

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059286.D
 Acq On : 18 Nov 2019 16:06
 Operator : JC/SP
 Sample : K5900-02DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30695DL

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:03:30 AM

Quant Time: Nov 19 08:23:46 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	7.65	168	496712	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	771799	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	680132	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	341147	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	278955	45.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.38%	
35) Dibromofluoromethane	7.57	113	231429	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
50) Toluene-d8	10.08	98	942073	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	
62) 4-Bromofluorobenzene	12.40	95	333318	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.39	74	9516	2.969	ug/l	97
11) Tert butyl alcohol	4.75	59	240970	207.082	ug/l #	91
16) Acetone	3.79	43	966386	304.357	ug/l	98
18) Methyl Acetate	4.30	43	167141	22.177	ug/l	97
19) Methyl tert-butyl Ether	5.01	73	514628	32.260	ug/l	100
25) 2-Butanone	6.81	43	342369	81.815	ug/l	98
29) Tetrahydrofuran	7.19	42	21001	7.898	ug/l	97
31) Cyclohexane	7.64	56	18510	1.947	ug/l #	20
40) Benzene	8.02	78	1569418	72.243	ug/l	100
43) Isopropyl Acetate	8.15	43	35478m	2.773	ug/l	
51) 4-Methyl-2-Pentanone	9.97	43	94205	13.013	ug/l	95
52) Toluene	10.15	92	1144600	87.906	ug/l	97
59) 2-Hexanone	10.75	43	45085	8.114	ug/l	87
67) Ethyl Benzene	11.51	91	1339661	56.950	ug/l	99
68) m/p-Xylenes	11.62	106	2323114	263.643	ug/l	86
69) o-Xylene	11.95	106	1081443	126.996	ug/l	95
73) Isopropylbenzene	12.25	105	37748	1.521	ug/l	99
78) n-propylbenzene	12.59	91	31423	1.106	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	93615	4.452	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	340659	16.745	ug/l	97
95) Naphthalene	15.13	128	193510	13.325	ug/l	99

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

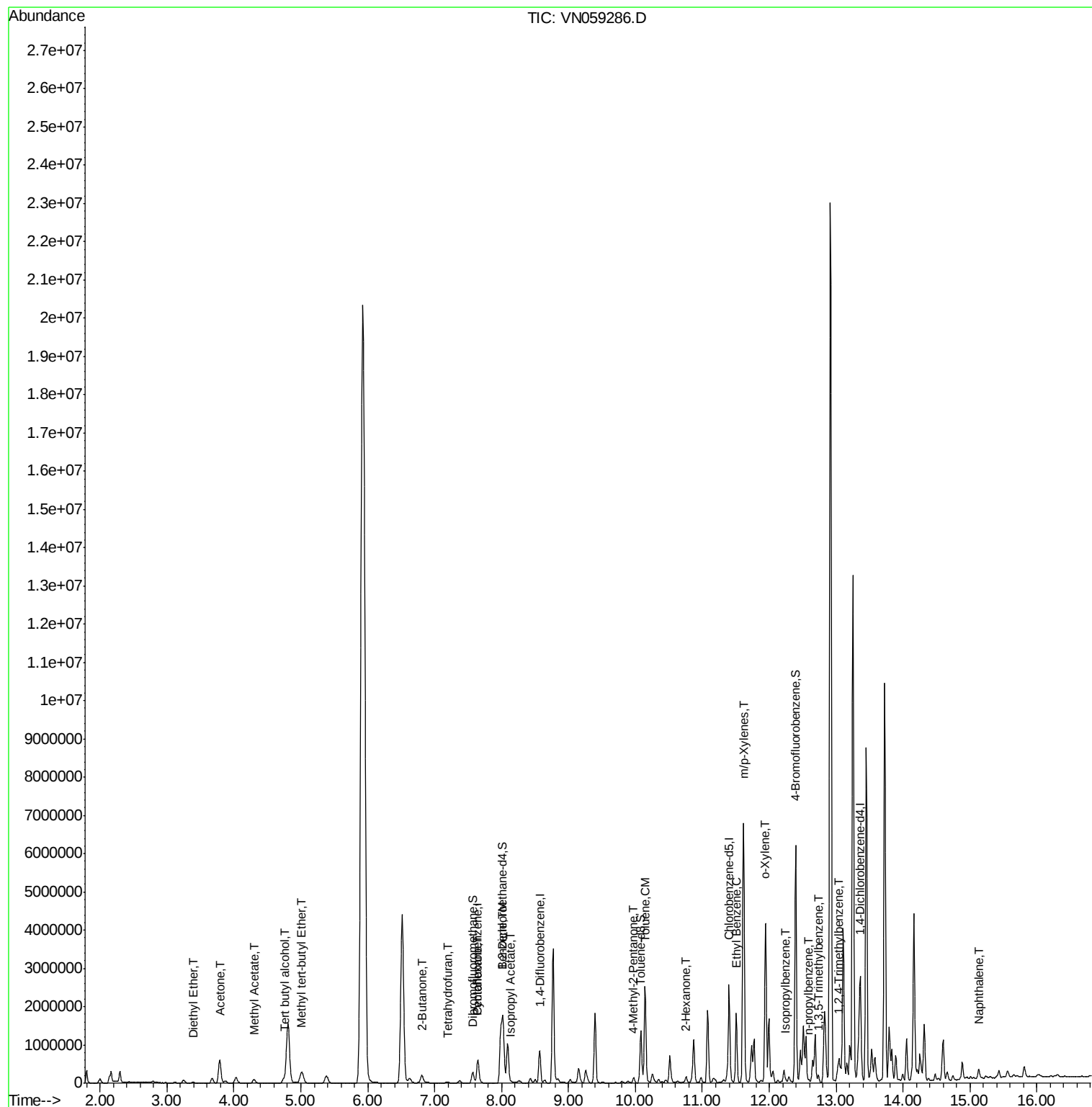
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
Data File : VN059286.D
Acq On : 18 Nov 2019 16:06
Operator : JC/SP
Sample : K5900-02DL 5X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

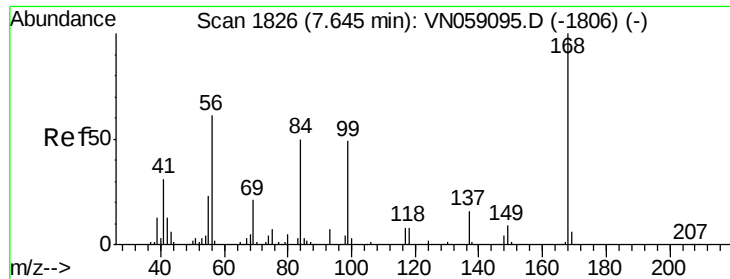
Instrument :
MSVOA_N
ClientSampleId :
30695DL

Manual Integrations
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11/19/2019 11:03:30 AM

Quant Time: Nov 19 08:23:46 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: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleID :

30695DL

Tot Ion:168 Resp: 496712

Ion Ratio Lower Upper

168 100

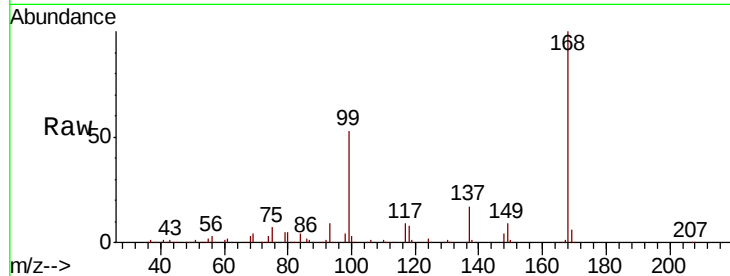
99 53.3 45.7 68.5

Manual Integrations

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11/19/2019 11:03:30 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

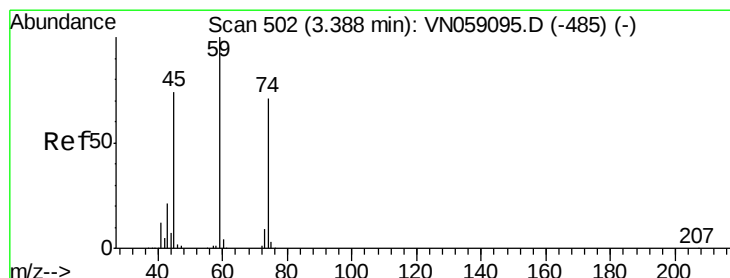
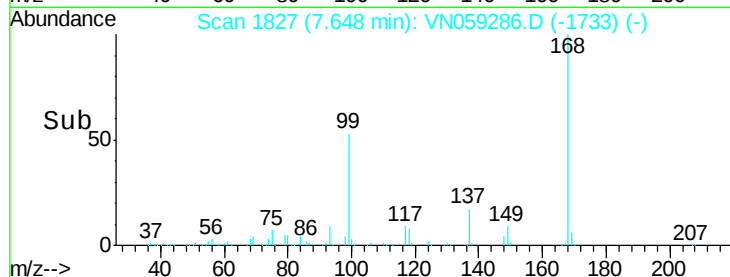
7.50

7.60

7.70

7.80

Time-->



#8

Diethyl Ether

Concen: 2.969 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN059286.D

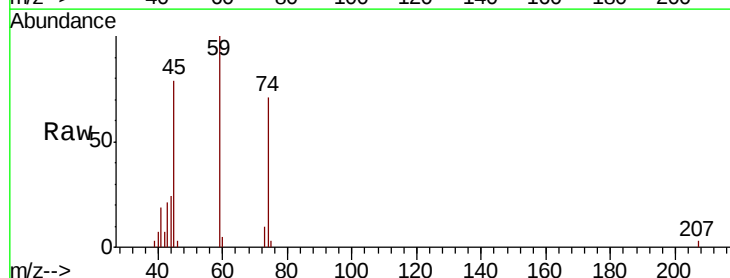
Acq: 18 Nov 2019 16:06

Tgt Ion: 74 Resp: 9516

Ion Ratio Lower Upper

74 100

45 106.4 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

5000

4000

3000

2000

1000

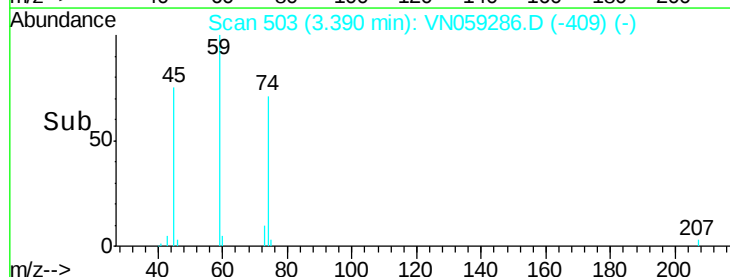
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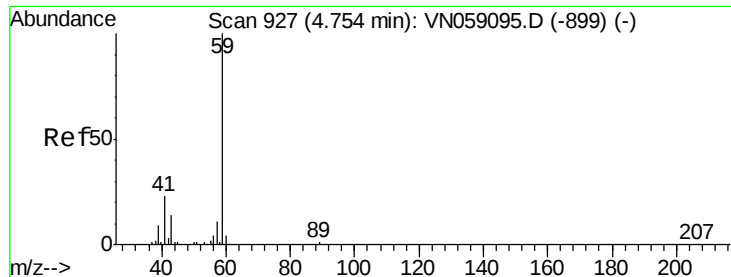
3.35

3.40

3.45

Time-->





#11

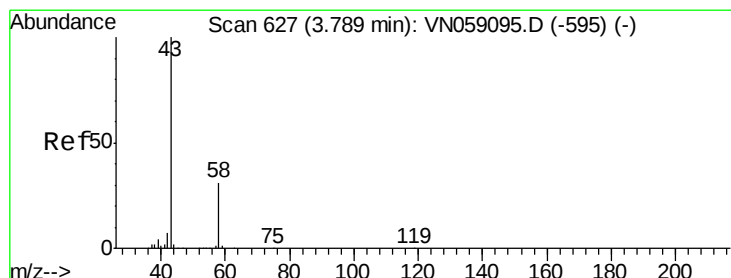
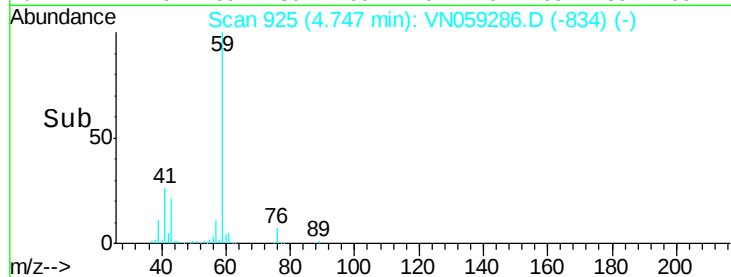
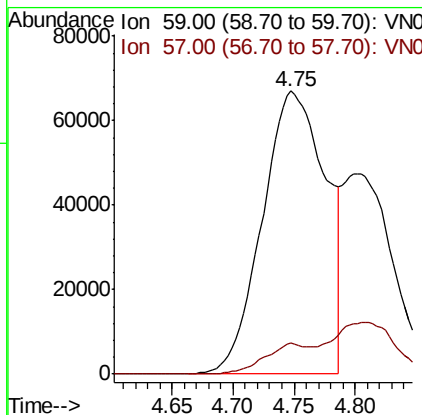
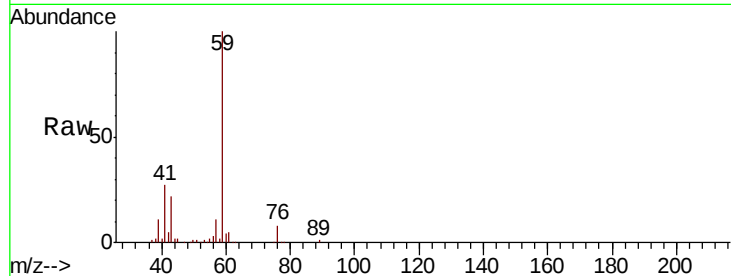
Tert butyl alcohol
 Concen: 207.082 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: VN059286.D
 Acq: 18 Nov 2019 16:06

Instrument :
 MSVOA_N
 ClientSampleId :
 30695DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	240970		
57	57	6.9		8.3	12.5#

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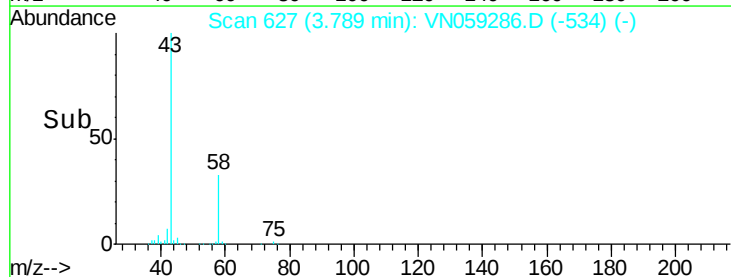
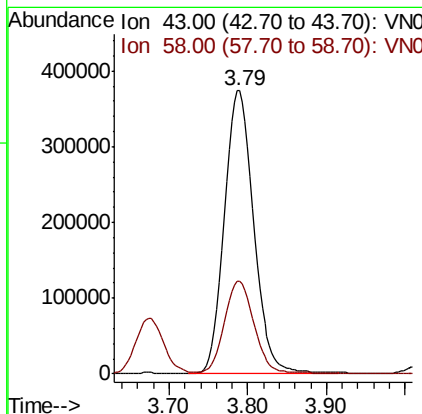
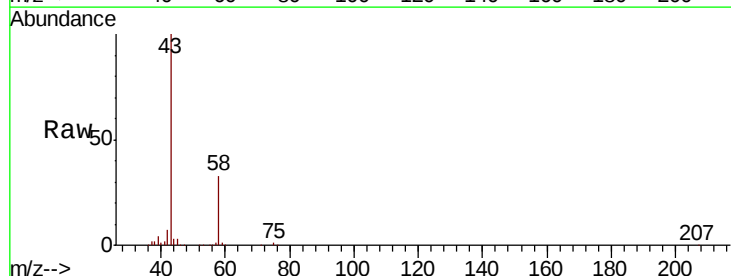
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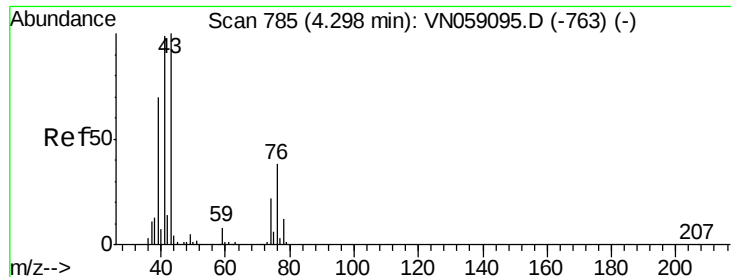


#16

Acetone
 Concen: 304.357 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. -0.00 min
 Lab File: VN059286.D
 Acq: 18 Nov 2019 16:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	43	100	966386		
58	58	32.4		24.9	37.3





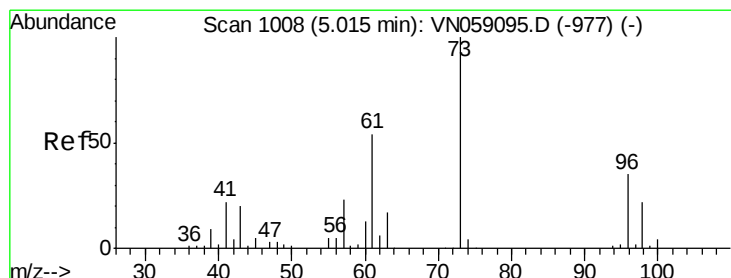
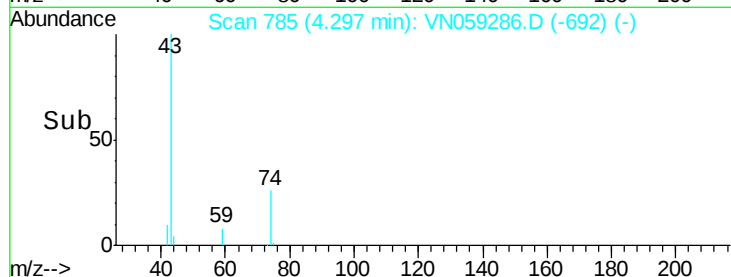
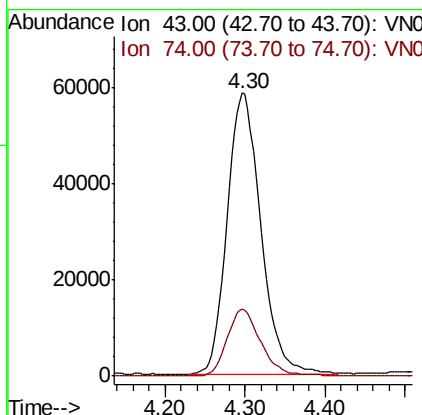
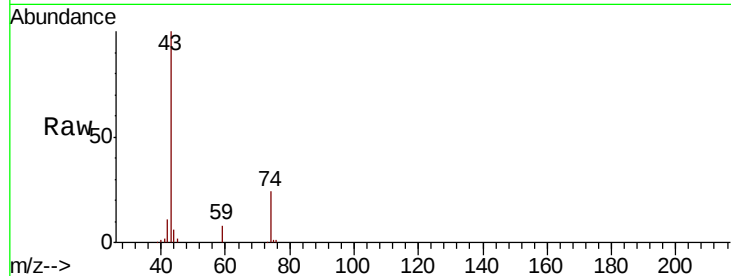
#18
Methyl Acetate
Concen: 22.177 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :
30695DL

Tot Ion: 43 Resp: 167141
Ion Ratio Lower Upper
43 100
74 23.6 17.8 26.8

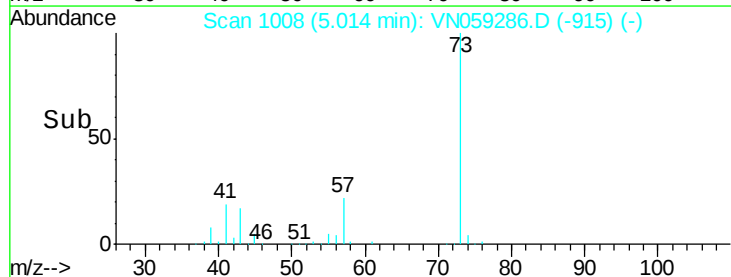
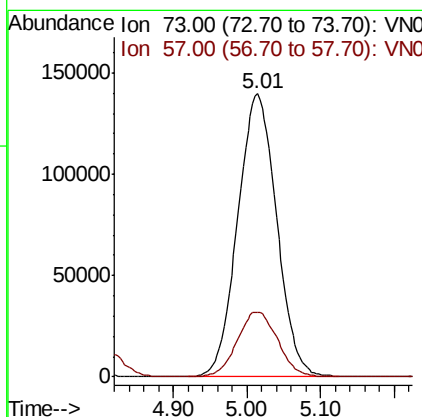
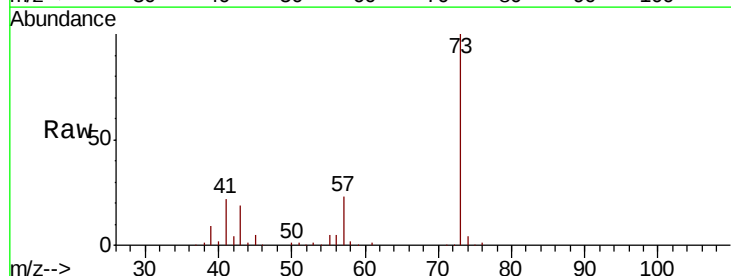
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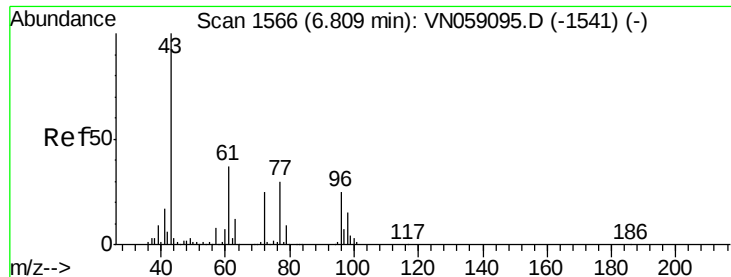
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#19
Methyl tert-butyl Ether
Concen: 32.260 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Tgt Ion: 73 Resp: 514628
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6





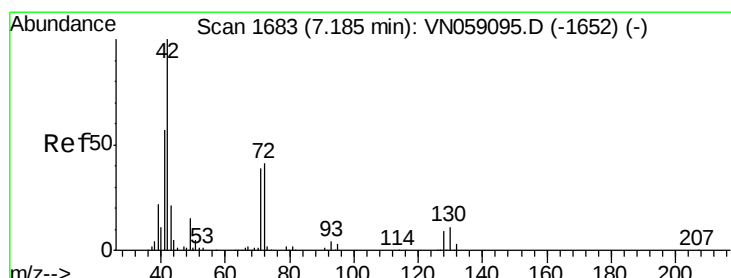
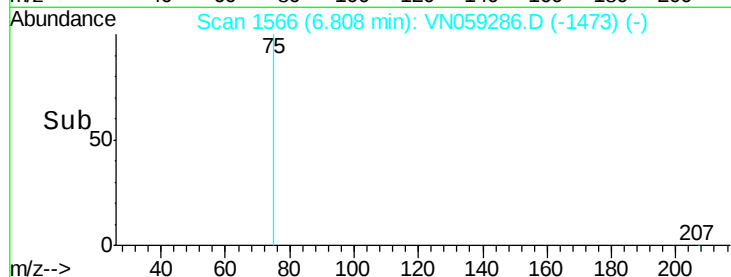
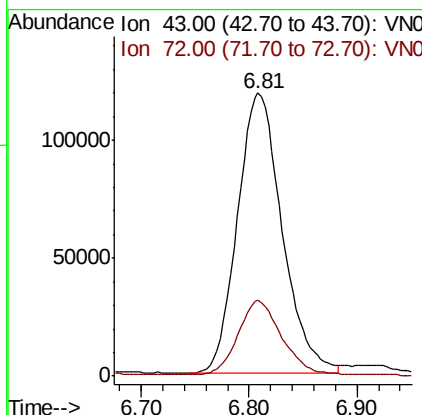
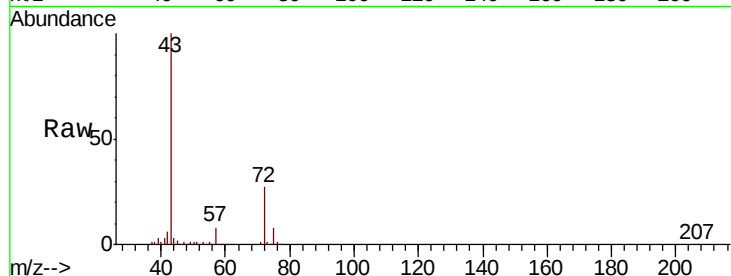
#25
2-Butanone
Concen: 81.815 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampled :
30695DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.4	20.3	30.5

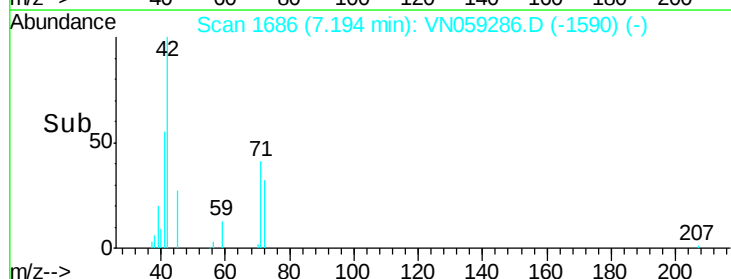
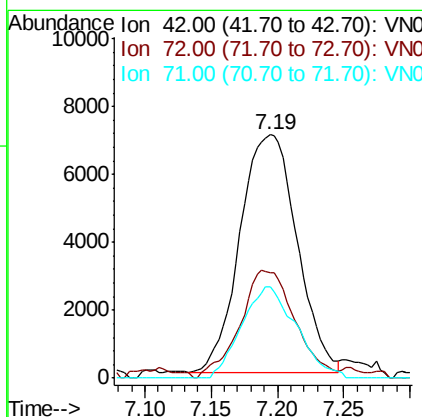
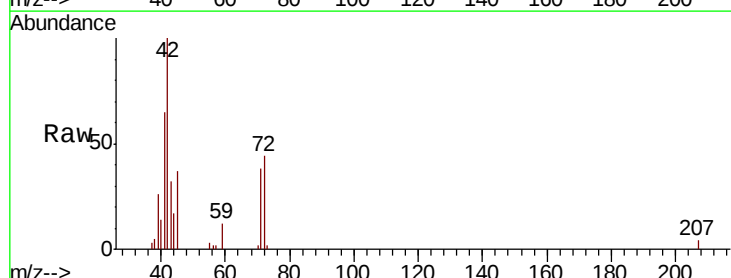
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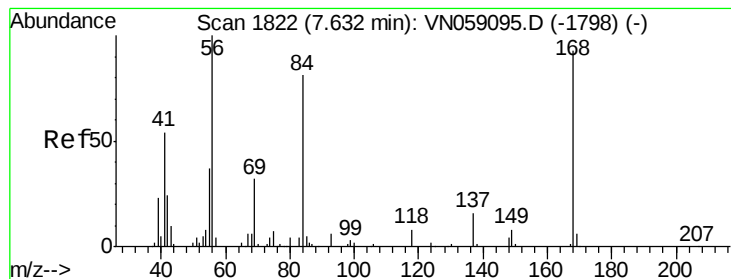
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11/19/2019 11:03:30 AM



#29
Tetrahydrofuran
Concen: 7.898 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.1	49.7
71	36.9	30.9	46.3





#31

Cyclohexane

Concen: 1.947 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

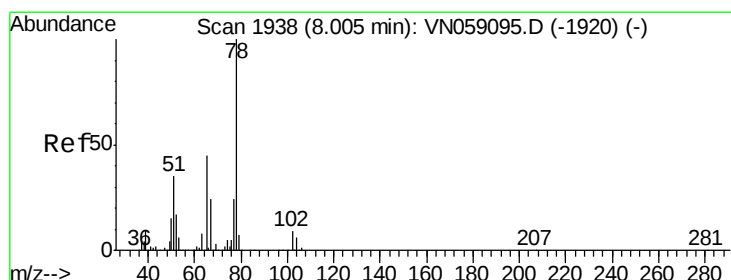
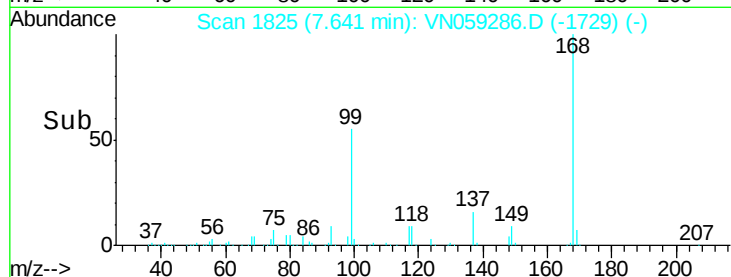
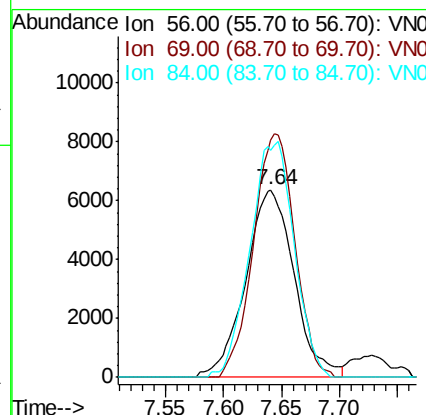
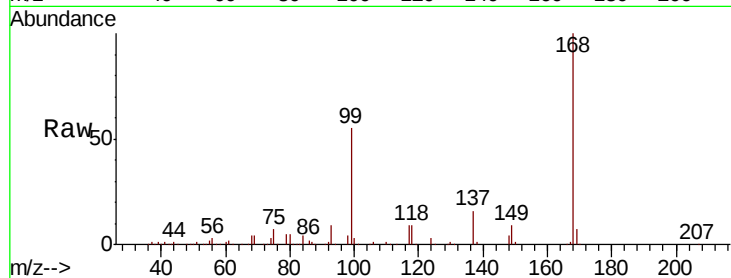
ClientSampled :

30695DL

Tot Ion:	56	Resp:	18510
Ion Ratio	Lower	Upper	
56	100		
69	126.2	25.8	38.8#
84	120.8	65.0	97.4#

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#33

1,2-Dichloroethane-d4

Concen: 45.686 ug/l

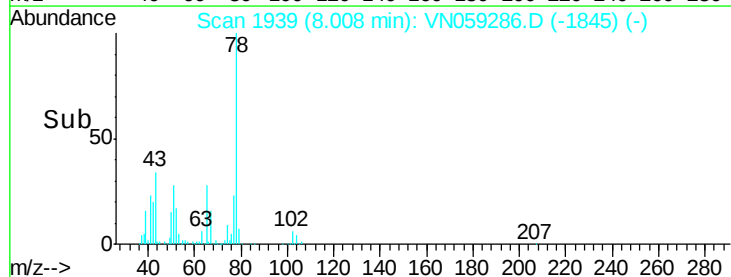
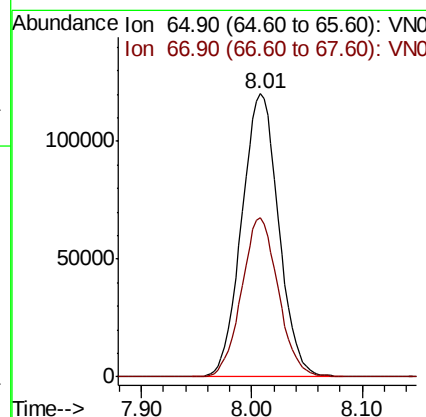
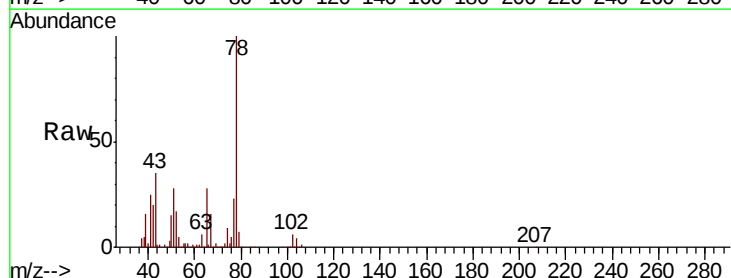
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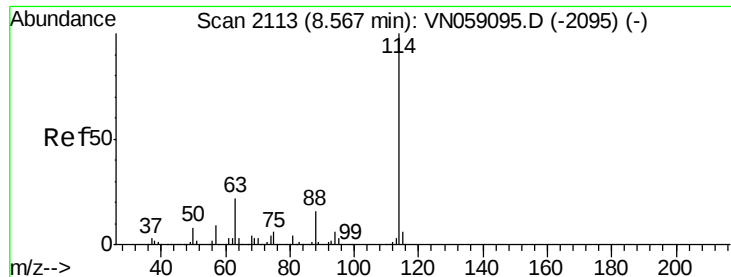
Delta R.T. 0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Tgt Ion:	65	Resp:	278955
Ion Ratio	Lower	Upper	
65	100		
67	55.8	0.0	107.4





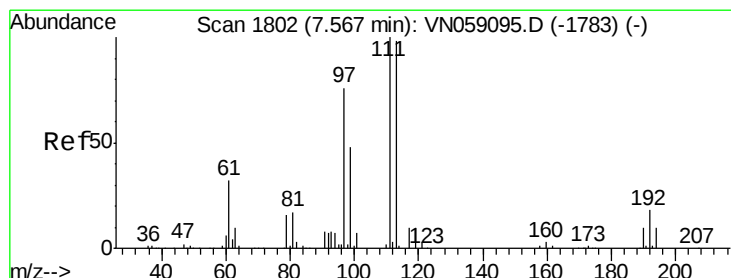
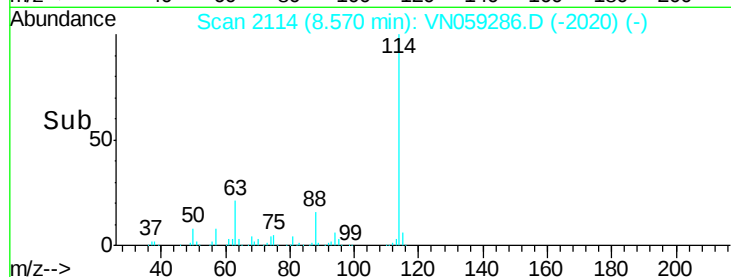
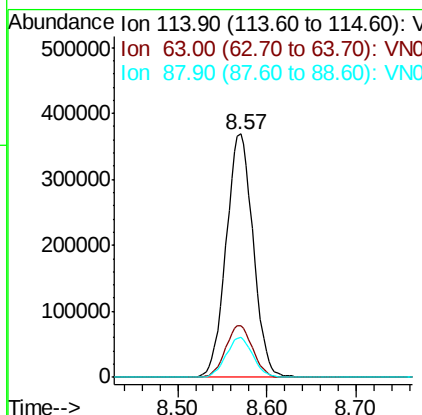
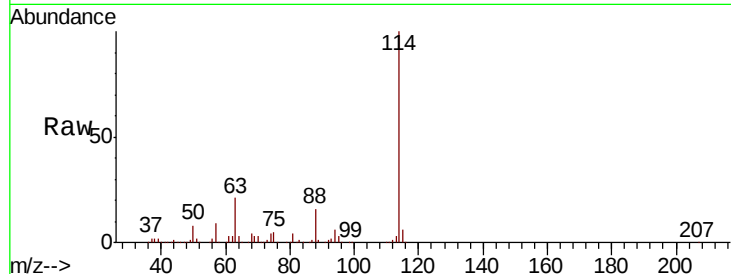
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059286.D
 Acq: 18 Nov 2019 16:06

Instrument :
 MSVOA_N
 ClientSampleId :
 30695DL

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	21.2	0.0	43.4
88	16.2	0.0	32.2

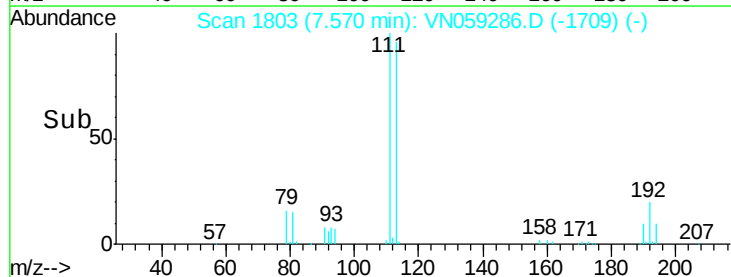
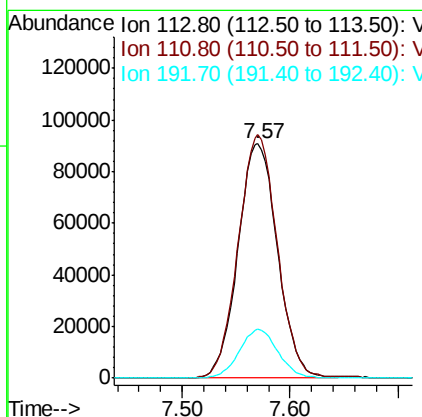
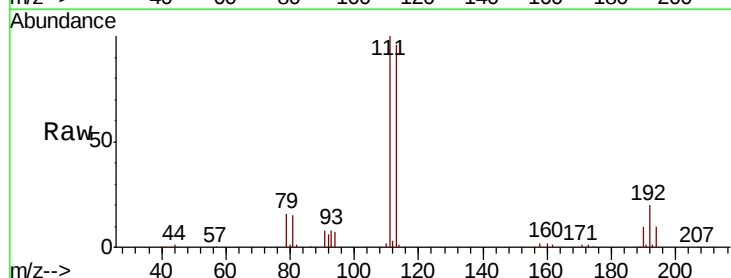
Manual Integrations
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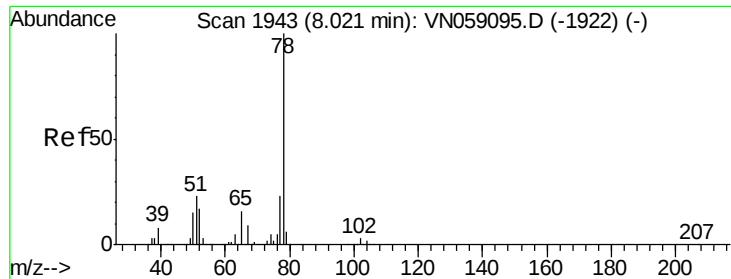
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#35
 Dibromofluoromethane
 Concen: 50.219 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059286.D
 Acq: 18 Nov 2019 16:06

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	102.9	82.8	124.2
192	20.5	16.1	24.1





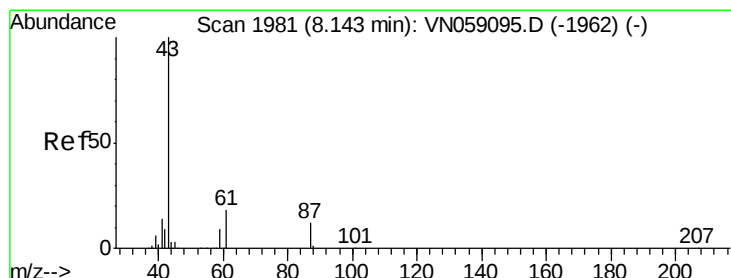
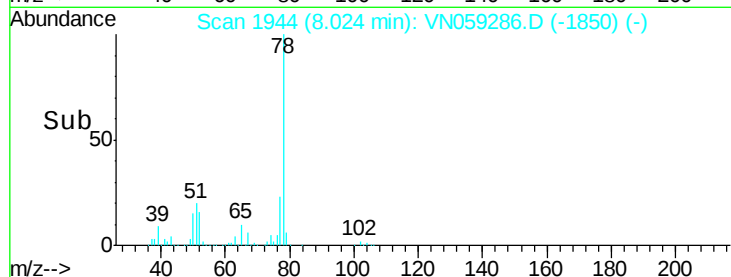
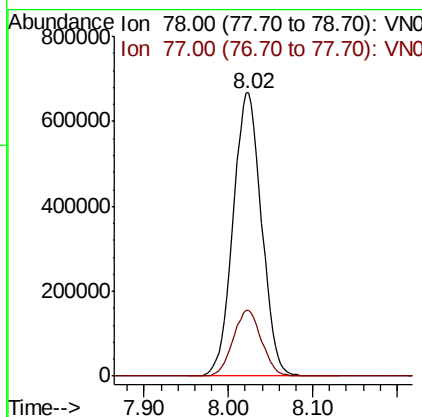
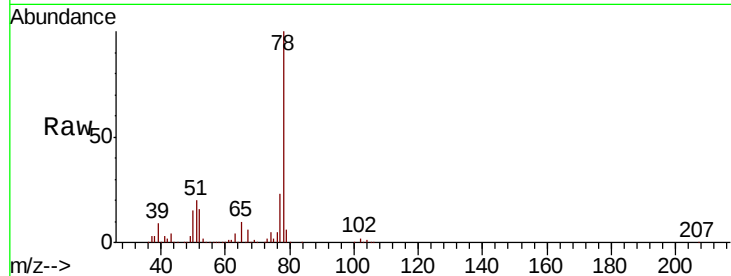
#40
Benzene
Concen: 72.243 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :
30695DL

Tot Ion: 78 Resp: 1569418
Ion Ratio Lower Upper
78 100
77 23.4 18.8 28.2

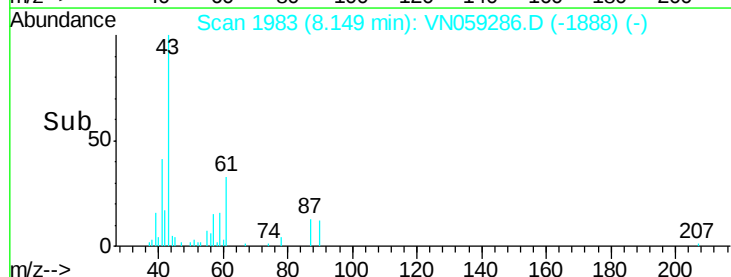
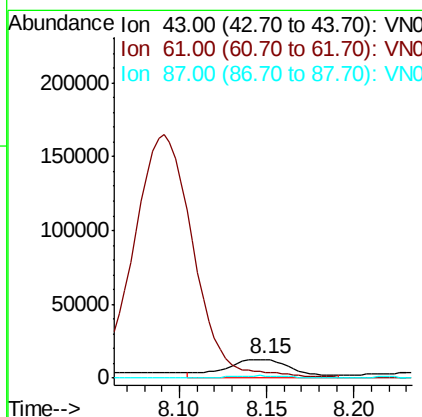
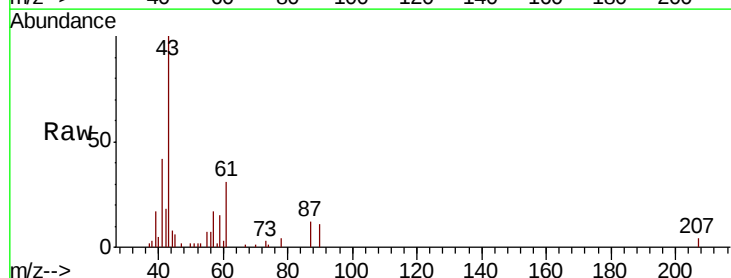
Manual Integrations
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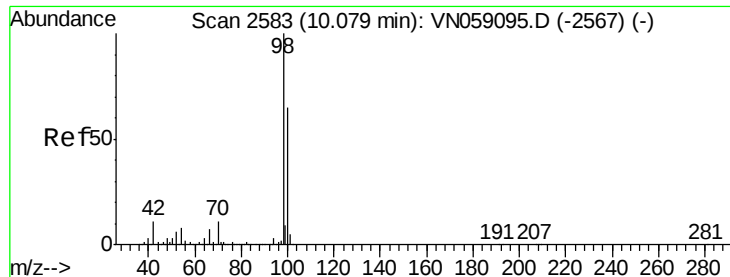
MMDADODA
11/19/2019 11:03:30 AM



#43
Isopropyl Acetate
Concen: 2.773 ug/l m
RT: 8.15 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Tgt Ion: 43 Resp: 35478
Ion Ratio Lower Upper
43 100
61 0.0 21.0 31.6#
87 0.0 9.8 14.6#





#50

Toluene-d8

Concen: 51.899 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampled :

30695DL

Tot Ion: 98 Resp: 942073

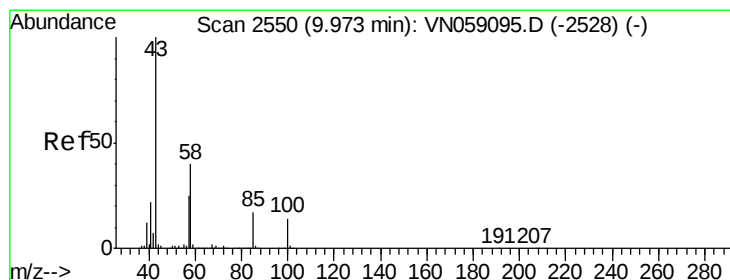
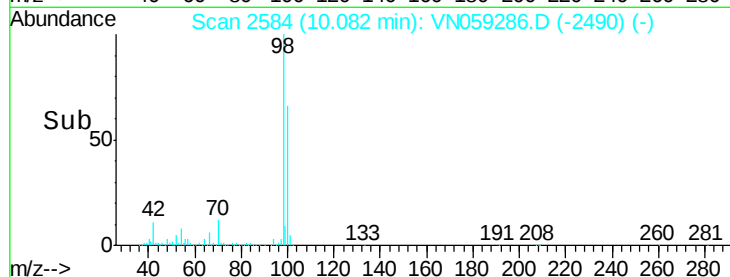
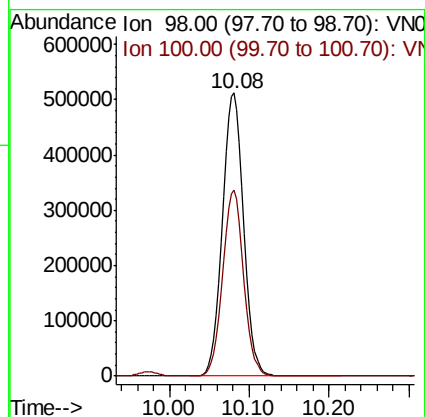
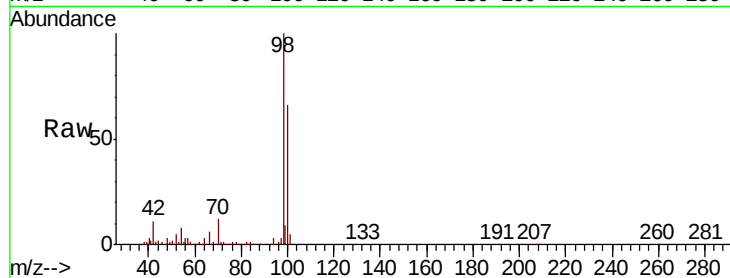
Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2

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#51

4-Methyl-2-Pentanone

Concen: 13.013 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059286.D

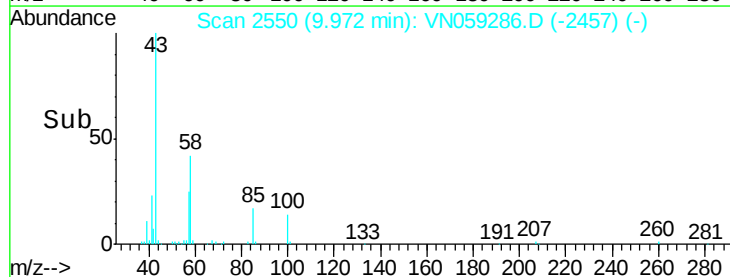
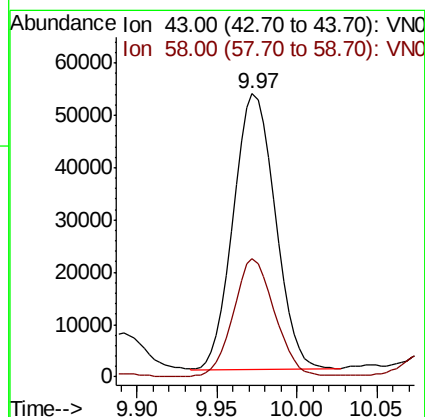
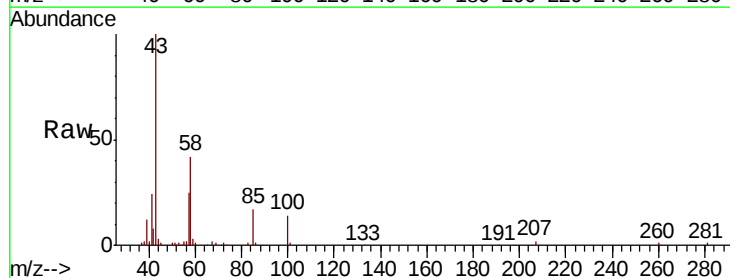
Acq: 18 Nov 2019 16:06

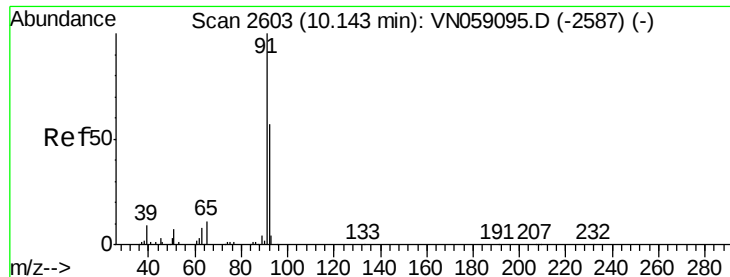
Tgt Ion: 43 Resp: 94205

Ion Ratio Lower Upper

43 100

58 42.3 31.5 47.3





#52

Toluene

Concen: 87.906 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

30695DL

Tot Ion: 92 Resp: 1144600

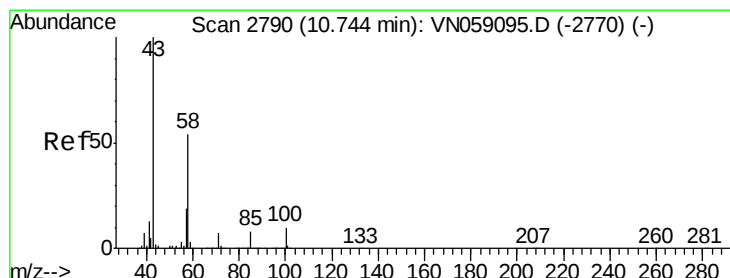
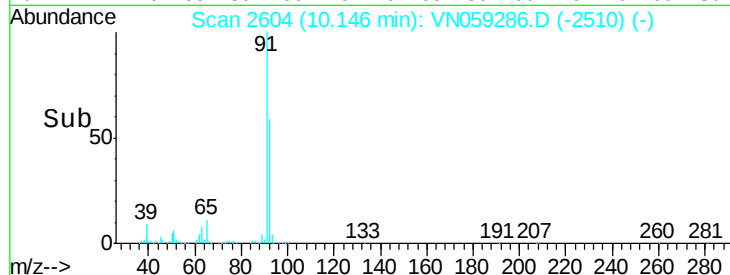
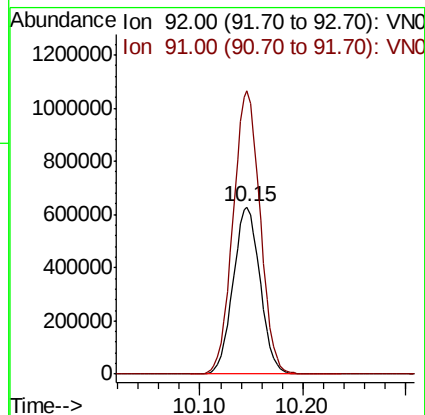
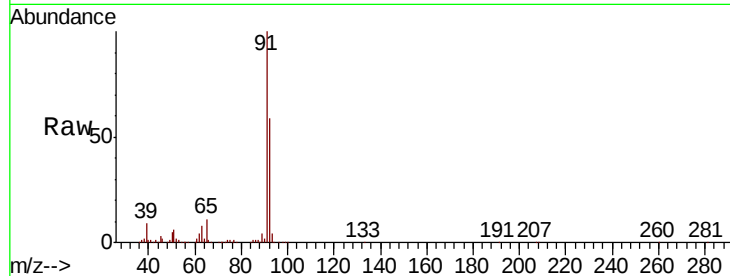
Ion Ratio Lower Upper

92 100

91 170.1 139.5 209.3

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#59

2-Hexanone

Concen: 8.114 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059286.D

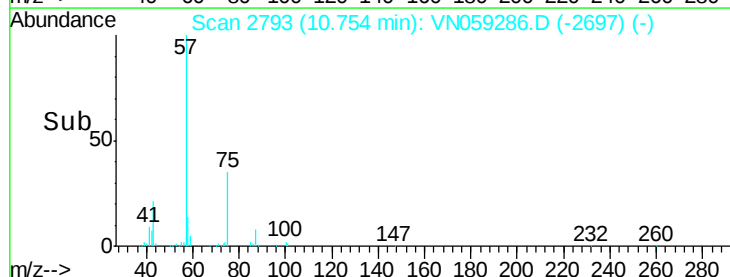
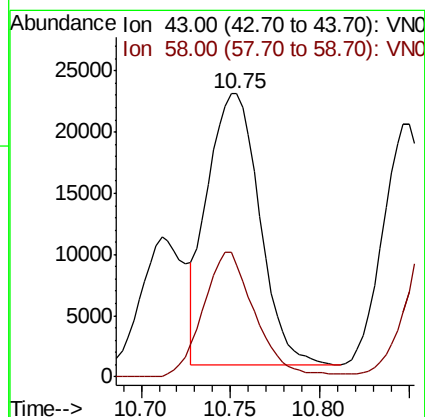
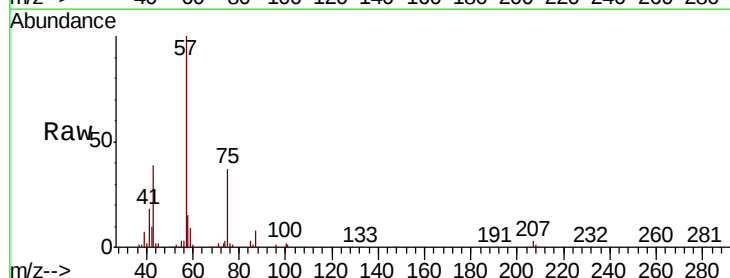
Acq: 18 Nov 2019 16:06

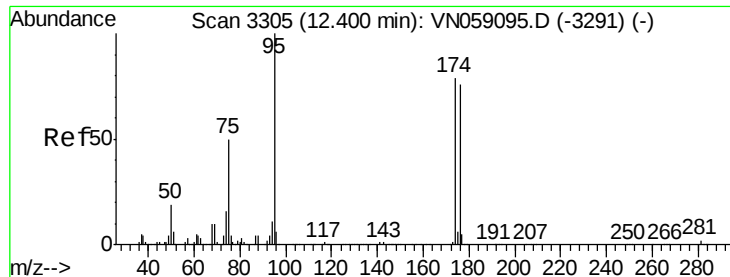
Tgt Ion: 43 Resp: 45085

Ion Ratio Lower Upper

43 100

58 45.5 27.3 81.8





#62

4-Bromofluorobenzene

Concen: 50.928 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

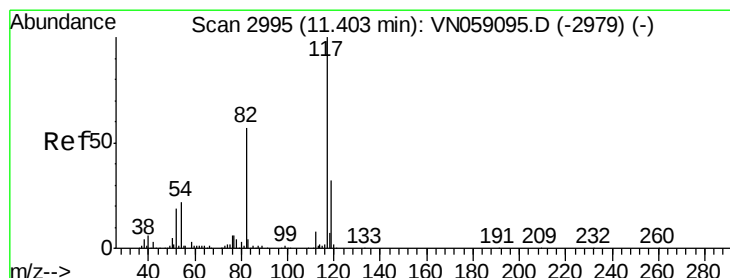
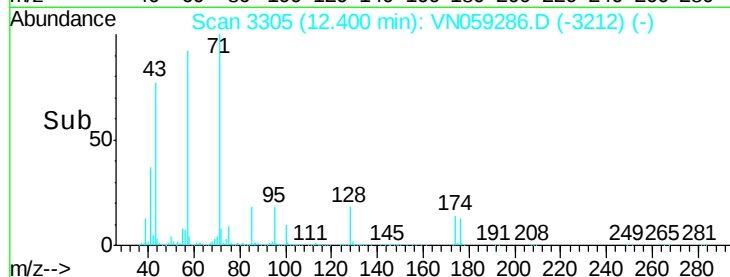
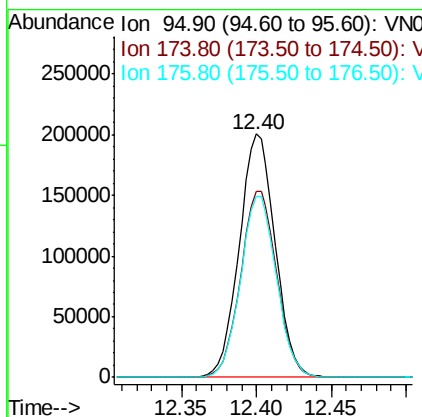
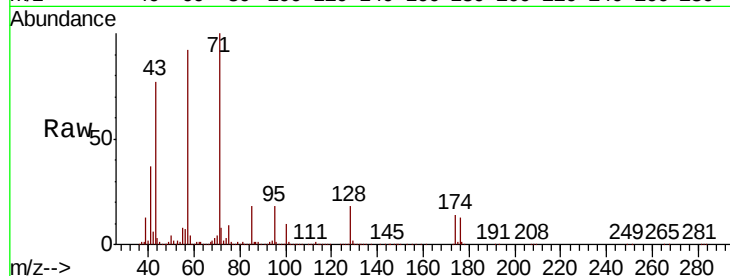
ClientSampleID :

30695DL

Tot Ion:	95	Resp:	333318
Ion Ratio	Lower	Upper	
95	100		
174	77.3	0.0	158.2
176	75.0	0.0	151.8

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

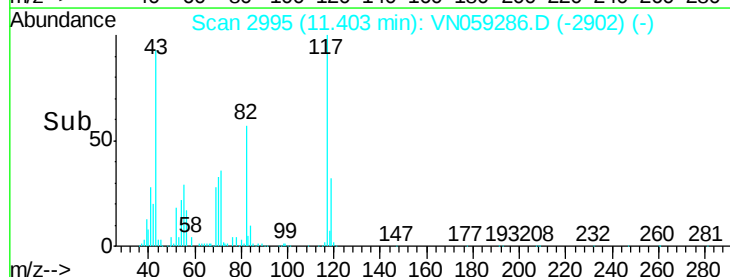
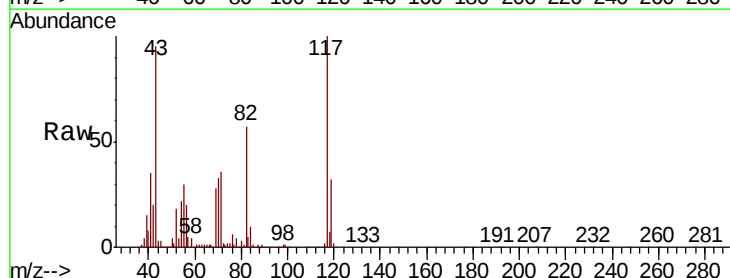
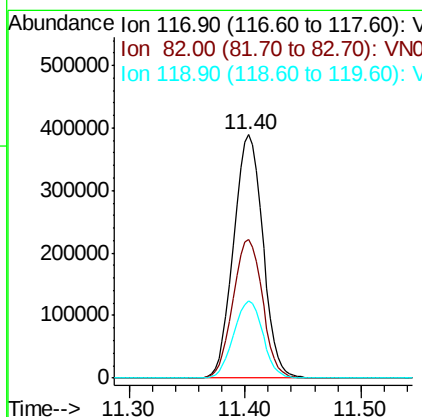
RT: 11.40 min Scan# 2995

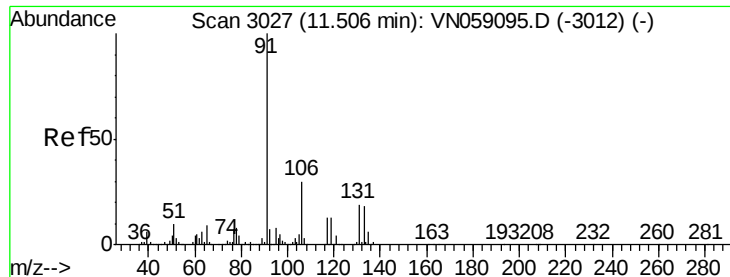
Delta R.T. -0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Tgt Ion:	117	Resp:	680132
Ion Ratio	Lower	Upper	
117	100		
82	56.7	45.8	68.8
119	31.7	25.8	38.6





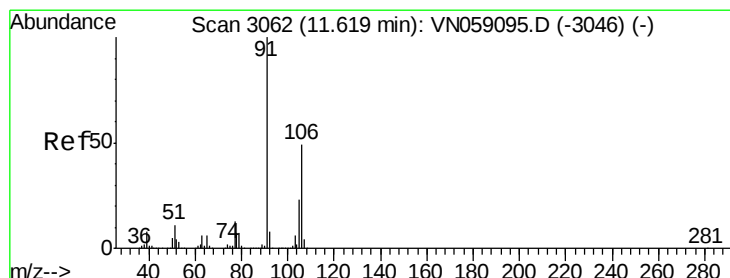
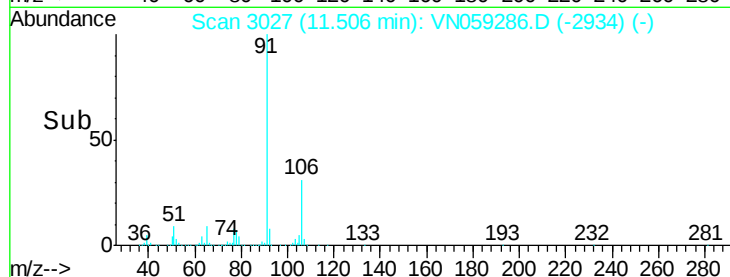
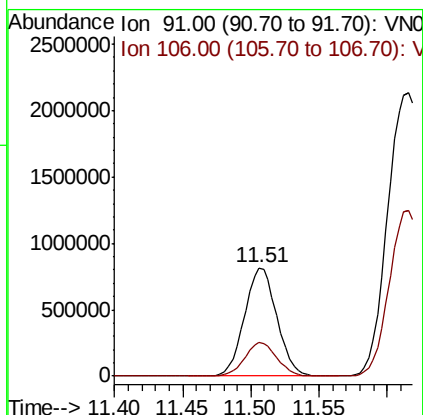
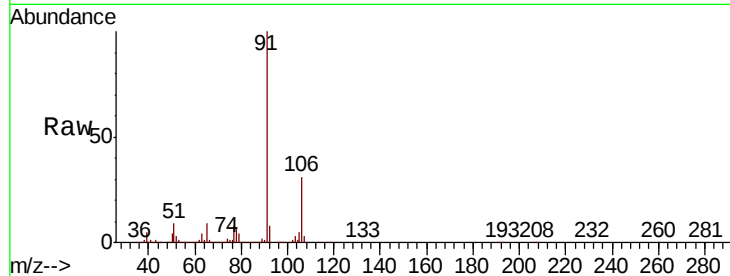
#67
Ethyl Benzene
Concen: 56.950 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampled :
30695DL

Tot Ion: 91 Resp: 1339661
Ion Ratio Lower Upper
91 100
106 30.7 24.1 36.1

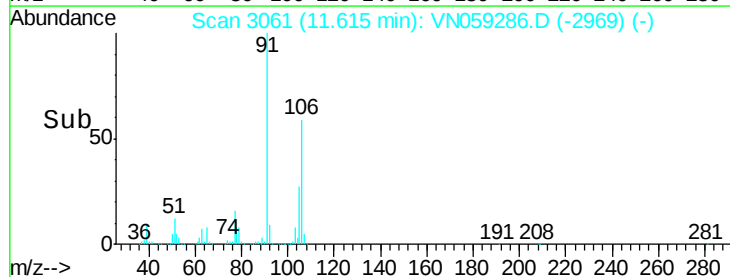
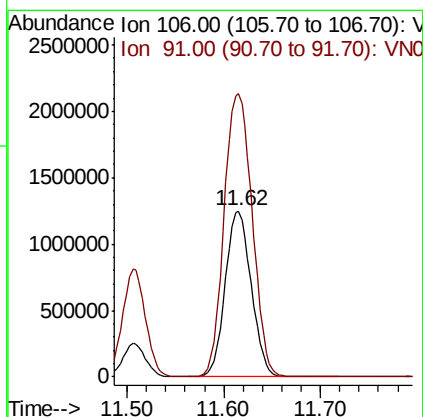
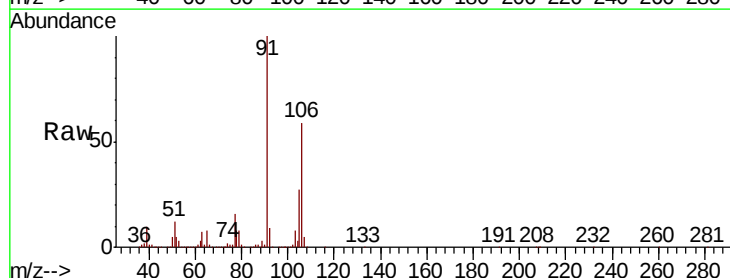
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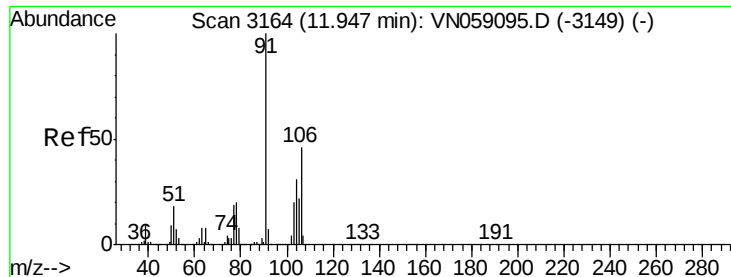
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#68
m/p-Xylenes
Concen: 263.643 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Tgt Ion: 106 Resp: 2323114
Ion Ratio Lower Upper
106 100
91 185.0 164.7 247.1





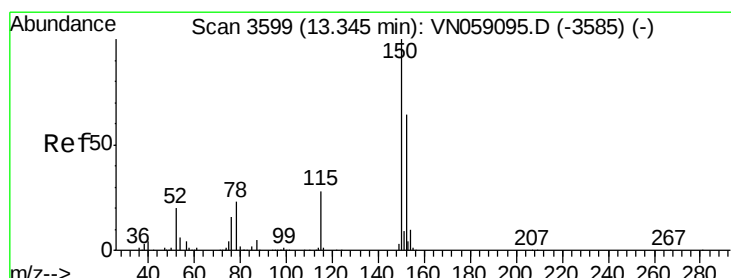
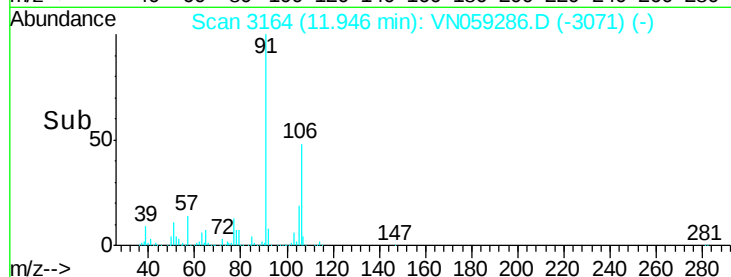
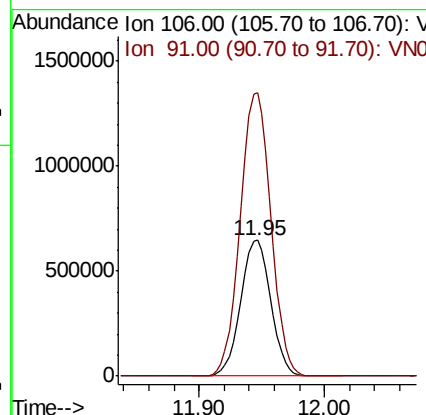
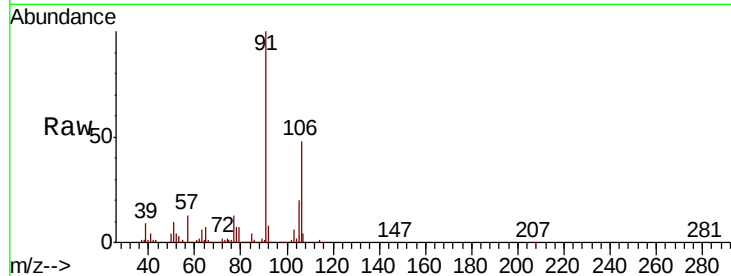
#69
o-Xylene
Concen: 126.996 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleID :
30695DL

Tot Ion:106 Resp: 1081443
Ion Ratio Lower Upper
106 100
91 212.5 110.1 330.3

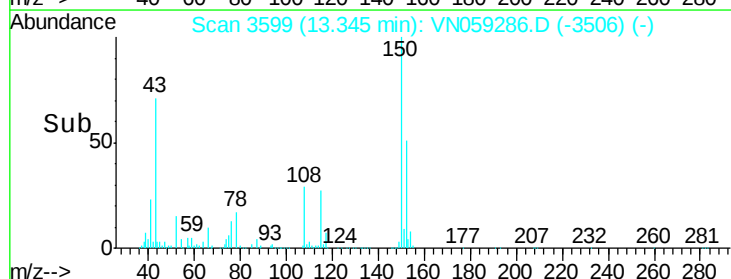
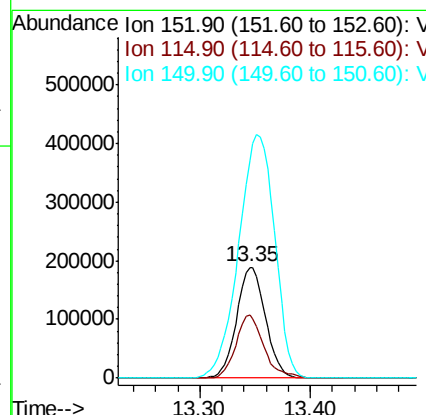
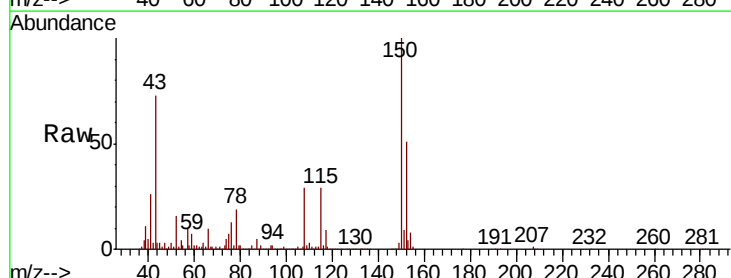
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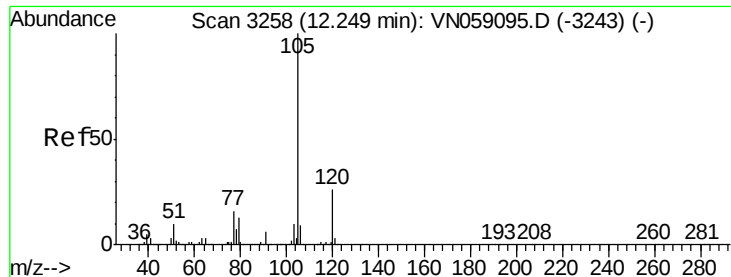
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Tgt Ion:152 Resp: 341147
Ion Ratio Lower Upper
152 100
115 54.8 29.4 88.2
150 275.3 0.0 345.8





#73

Isopropylbenzene

Concen: 1.521 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

30695DL

Tot Ion: 105 Resp: 37748

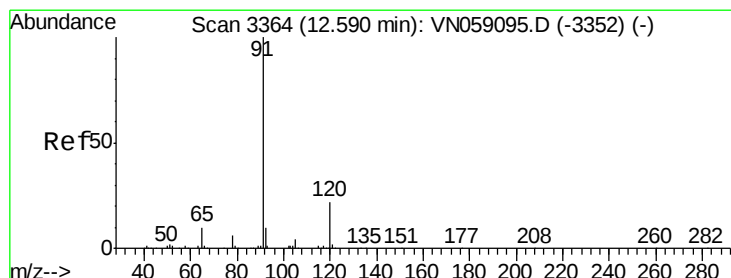
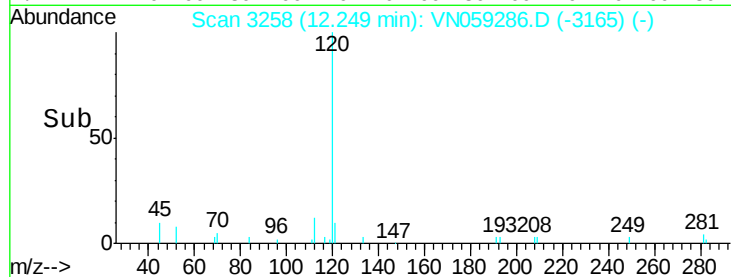
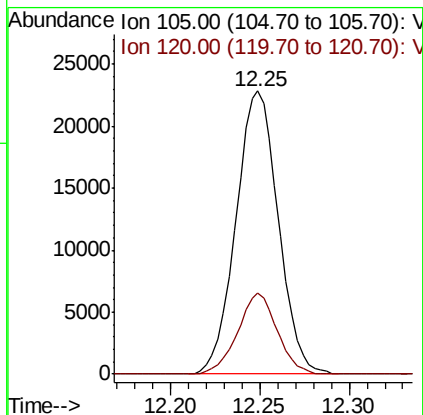
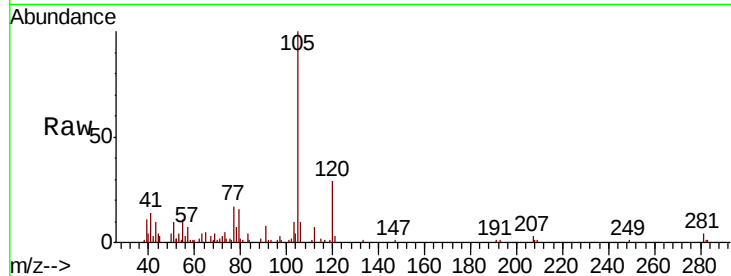
Ion Ratio Lower Upper

105 100

120 26.7 13.1 39.3

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#78

n-propylbenzene

Concen: 1.106 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059286.D

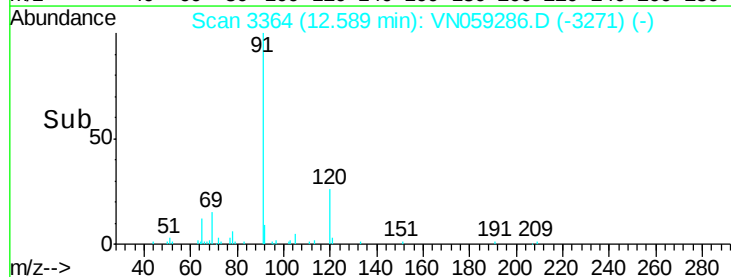
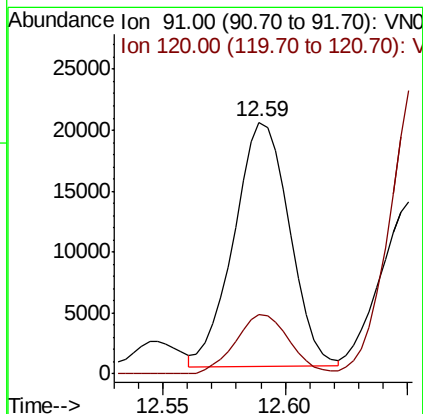
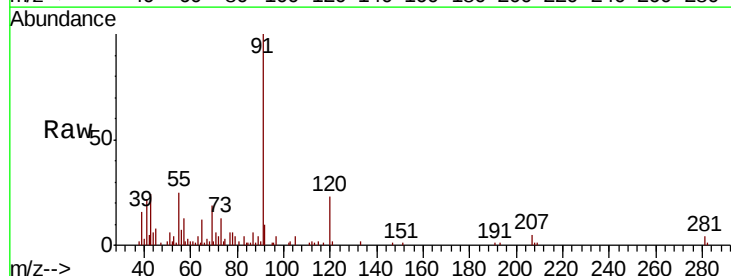
Acq: 18 Nov 2019 16:06

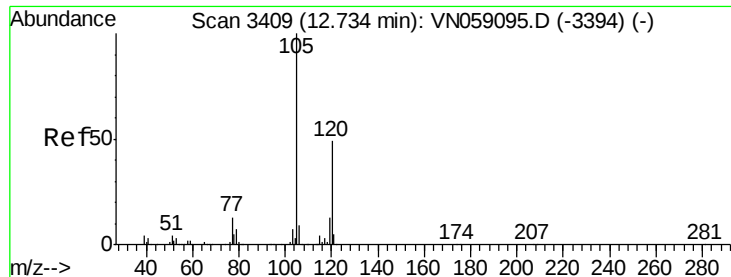
Tgt Ion: 91 Resp: 31423

Ion Ratio Lower Upper

91 100

120 23.7 11.2 33.5





#80

1,3,5-Trimethylbenzene

Concen: 4.452 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN059286.D

Acq: 18 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

30695DL

Tot Ion:105 Resp: 93615

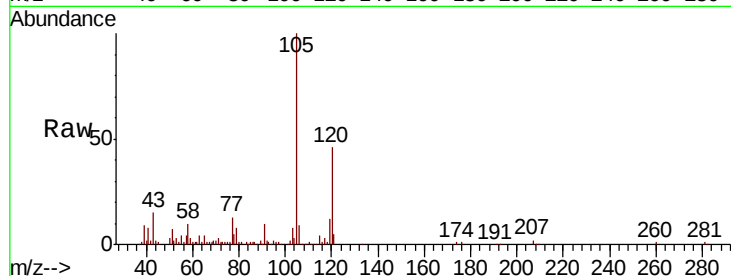
Ion Ratio Lower Upper

105 100

120 48.3 24.0 72.0

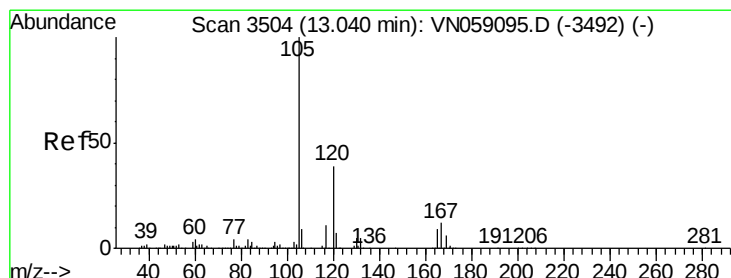
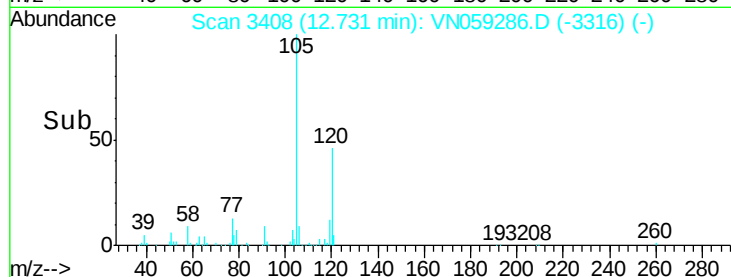
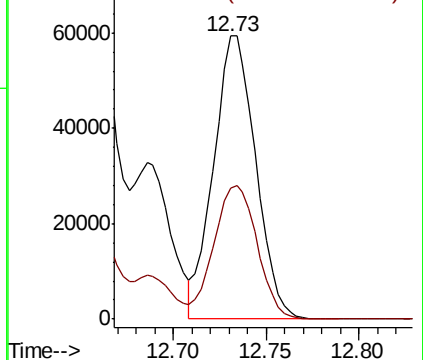
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 16.745 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059286.D

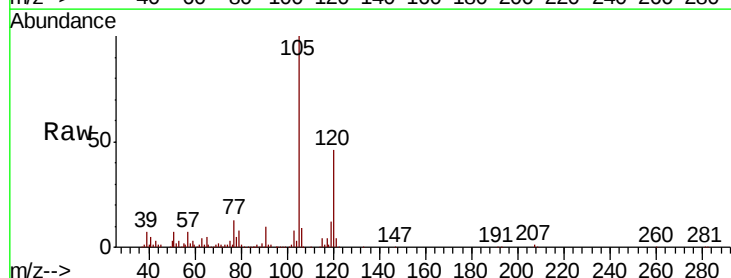
Acq: 18 Nov 2019 16:06

Tgt Ion:105 Resp: 340659

Ion Ratio Lower Upper

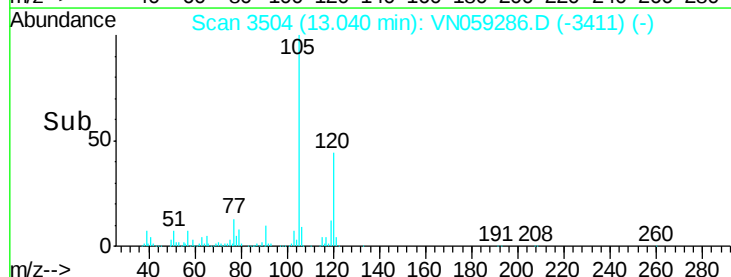
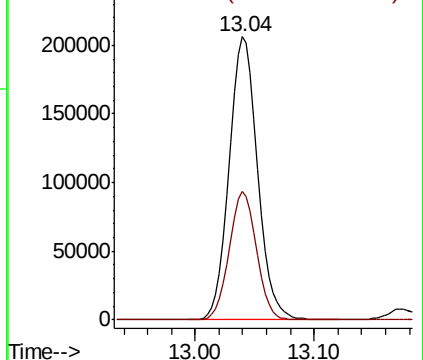
105 100

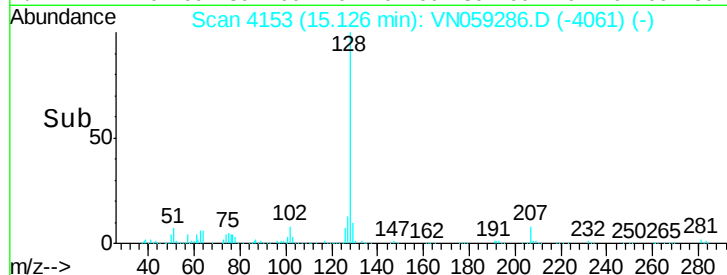
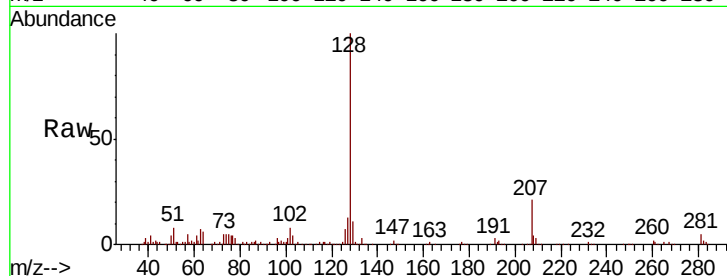
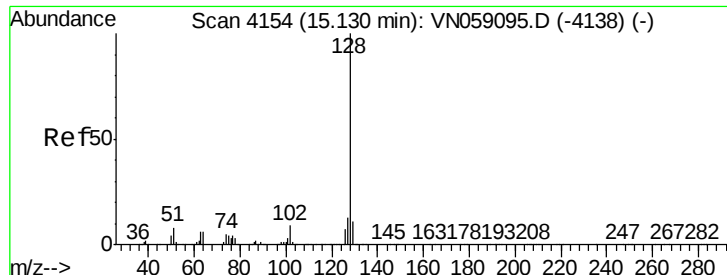
120 43.5 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 13.325 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059286.D
Acq: 18 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :
30695DL

Tot Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.6	12.8

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