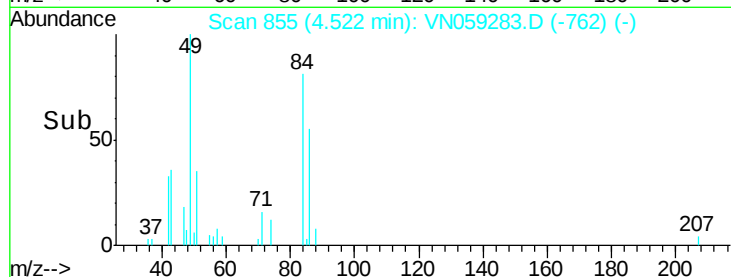
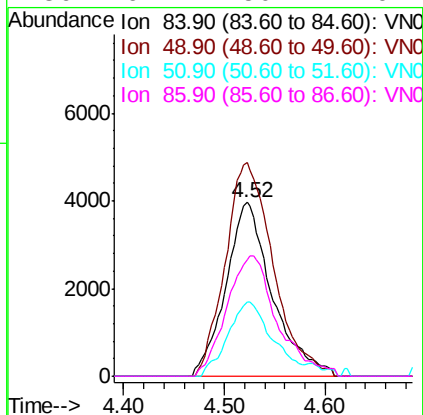
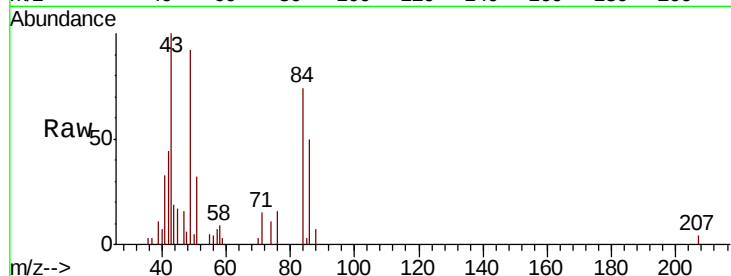
#20
Methvlene Chloride
Concen: 2.199 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampled :
30696

Tot Ion:	84	Resp:	12637
Ion	Ratio	Lower	Upper
84	100		
49	123.0	102.0	153.0
51	42.8	32.2	48.2
86	67.2	50.7	76.1

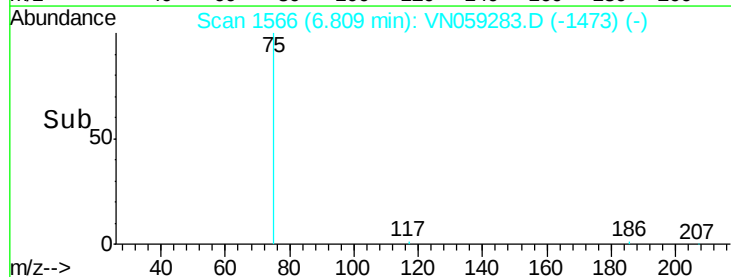
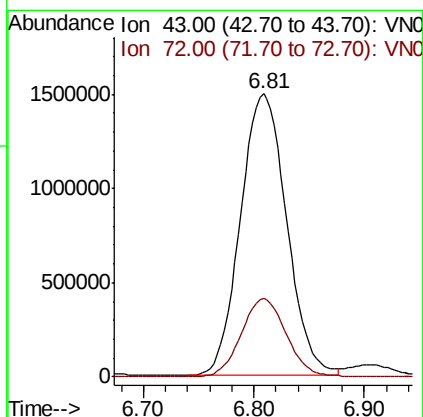
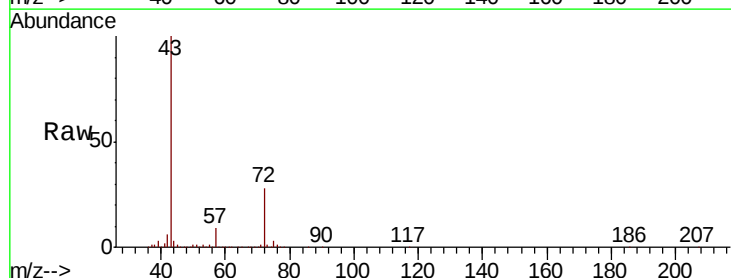
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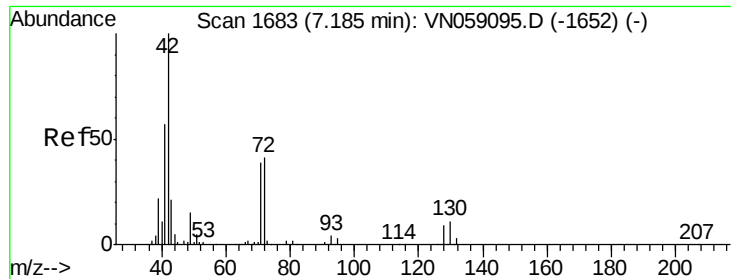
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11/19/2019 11:03:10 AM



#25
2-Butanone
Concen: 1000.310 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Tgt Ion:	43	Resp:	4349462
Ion	Ratio	Lower	Upper
43	100		
72	27.6	20.3	30.5





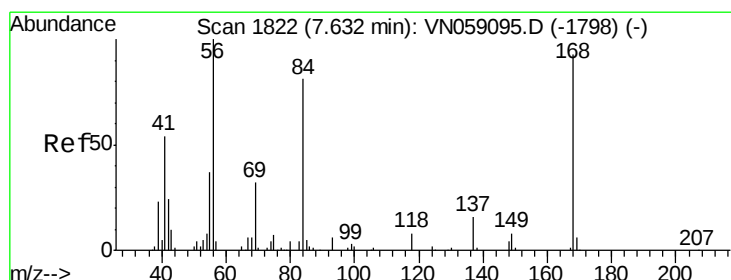
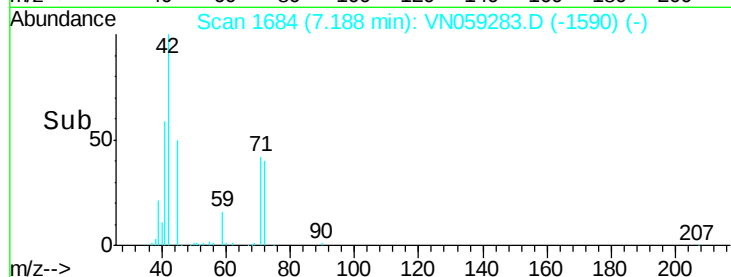
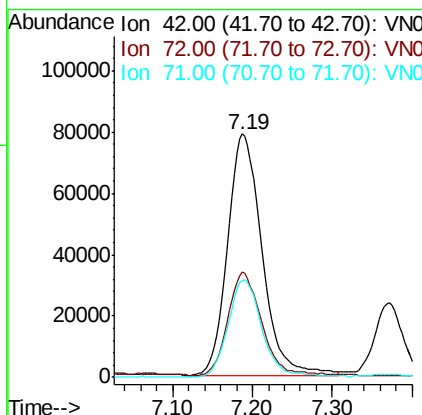
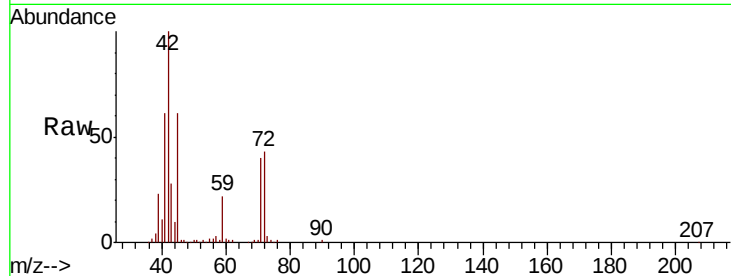
#29
Tetrahydrofuran
Concen: 83.062 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampled :
30696

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.1	49.7
71	40.5	30.9	46.3

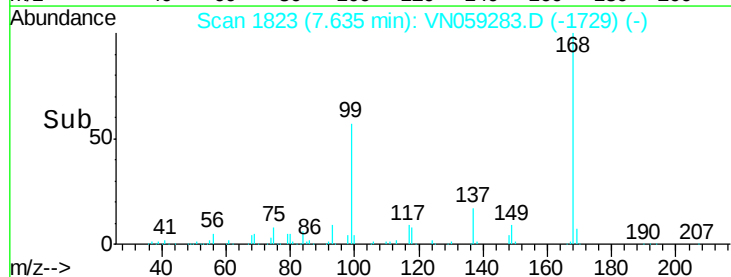
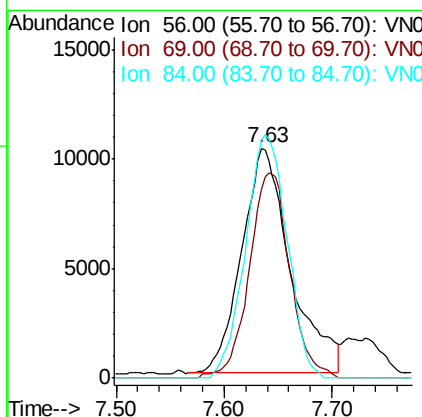
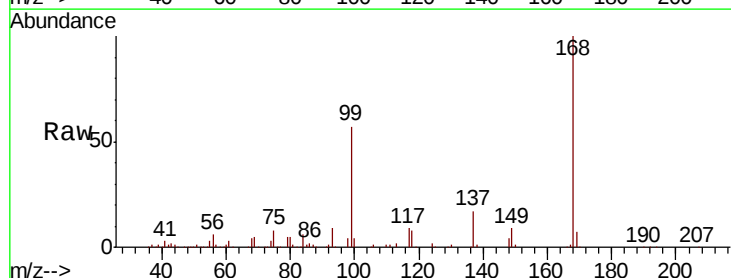
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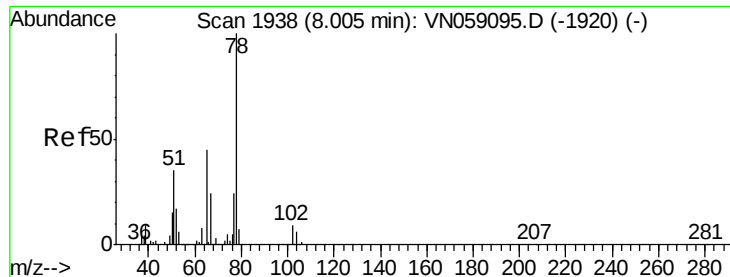
MMDADODA
11/19/2019 11:03:10 AM



#31
Cyclohexane
Concen: 3.265 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Tgt Ion	Ratio	Lower	Upper
56	100		
69	84.1	25.8	38.8#
84	105.6	65.0	97.4#





#33

1,2-Dichloroethane-d4

Concen: 44.762 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

30696

Tot Ion: 65 Resp: 283984

Ion Ratio Lower Upper

65 100

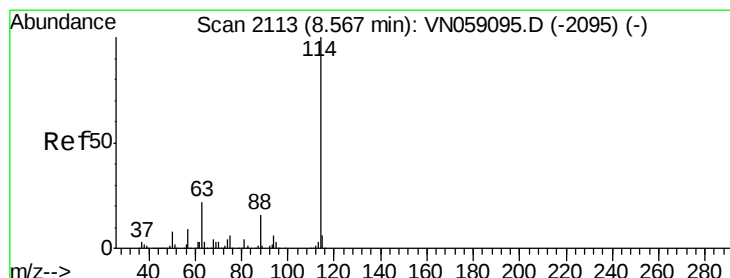
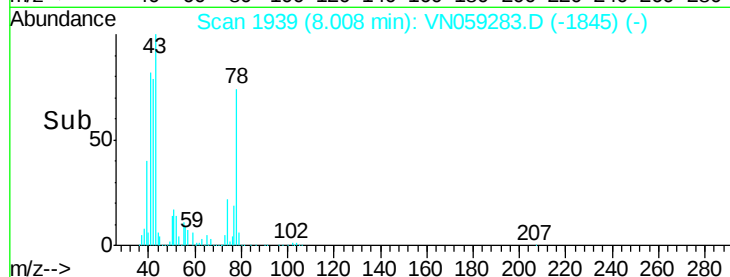
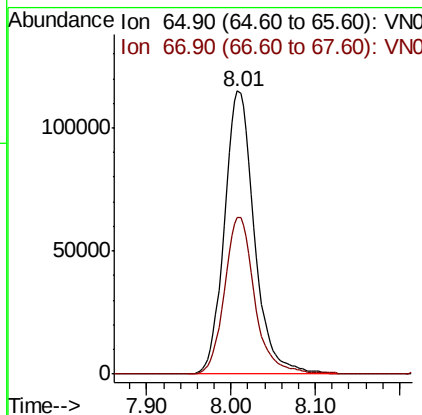
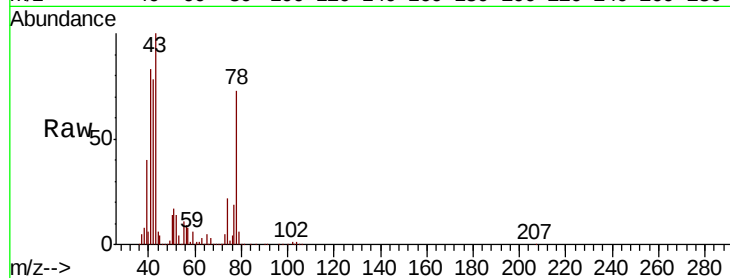
67 55.7 0.0 107.4

Manual Integrations

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MMDADODA

11/19/2019 11:03:10 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

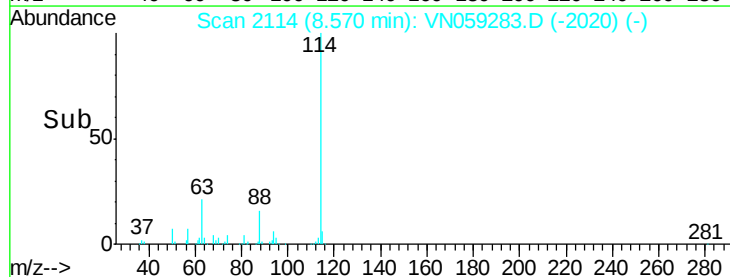
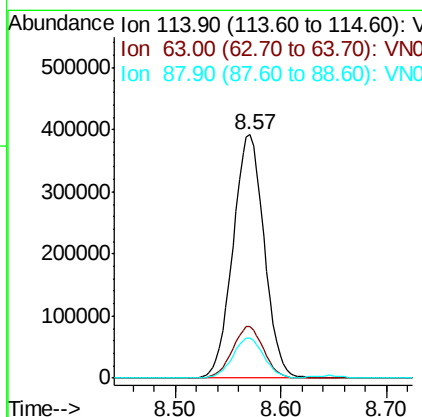
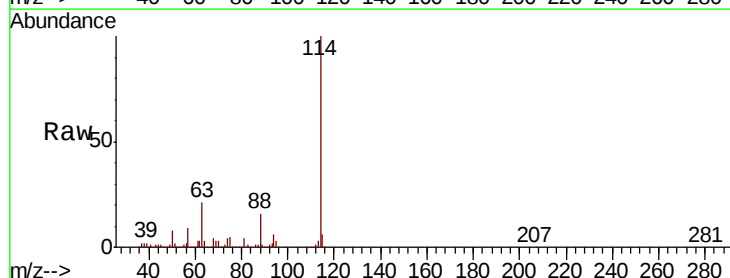
Tgt Ion: 114 Resp: 803793

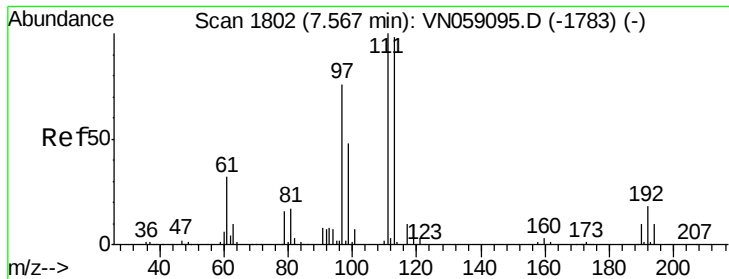
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.4

88 16.3 0.0 32.2





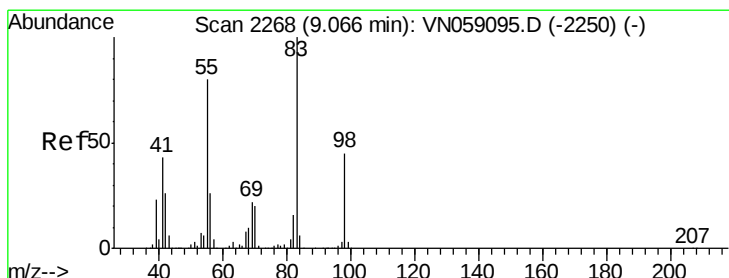
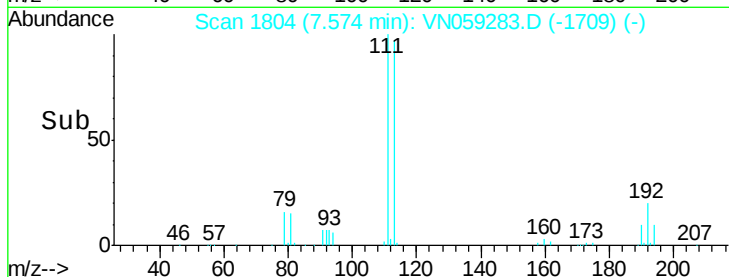
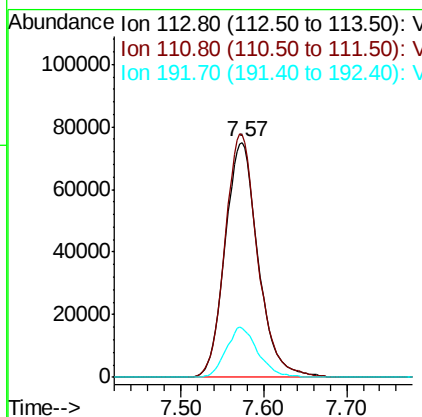
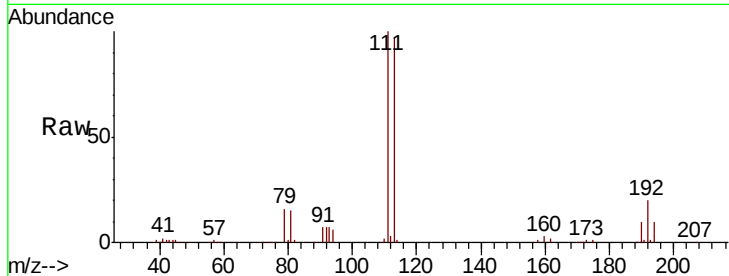
#35
Dibromofluoromethane
Concen: 43.358 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.01 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampled :
30696

Tot Ion	Ratio	Resp	Lower	Upper
113	100	208096		
111	102.0	82.8	124.2	
192	20.6	16.1	24.1	

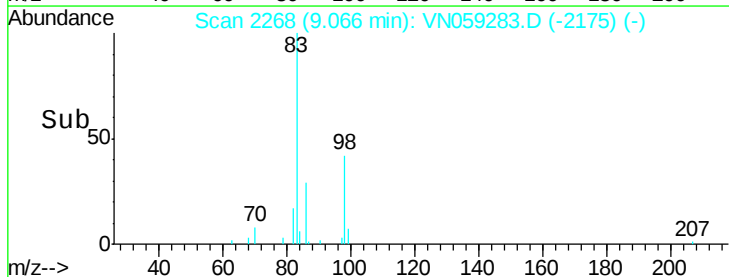
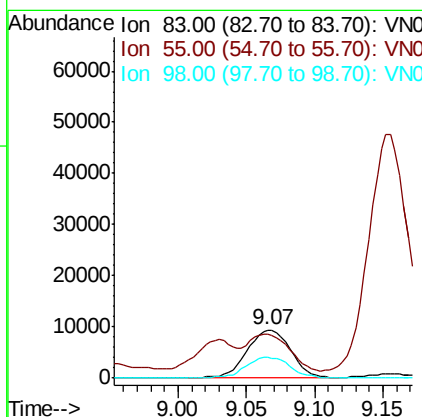
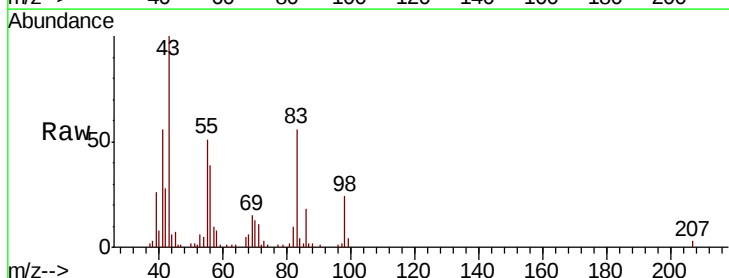
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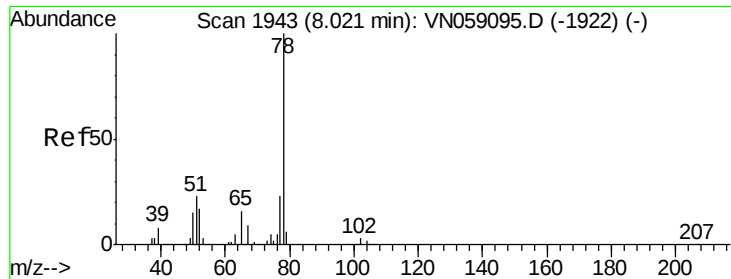
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11/19/2019 11:03:10 AM



#39
Methylcyclohexane
Concen: 2.403 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	20949		
55	66.6	63.9	95.9	
98	42.2	35.6	53.4	





#40

Benzene

Concen: 286.888 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

30696

Tot Ion: 78 Resp: 6490747

Ion Ratio Lower Upper

78 100

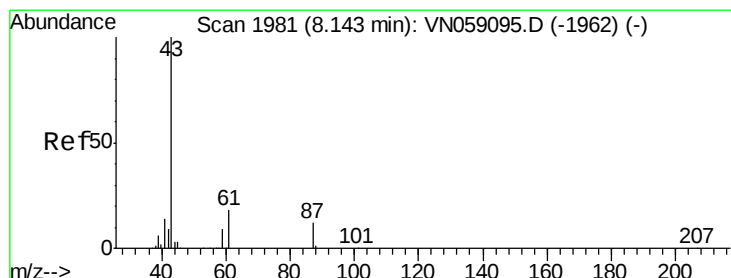
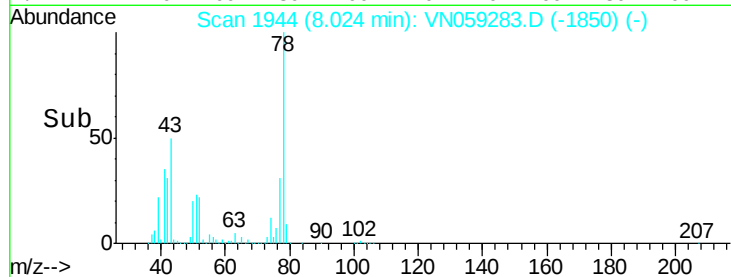
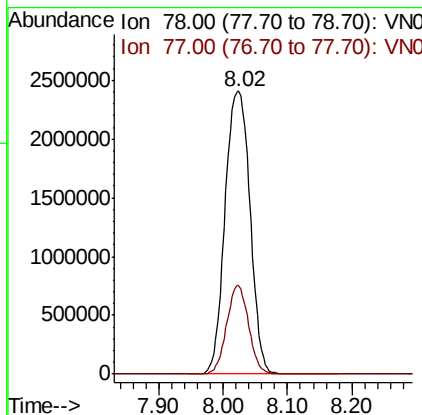
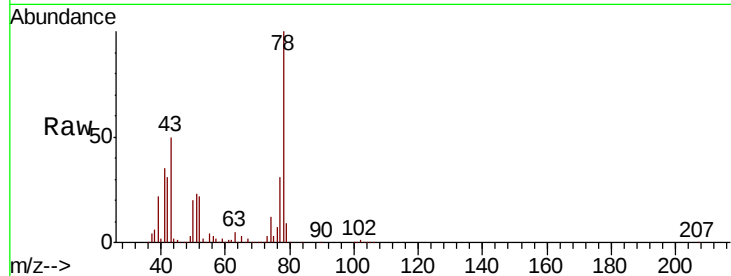
77 31.3 18.8 28.2#

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#43

Isopropyl Acetate

Concen: 16.161 ug/l m

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

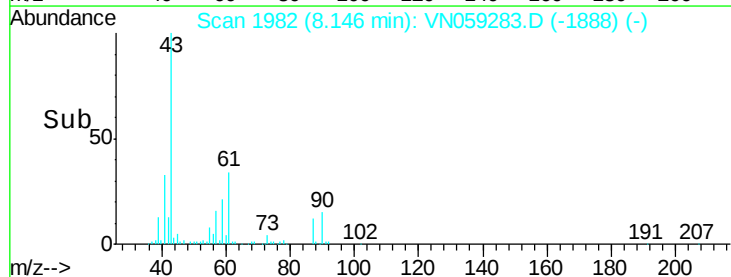
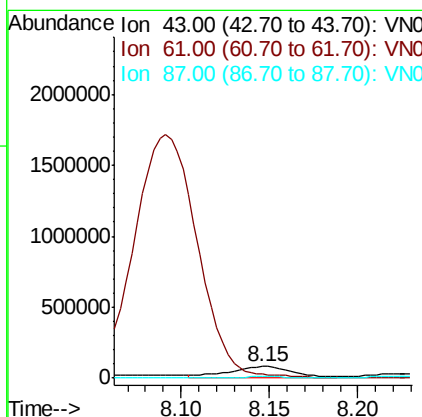
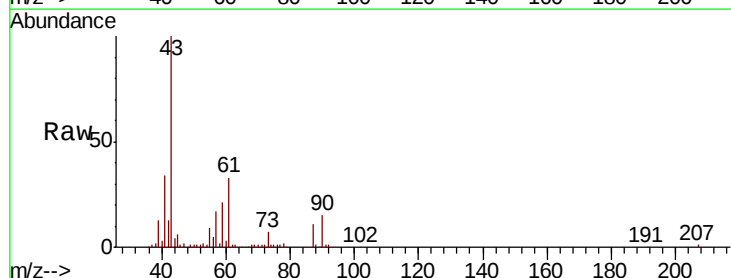
Tgt Ion: 43 Resp: 215345

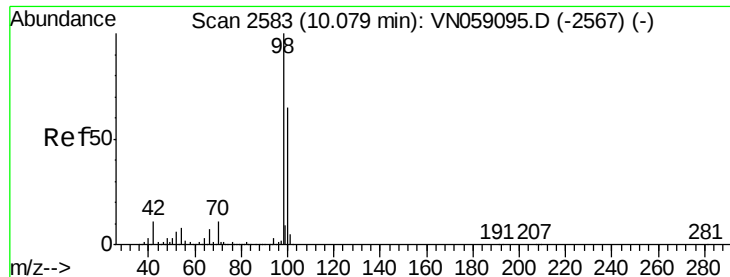
Ion Ratio Lower Upper

43 100

61 0.0 21.0 31.6#

87 0.0 9.8 14.6#





#50

Toluene-d8

Concen: 51.844 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

30696

Tot Ion: 98 Resp: 980085

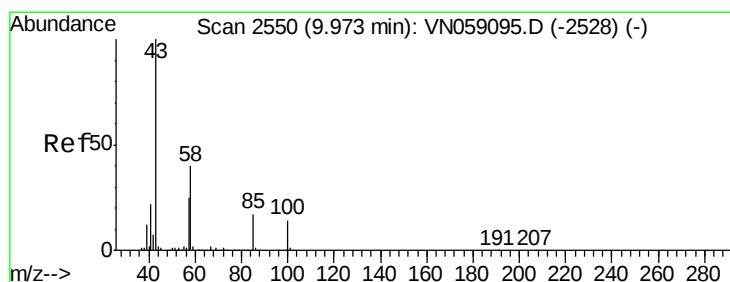
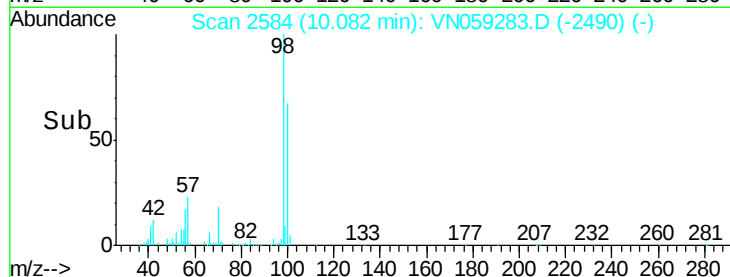
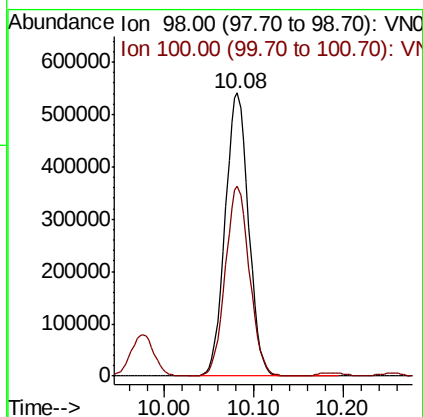
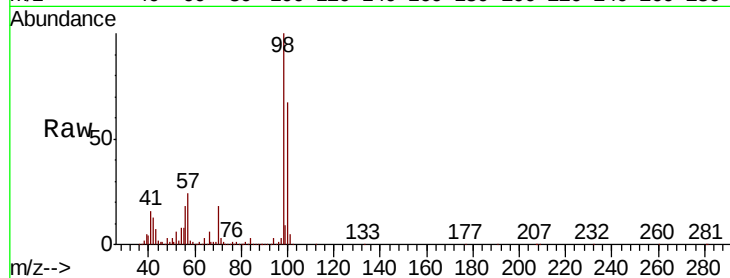
Ion Ratio Lower Upper

98 100

100 69.7 52.2 78.2

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#51

4-Methyl-2-Pentanone

Concen: 128.573 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059283.D

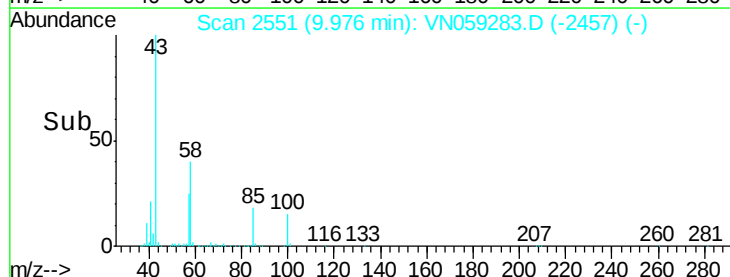
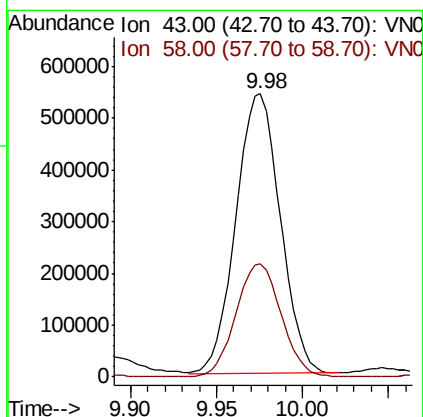
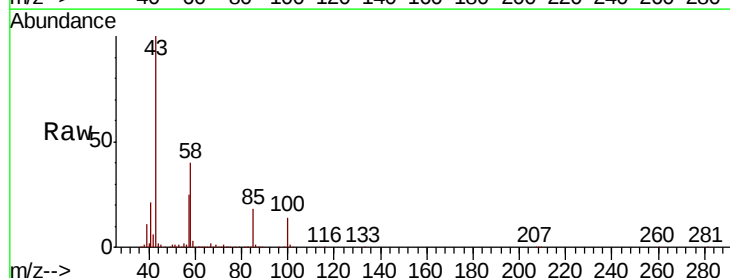
Acq: 18 Nov 2019 15:00

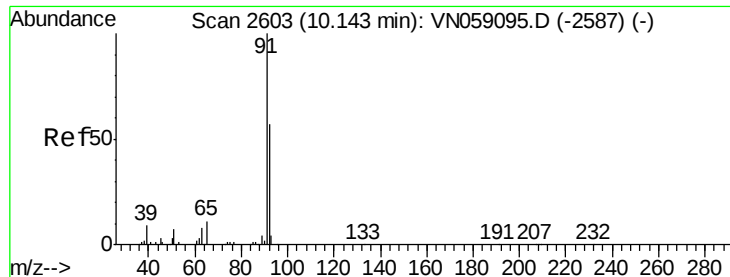
Tgt Ion: 43 Resp: 969391

Ion Ratio Lower Upper

43 100

58 41.2 31.5 47.3





#52

Toluene

Concen: 428.203 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

30696

Tot Ion: 92 Resp: 5806671

Ion Ratio Lower Upper

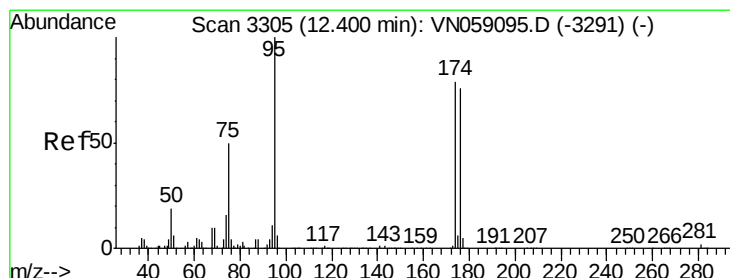
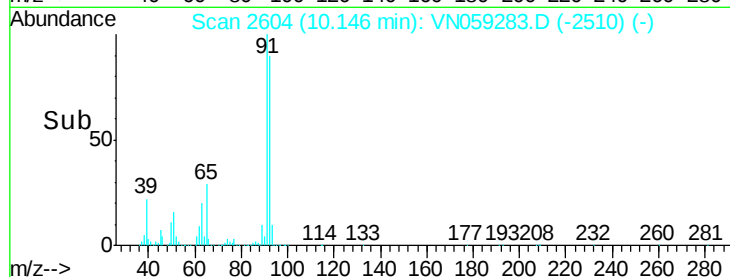
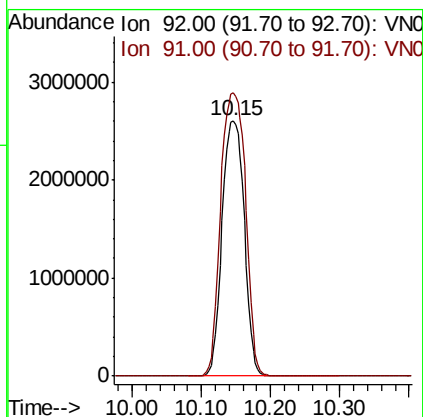
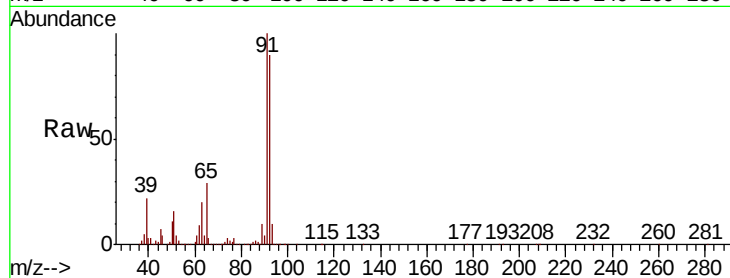
92 100

91 125.0 139.5 209.3#

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#62

4-Bromofluorobenzene

Concen: 49.865 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

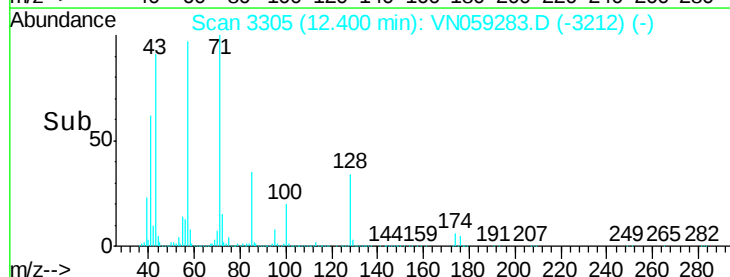
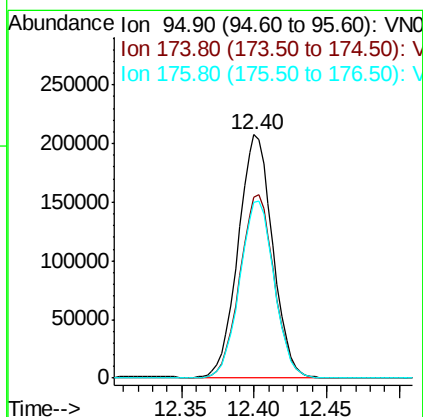
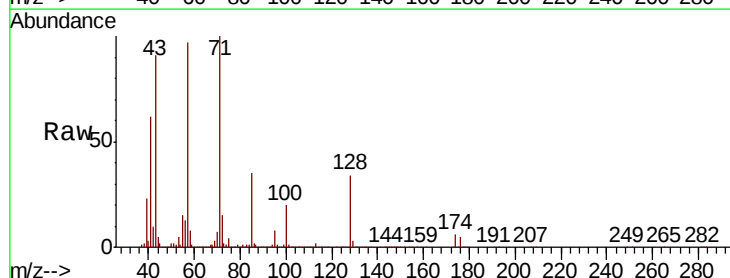
Tgt Ion: 95 Resp: 339893

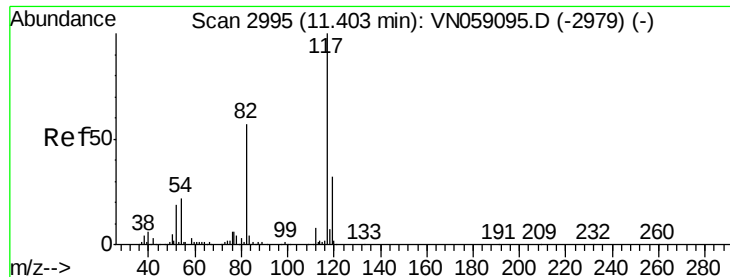
Ion Ratio Lower Upper

95 100

174 75.6 0.0 158.2

176 73.2 0.0 151.8





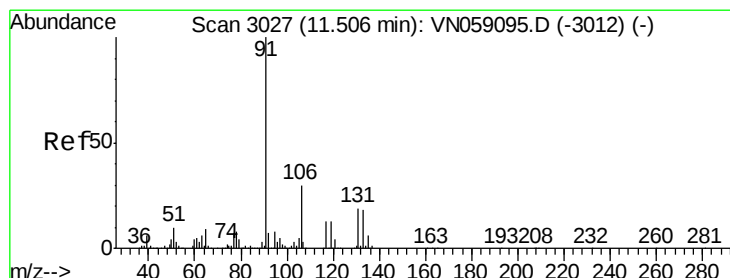
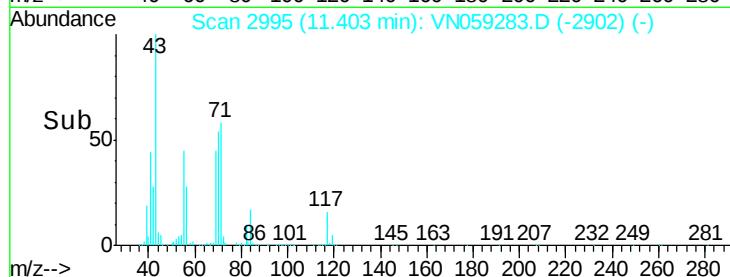
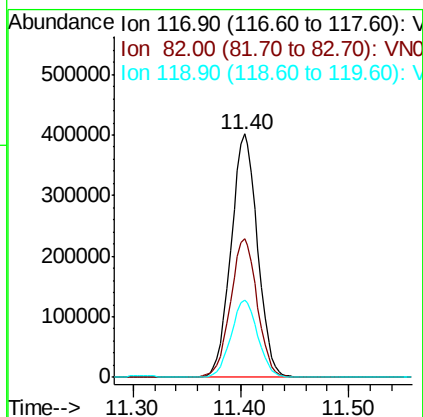
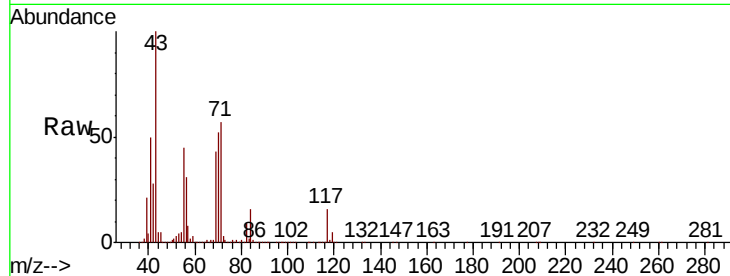
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampled :
30696

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.8	68.8
119	32.0	25.8	38.6

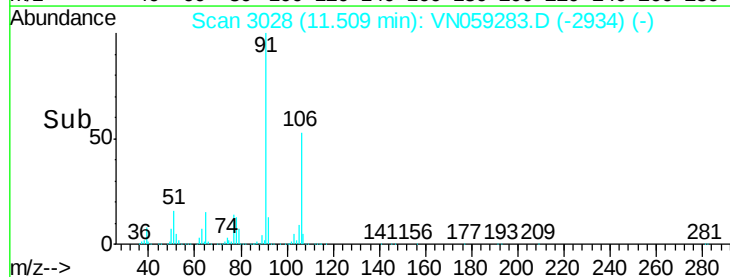
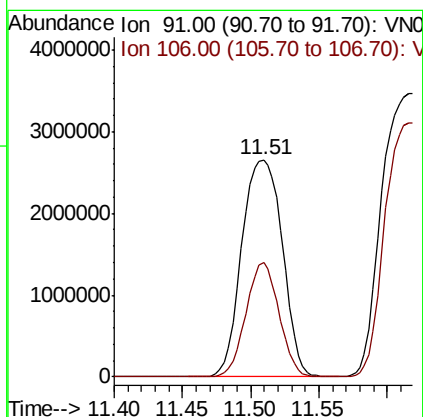
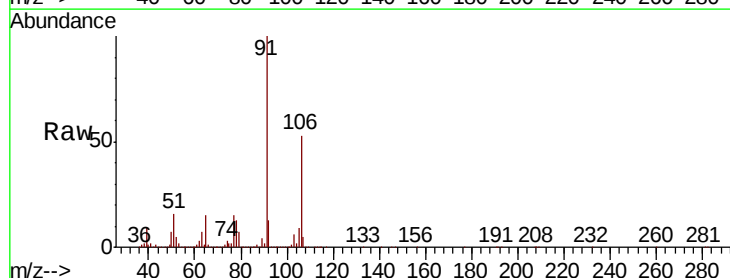
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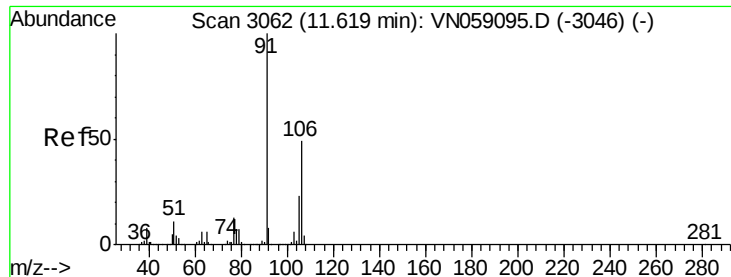
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#67
Ethyl Benzene
Concen: 230.709 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	52.7	24.1	36.1





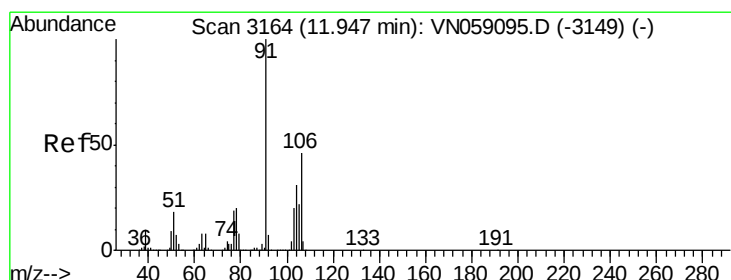
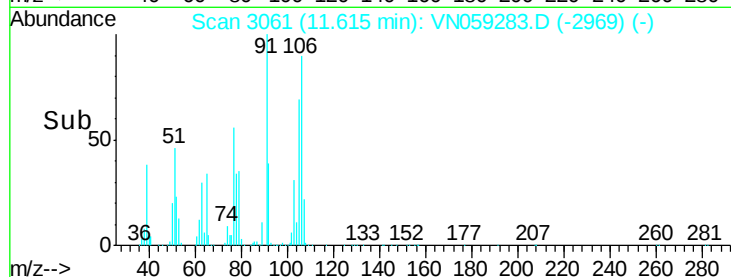
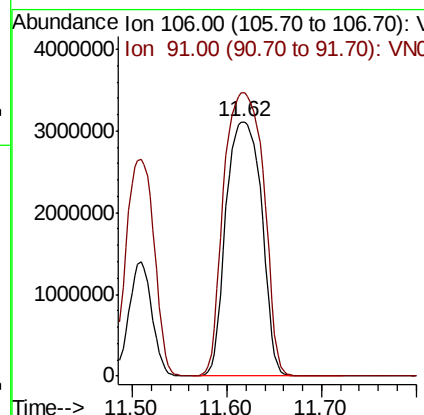
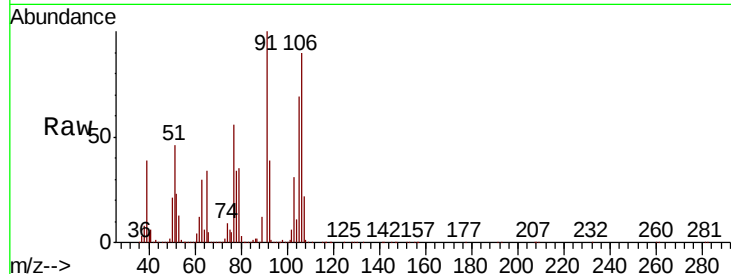
#68
m/p-Xylenes
Concen: 914.039 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampleId :
30696

Tot Ion:106 Resp: 8140798
Ion Ratio Lower Upper
106 100
91 124.8 164.7 247.1#

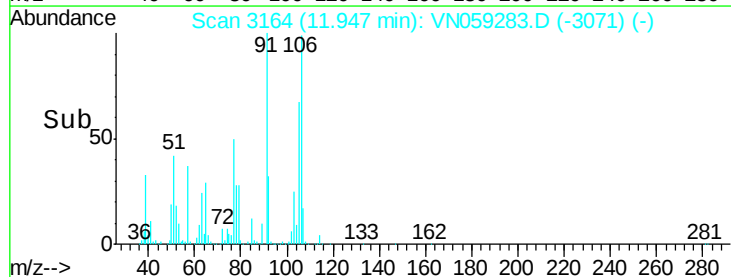
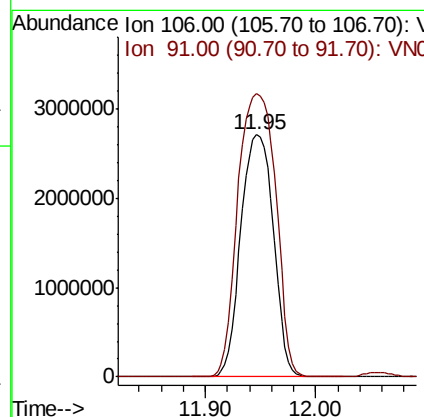
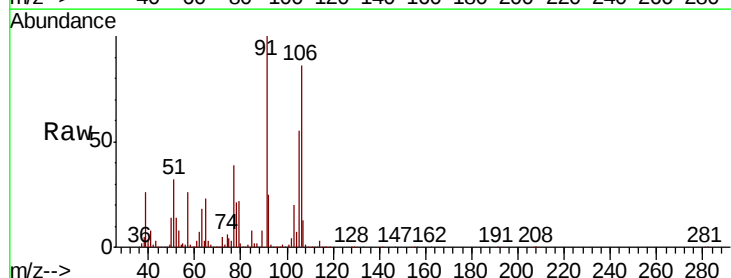
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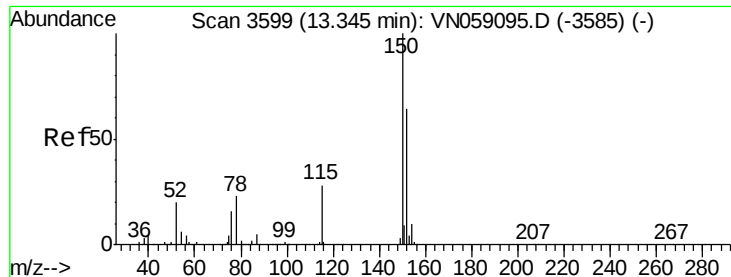
MMDADODA
11/19/2019 11:03:10 AM



#69
o-Xylene
Concen: 645.021 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Tgt Ion:106 Resp: 5551789
Ion Ratio Lower Upper
106 100
91 136.7 110.1 330.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.01 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

30696

Tot Ion:152 Resp: 477162

Ion Ratio Lower Upper

152 100

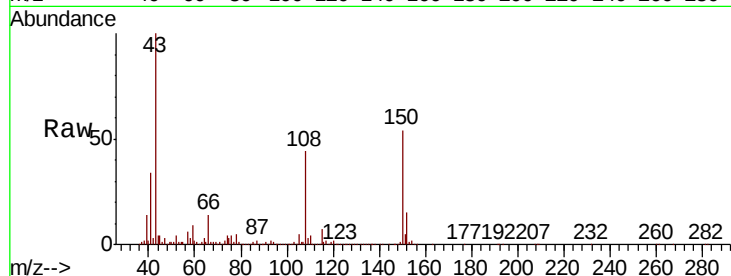
115 37.4 29.4 88.2

150 496.9 0.0 345.8#

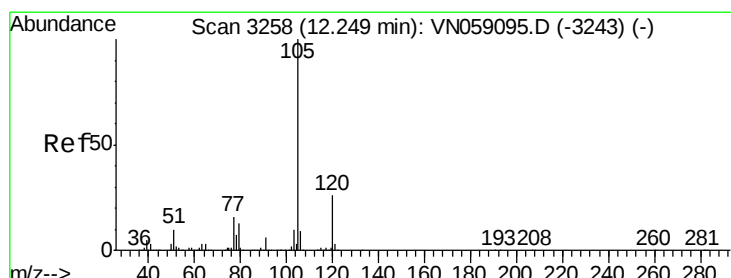
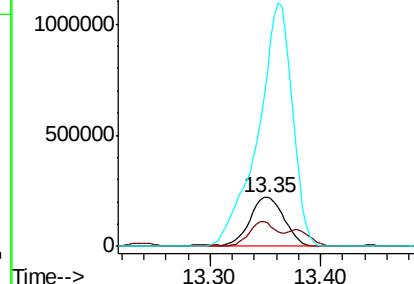
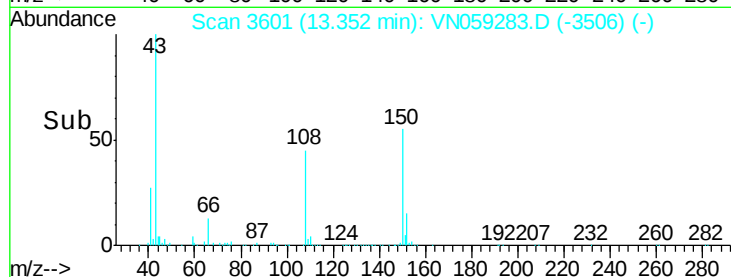
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Abundance Ion 151.90 (151.60 to 152.60): V
1500000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 7.378 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059283.D

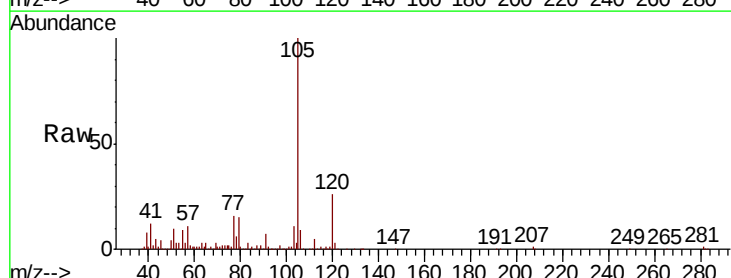
Acq: 18 Nov 2019 15:00

Tgt Ion:105 Resp: 256089

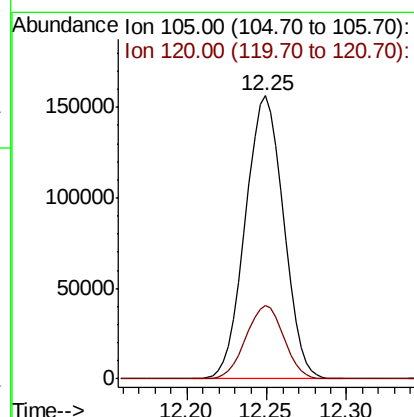
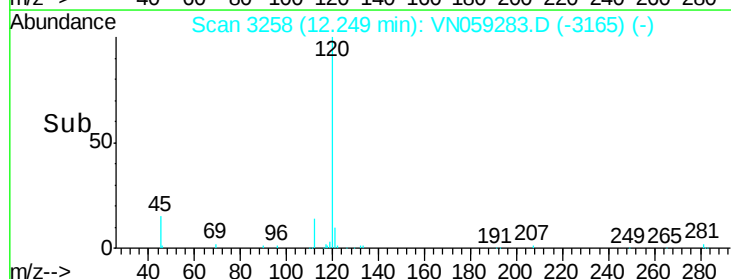
Ion Ratio Lower Upper

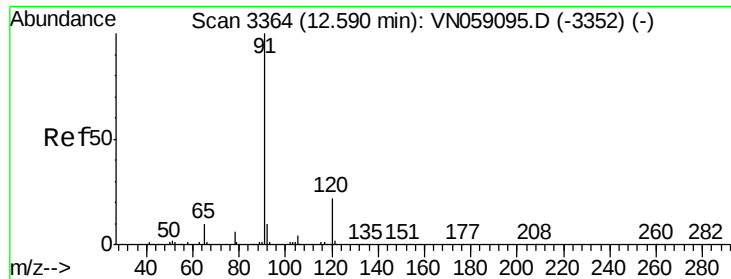
105 100

120 25.8 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V
150000 Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.347 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

30696

Tot Ion: 91 Resp: 212500

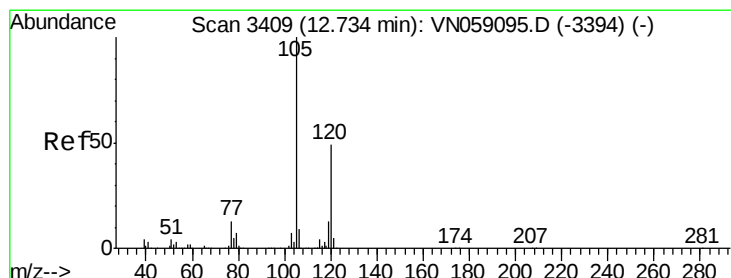
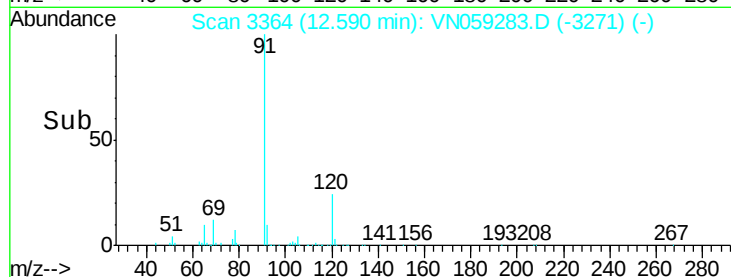
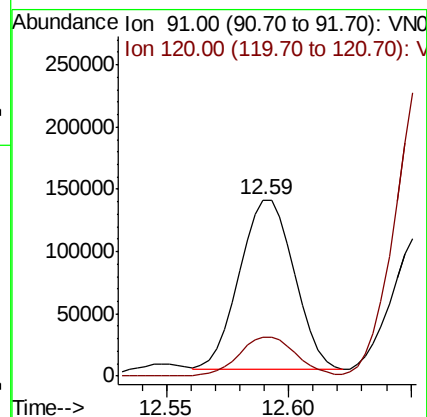
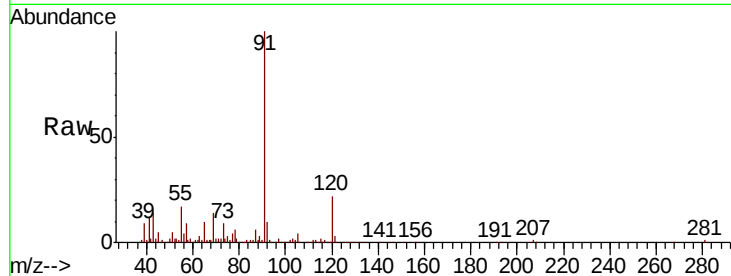
Ion Ratio Lower Upper

91 100

120 24.3 11.2 33.5

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#80

1,3,5-Trimethylbenzene

Concen: 55.990 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059283.D

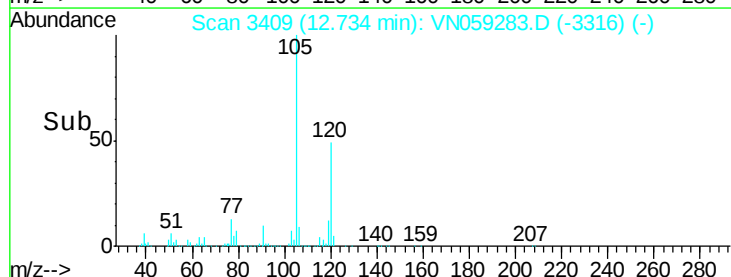
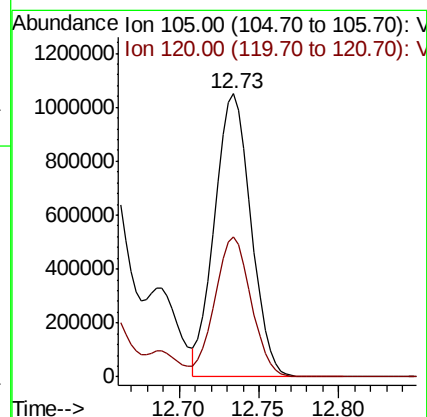
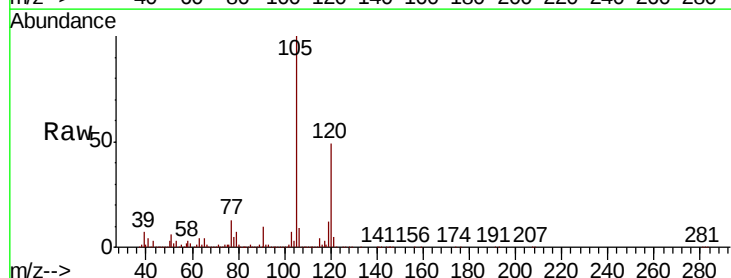
Acq: 18 Nov 2019 15:00

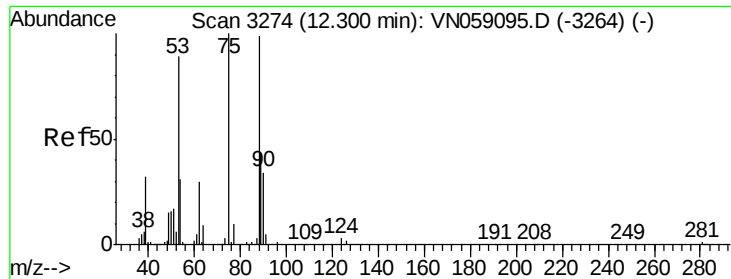
Tgt Ion: 105 Resp: 1646712

Ion Ratio Lower Upper

105 100

120 49.5 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 9.008 ug/l

RT: 12.29 min Scan# 3272

Delta R.T. -0.01 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

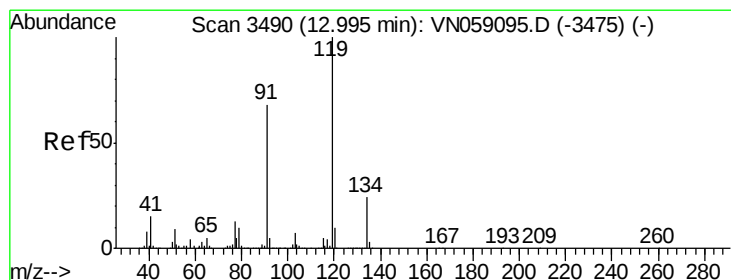
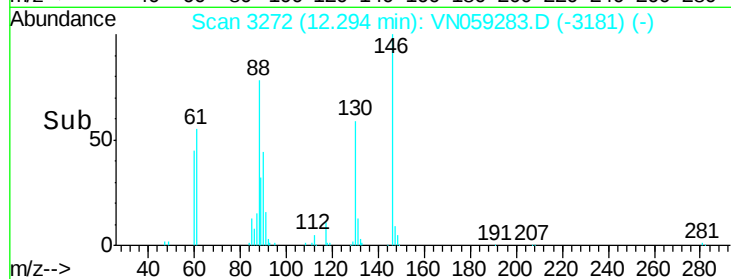
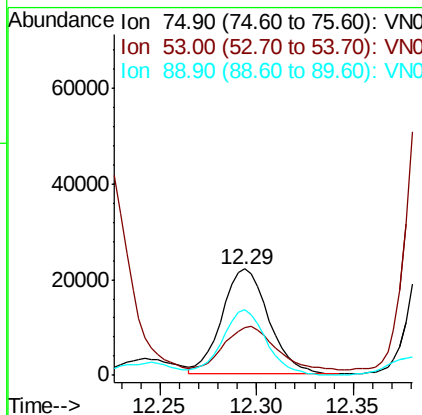
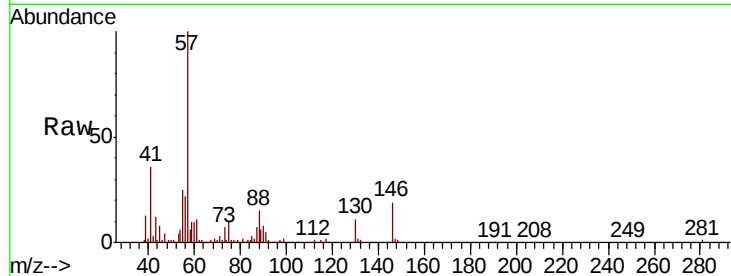
ClientSampleId :

30696

Tot Ion:	75	Resp:	37049
Ion Ratio	Lower	Upper	
75	100		
53	44.8	72.2	108.2#
89	58.0	35.8	53.8#

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#83

tert-Butylbenzene

Concen: 2.545 ug/l

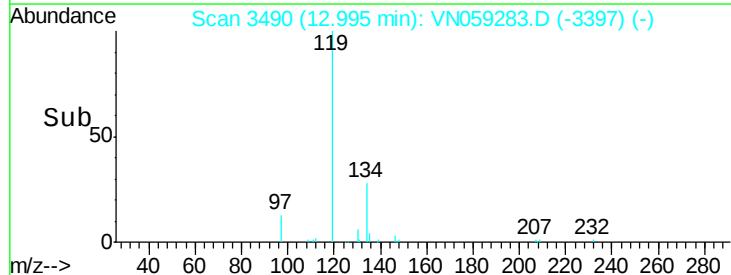
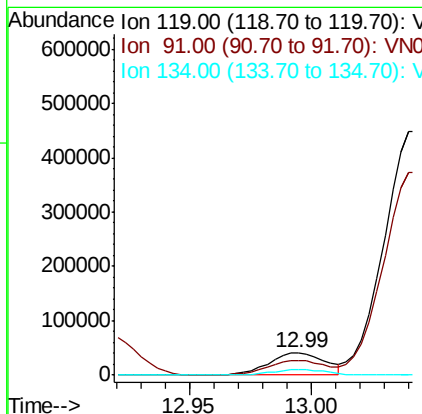
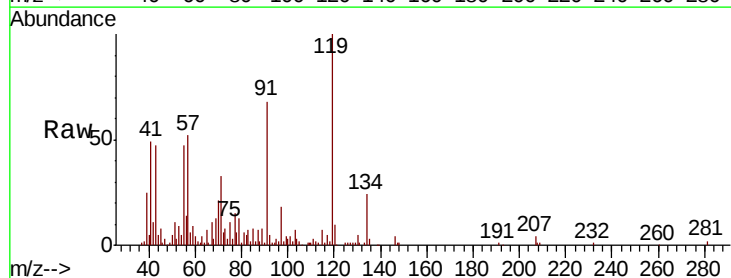
RT: 12.99 min Scan# 3490

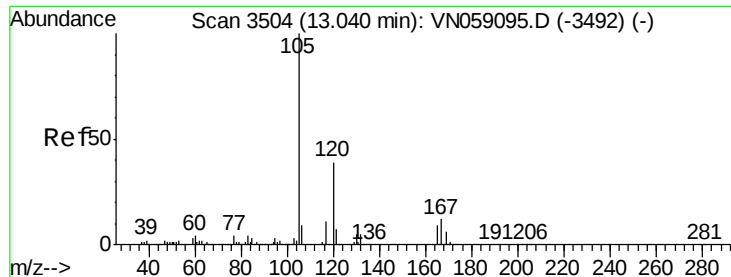
Delta R.T. -0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Tgt Ion:	119	Resp:	64635
Ion Ratio	Lower	Upper	
119	100		
91	67.3	33.2	99.6
134	25.1	12.7	38.1





#84

1,2,4-Trimethylbenzene

Concen: 165.634 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059283.D

Acq: 18 Nov 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

30696

Tot Ion:105 Resp: 4713075

Ion Ratio Lower Upper

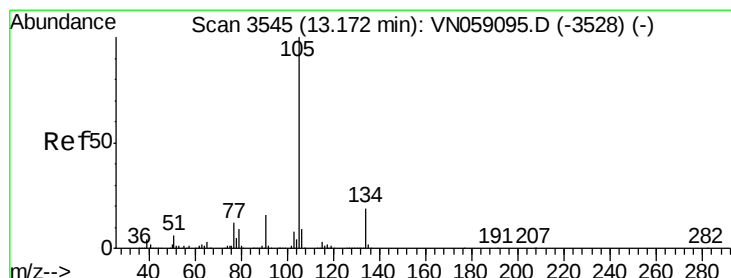
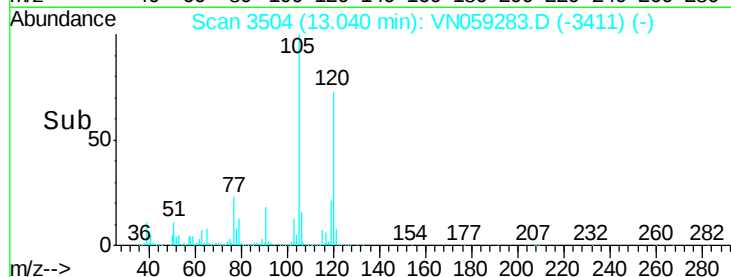
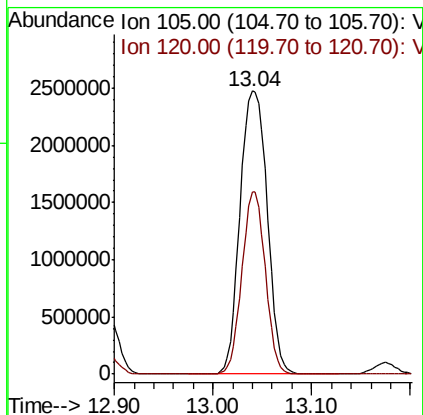
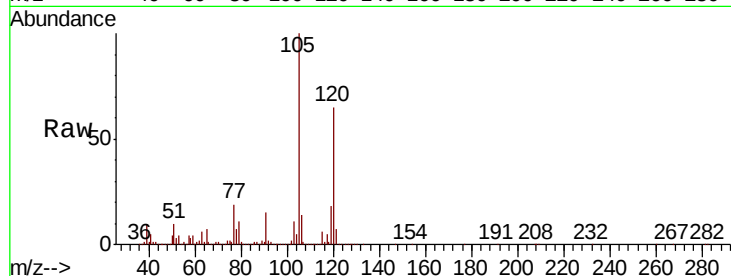
105 100

120 55.6 22.8 68.4

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#85

sec-Butylbenzene

Concen: 4.936 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059283.D

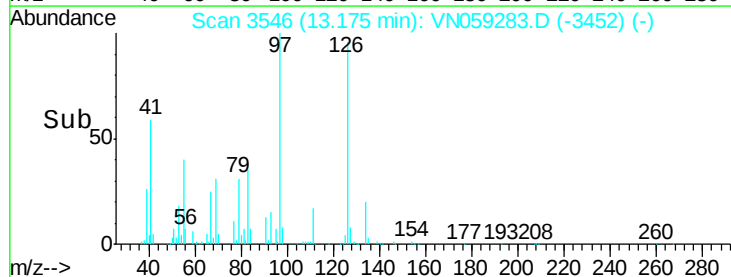
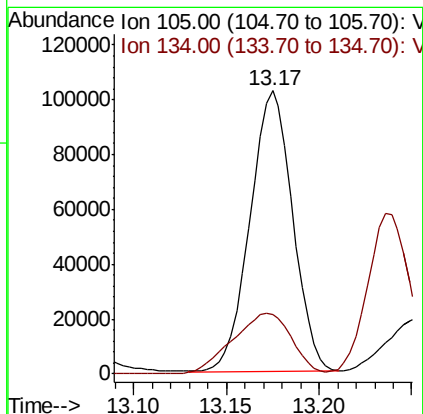
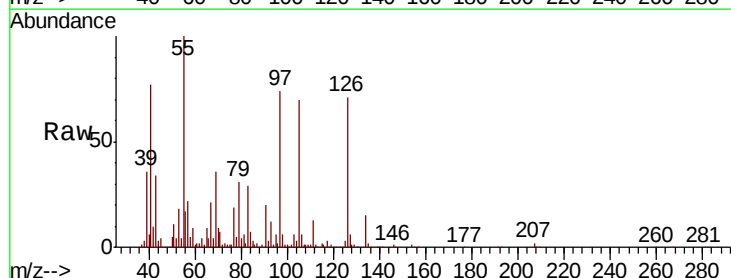
Acq: 18 Nov 2019 15:00

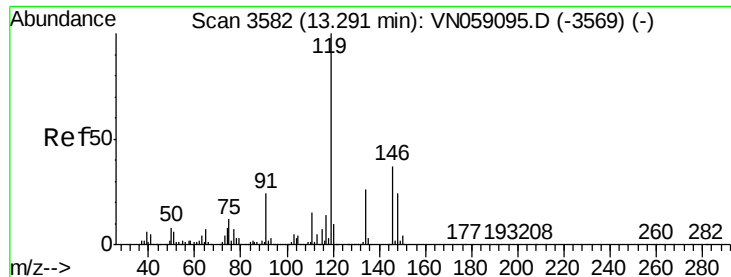
Tgt Ion:105 Resp: 163032

Ion Ratio Lower Upper

105 100

134 29.9 9.7 29.1#





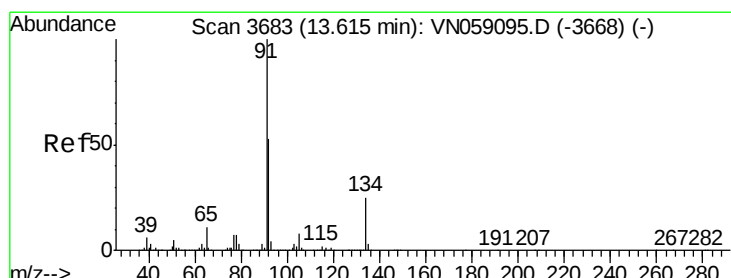
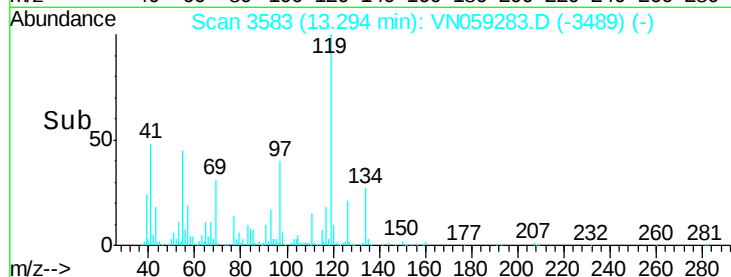
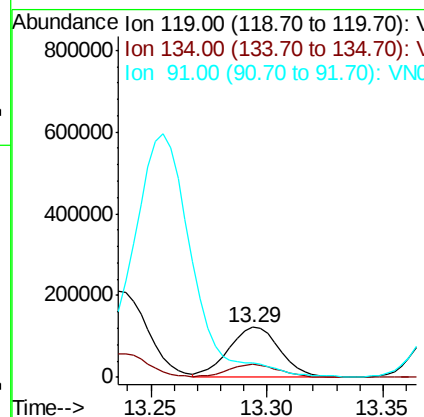
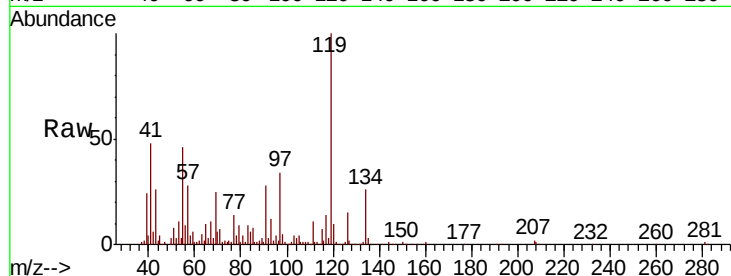
#86
 p-Isopropyltoluene
 Concen: 6.434 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN059283.D
 Acq: 18 Nov 2019 15:00

Instrument :
 MSVOA_N
 ClientSampleId :
 30696

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	0.0	11.7	35.1#

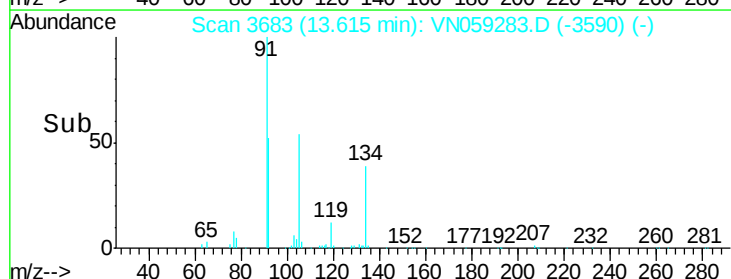
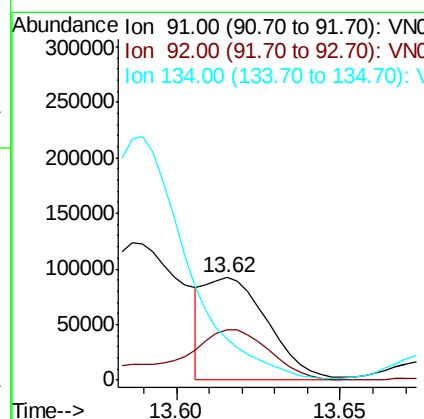
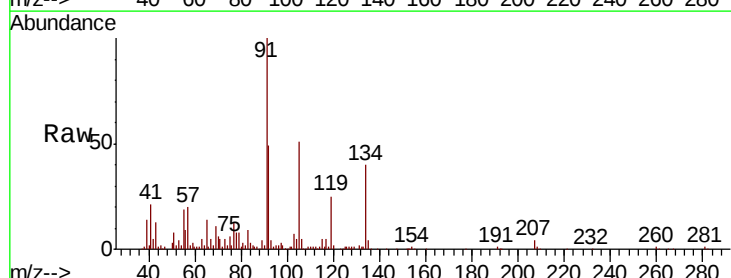
Manual Integrations
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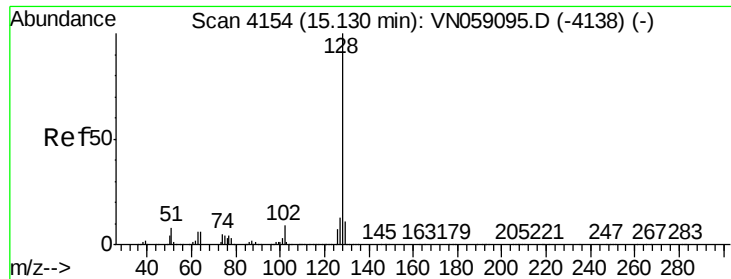
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#89
 n-Butylbenzene
 Concen: 4.876 ug/l m
 RT: 13.62 min Scan# 3683
 Delta R.T. -0.00 min
 Lab File: VN059283.D
 Acq: 18 Nov 2019 15:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.1	78.3#
134	326.3	12.6	37.8#





#95
Naphthalene
Concen: 28.379 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059283.D
Acq: 18 Nov 2019 15:00

Instrument :
MSVOA_N
ClientSampleId :
30696

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.4	8.6	12.8

Manual Integrations
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MMDADODA
11/19/2019 11:03:10 AM

