

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059291.D
 Acq On : 18 Nov 2019 17:56
 Operator : JC/SP
 Sample : K5900-12 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30700

Manual Integrations
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MMDADODA
 11/19/2019 11:03:41 AM

Quant Time: Nov 19 08:46:17 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	469088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	731460	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	642240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	342840	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	265360	46.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.04%	
35) Dibromofluoromethane	7.57	113	216276	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	10.08	98	889426	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
62) 4-Bromofluorobenzene	12.40	95	317425	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.39	74	41234	13.621	ug/l	97
16) Acetone	3.79	43	968503	322.986	ug/l	98
18) Methyl Acetate	4.30	43	219689	30.866	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	1135010	75.338	ug/l	98
25) 2-Butanone	6.81	43	257999	65.284	ug/l	98
29) Tetrahydrofuran	7.19	42	20400	8.124	ug/l	93
39) Methylcyclohexane	9.06	83	22710	2.862	ug/l	95
40) Benzene	8.02	78	2142320	104.053	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	64150	9.350	ug/l	96
52) Toluene	10.15	92	1914109	155.111	ug/l	93
67) Ethyl Benzene	11.51	91	1813668	81.649	ug/l	98
68) m/p-Xylenes	11.62	106	3179757	382.151	ug/l	76
69) o-Xylene	11.94	106	1484277	184.586	ug/l	91
73) Isopropylbenzene	12.25	105	54050	2.167	ug/l	99
78) n-propylbenzene	12.59	91	58661	2.054	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	265150	12.548	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.29	75	58815	19.903	ug/l #	42
84) 1,2,4-Trimethylbenzene	13.04	105	1126576	55.104	ug/l	99
85) sec-Butylbenzene	13.17	105	29175m	1.229	ug/l	
89) n-Butylbenzene	13.61	91	32122m	1.751	ug/l	
95) Naphthalene	15.13	128	151892	11.074	ug/l	99

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

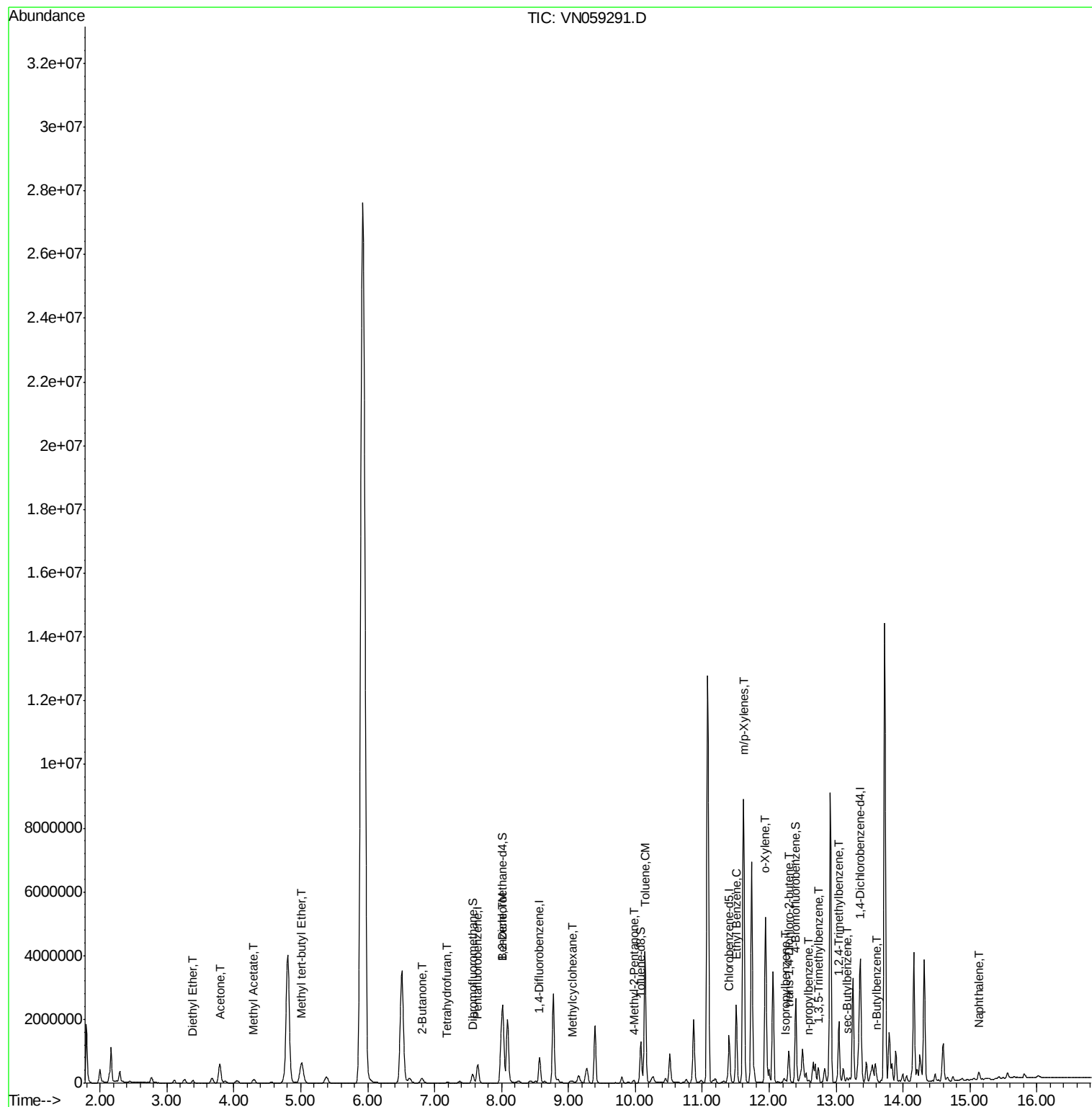
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
Data File : VN059291.D
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Operator : JC/SP
Sample : K5900-12 5X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

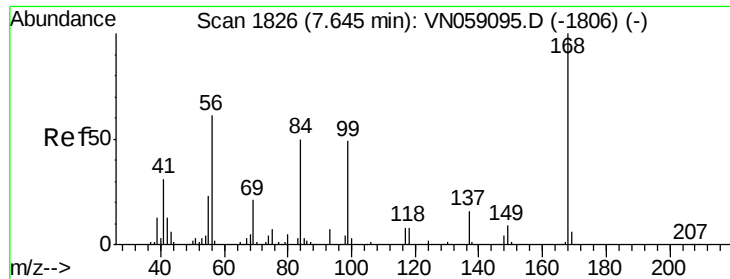
Instrument :
MSVOA_N
ClientSampleId :
30700

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11/19/2019 11:03:41 AM

Quant Time: Nov 19 08:46:17 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: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

30700

Tot Ion:168 Resp: 469088

Ion Ratio Lower Upper

168 100

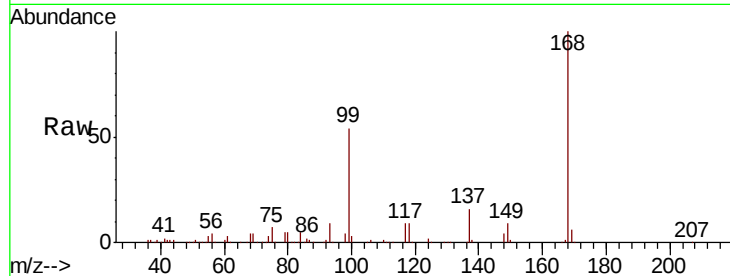
99 54.5 45.7 68.5

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

7.64

200000

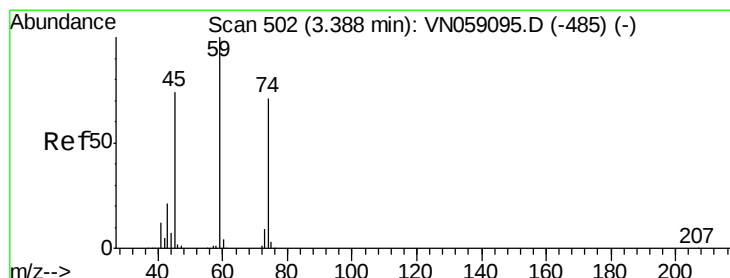
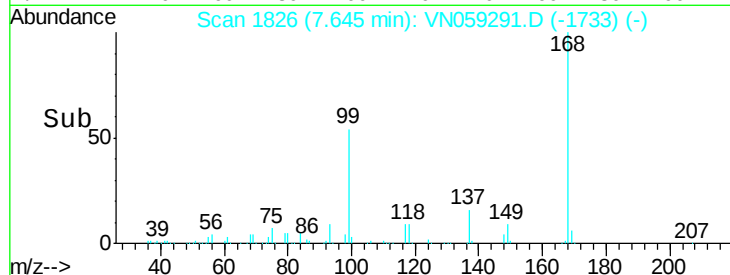
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#8

Diethyl Ether

Concen: 13.621 ug/l

RT: 3.39 min Scan# 502

Delta R.T. -0.00 min

Lab File: VN059291.D

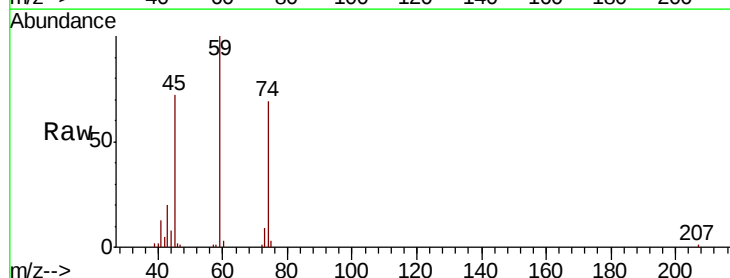
Acq: 18 Nov 2019 17:56

Tgt Ion: 74 Resp: 41234

Ion Ratio Lower Upper

74 100

45 100.3 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.39

60000

50000

40000

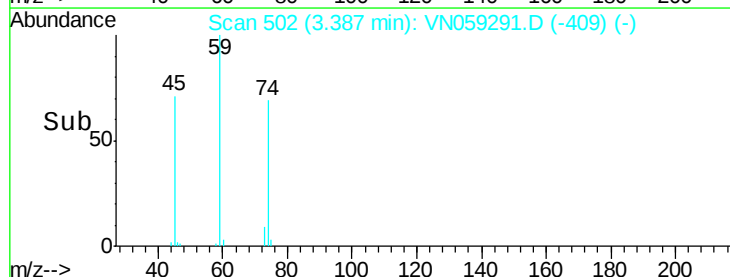
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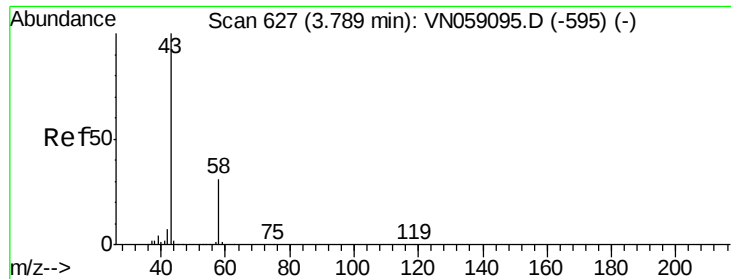
20000

10000

0

Time--> 3.30 3.35 3.40 3.45 3.50





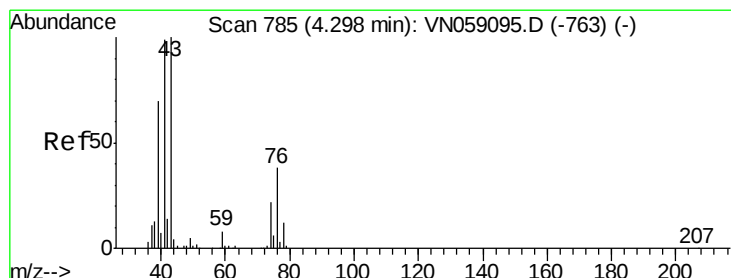
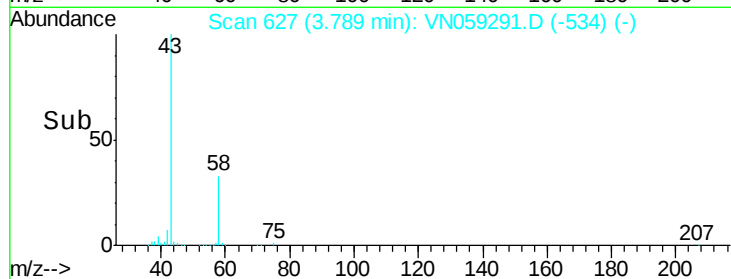
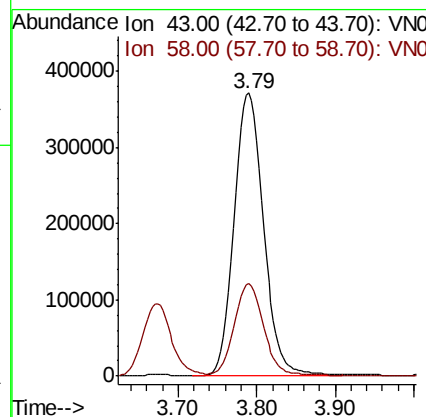
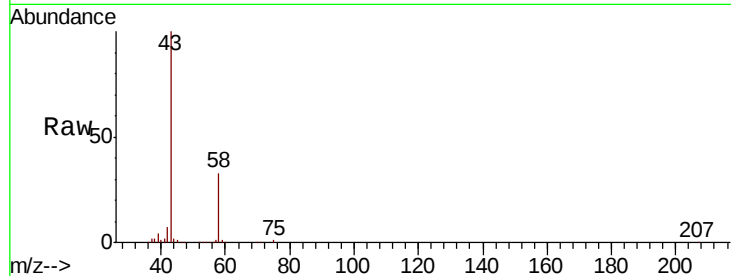
#16
Acetone
Concen: 322.986 ug/l
RT: 3.79 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Instrument :
MSVOA_N
ClientSampled :
30700

Tot Ion	43	Resp	968503
Ion Ratio	Lower	Upper	
43	100		
58	32.4	24.9	37.3

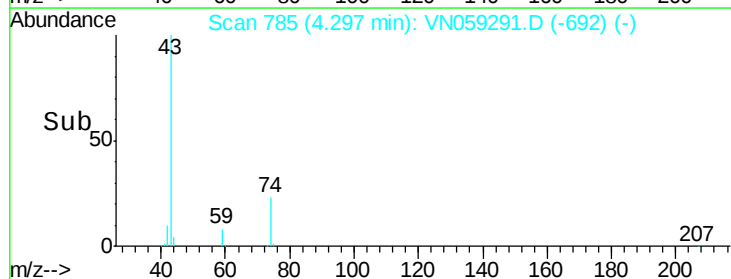
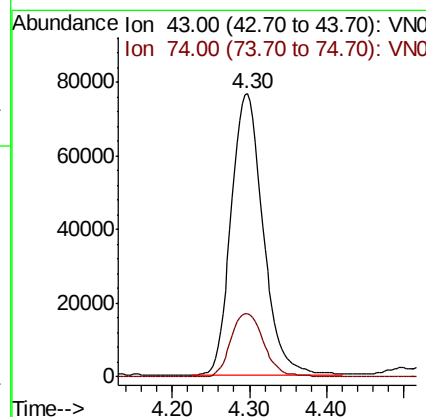
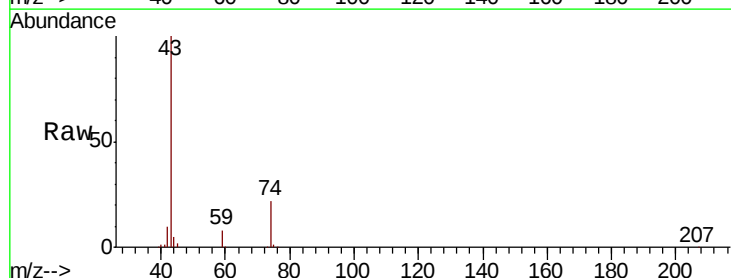
Manual Integrations
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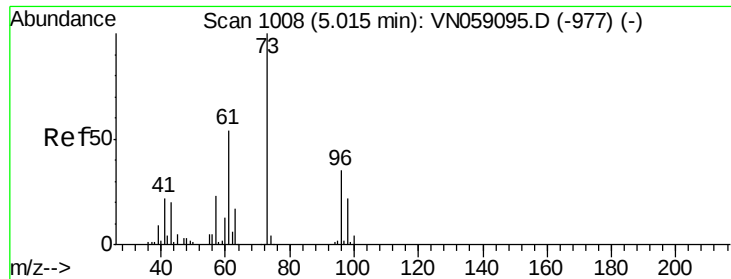
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#18
Methyl Acetate
Concen: 30.866 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Tgt Ion	43	Resp	219689
Ion Ratio	Lower	Upper	
43	100		
74	23.3	17.8	26.8





#19

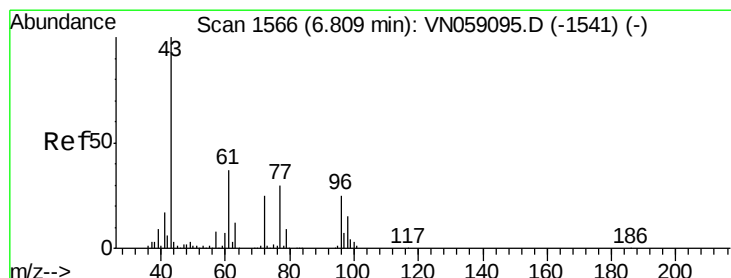
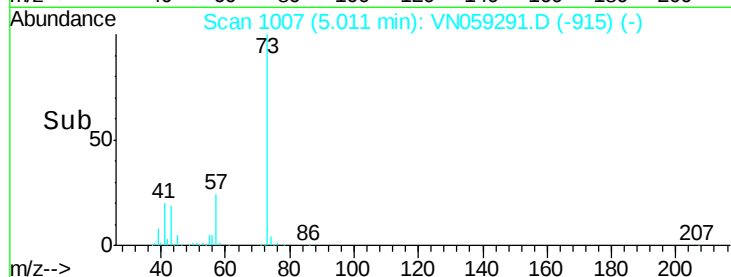
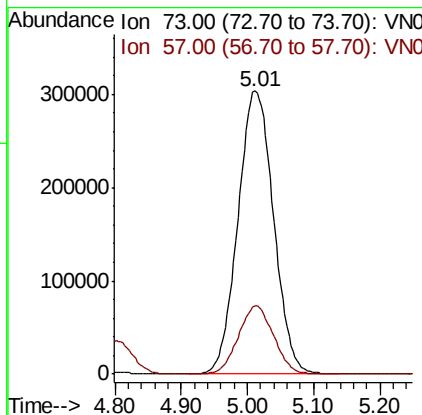
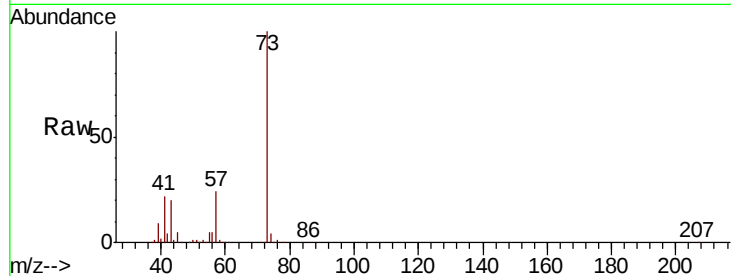
Methvl tert-butvl Ether
 Concen: 75.338 ug/l
 RT: 5.01 min Scan# 1007
 Delta R.T. -0.00 min
 Lab File: VN059291.D
 Acq: 18 Nov 2019 17:56

Instrument :
 MSVOA_N
 ClientSampled :
 30700

Tot Ion: 73 Resp: 1135010
 Ion Ratio Lower Upper
 73 100
 57 23.9 18.4 27.6

Manual Integrations
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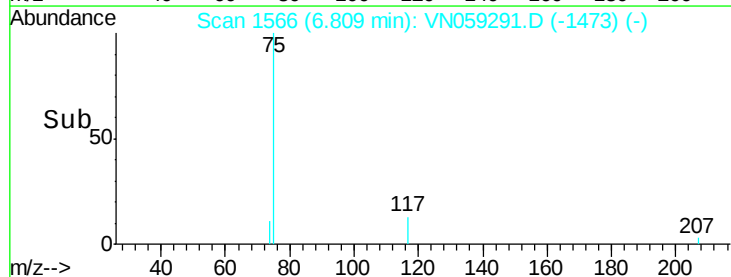
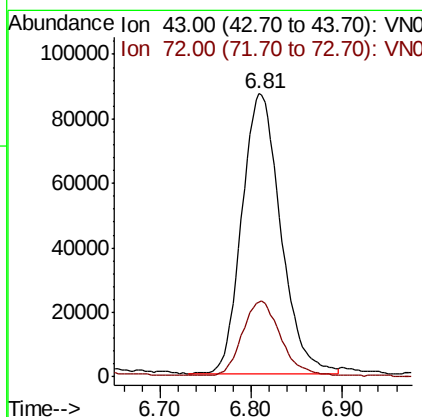
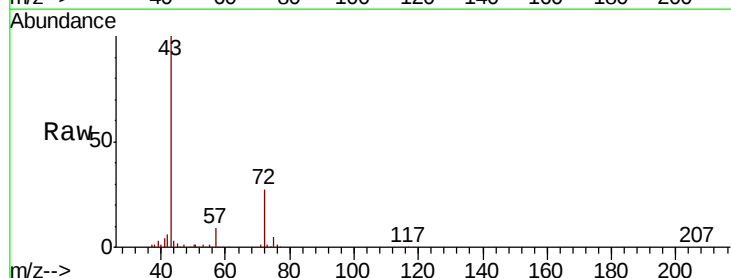
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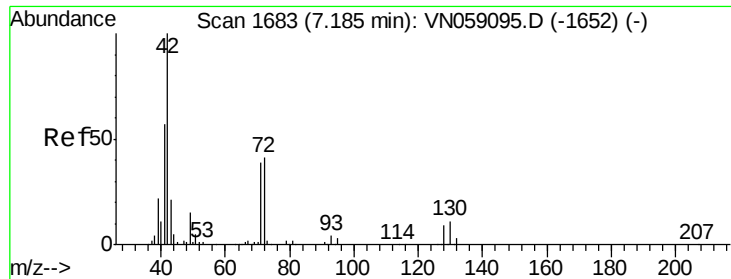


#25

2-Butanone
 Concen: 65.284 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN059291.D
 Acq: 18 Nov 2019 17:56

Tgt Ion: 43 Resp: 257999
 Ion Ratio Lower Upper
 43 100
 72 26.3 20.3 30.5





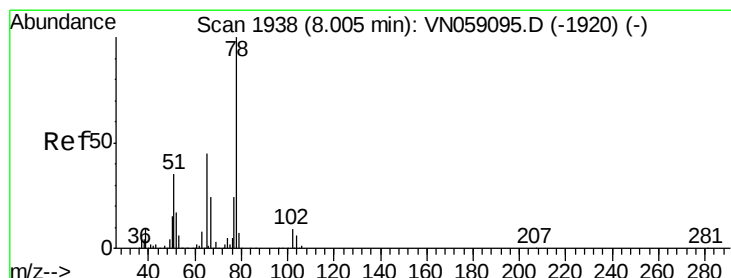
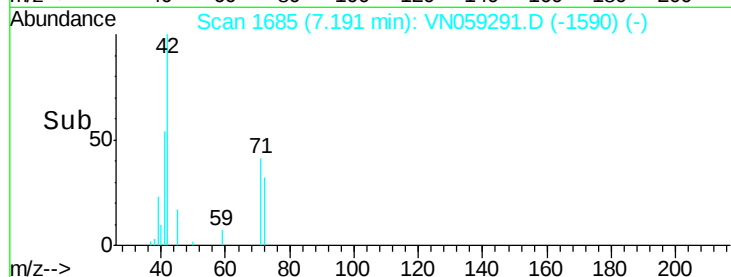
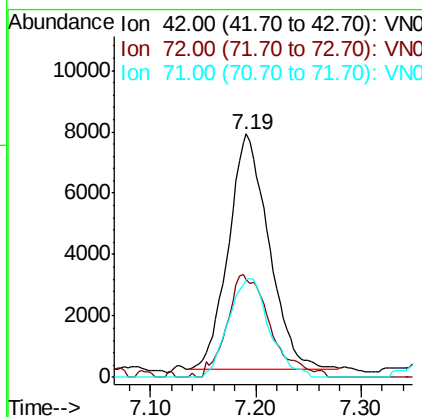
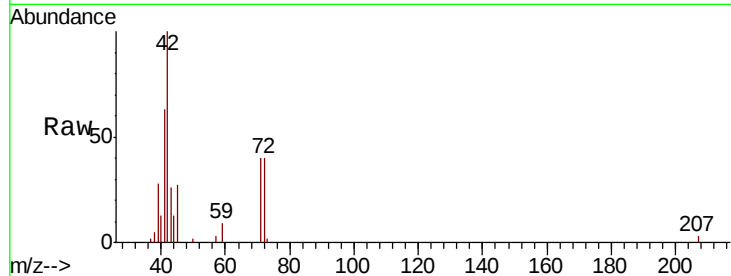
#29
Tetrahydrofuran
Concen: 8.124 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Instrument :
MSVOA_N
ClientSampled :
30700

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.4	33.1	49.7
71	42.5	30.9	46.3

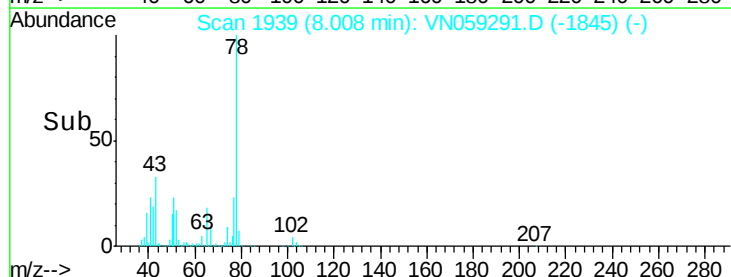
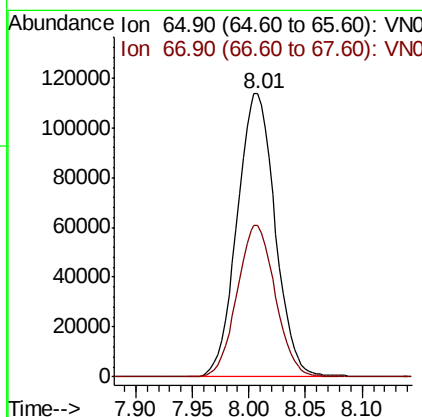
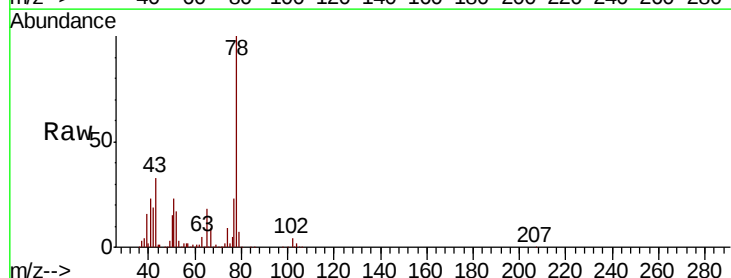
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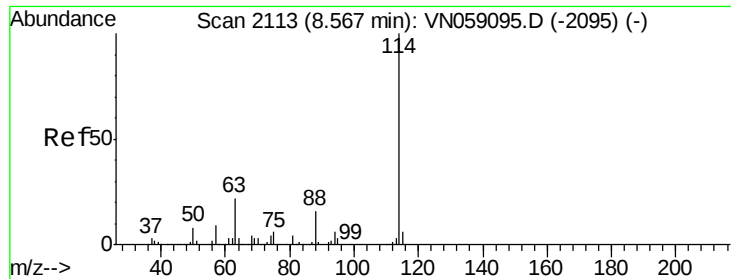
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#33
1,2-Dichloroethane-d4
Concen: 46.019 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	107.4





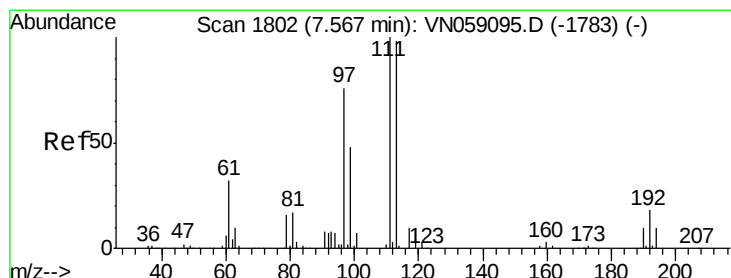
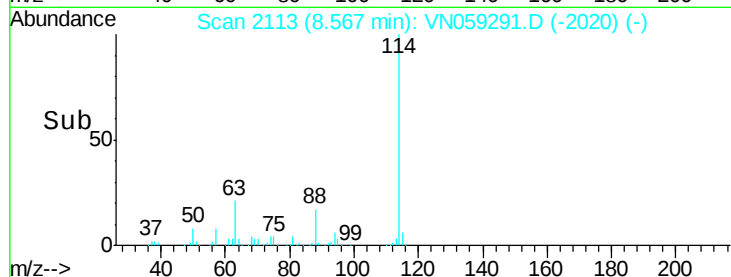
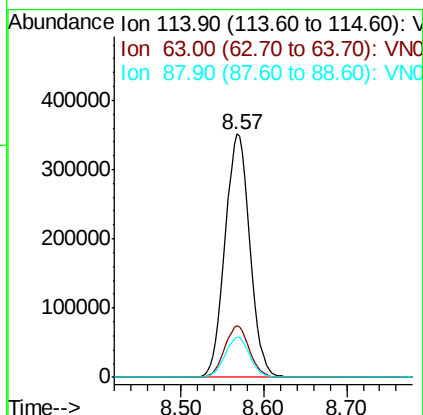
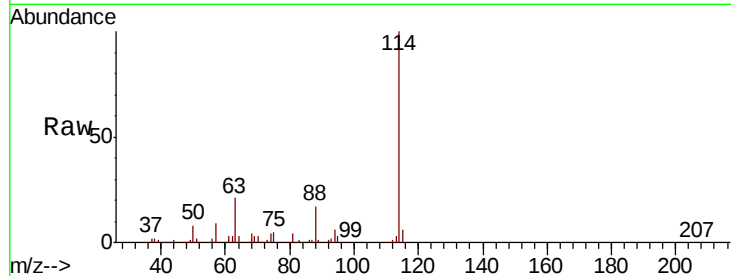
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059291.D
 Acq: 18 Nov 2019 17:56

Instrument :
 MSVOA_N
 ClientSampleId :
 30700

Tot Ion	Ion	Ratio	Resp	Lower	Upper
731460	114	100			
	63	21.4	0.0	43.4	
	88	16.7	0.0	32.2	

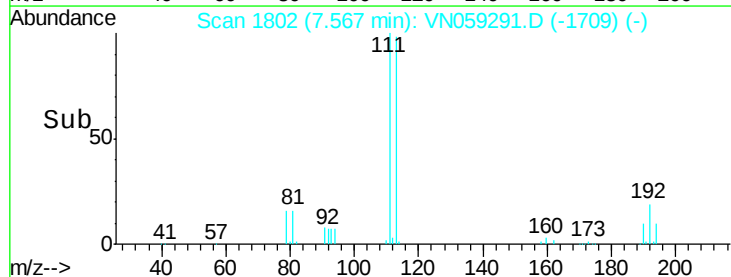
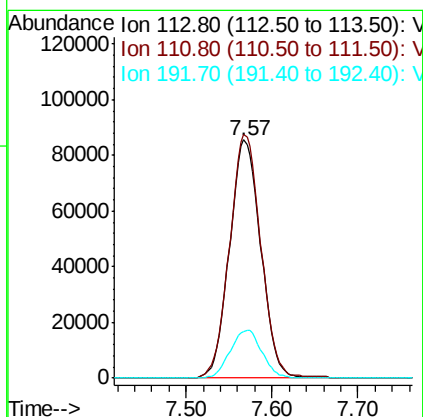
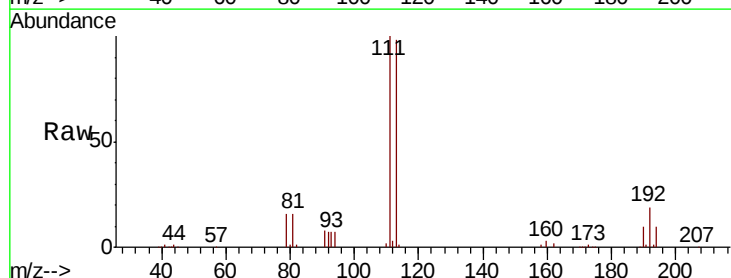
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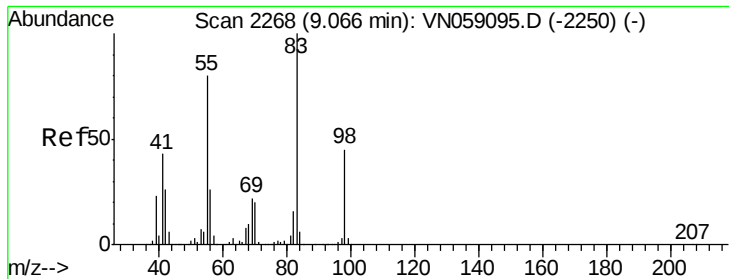
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#35
 Dibromofluoromethane
 Concen: 49.519 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059291.D
 Acq: 18 Nov 2019 17:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
216276	113	100			
	111	102.3	82.8	124.2	
	192	20.4	16.1	24.1	





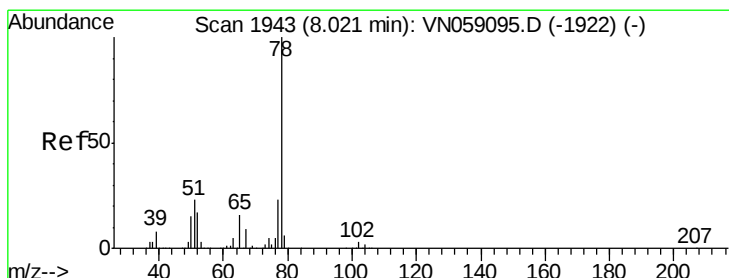
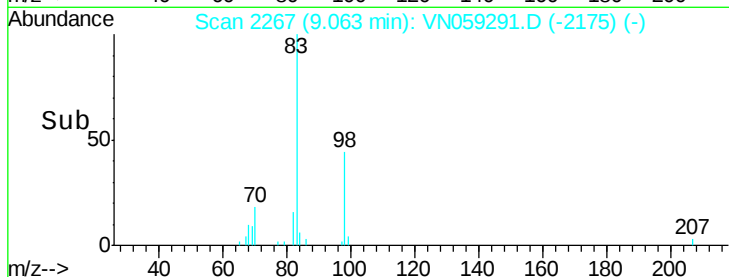
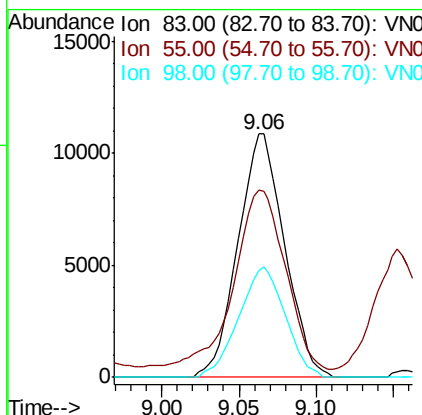
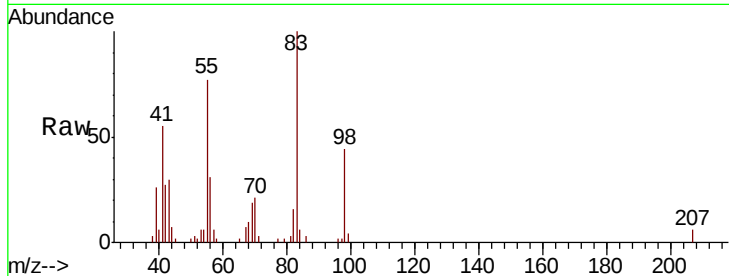
#39
Methvlcvclohexane
Concen: 2.862 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Instrument :
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ClientSampleId :
30700

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.2	63.9	95.9
98	44.0	35.6	53.4

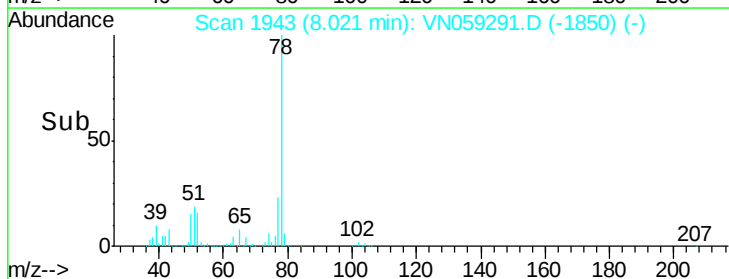
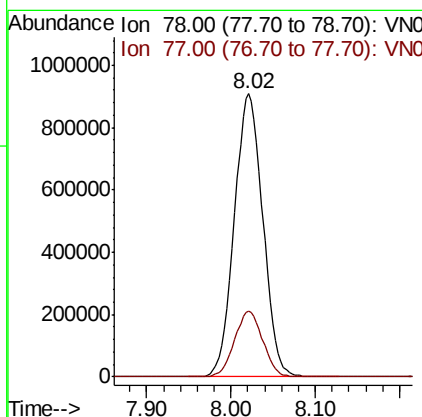
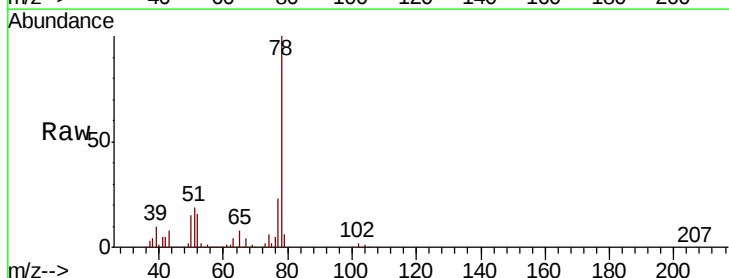
Manual Integrations
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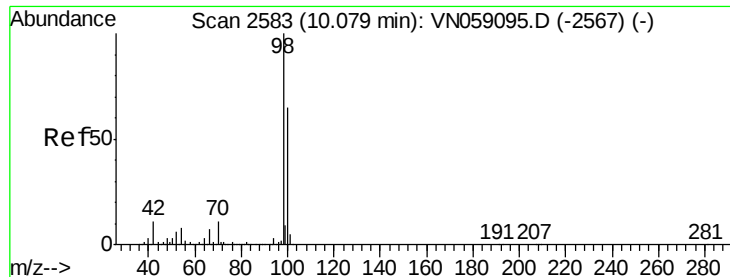
MMDADODA
11/19/2019 11:03:41 AM



#40
Benzene
Concen: 104.053 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2





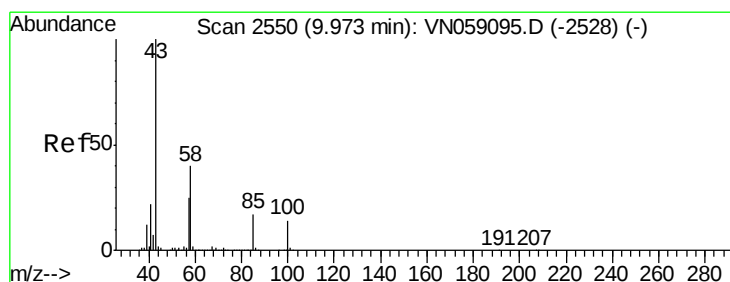
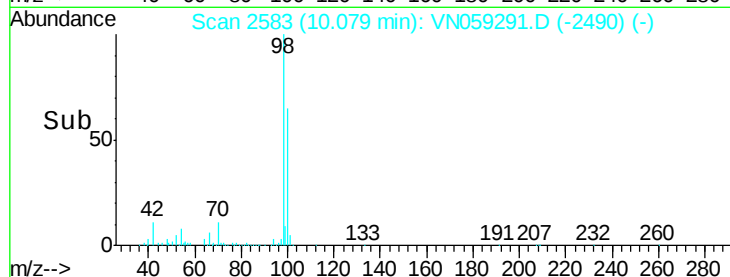
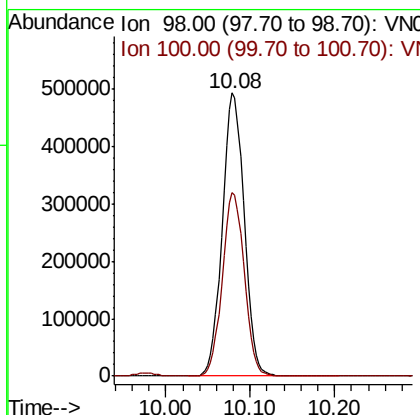
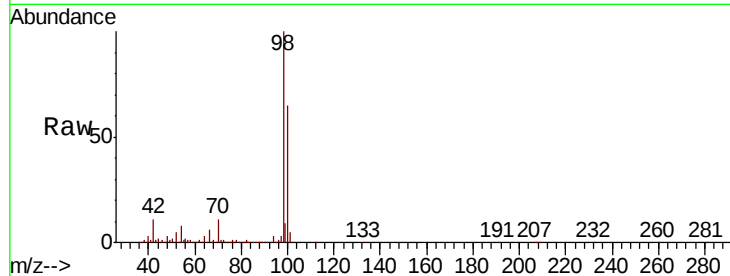
#50
Toluene-d8
Concen: 51.701 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Instrument :
MSVOA_N
ClientSampled :
30700

Tot Ion: 98 Resp: 889426
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2

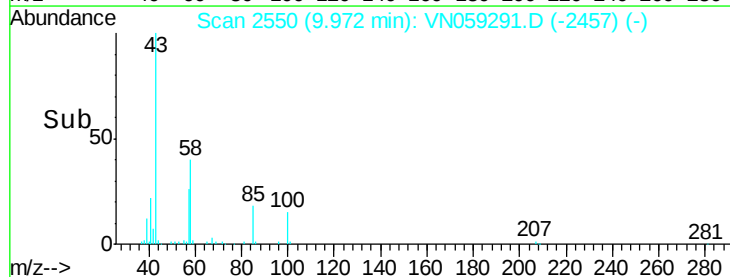
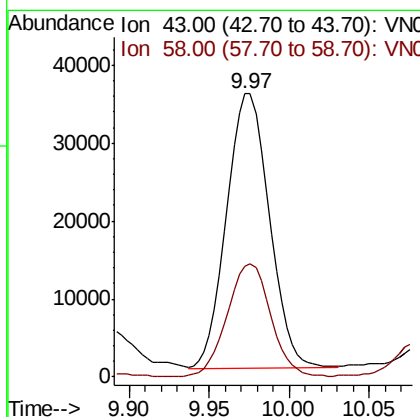
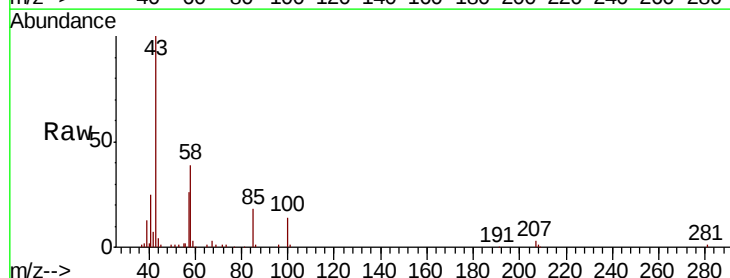
Manual Integrations
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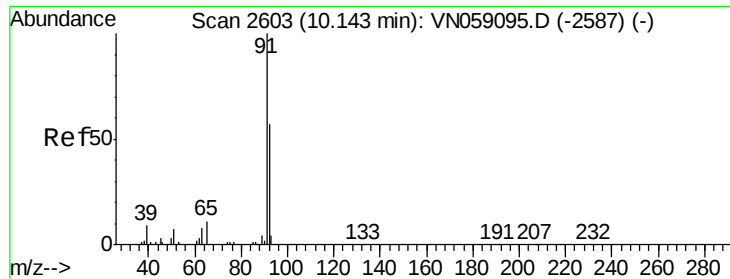
MMDADODA
11/19/2019 11:03:41 AM



#51
4-Methyl-2-Pentanone
Concen: 9.350 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Tgt Ion: 43 Resp: 64150
Ion Ratio Lower Upper
43 100
58 42.1 31.5 47.3





#52

Toluene

Concen: 155.111 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

30700

Tot Ion: 92 Resp: 1914109

Ion Ratio Lower Upper

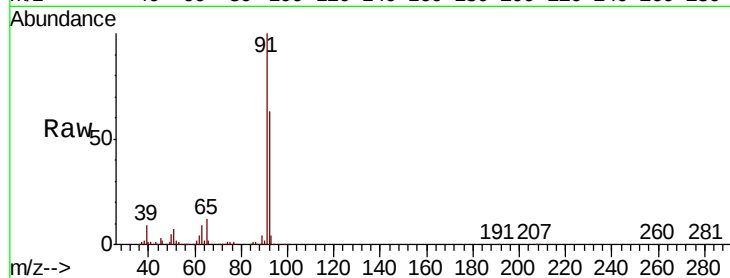
92 100

91 165.0 139.5 209.3

Manual Integrations
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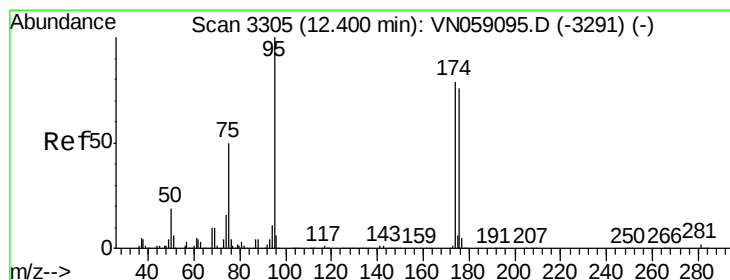
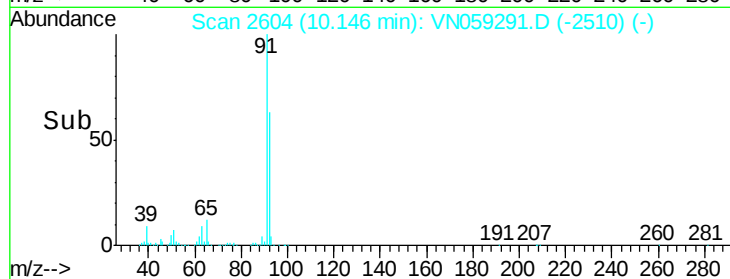
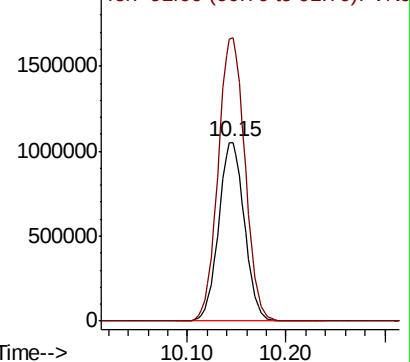
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Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 51.174 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

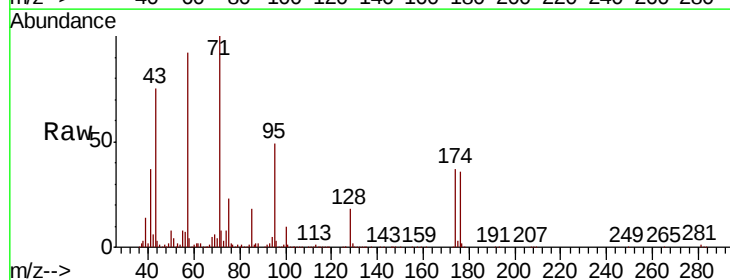
Tgt Ion: 95 Resp: 317425

Ion Ratio Lower Upper

95 100

174 76.5 0.0 158.2

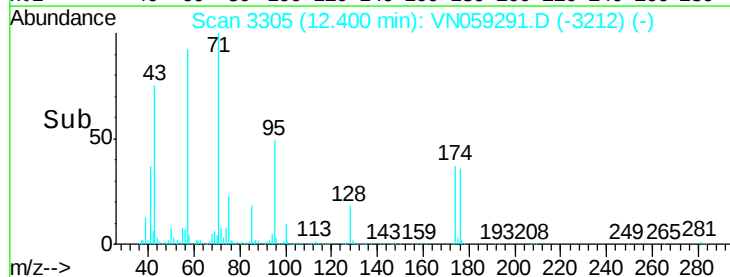
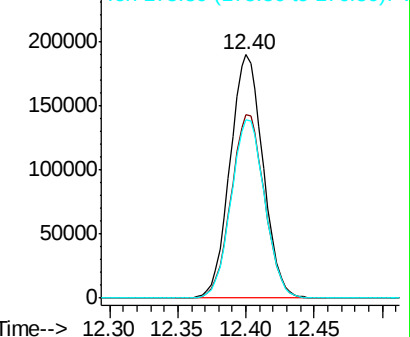
176 74.7 0.0 151.8

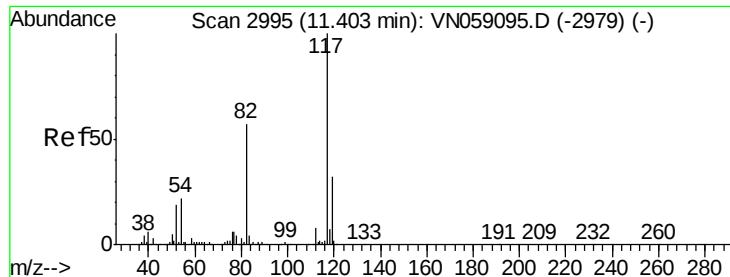


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

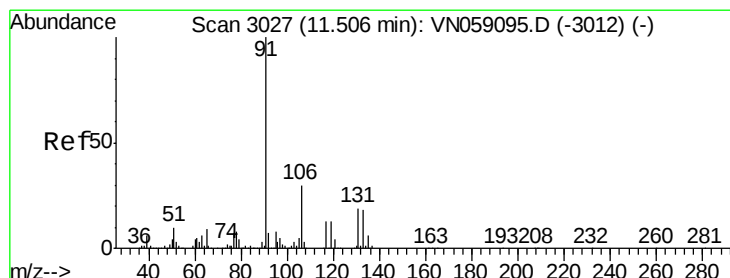
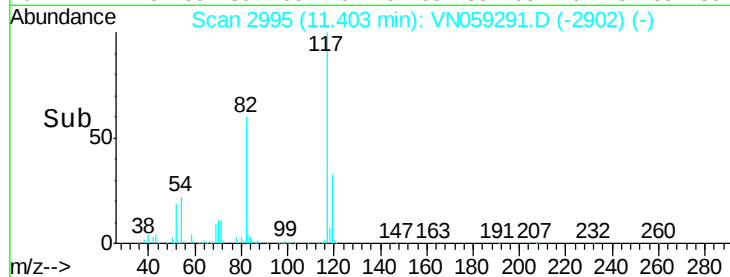
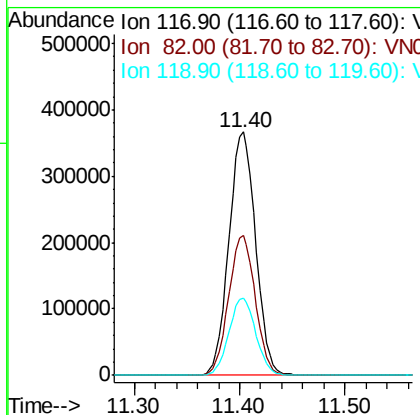
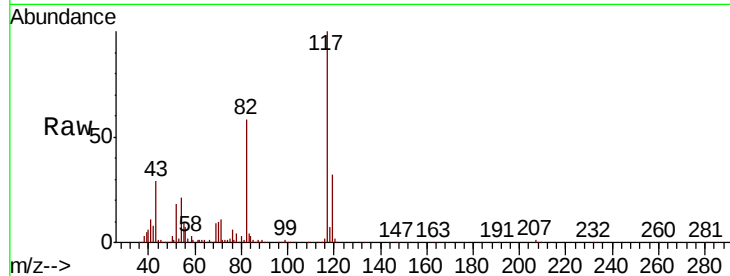
ClientSampled :

30700

Tot Ion:	117	Resp:	642240
Ion Ratio	Lower	Upper	
117	100		
82	57.5	45.8	68.8
119	31.6	25.8	38.6

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#67

Ethyl Benzene

Concen: 81.649 ug/l

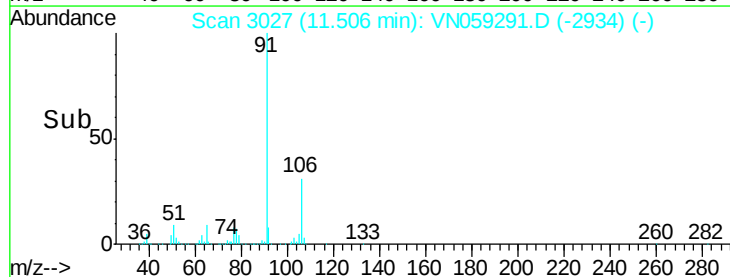
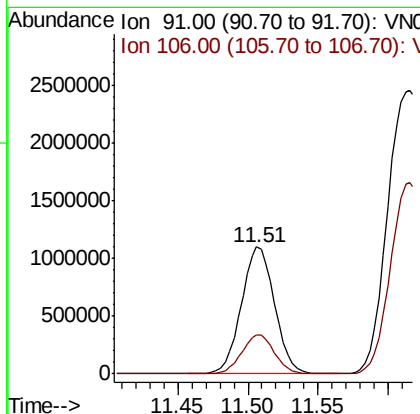
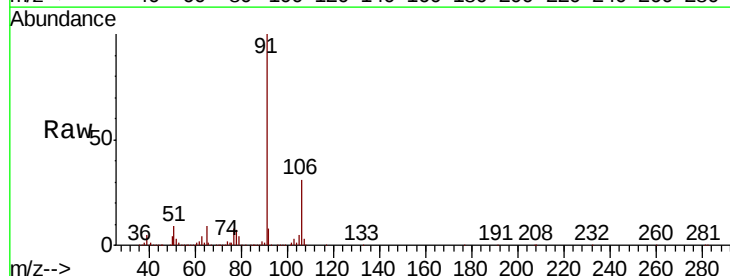
RT: 11.51 min Scan# 3027

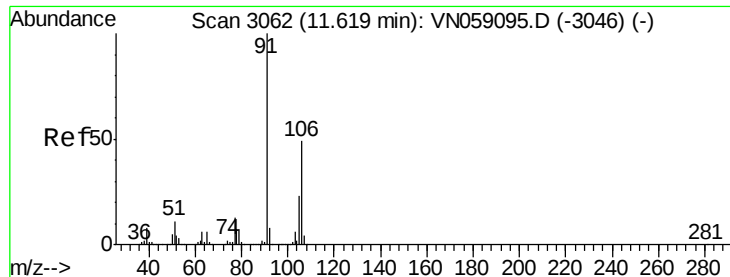
Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Tgt Ion:	91	Resp:	1813668
Ion Ratio	Lower	Upper	
91	100		
106	31.1	24.1	36.1





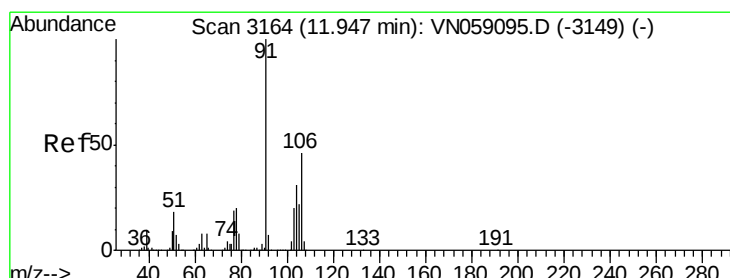
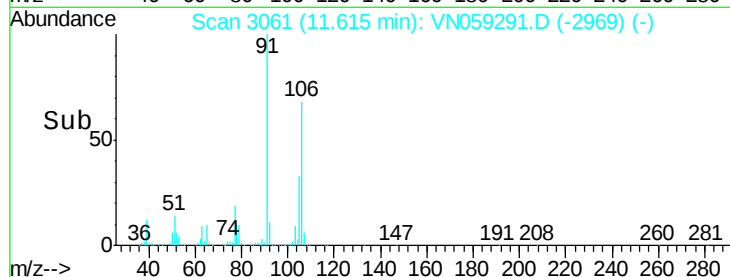
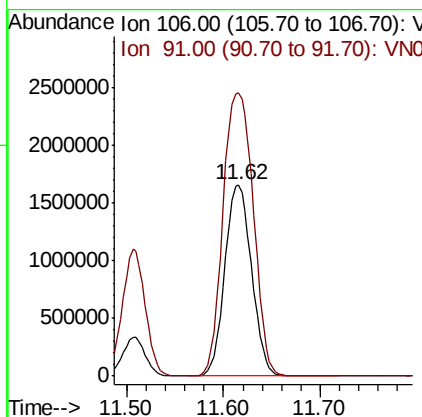
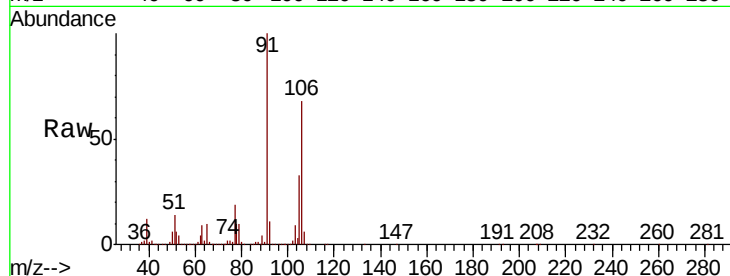
#68
m/p-Xvlenes
Concen: 382.151 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :
30700

Tot Ion:106 Resp: 3179757
Ion Ratio Lower Upper
106 100
91 168.2 164.7 247.1

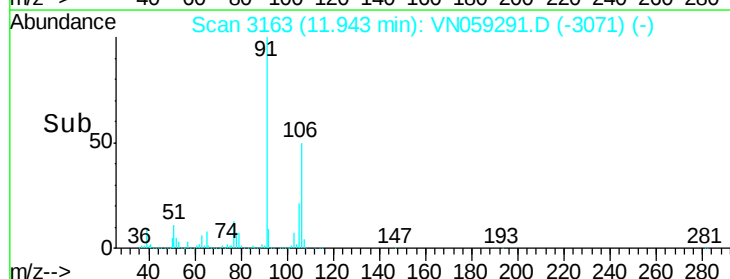
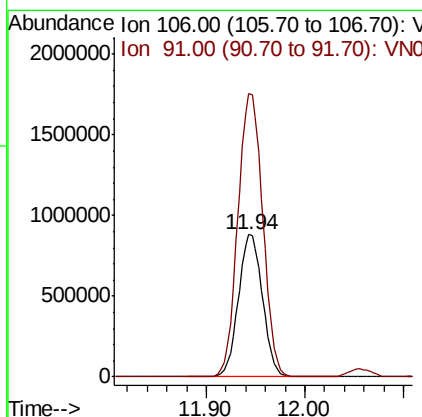
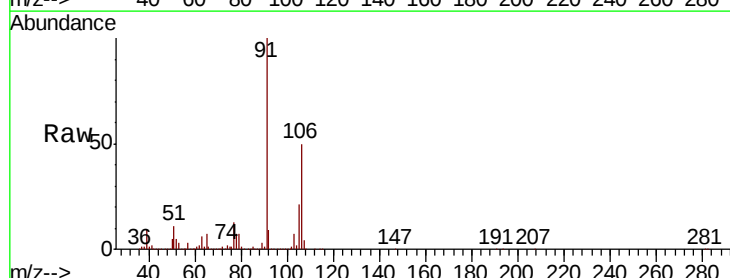
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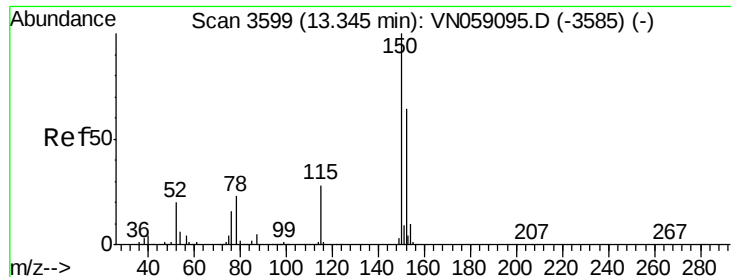
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#69
o-Xylene
Concen: 184.586 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN059291.D
Acq: 18 Nov 2019 17:56

Tgt Ion:106 Resp: 1484277
Ion Ratio Lower Upper
106 100
91 206.3 110.1 330.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

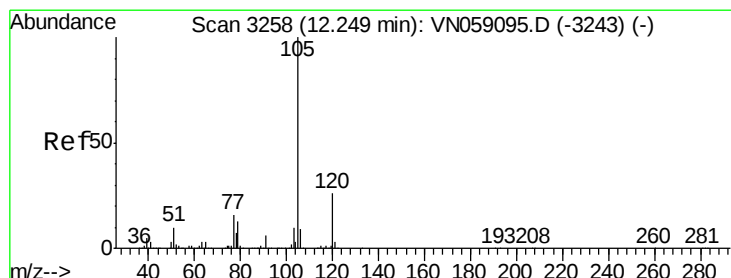
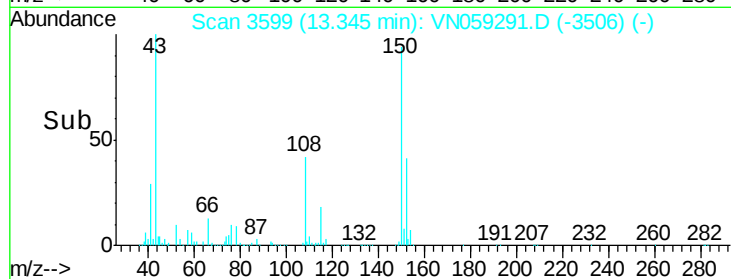
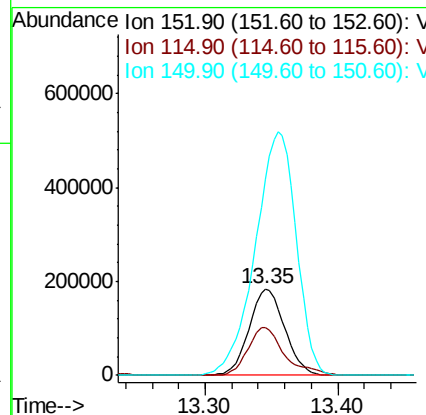
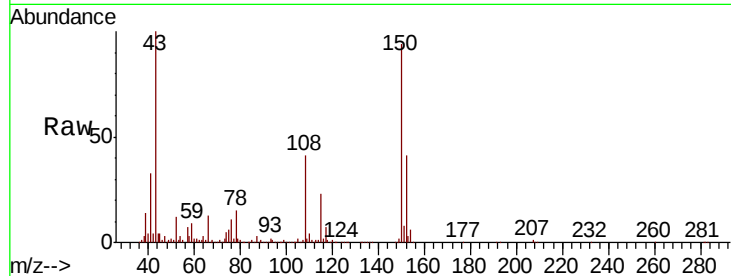
ClientSampleId :

30700

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.9	29.4	88.2
150	325.7	0.0	345.8

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#73

Isopropylbenzene

Concen: 2.167 ug/l

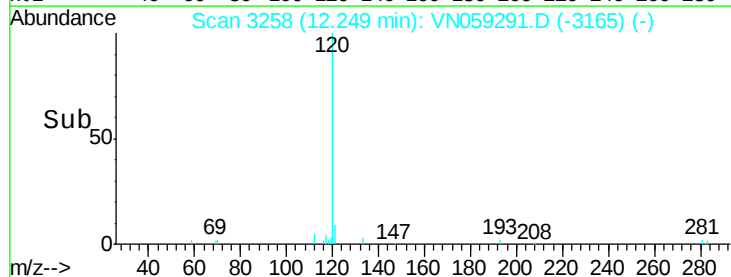
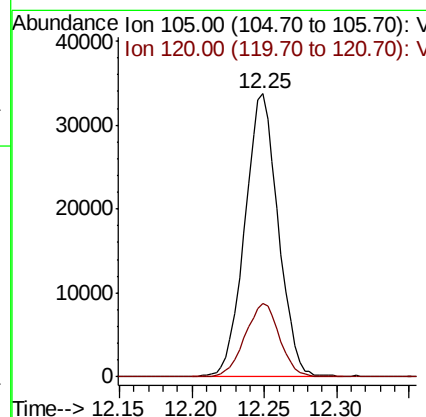
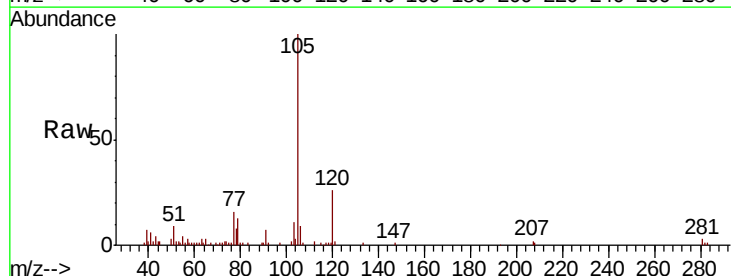
RT: 12.25 min Scan# 3258

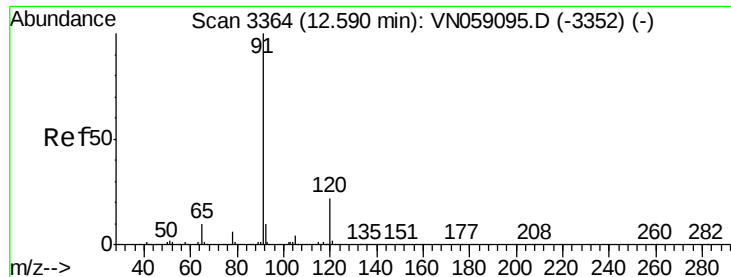
Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.3





#78

n-propylbenzene

Concen: 2.054 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

30700

Tot Ion: 91 Resp: 58661

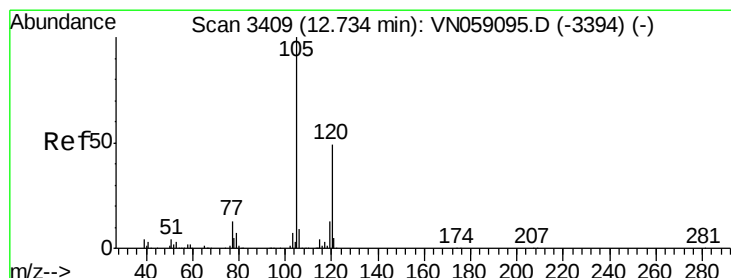
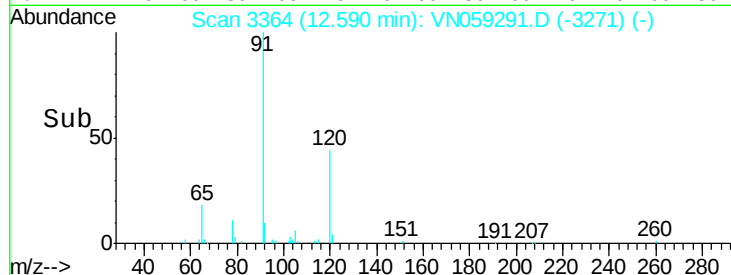
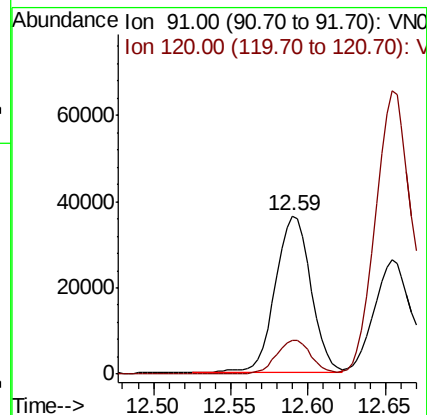
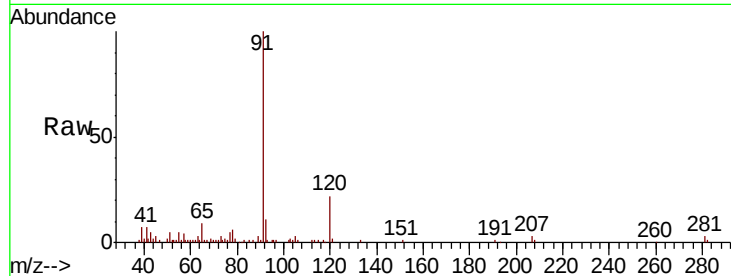
Ion Ratio Lower Upper

91 100

120 21.1 11.2 33.5

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#80

1,3,5-Trimethylbenzene

Concen: 12.548 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059291.D

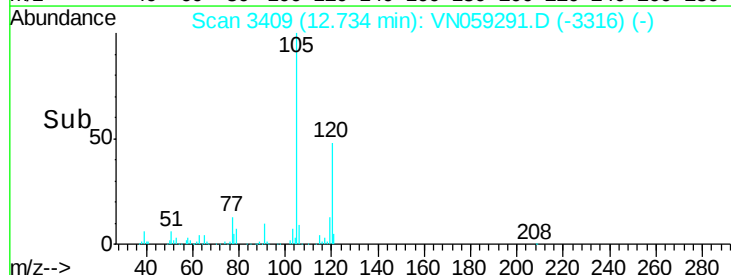
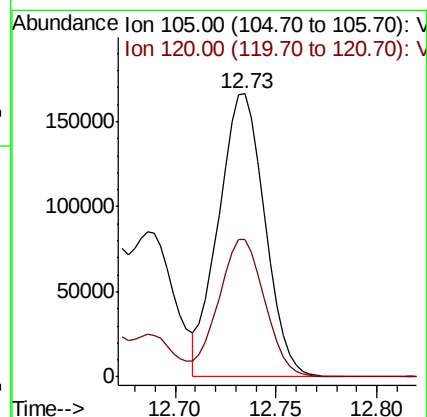
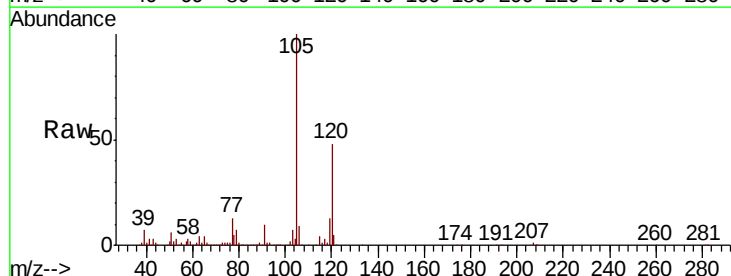
Acq: 18 Nov 2019 17:56

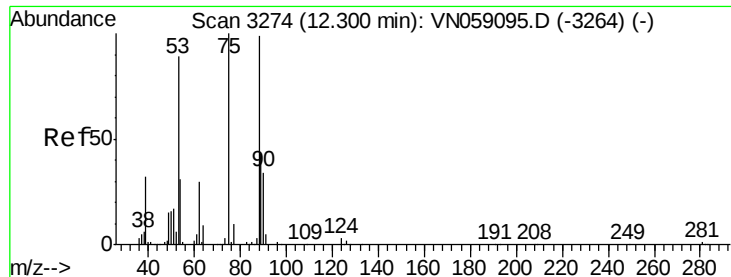
Tgt Ion: 105 Resp: 265150

Ion Ratio Lower Upper

105 100

120 49.1 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.903 ug/l

RT: 12.29 min Scan# 3271

Delta R.T. -0.01 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

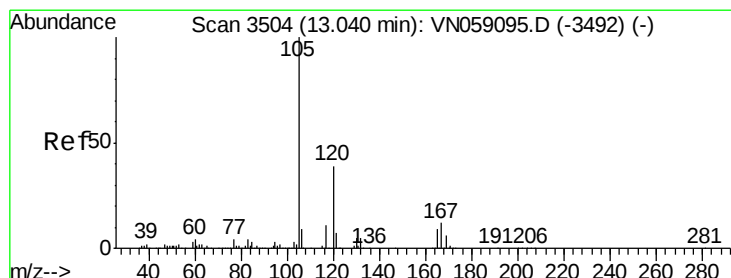
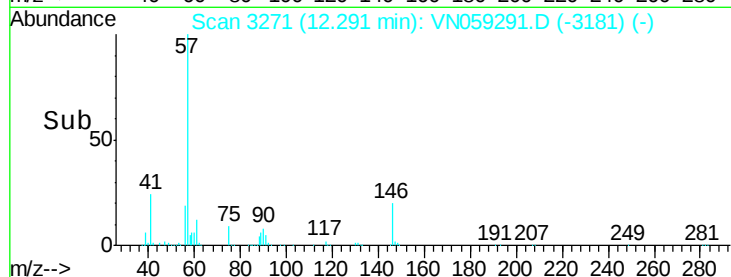
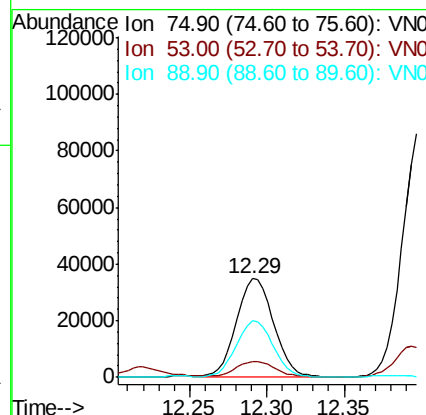
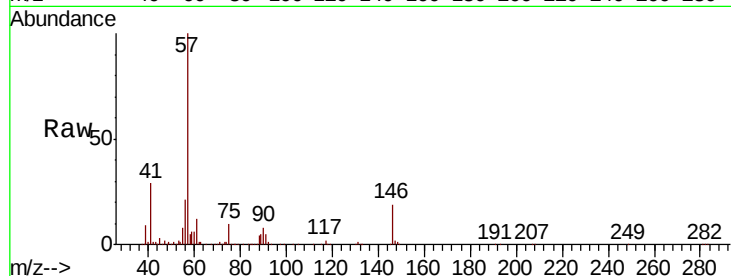
ClientSampled :

30700

Tot Ion:	75	Resp:	58815
Ion Ratio	Lower	Upper	
75	100		
53	16.4	72.2	108.2#
89	56.6	35.8	53.8#

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#84

1,2,4-Trimethylbenzene

Concen: 55.104 ug/l

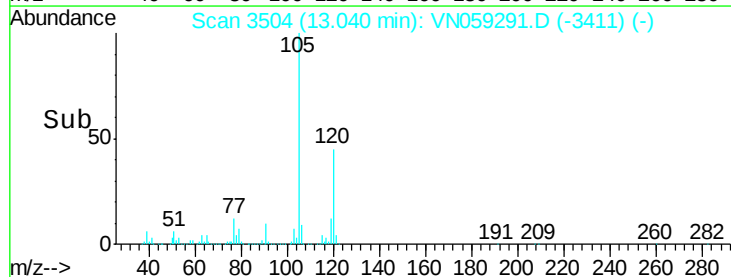
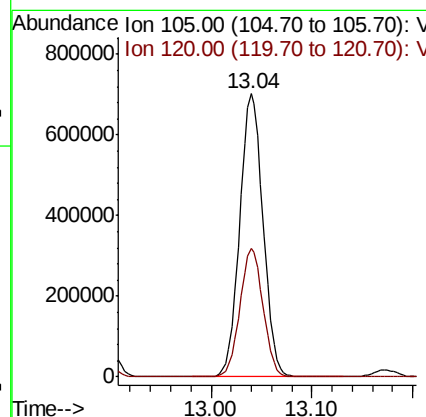
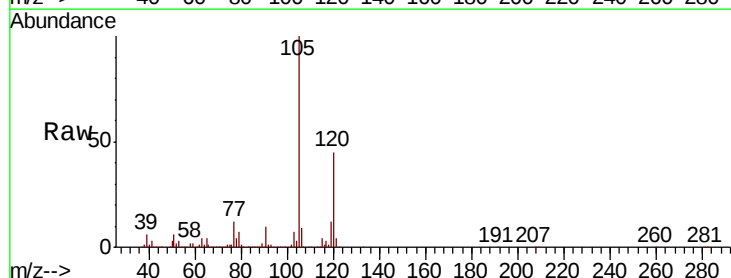
RT: 13.04 min Scan# 3504

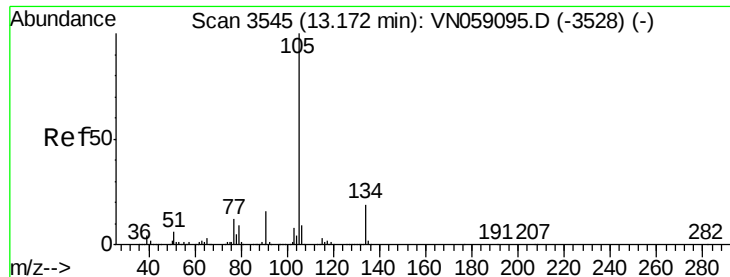
Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Tgt Ion:	105	Resp:	1126576
Ion Ratio	Lower	Upper	
105	100		
120	45.0	22.8	68.4





#85

sec-Butylbenzene

Concen: 1.229 ug/l m

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

30700

Tot Ion: 105 Resp: 29175

Ion Ratio Lower Upper

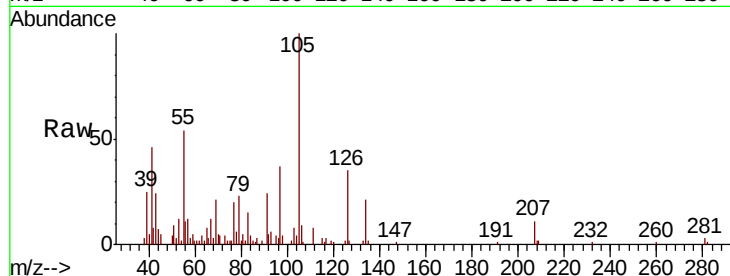
105 100

134 0.0 9.7 29.1#

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

20000

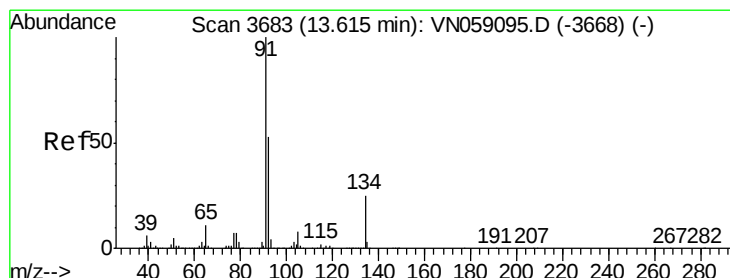
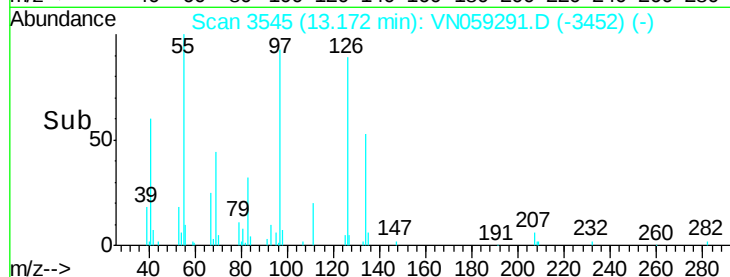
15000

10000

5000

0

Time--> 13.10 13.15 13.20



#89

n-Butylbenzene

Concen: 1.751 ug/l m

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN059291.D

Acq: 18 Nov 2019 17:56

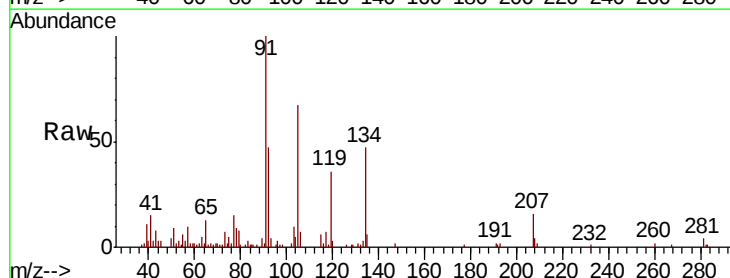
Tgt Ion: 91 Resp: 32122

Ion Ratio Lower Upper

91 100

92 0.0 26.1 78.3#

134 347.6 12.6 37.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

80000

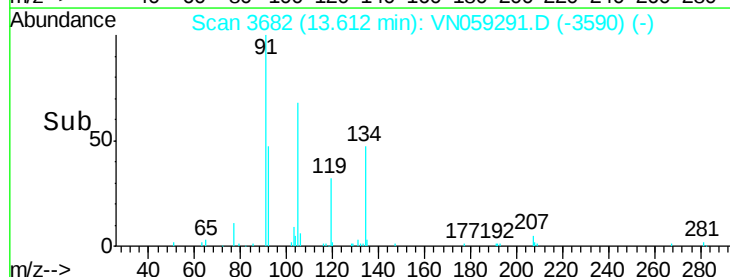
60000

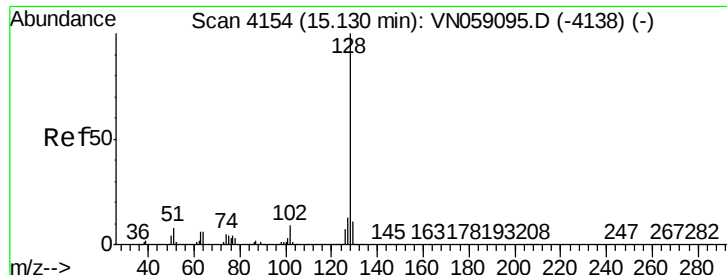
40000

20000

0

Time--> 13.60 13.65





#95

Naphthalene

Concen: 11.074 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059291.D

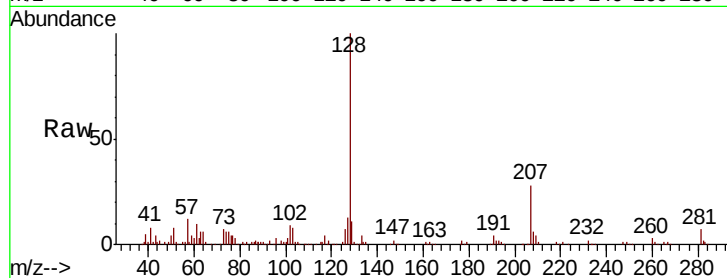
Acq: 18 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

30700



Tot Ion:	128	Resp:	151892
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.2	15.2
129	11.2	8.6	12.8

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