

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058682.D
 Acq On : 10 Oct 2019 22:14
 Operator : JC/SP
 Sample : K5307-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 391009764.2-VOA

Manual Integrations
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 10/11/2019 2:47:11 PM

Quant Time: Oct 11 09:01:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	66289	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	403581	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	324980	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	192482	34.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	114.03%
60) 4-Bromofluorobenzene	12.41	95	157834	27.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.53%
63) Toluene-d8	10.09	98	479191	31.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	2180	0.607 ug/l	98
8) Diethyl Ether	3.38	74	34073	14.638 ug/l	91
15) Acetone	3.82	58	3085m	4.753 ug/l	
24) Methyl tert-Butyl Ether	5.01	73	12386m	0.957 ug/l	
34) Benzene	8.02	78	44614	2.385 ug/l #	1
45) 1,4-Dioxane	9.20	88	8099	92.409 ug/l #	89
62) Toluene	10.15	91	16738	0.958 ug/l	98
64) Chlorobenzene	11.43	112	145936	13.655 ug/l	99
66) Ethyl Benzene	11.51	91	43712	2.258 ug/l	99
67) m/p-Xylenes	11.63	106	29867	4.130 ug/l	91
68) o-Xylene	11.95	106	33693	4.806 ug/l	100
70) Isopropylbenzene	12.25	105	31499	1.664 ug/l	100
74) n-propylbenzene	12.60	91	19534	0.882 ug/l	99
75) 2-Chlorotoluene	12.68	91	11515	0.864 ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	6963	0.430 ug/l	93
80) 1,2,4-Trimethylbenzene	13.05	105	36109	2.242 ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	75995	9.146 ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	6681	0.813 ug/l	95
91) Naphthalene	15.13	128	228885	14.949 ug/l	99

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

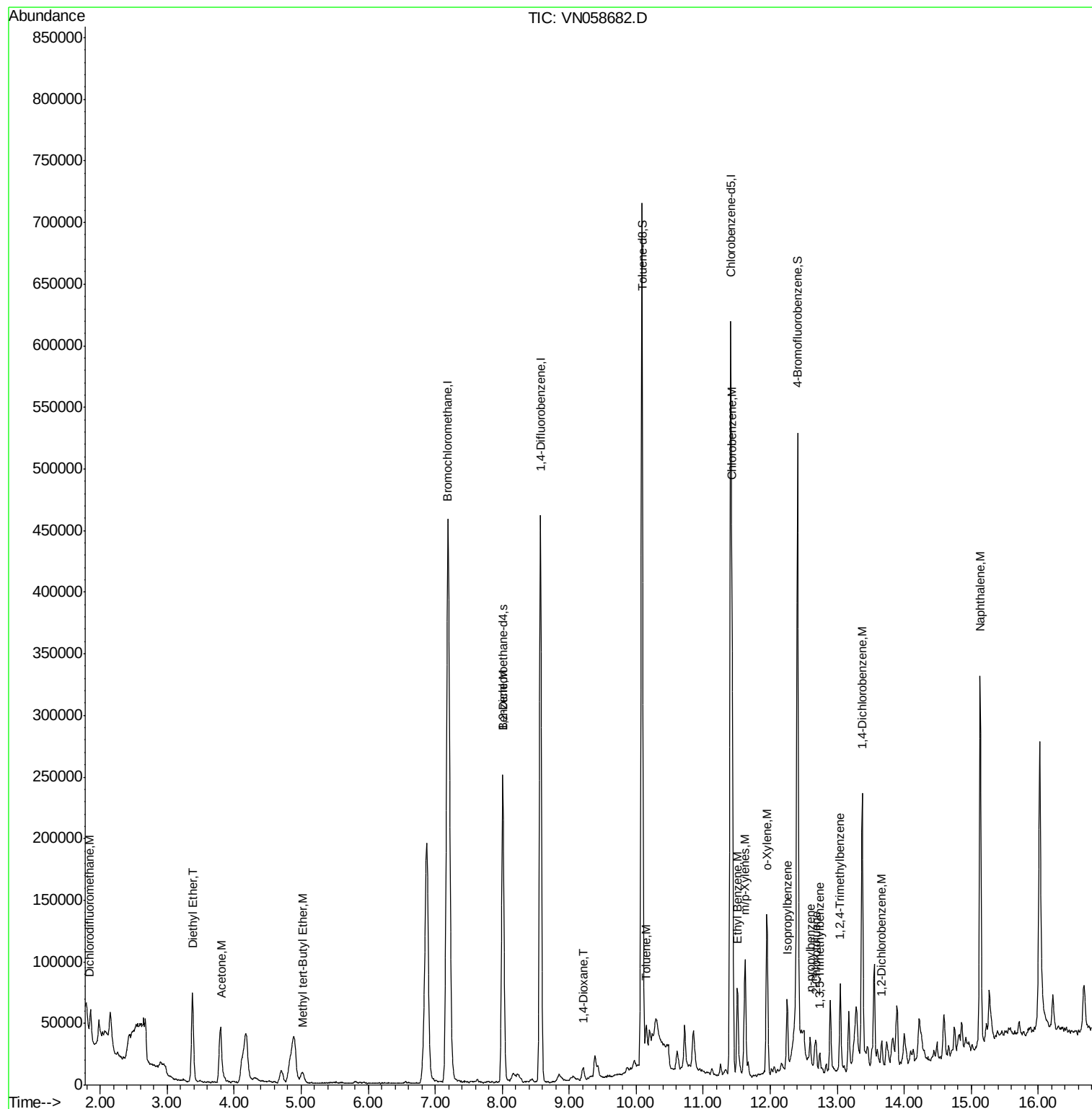
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
Data File : VN058682.D
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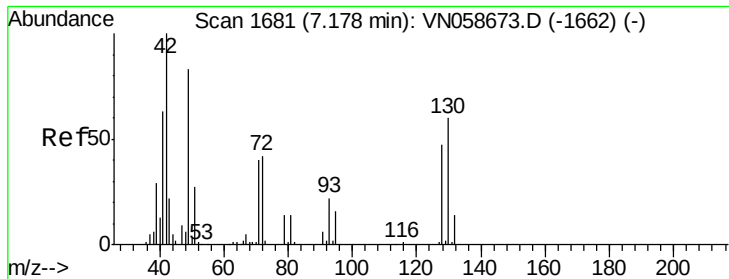
Instrument :
MSVOA_N
ClientSampleId :
391009764.2-VOA

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Quant Time: Oct 11 09:01:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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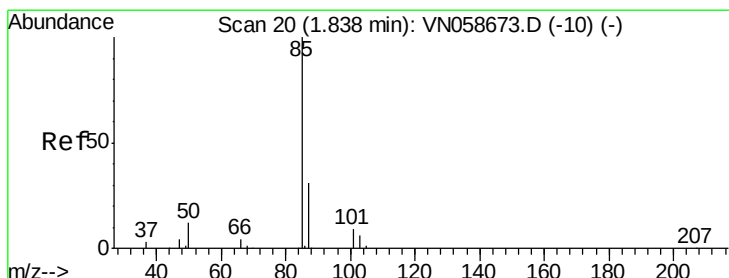
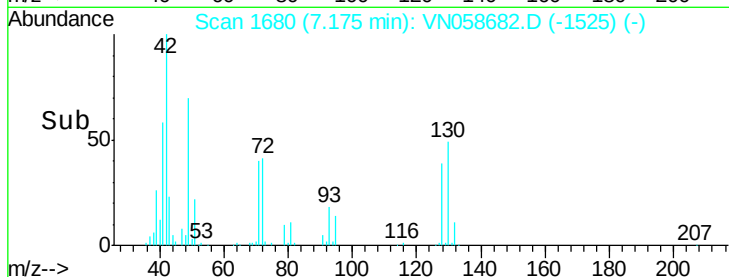
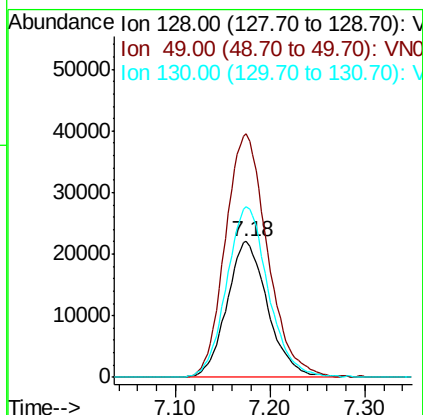
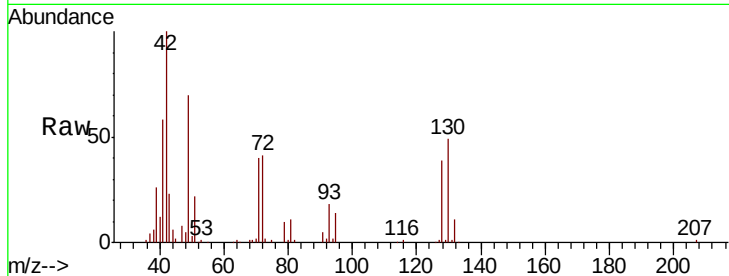
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Instrument :
MSVOA_N
ClientSampleId :
391009764.2-VOA

Tot Ion:128 Resp: 66289
Ion Ratio Lower Upper
128 100
49 184.8 0.0 453.5
130 127.6 0.0 314.2

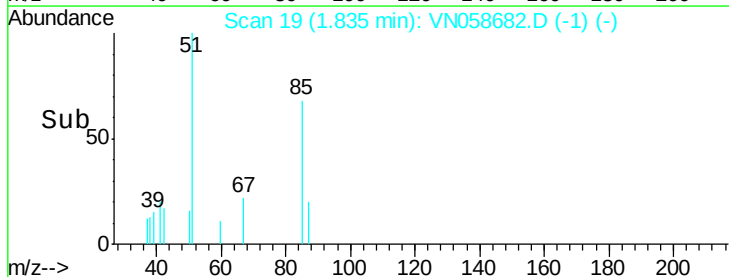
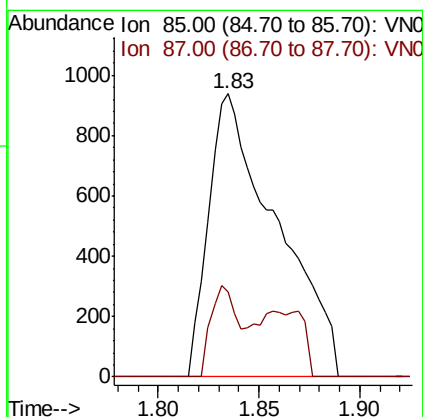
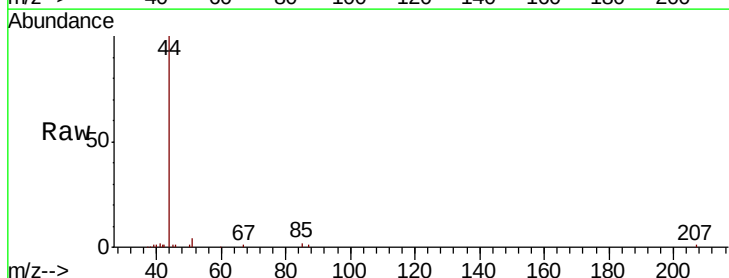
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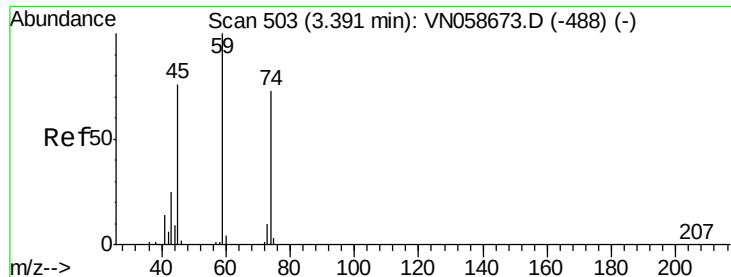
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#2
Dichlorodifluoromethane
Concen: 0.607 ug/l
RT: 1.83 min Scan# 19
Delta R.T. -0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Tgt Ion: 85 Resp: 2180
Ion Ratio Lower Upper
85 100
87 30.0 15.7 47.0





#8

Diethyl Ether

Concen: 14.638 ug/l

RT: 3.38 min Scan# 499

Delta R.T. -0.01 min

Lab File: VN058682.D

Acq: 10 Oct 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

391009764.2-VOA

Tot Ion: 74 Resp: 34073

Ion Ratio Lower Upper

74 100

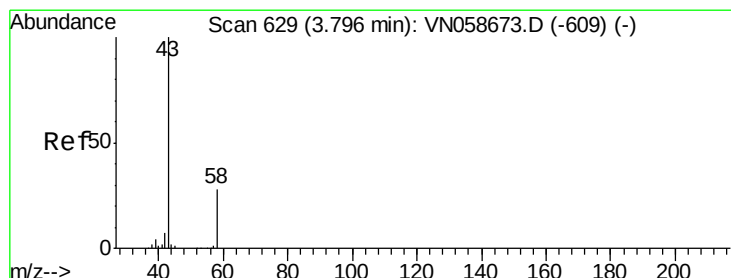
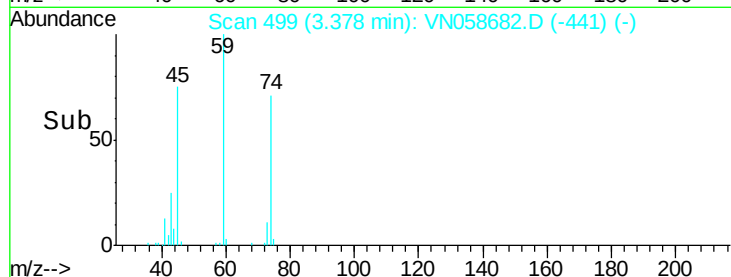
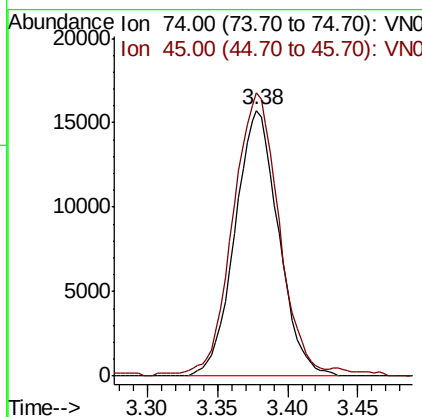
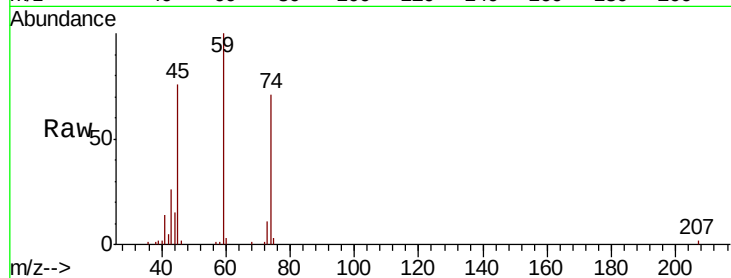
45 112.8 20.6 185.8

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#15

Acetone

Concen: 4.753 ug/l m

RT: 3.82 min Scan# 636

Delta R.T. 0.02 min

Lab File: VN058682.D

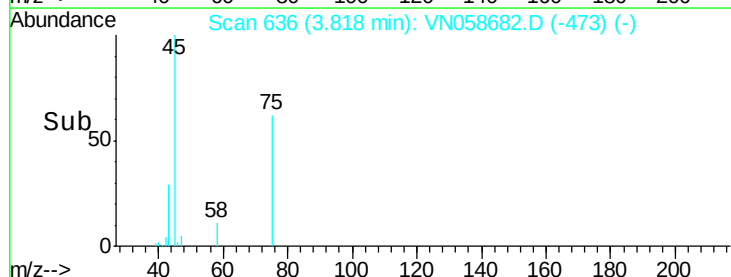
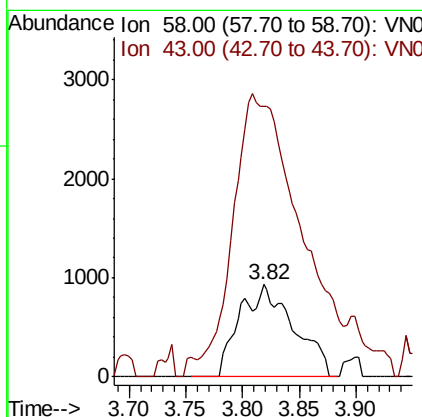
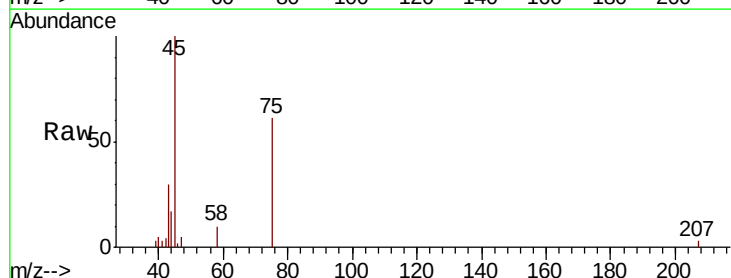
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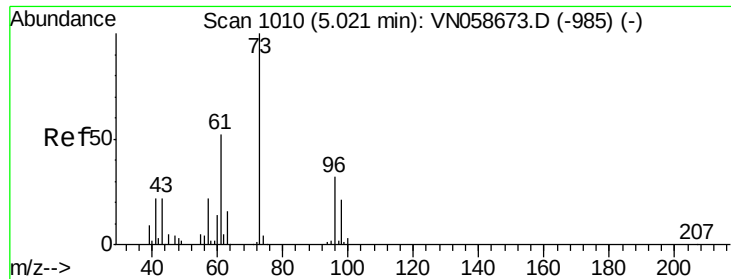
Tgt Ion: 58 Resp: 3085

Ion Ratio Lower Upper

58 100

43 292.0 281.7 422.5





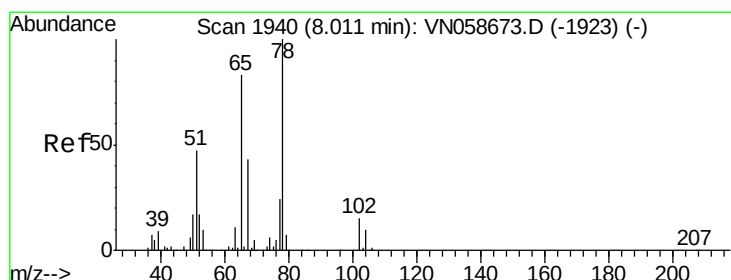
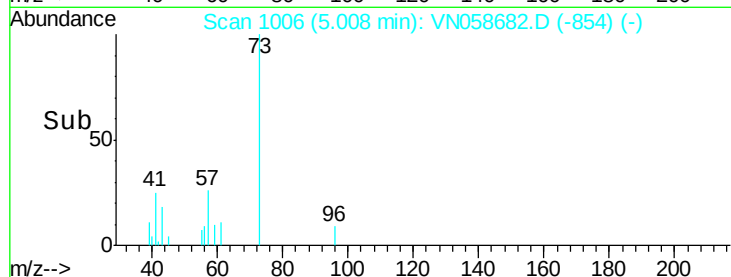
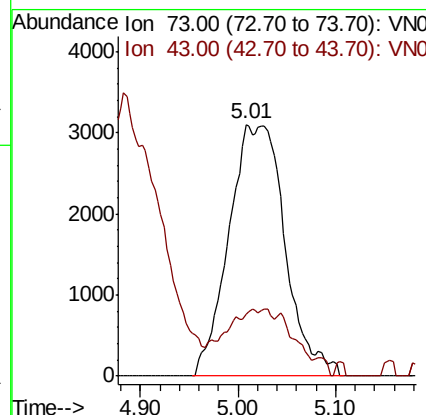
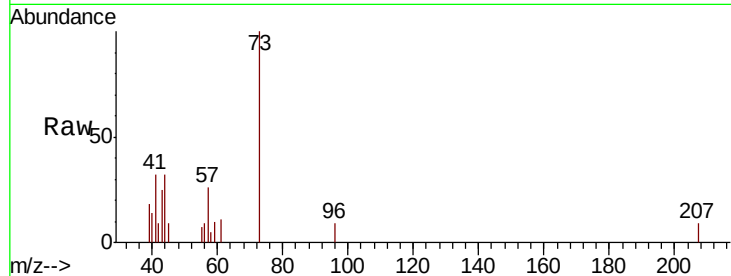
#24
Methyl tert-Butyl Ether
Concen: 0.957 ug/l m
RT: 5.01 min Scan# 1006
Delta R.T. -0.01 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Instrument :
MSVOA_N
ClientSampleId :
391009764.2-VOA

Tot Ion: 73 Resp: 12386
Ion Ratio Lower Upper
73 100
43 1.9 17.9 26.9#

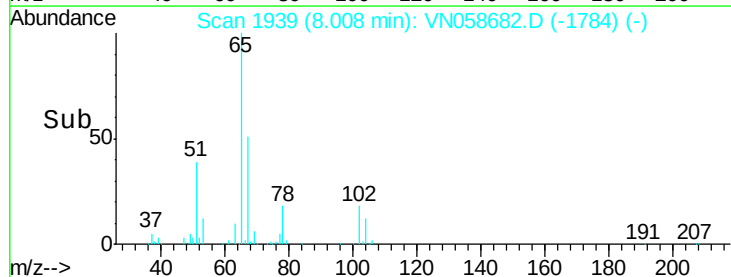
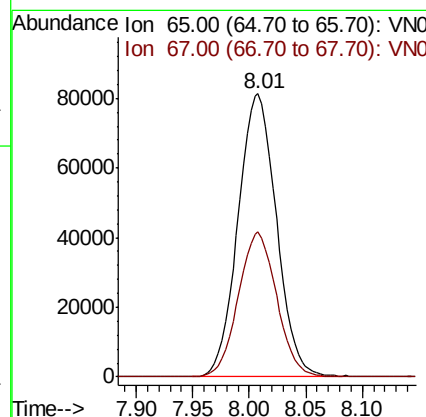
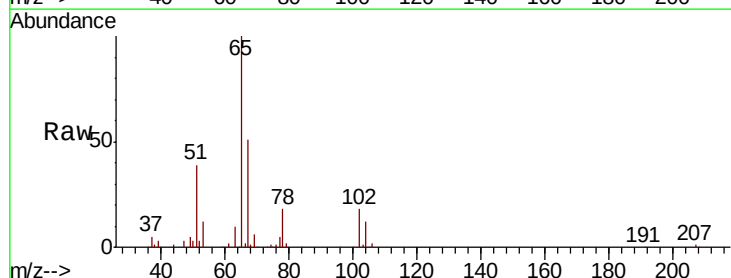
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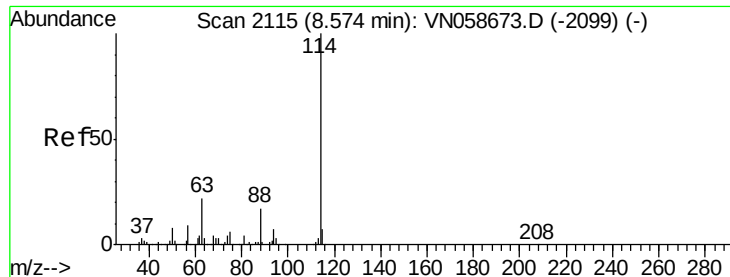
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#27
1,2-Dichloroethane-d4
Concen: 34.212 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. -0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Tgt Ion: 65 Resp: 192482
Ion Ratio Lower Upper
65 100
67 51.0 41.5 62.3





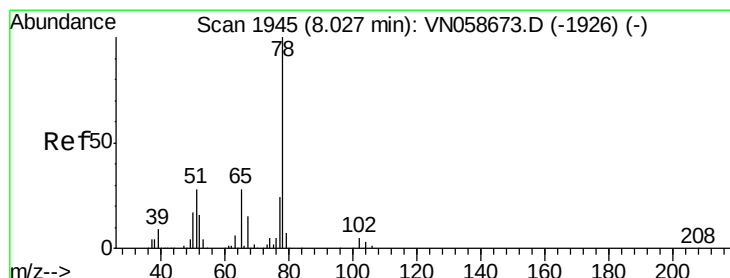
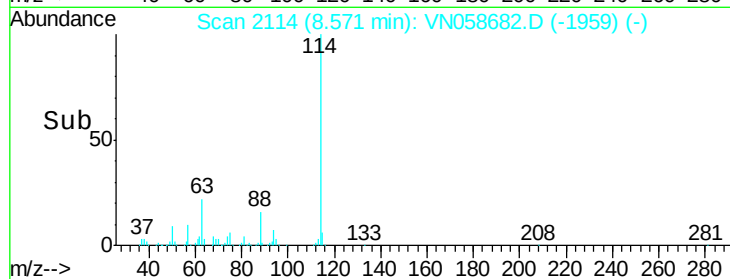
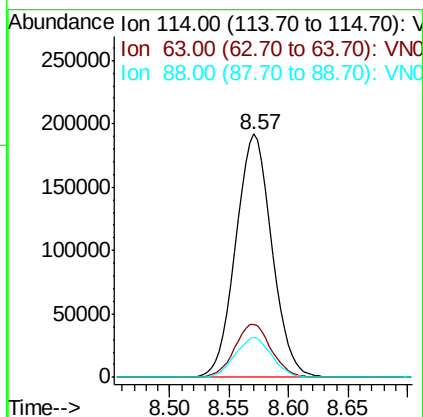
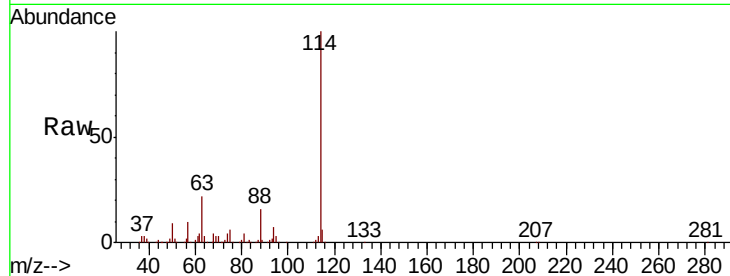
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058682.D
 Acq: 10 Oct 2019 22:14

Instrument :
 MSVOA_N
 ClientSampleId :
 391009764.2-VOA

Tot Ion	Ion	Ratio	Resp	Lower	Upper
114	100		403581		
63	22.1	18.1	27.1		
88	16.5	13.0	19.4		

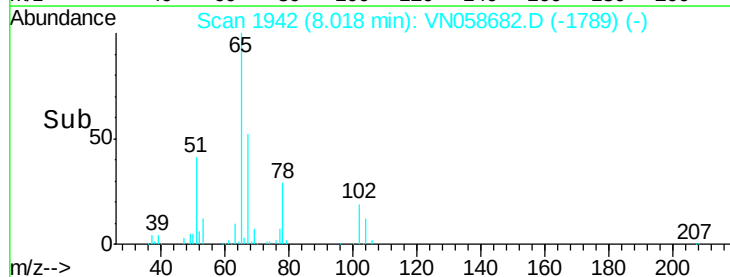
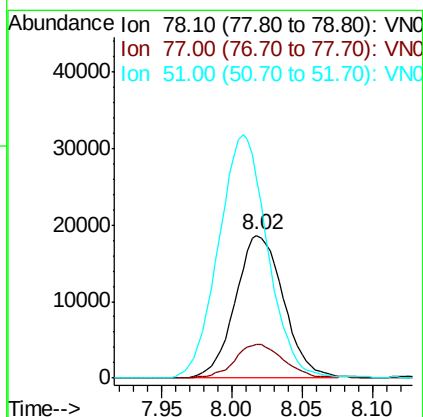
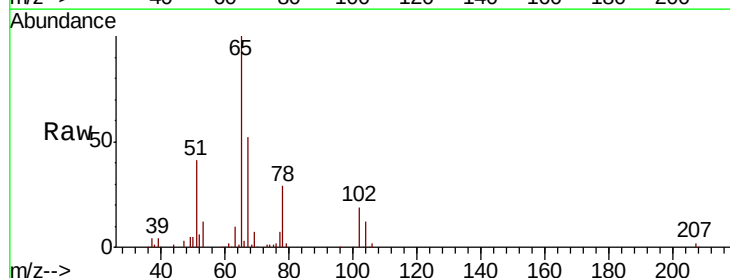
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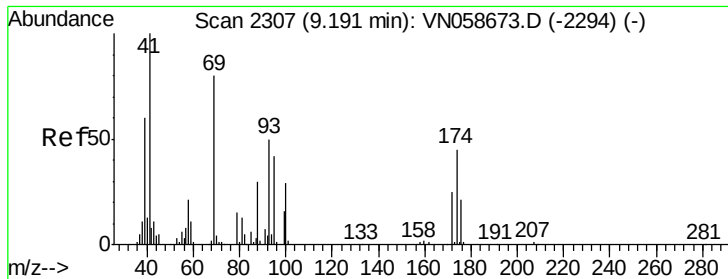
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#34
 Benzene
 Concen: 2.385 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. -0.01 min
 Lab File: VN058682.D
 Acq: 10 Oct 2019 22:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		44614		
77	23.5	19.2	28.8		
51	139.0	22.1	33.1#		





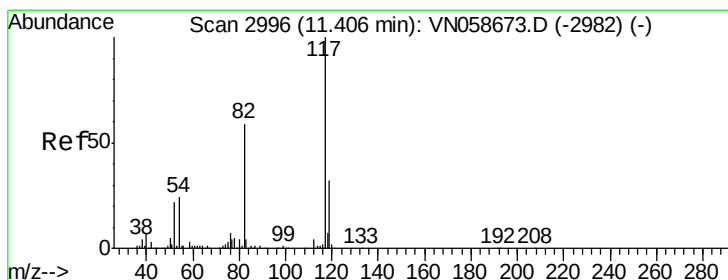
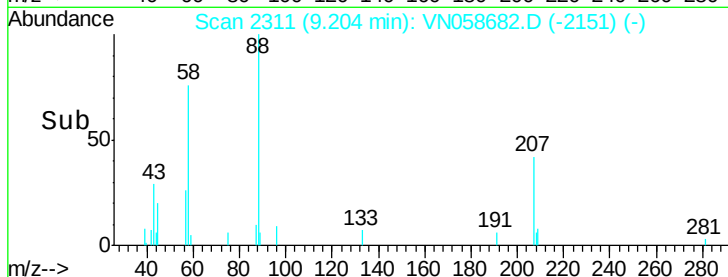
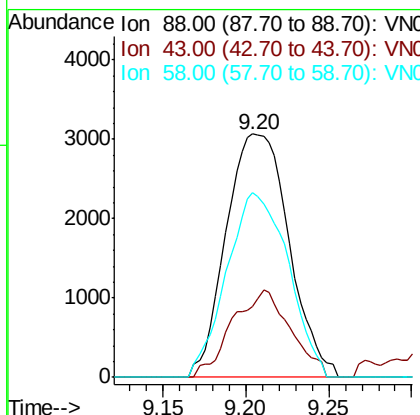
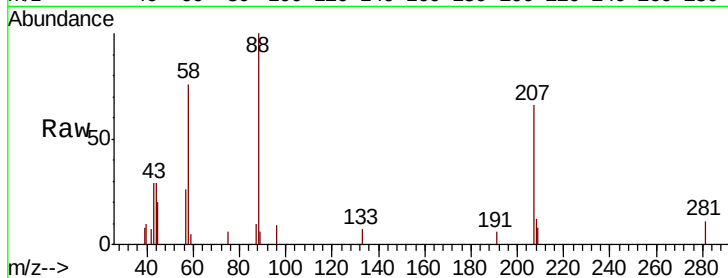
#45
 1,4-Dioxane
 Concen: 92.409 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.01 min
 Lab File: VN058682.D
 Acq: 10 Oct 2019 22:14

Instrument :
 MSVOA_N
 ClientSampleId :
 391009764.2-VOA

Tot Ion	Ratio	Lower	Upper
88	100		
43	19.4	29.8	44.8#
58	74.2	58.2	87.4

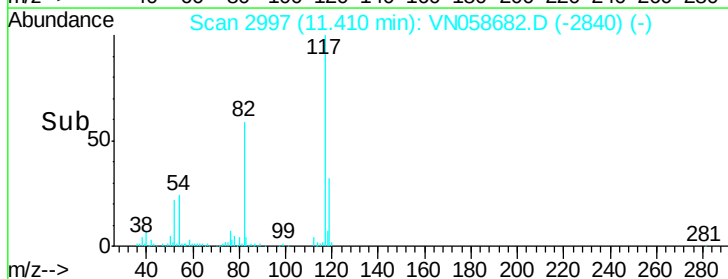
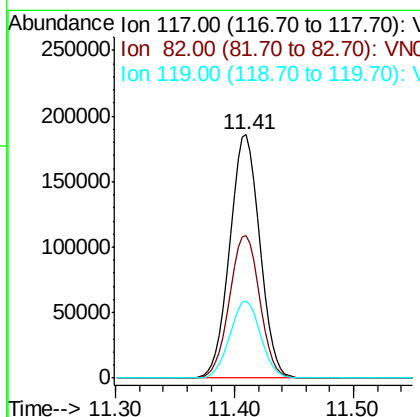
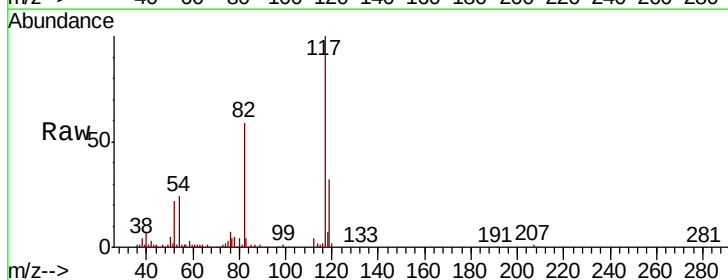
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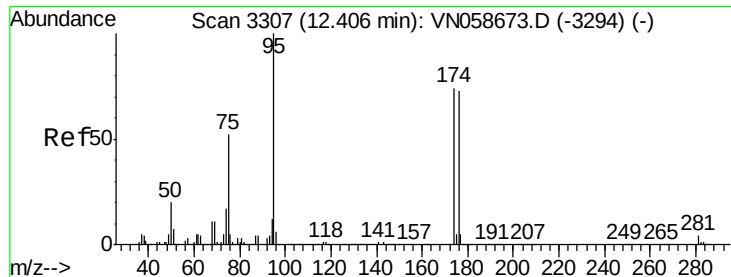
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#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2997
 Delta R.T. 0.00 min
 Lab File: VN058682.D
 Acq: 10 Oct 2019 22:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.2	46.9	70.3
119	32.4	25.8	38.6





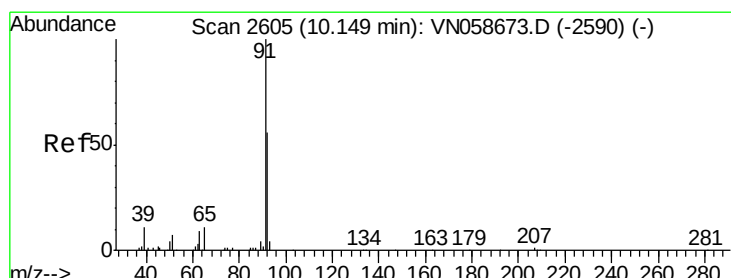
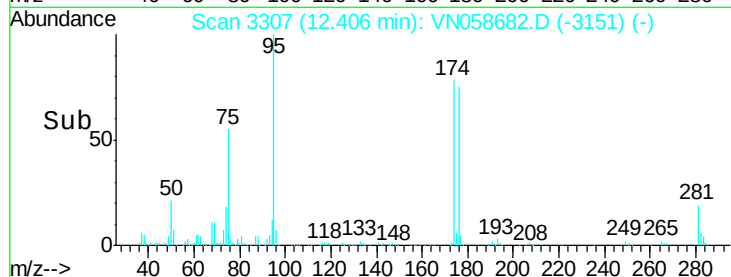
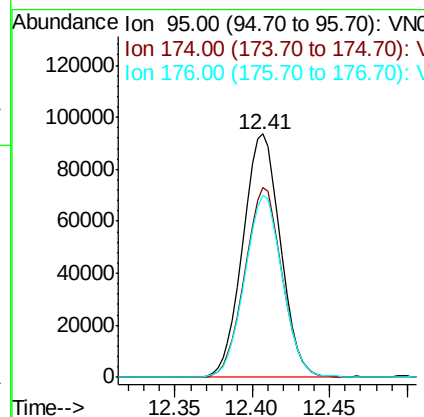
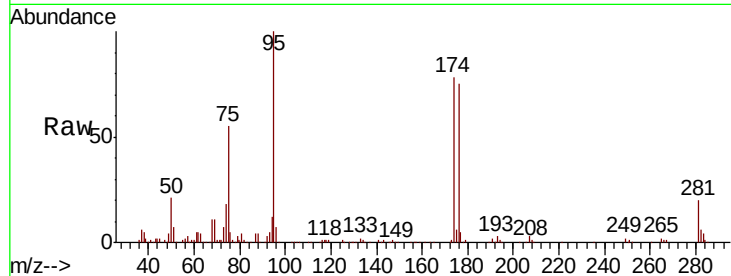
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4-Bromofluorobenzene
Concen: 27.764 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Instrument :
MSVOA_N
ClientSampleId :
391009764.2-VOA

Tot Ion	Ratio	Lower	Upper
95	100		
174	77.3	59.9	89.9
176	75.3	58.3	87.5

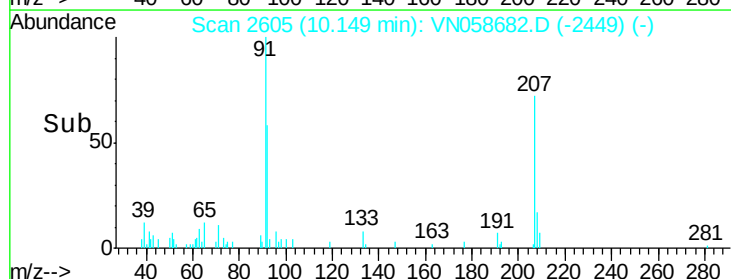
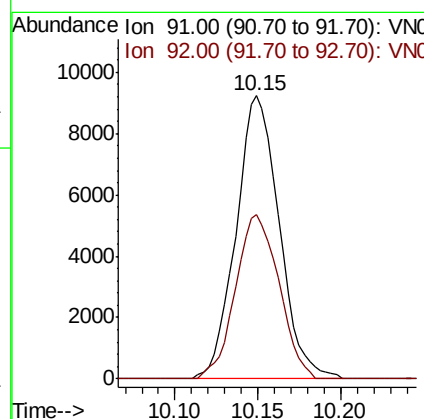
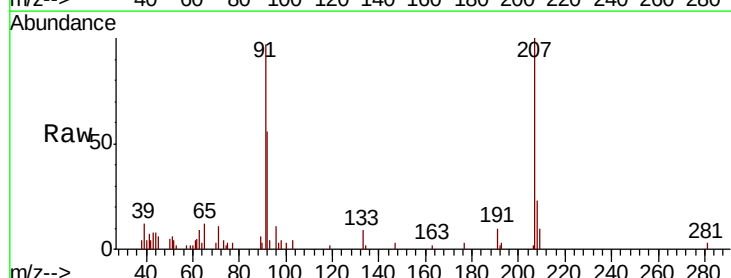
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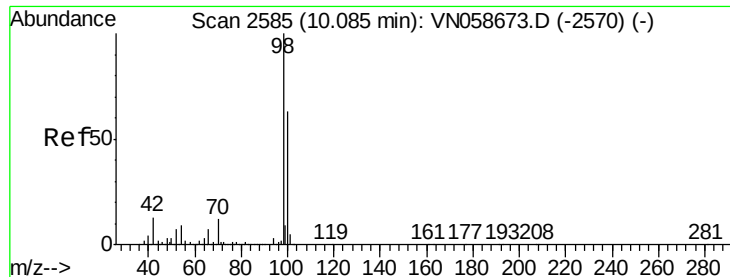
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#62
Toluene
Concen: 0.958 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.5	45.4	68.2





#63

Toluene-d8

Concen: 31.229 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058682.D

Acq: 10 Oct 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

391009764.2-VOA

Tot Ion: 98 Resp: 479191

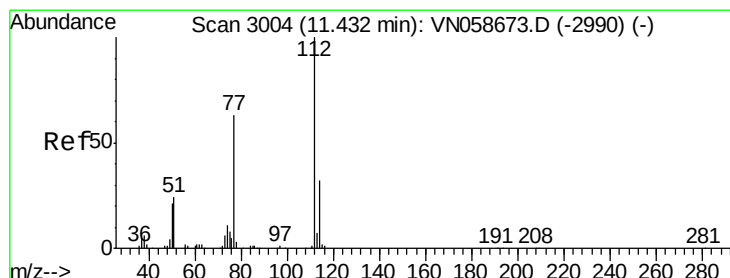
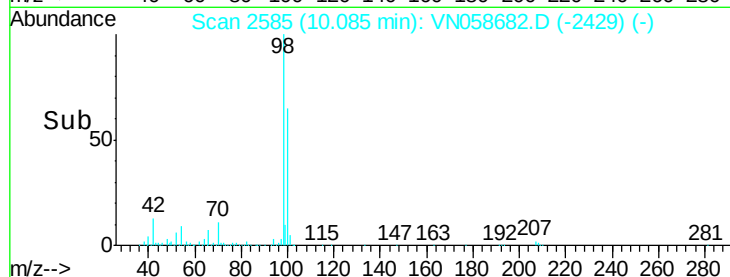
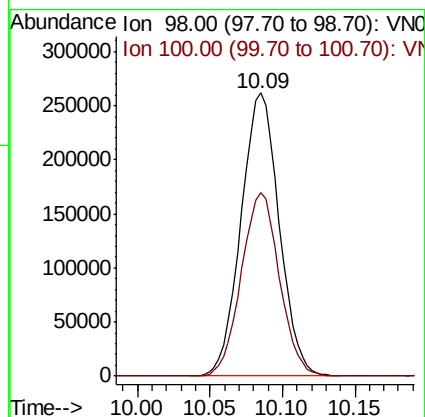
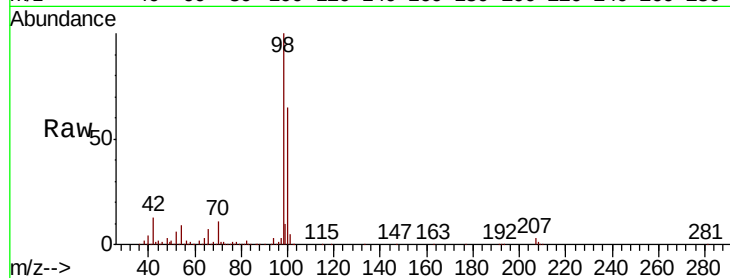
Ion Ratio Lower Upper

98 100

100 64.8 50.6 75.8

Manual Integrations
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10/11/2019 2:47:11 PM



#64

Chlorobenzene

Concen: 13.655 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058682.D

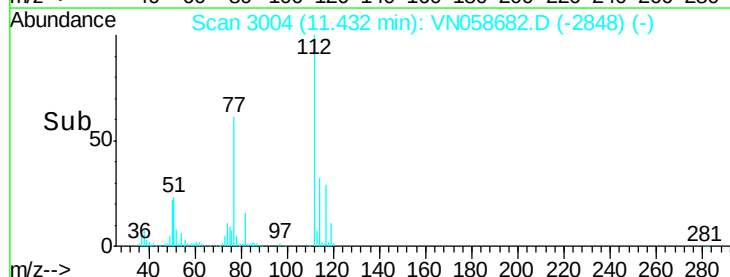
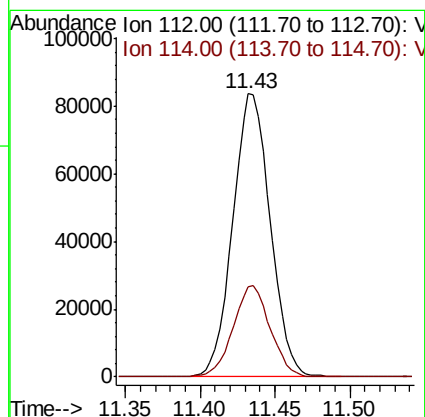
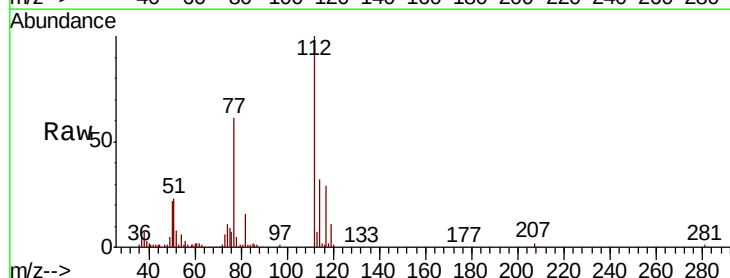
Acq: 10 Oct 2019 22:14

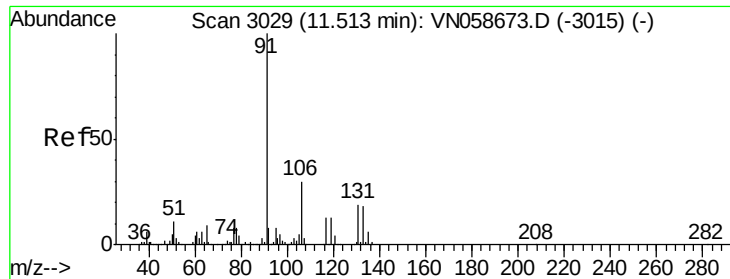
Tgt Ion: 112 Resp: 145936

Ion Ratio Lower Upper

112 100

114 31.7 25.7 38.5





#66

Ethyl Benzene

Concen: 2.258 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058682.D

Acq: 10 Oct 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

391009764.2-VOA

Tot Ion: 91 Resp: 43712

Ion Ratio Lower Upper

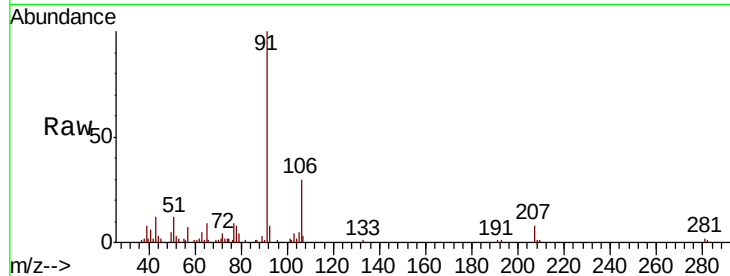
91 100

106 29.7 24.2 36.4

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Abundance Ion 91.00 (90.70 to 91.70): VN058673.D (-3015) (-)

Ion 106.00 (105.70 to 106.70): VN058673.D (-3015) (-)

11.51

25000

20000

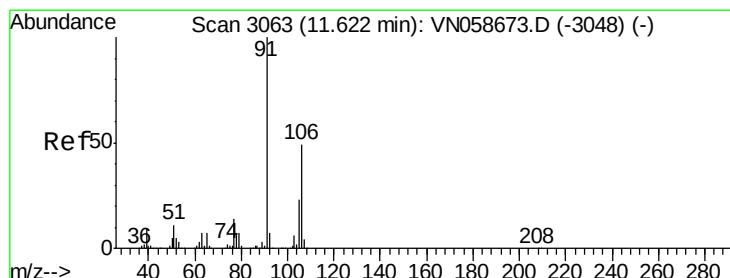
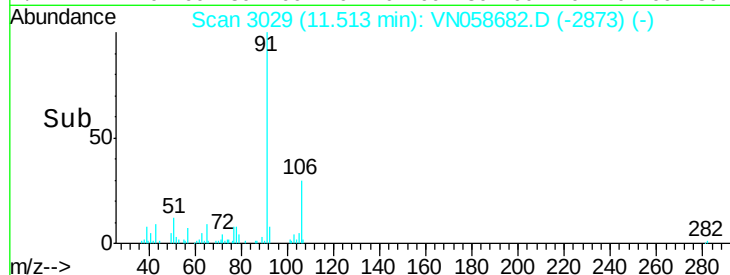
15000

10000

5000

0

Time-->



#67

m/p-Xylenes

Concen: 4.130 ug/l

RT: 11.63 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VN058682.D

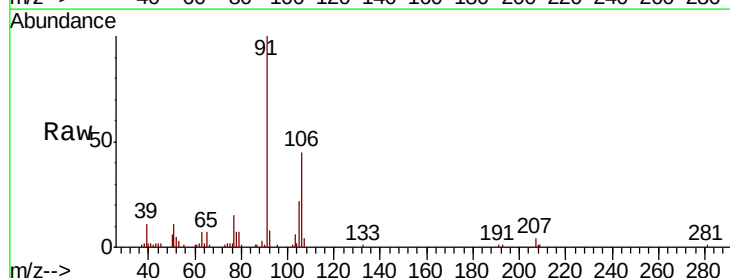
Acq: 10 Oct 2019 22:14

Tgt Ion: 106 Resp: 29867

Ion Ratio Lower Upper

106 100

91 221.2 165.6 248.4



Abundance Ion 106.00 (105.70 to 106.70): VN058673.D (-3048) (-)

Ion 91.00 (90.70 to 91.70): VN058673.D (-3048) (-)

11.63

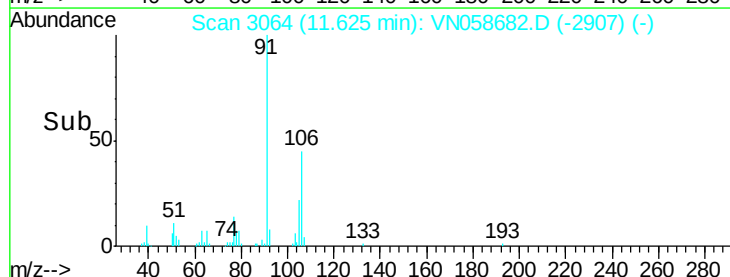
30000

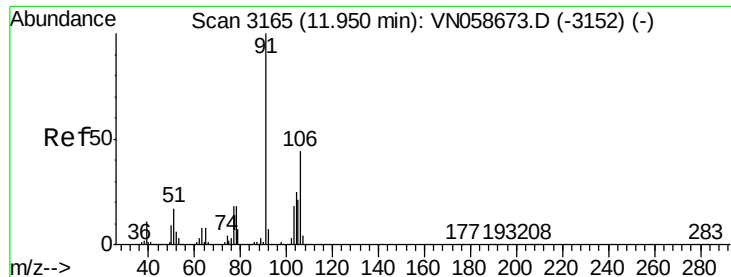
20000

10000

0

Time-->





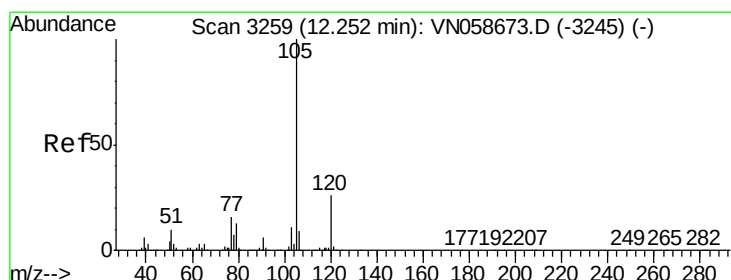
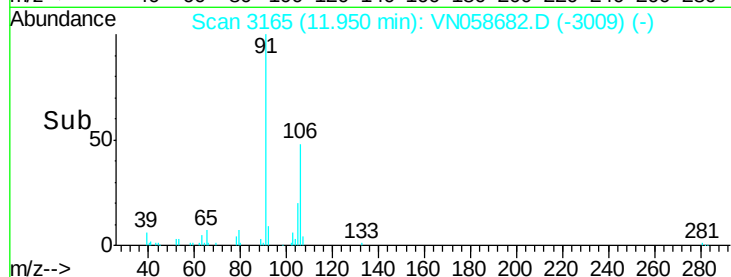
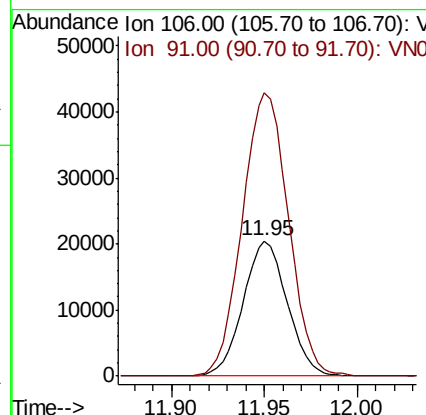
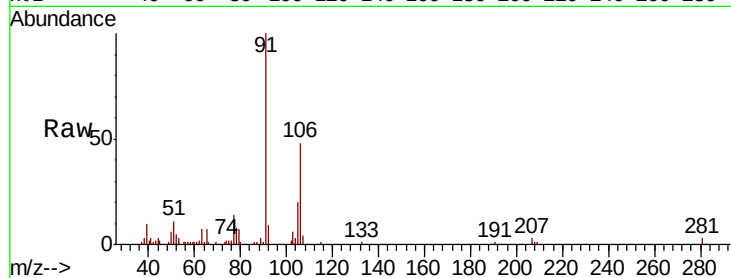
#68
o-Xylene
Concen: 4.806 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Instrument :
MSVOA_N
ClientSampleId :
391009764.2-VOA

Tot Ion:106 Resp: 33693
Ion Ratio Lower Upper
106 100
91 219.6 109.8 329.4

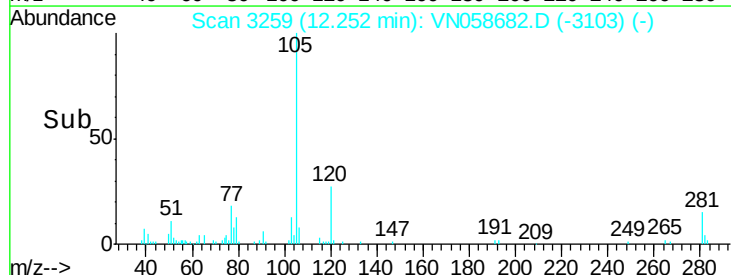
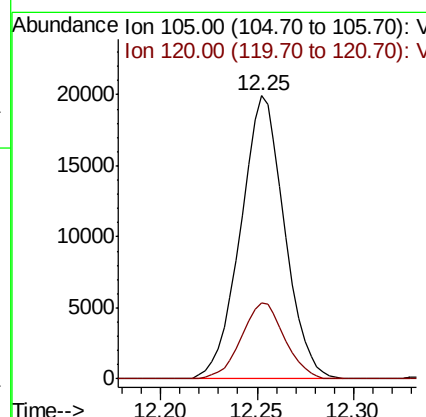
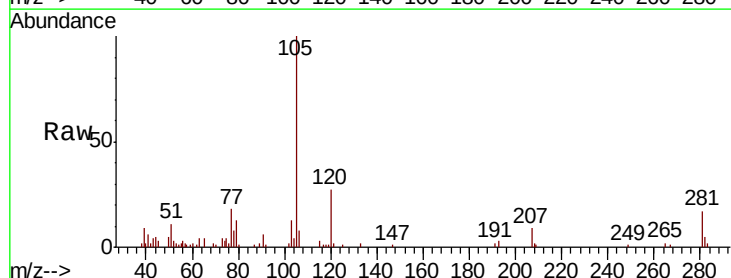
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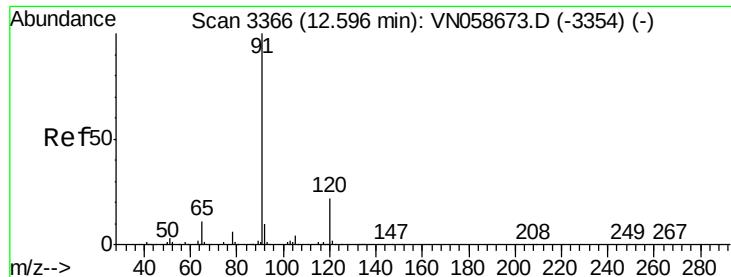
MMDadoda
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#70
Isopropylbenzene
Concen: 1.664 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Tgt Ion:105 Resp: 31499
Ion Ratio Lower Upper
105 100
120 26.4 18.4 34.2





#74

n-propylbenzene

Concen: 0.882 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058682.D

Acq: 10 Oct 2019 22:14

Instrument :

MSVOA_N

ClientSampleId :

391009764.2-VOA

Tot Ion: 91 Resp: 19534

Ion Ratio Lower Upper

91 100

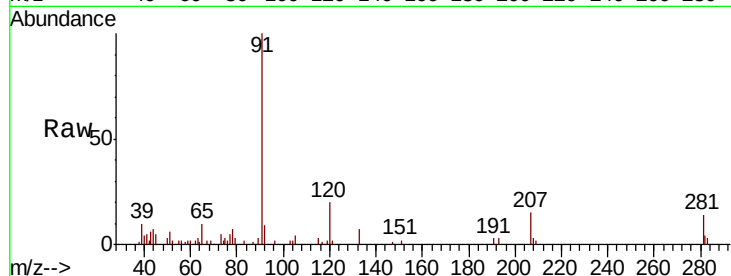
120 21.3 0.0 43.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

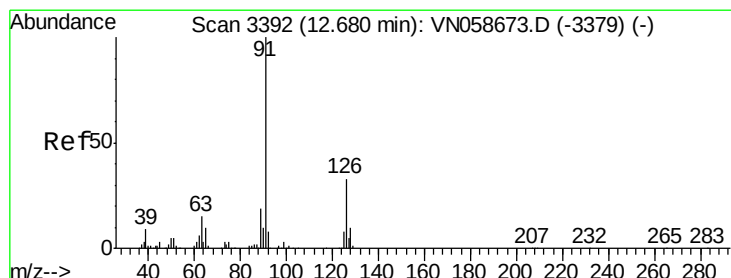
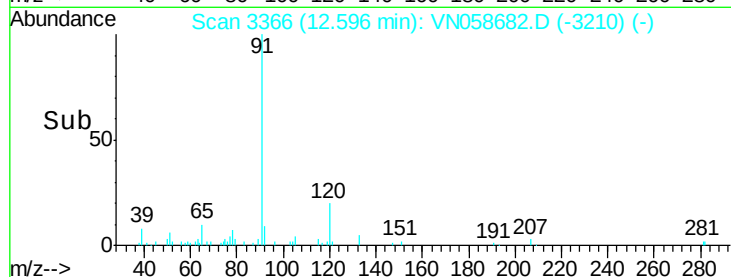
12.60

10000

5000

0

Time-->



#75

2-Chlorotoluene

Concen: 0.864 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058682.D

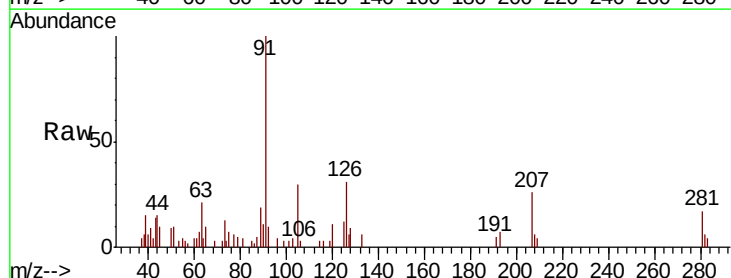
Acq: 10 Oct 2019 22:14

Tgt Ion: 91 Resp: 11515

Ion Ratio Lower Upper

91 100

126 32.1 0.0 65.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

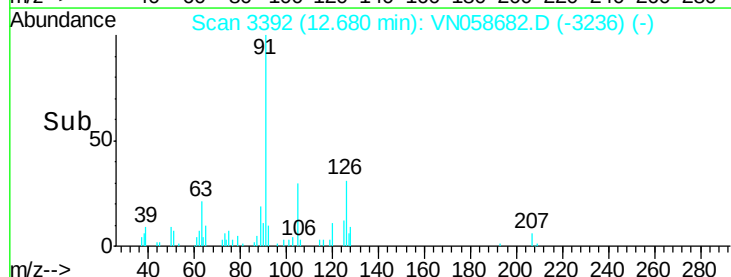
12.68

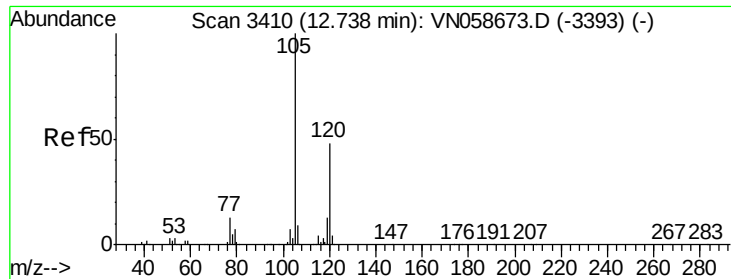
10000

5000

0

Time-->





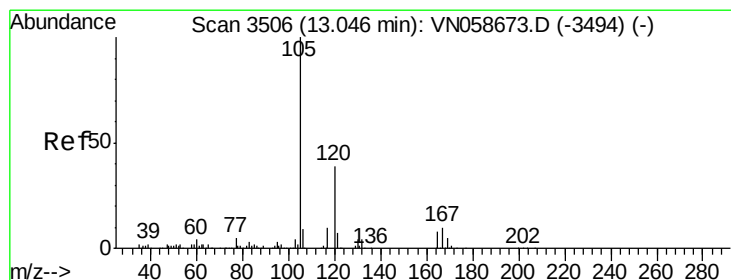
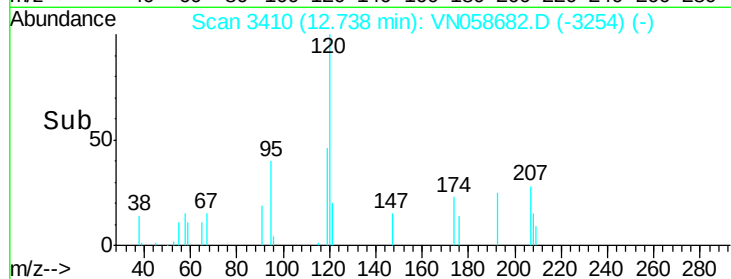
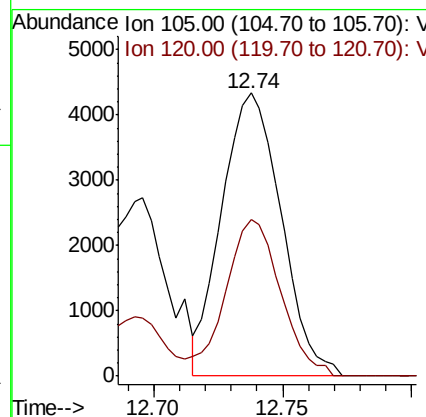
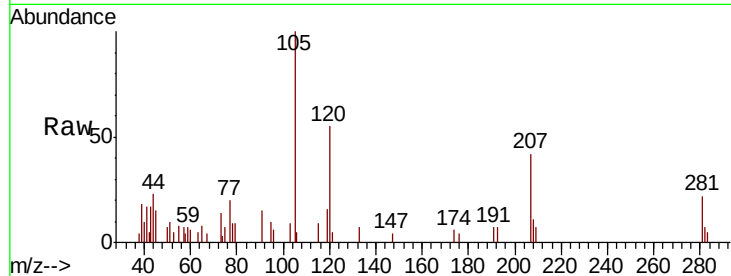
#76
 1,3,5-Trimethylbenzene
 Concen: 0.430 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058682.D
 Acq: 10 Oct 2019 22:14

Instrument :
 MSVOA_N
 ClientSampleId :
 391009764.2-VOA

Tot Ion	Ratio	Resp	Lower	Upper
105	100	6963		
120	51.4	0.0	94.0	

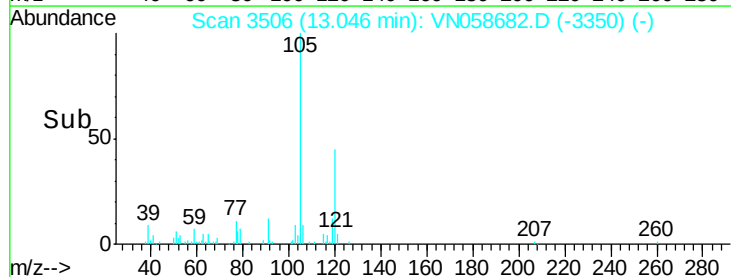
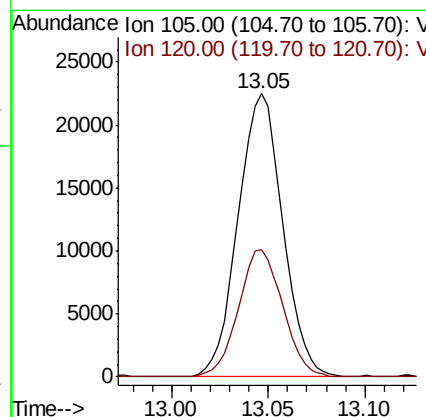
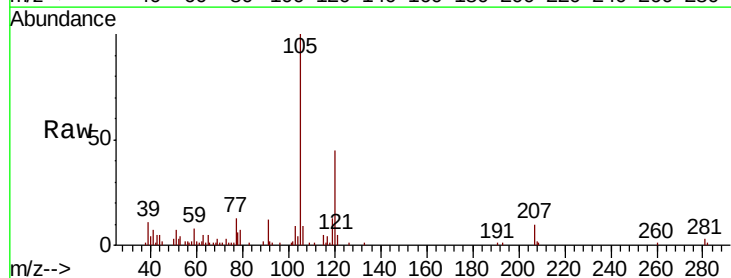
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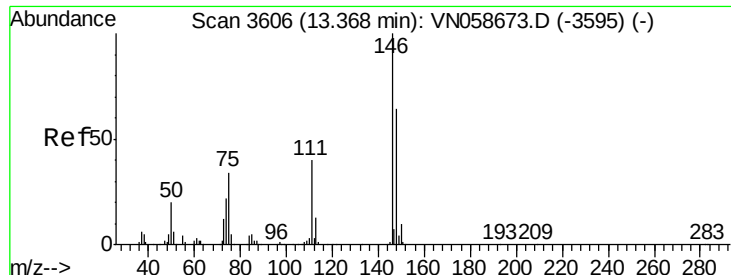
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#80
 1,2,4-Trimethylbenzene
 Concen: 2.242 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058682.D
 Acq: 10 Oct 2019 22:14

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	36109		
120	44.4	0.0	89.2	





#84

1,4-Dichlorobenzene

Concen: 9.146 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VN058682.D

Acq: 10 Oct 2019 22:14

Instrument :

MSVOA_N

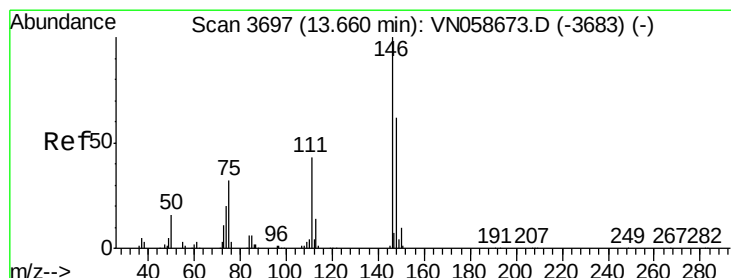
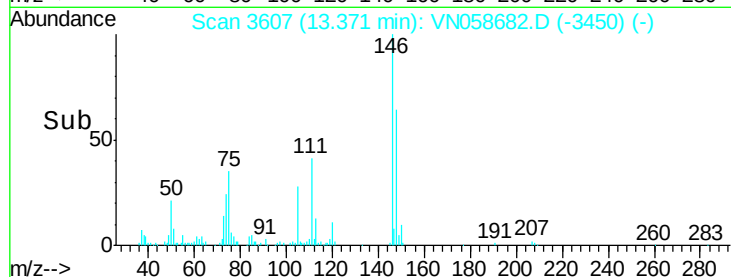
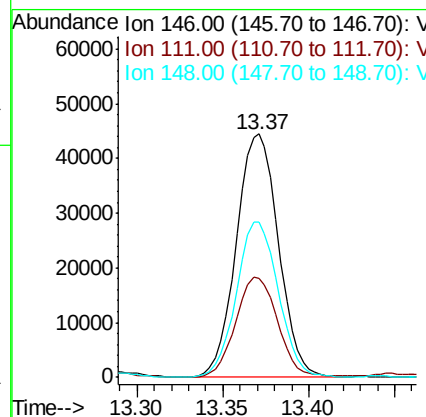
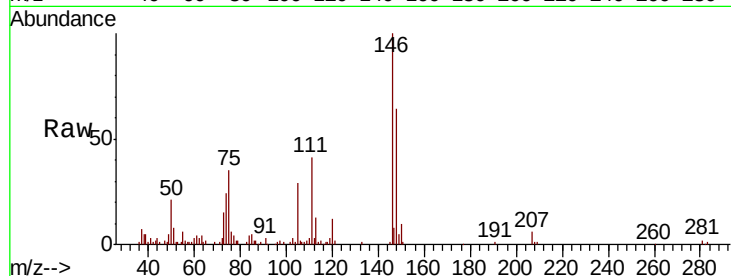
ClientSampleId :

391009764.2-VOA

Tot Ion:	146	Resp:	75995
Ion Ratio	Lower	Upper	
146	100		
111	40.2	19.8	59.4
148	63.6	31.6	94.8

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#87

1,2-Dichlorobenzene

Concen: 0.813 ug/l

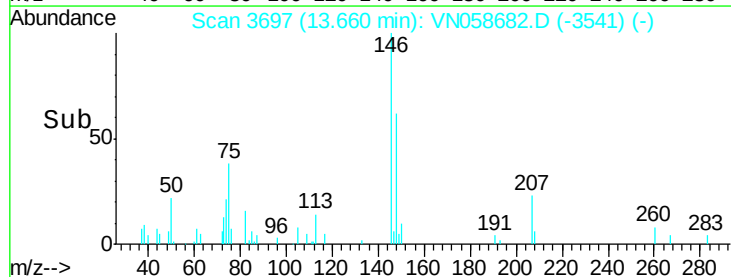
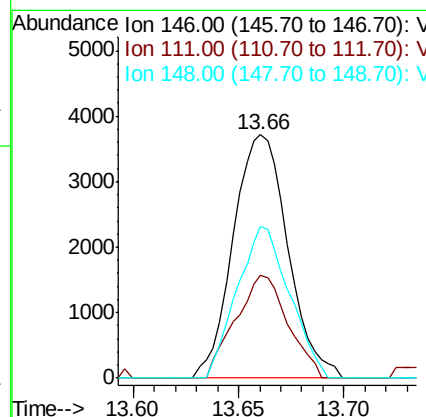
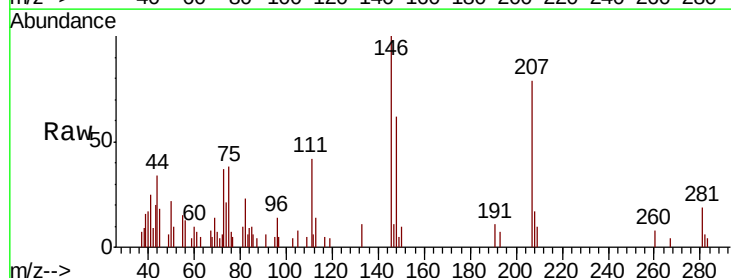
RT: 13.66 min Scan# 3697

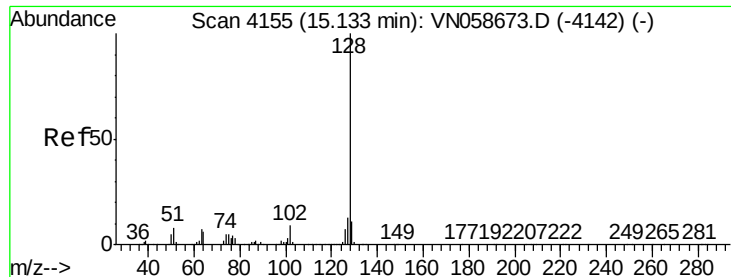
Delta R.T. 0.00 min

Lab File: VN058682.D

Acq: 10 Oct 2019 22:14

Tgt Ion:	146	Resp:	6681
Ion Ratio	Lower	Upper	
146	100		
111	40.5	21.8	65.4
148	59.8	32.1	96.5





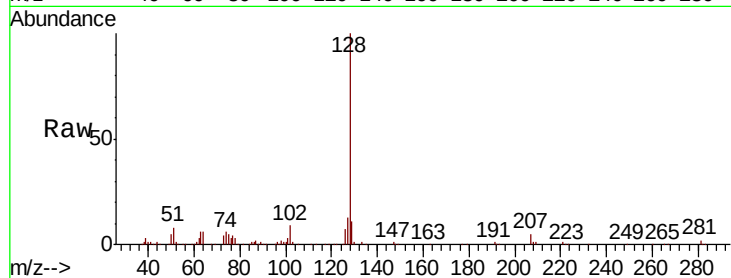
#91
Naphthalene
Concen: 14.949 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058682.D
Acq: 10 Oct 2019 22:14

Instrument :
MSVOA_N
ClientSampleId :
391009764.2-VOA

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.2	8.6	13.0

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Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

