

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
 Data File : VN058393.D
 Acq On : 26 Sep 2019 17:55
 Operator : JC/SP
 Sample : K5039-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40080

Manual Integrations
 APPROVED

MMDadoda
 9/27/2019 11:19:49 AM

Quant Time: Sep 27 05:47:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	573235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	962919	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	846449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411471	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	409057	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	7.57	113	272000	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	
50) Toluene-d8	10.10	98	1297787	56.90	ug/l	0.01
Spiked Amount	50.000		Recovery	=	113.80%	
62) 4-Bromofluorobenzene	12.41	95	492890	58.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.36%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	305936	85.010	ug/l	97
11) Tert butyl alcohol	4.86	59	62110	65.398	ug/l #	71
16) Acetone	3.80	43	5844416	2156.528	ug/l	91
17) Carbon Disulfide	4.00	76	8027	1.884	ug/l	97
18) Methyl Acetate	4.30	43	247749	34.742	ug/l	96
22) Diisopropyl ether	5.93	45	889649	46.185	ug/l	90
25) 2-Butanone	6.82	43	2108105	570.963	ug/l	100
29) Tetrahydrofuran	7.21	42	11439	5.030	ug/l #	85
31) Cyclohexane	7.63	56	3362739	529.155	ug/l	97
37) Ethyl Acetate	6.91	43	426096m	59.127	ug/l	
39) Methylcyclohexane	9.07	83	4102480	610.236	ug/l #	88
40) Benzene	8.03	78	12815941	604.251	ug/l #	1
52) Toluene	10.20	92	18579484m	1397.764	ug/l	
67) Ethyl Benzene	11.52	91	11616958	455.370	ug/l #	1
68) m/p-Xylenes	11.65	106	13707072	1426.588	ug/l #	39
69) o-Xylene	11.96	106	10756352	1138.517	ug/l	33
73) Isopropylbenzene	12.26	105	4433658	172.144	ug/l	80
78) n-propylbenzene	12.60	91	6687547	228.499	ug/l #	33
80) 1,3,5-Trimethylbenzene	12.74	105	6467610m	296.961	ug/l	
84) 1,2,4-Trimethylbenzene	13.05	105	9688394	447.008	ug/l #	38
85) sec-Butylbenzene	13.18	105	633591	24.947	ug/l #	66
86) p-Isopropyltoluene	13.30	119	416865m	18.462	ug/l	
89) n-Butylbenzene	13.62	91	980456	45.801	ug/l #	69
95) Naphthalene	15.14	128	7736199	393.612	ug/l #	24

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

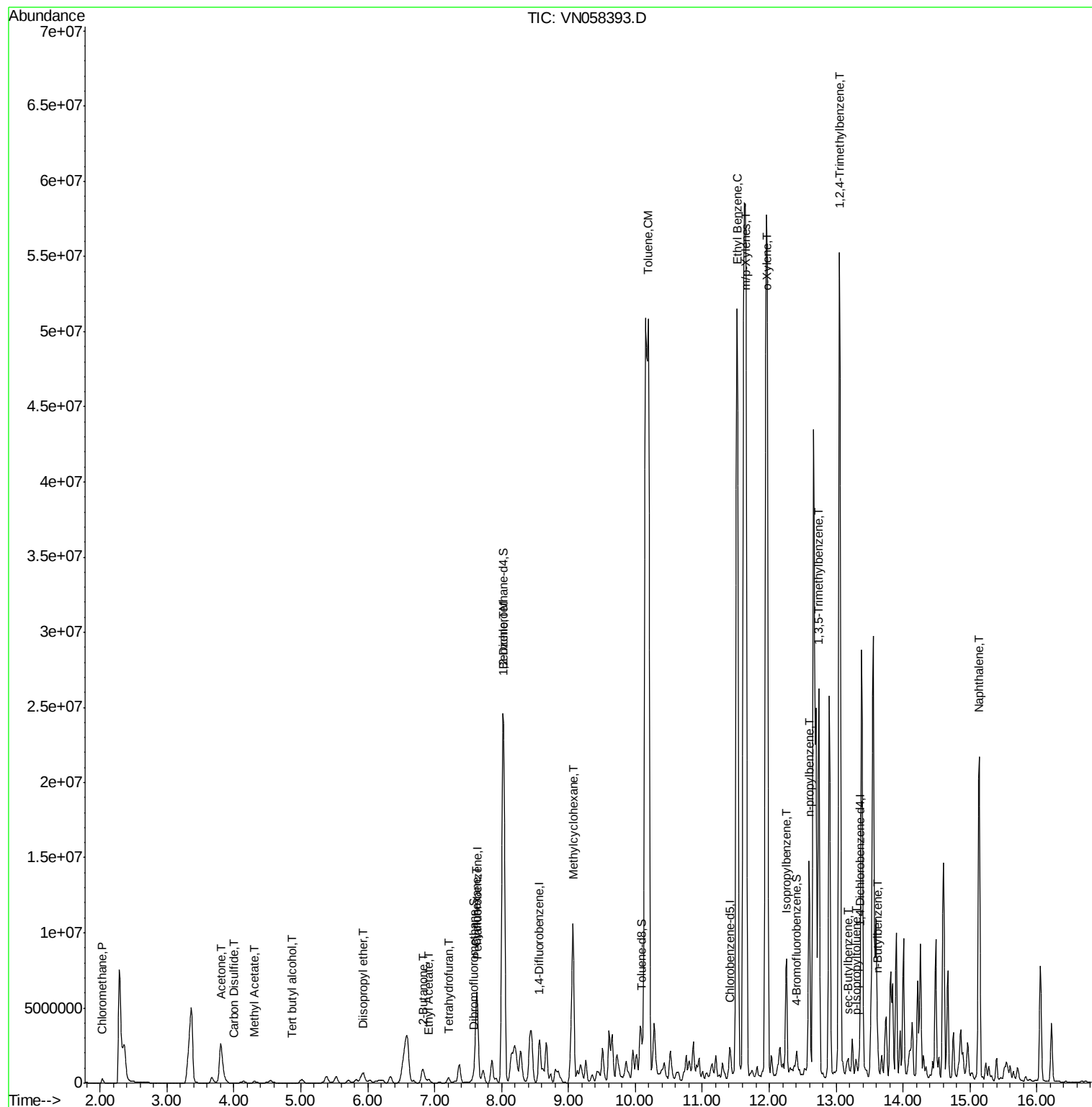
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092619\
Data File : VN058393.D
Acq On : 26 Sep 2019 17:55
Operator : JC/SP
Sample : K5039-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 26 Sample Multiplier: 1

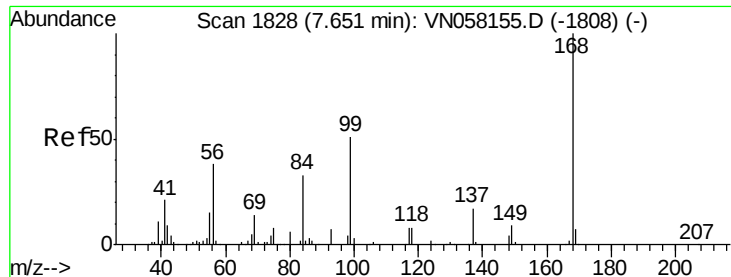
Instrument :
MSVOA_N
ClientSampleId :
40080

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Quant Time: Sep 27 05:47:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

ClientSampleId :

40080

Tot Ion:168 Resp: 573235

Ion Ratio Lower Upper

168 100

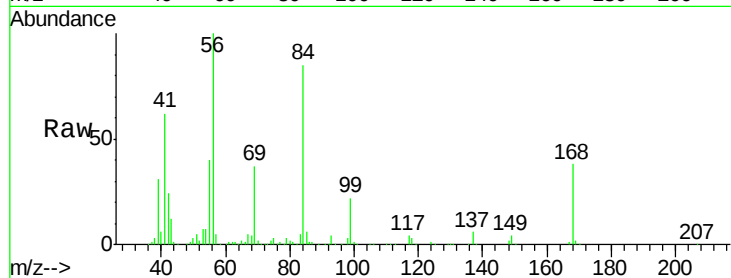
99 59.1 47.4 71.2

Manual Integrations

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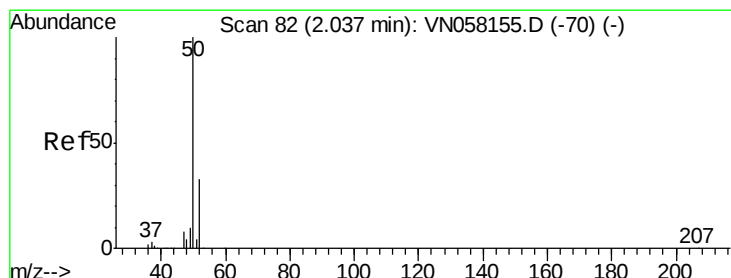
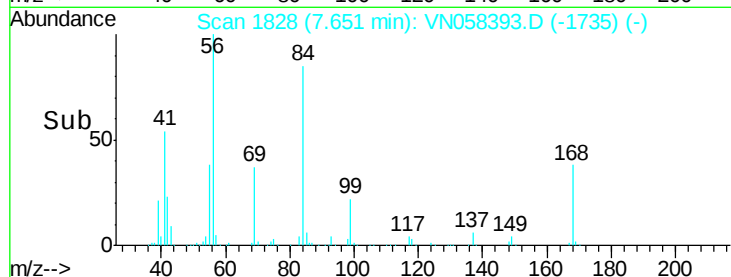
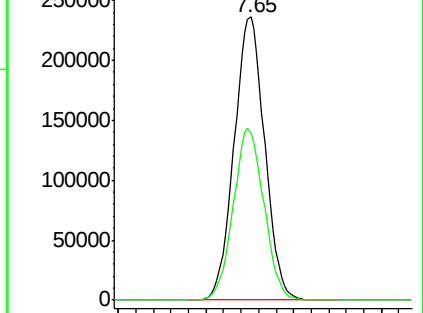
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 85.010 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058393.D

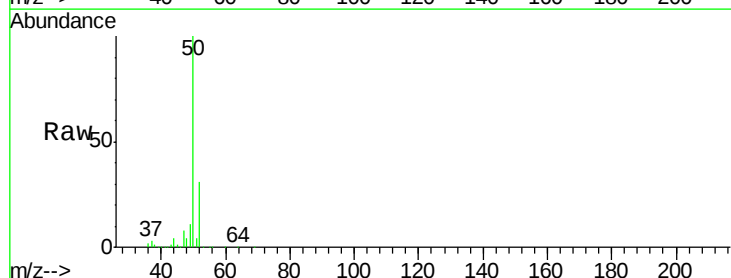
Acq: 26 Sep 2019 17:55

Tgt Ion: 50 Resp: 305936

Ion Ratio Lower Upper

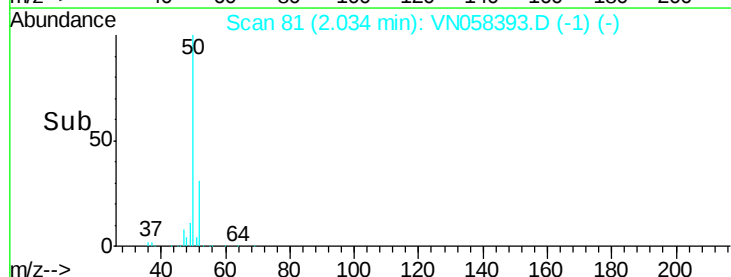
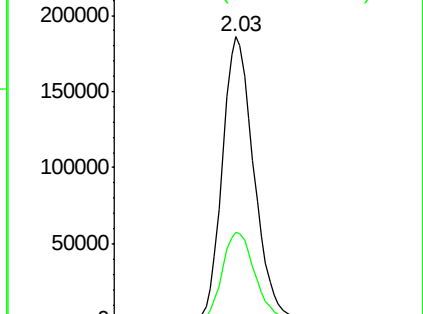
50 100

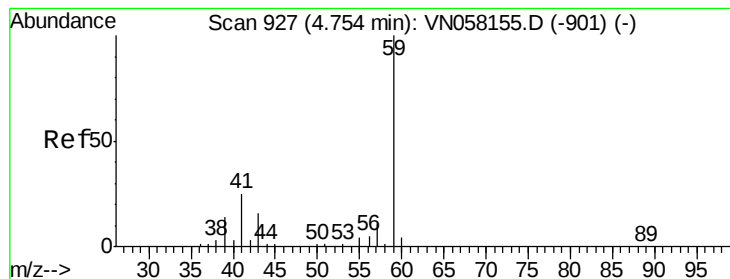
52 31.1 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#11

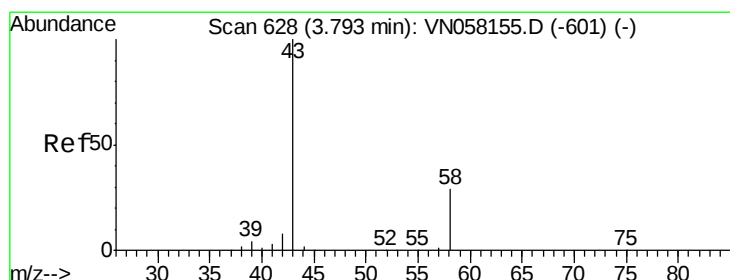
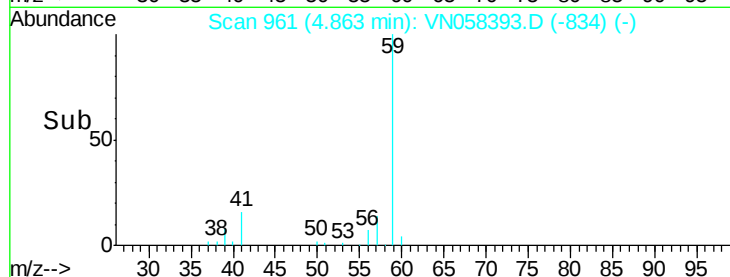
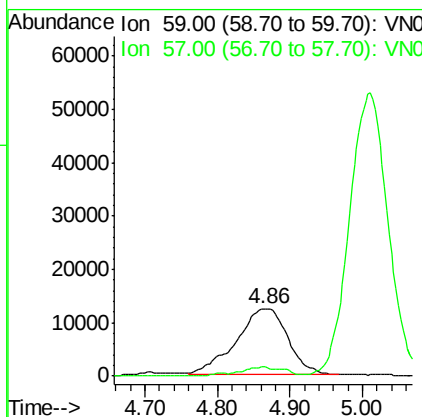
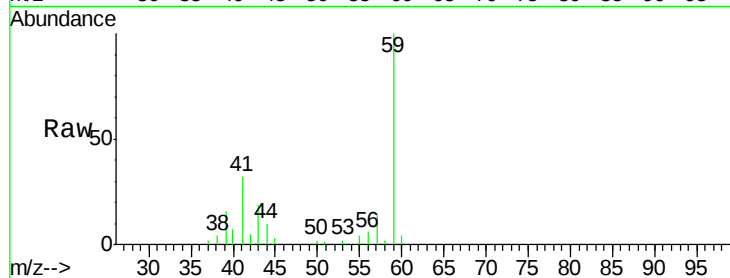
Tert butyl alcohol
 Concen: 65.398 ug/l
 RT: 4.86 min Scan# 961
 Delta R.T. 0.11 min
 Lab File: VN058393.D
 Acq: 26 Sep 2019 17:55

Instrument :
 MSVOA_N
 ClientSampled :
 40080

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#

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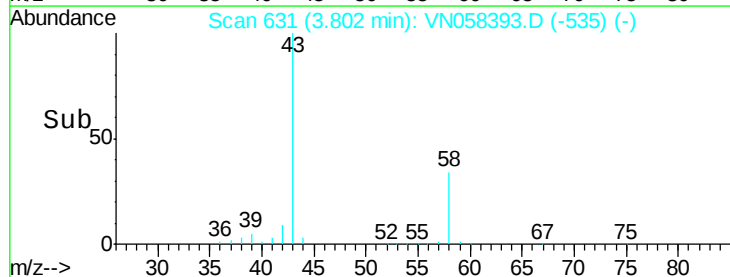
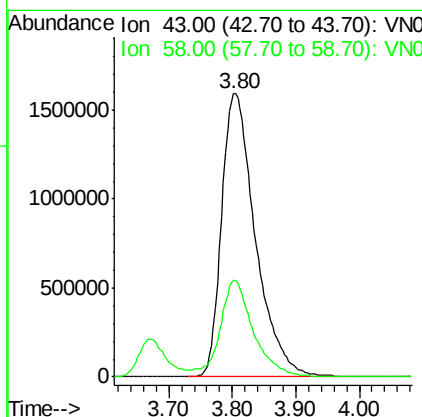
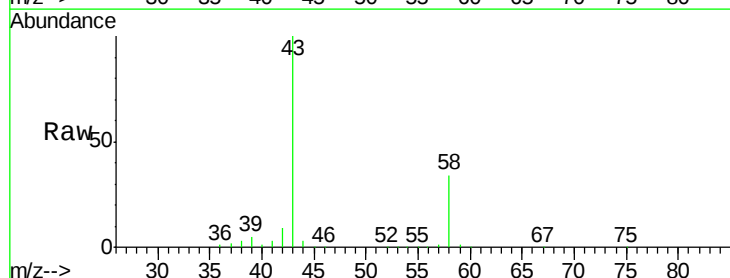
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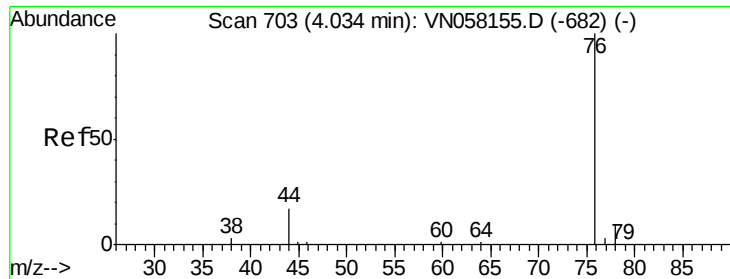


#16

Acetone
 Concen: 2156.528 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058393.D
 Acq: 26 Sep 2019 17:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.1	23.4	35.2





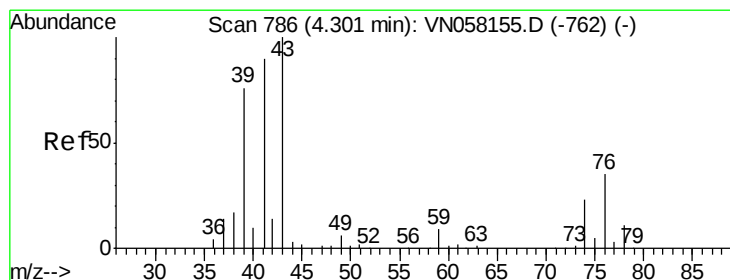
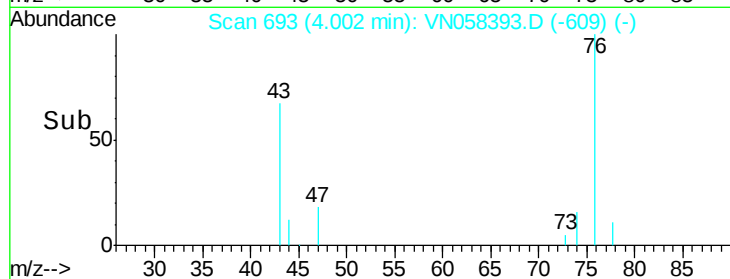
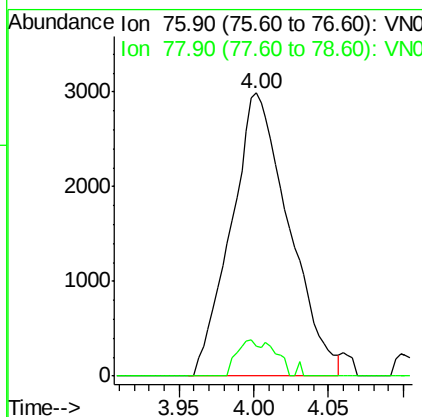
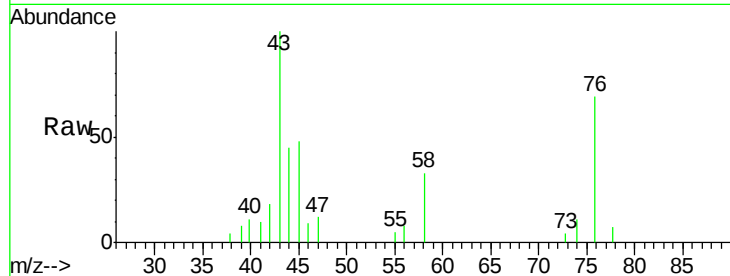
#17
Carbon Disulfide
Concen: 1.884 ug/l
RT: 4.00 min Scan# 693
Delta R.T. -0.03 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Instrument :
MSVOA_N
ClientSampleId :
40080

Tot Ion: 76 Resp: 8027
Ion Ratio Lower Upper
76 100
78 10.7 7.7 11.5

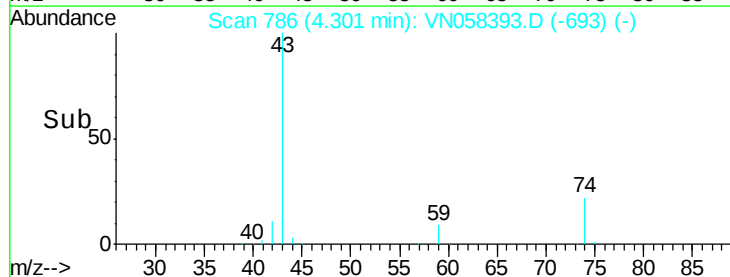
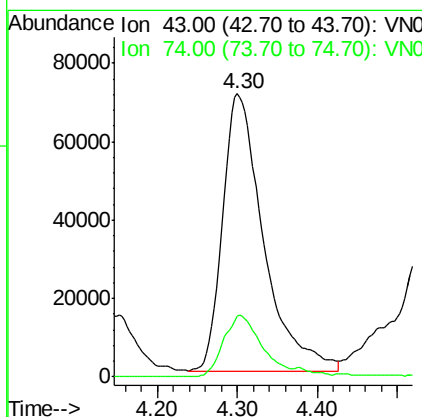
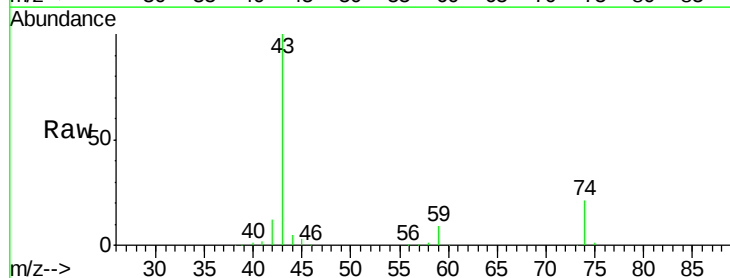
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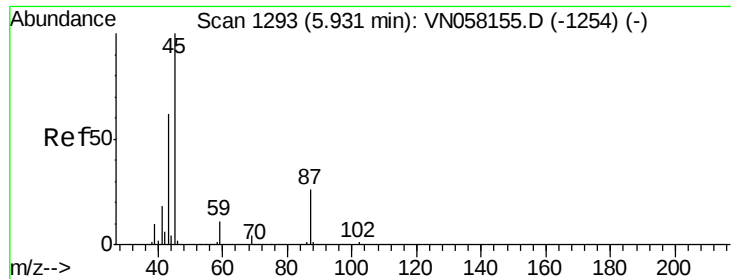
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#18
Methyl Acetate
Concen: 34.742 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Tgt Ion: 43 Resp: 247749
Ion Ratio Lower Upper
43 100
74 20.8 18.0 27.0





#22

Diisopropyl ether

Concen: 46.185 ug/l

RT: 5.93 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

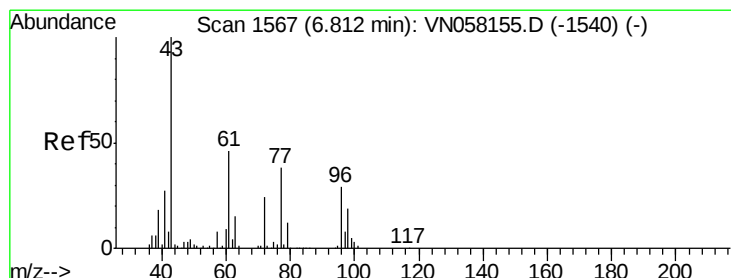
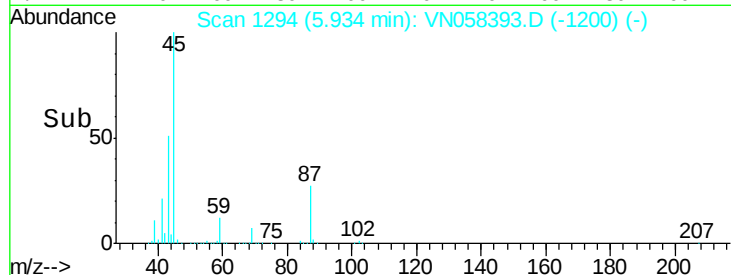
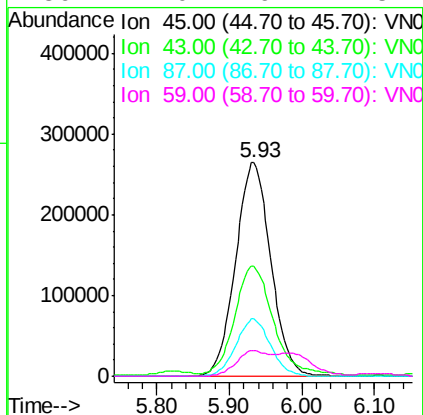
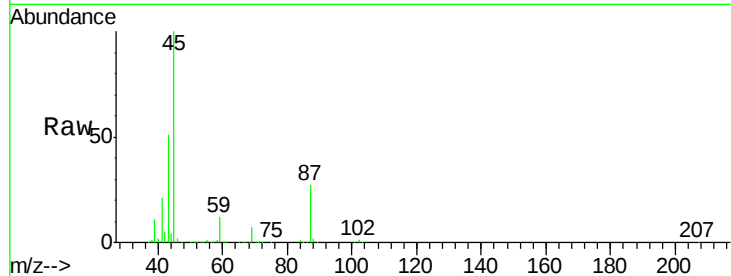
ClientSampleId :

40080

Tot Ion	45	Resp	889649
Ion Ratio	Lower	Upper	
45	100		
43	50.1	49.7	74.5
87	27.0	20.7	31.1
59	12.0	9.1	13.7

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#25

2-Butanone

Concen: 570.963 ug/l

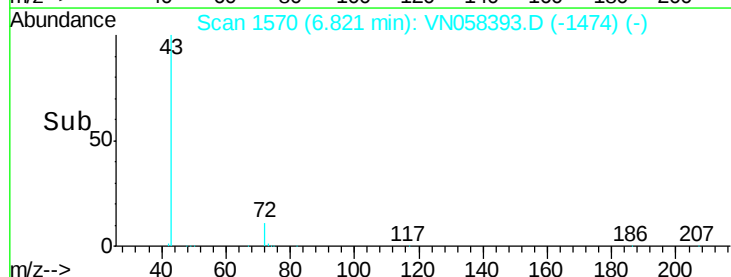
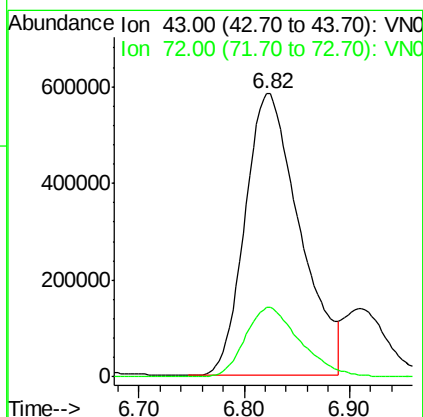
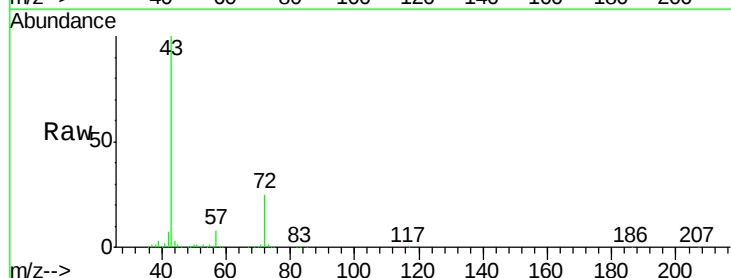
RT: 6.82 min Scan# 1570

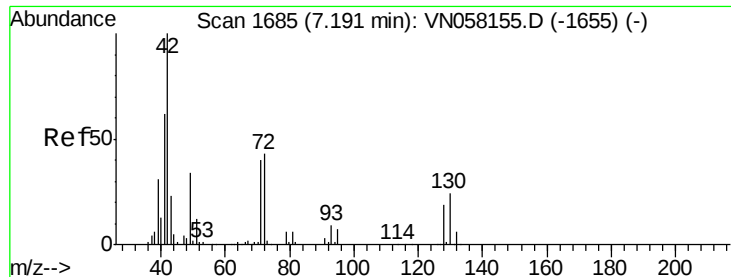
Delta R.T. 0.01 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Tgt Ion	43	Resp	2108105
Ion Ratio	Lower	Upper	
43	100		
72	24.6	19.5	29.3





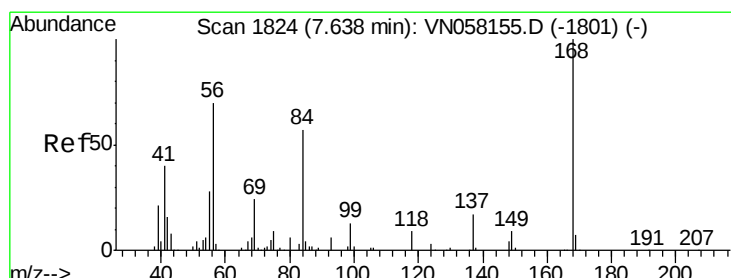
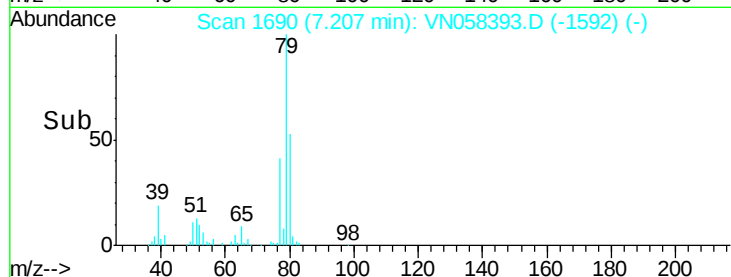
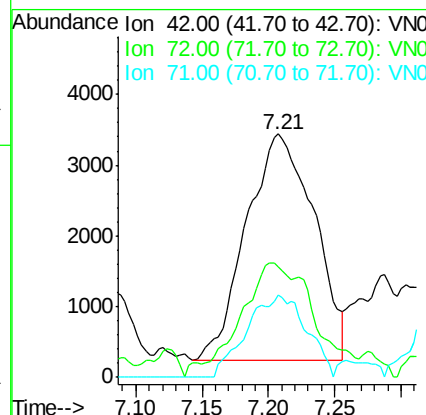
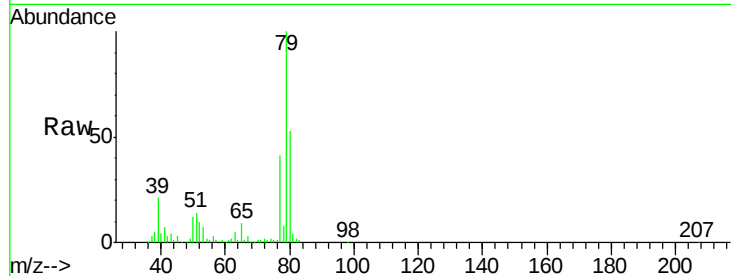
#29
Tetrahydrofuran
Concen: 5.030 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.02 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Instrument :
MSVOA_N
ClientSampleId :
40080

Tot Ion	Ratio	Lower	Upper
42	100		
72	53.9	33.8	50.6#
71	32.0	31.4	47.0

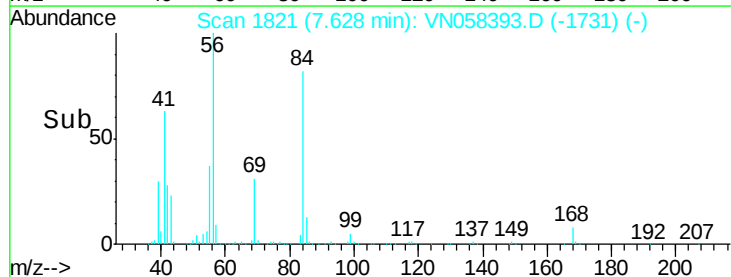
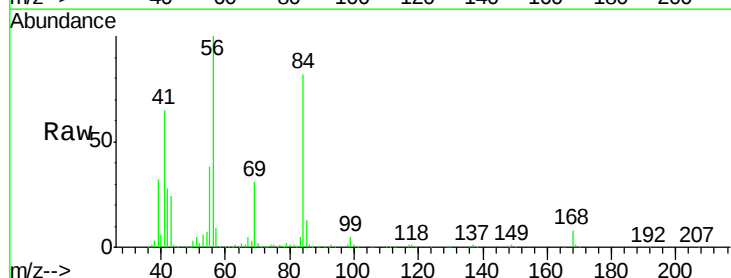
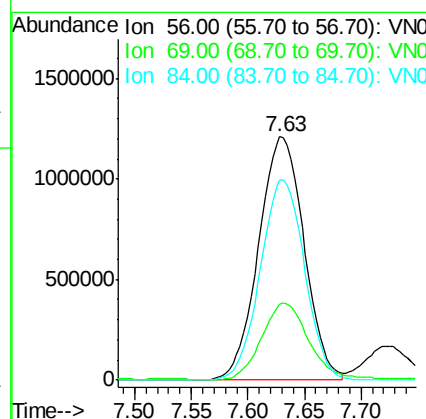
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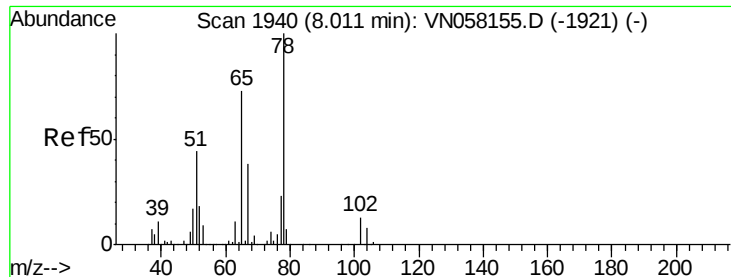
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#31
Cyclohexane
Concen: 529.155 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.8	27.3	40.9
84	82.4	65.0	97.4





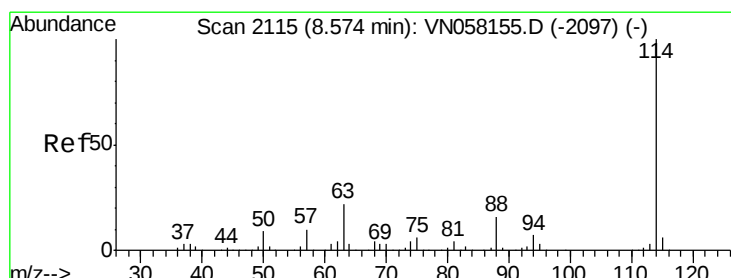
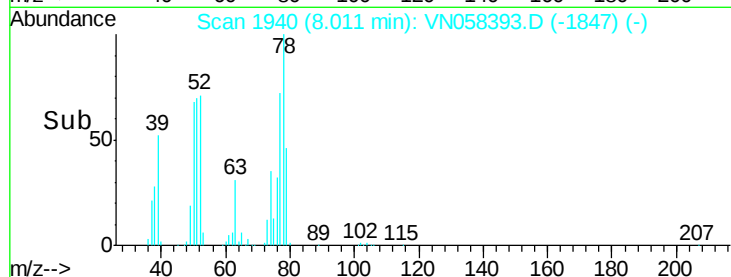
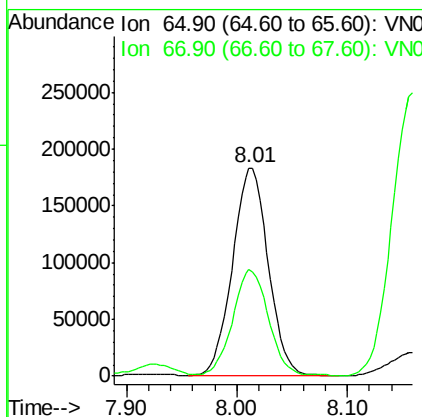
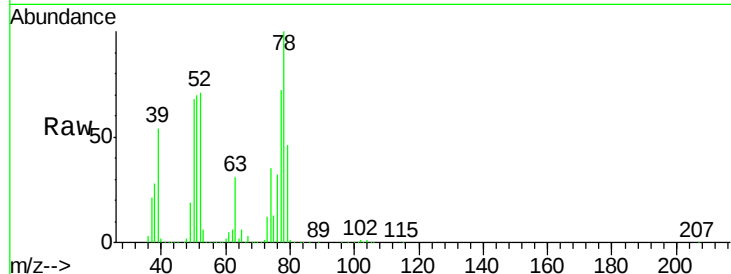
#33
 1,2-Dichloroethane-d4
 Concen: 51.234 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058393.D
 Acq: 26 Sep 2019 17:55

Instrument :
 MSVOA_N
 ClientSampled :
 40080

Tot Ion: 65 Resp: 409057
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.4

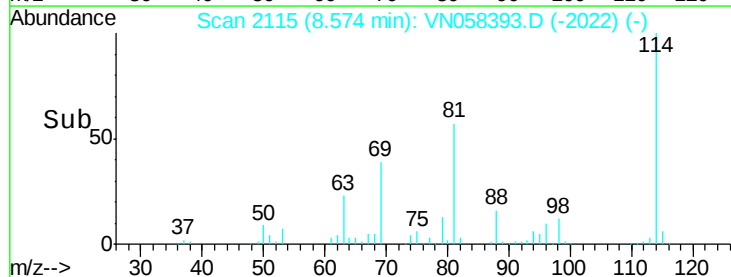
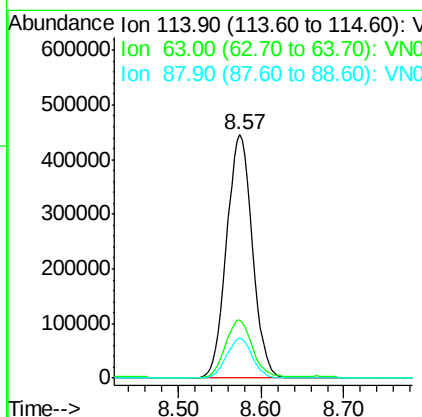
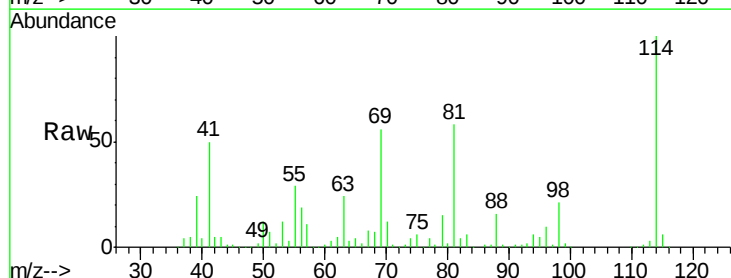
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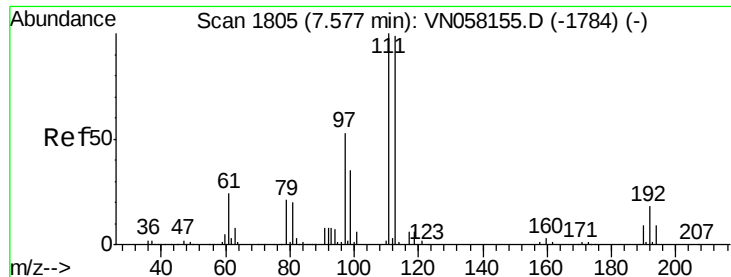
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058393.D
 Acq: 26 Sep 2019 17:55

Tgt Ion: 114 Resp: 962919
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 44.2
 88 16.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.466 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.01 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

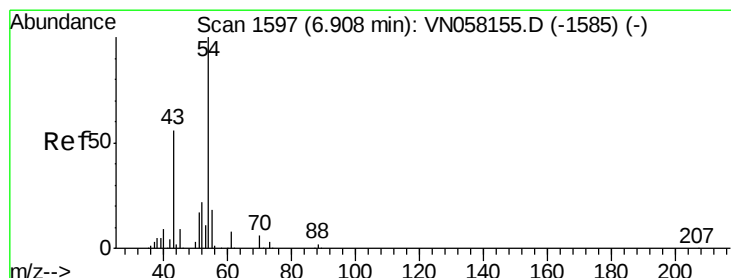
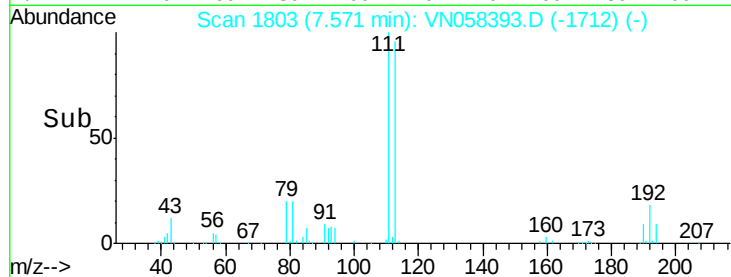
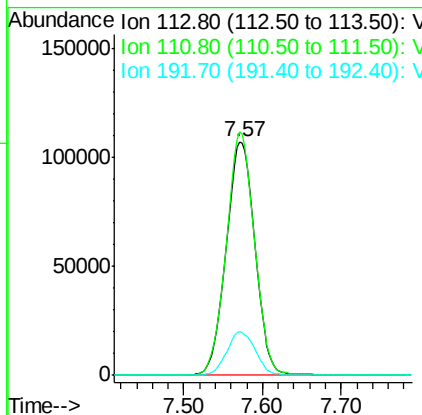
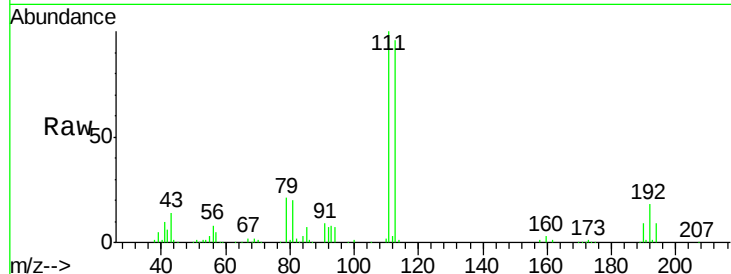
ClientSampleId :

40080

Tot Ion:	113	Resp:	272000
Ion Ratio	Lower	Upper	
113	100		
111	101.6	81.8	122.6
192	18.5	14.5	21.7

Manual Integrations
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#37

Ethyl Acetate

Concen: 59.127 ug/l m

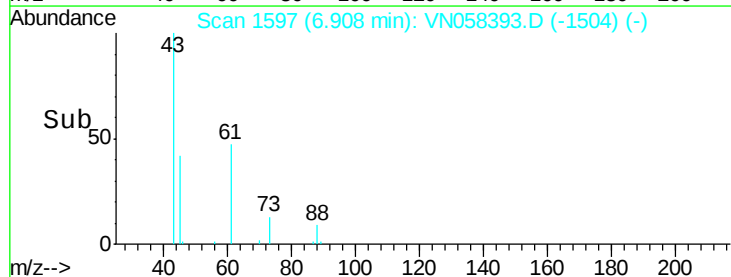
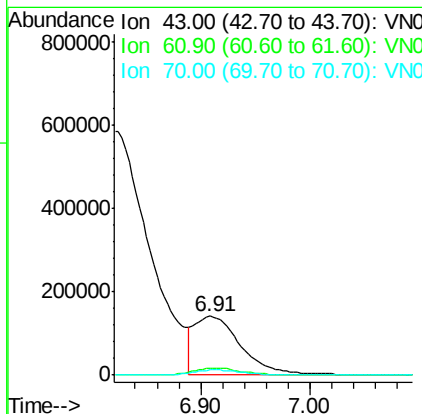
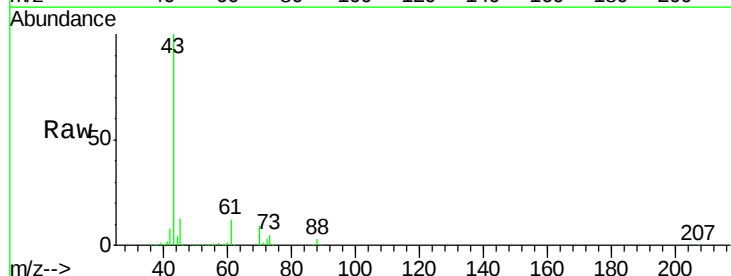
RT: 6.91 min Scan# 1597

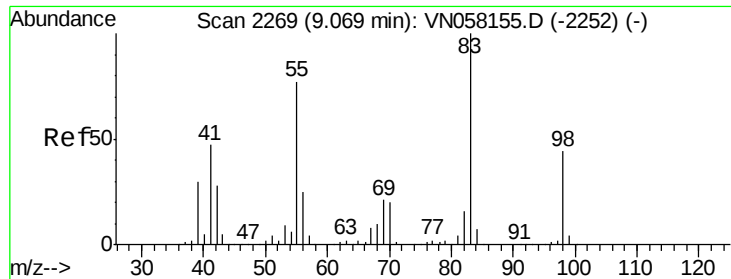
Delta R.T. -0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Tgt Ion:	43	Resp:	426096
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.7	16.1#
70	0.0	7.6	11.4#





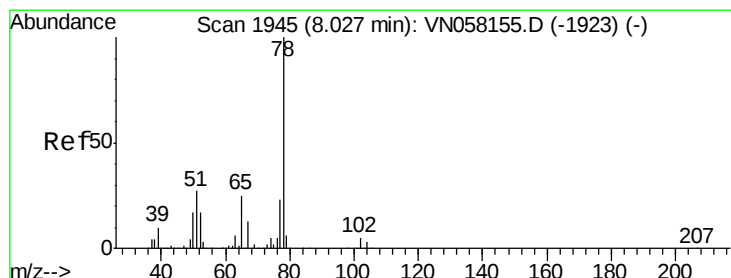
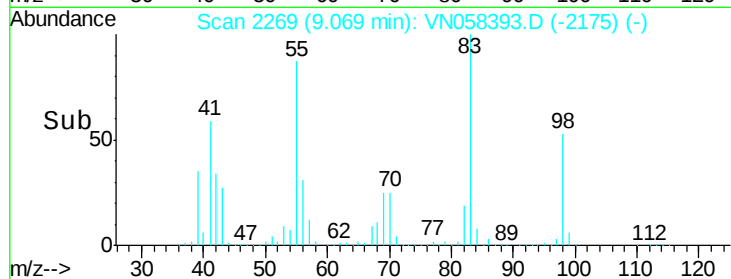
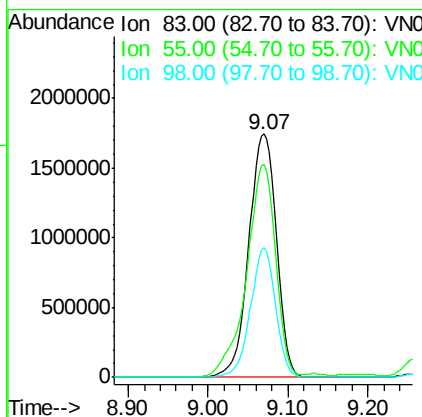
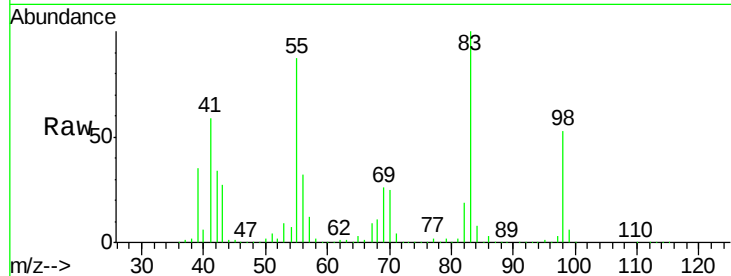
#39
Methvlcvclohexane
Concen: 610.236 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Instrument :
MSVOA_N
ClientSampled :
40080

Tot Ion: 83 Resp: 4102480
Ion Ratio Lower Upper
83 100
55 87.1 61.9 92.9
98 53.5 35.4 53.2#

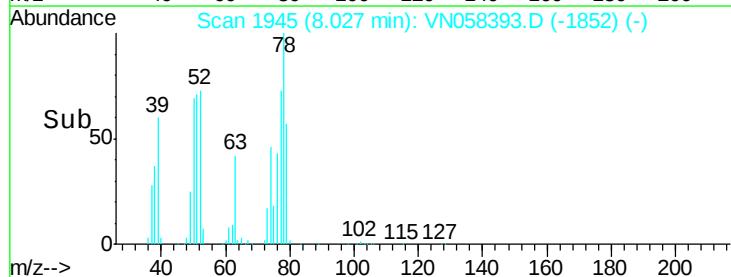
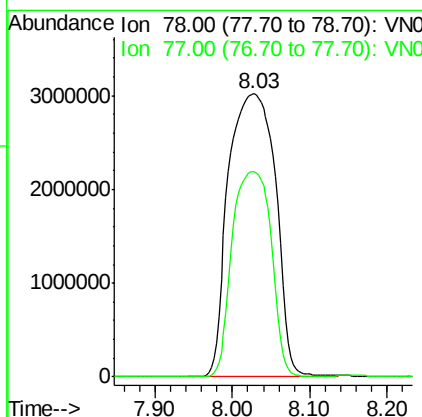
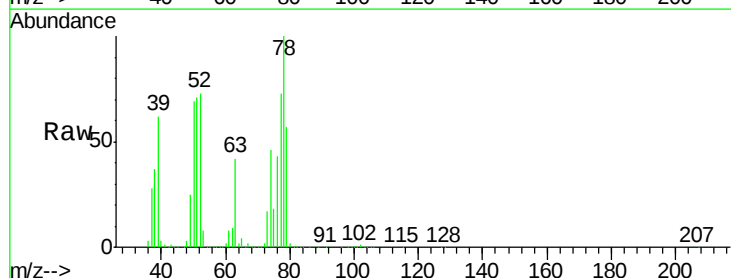
Manual Integrations
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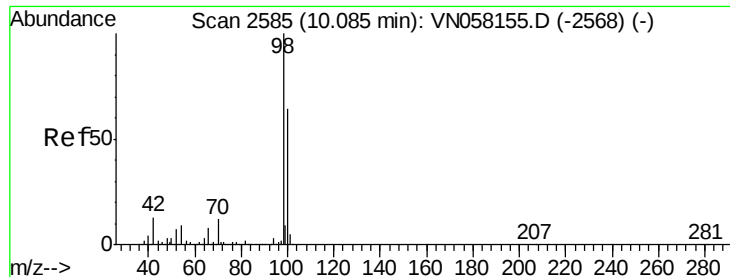
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#40
Benzene
Concen: 604.251 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Tgt Ion: 78 Resp: 12815941
Ion Ratio Lower Upper
78 100
77 72.5 18.8 28.2#





#50

Toluene-d8

Concen: 56.902 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. 0.01 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

ClientSampled :

40080

Tot Ion: 98 Resp: 1297787

Ion Ratio Lower Upper

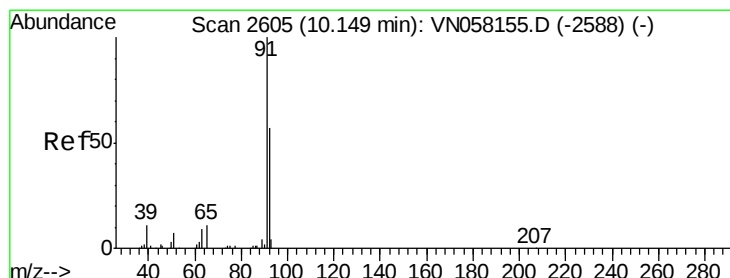
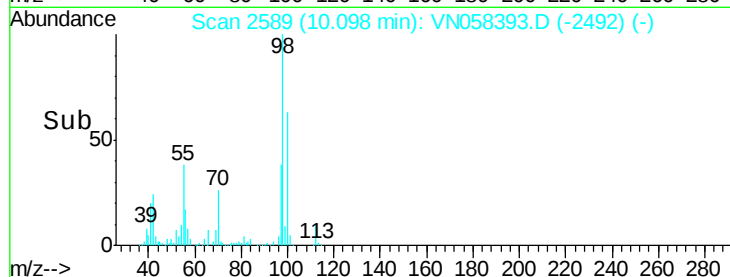
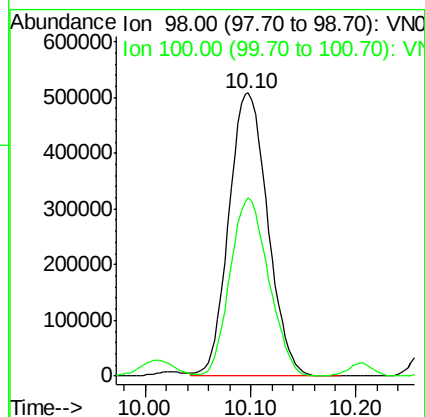
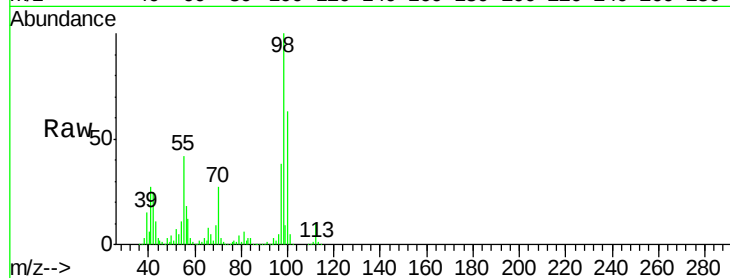
98 100

100 62.5 51.1 76.7

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#52

Toluene

Concen: 1397.764 ug/l m

RT: 10.20 min Scan# 2620

Delta R.T. 0.05 min

Lab File: VN058393.D

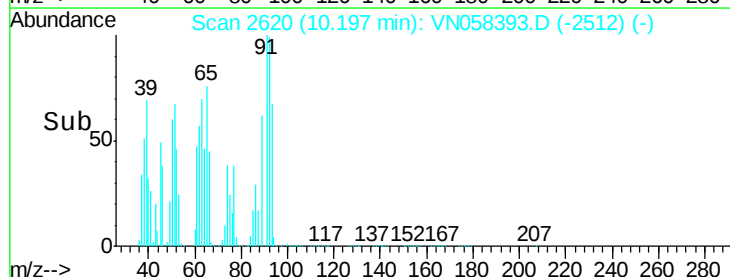
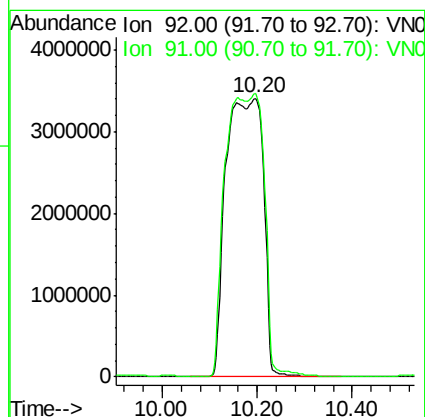
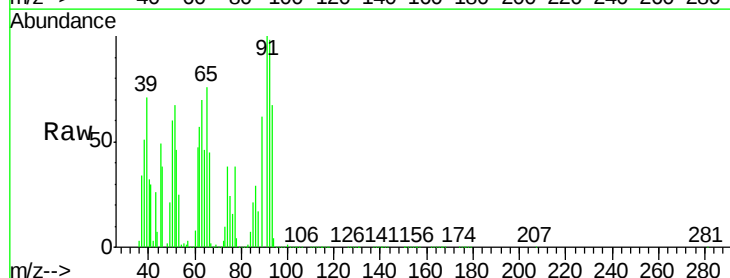
Acq: 26 Sep 2019 17:55

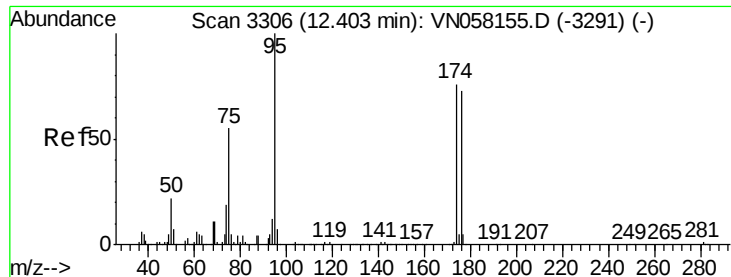
Tgt Ion: 92 Resp: 18579484

Ion Ratio Lower Upper

92 100

91 56.6 140.2 210.2#





#62

4-Bromofluorobenzene

Concen: 58.178 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

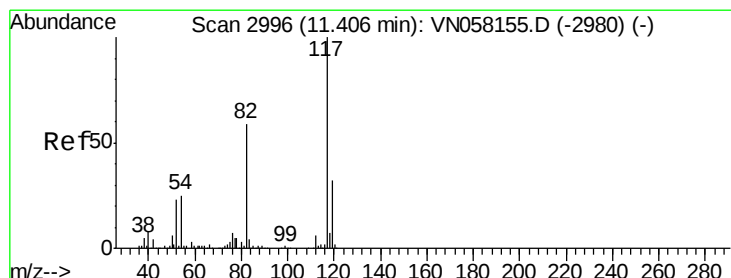
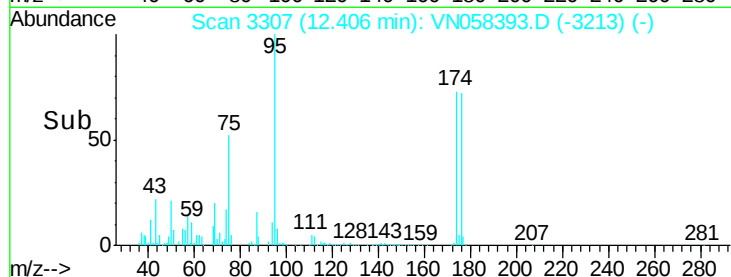
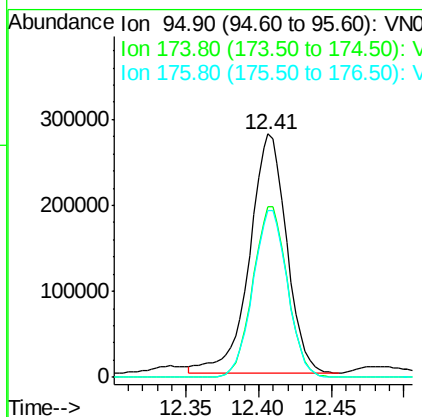
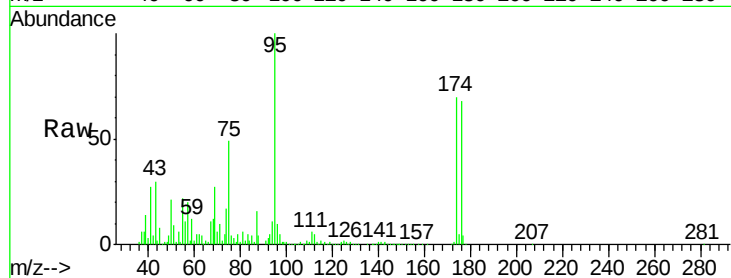
ClientSampled :

40080

Tot Ion:	95	Resp:	492890
Ion Ratio	Lower	Upper	
95	100		
174	66.9	0.0	152.2
176	65.5	0.0	148.0

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

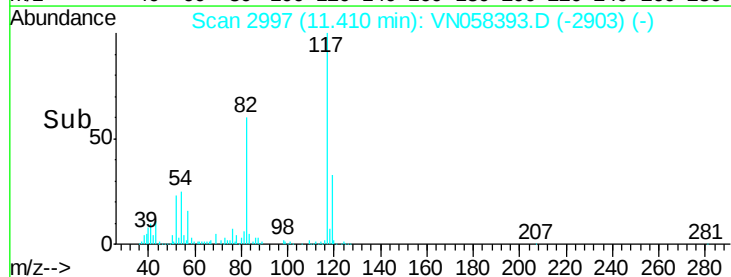
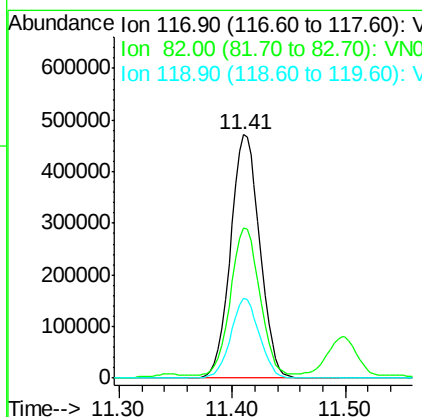
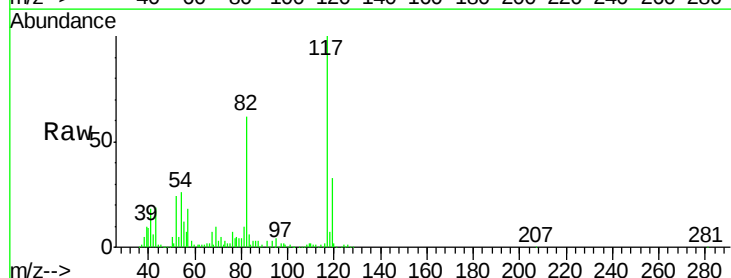
RT: 11.41 min Scan# 2997

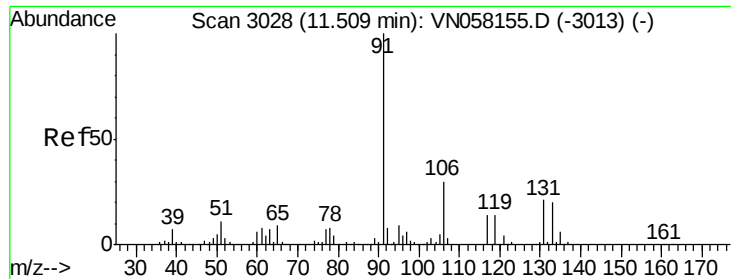
Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Tgt Ion:	117	Resp:	846449
Ion Ratio	Lower	Upper	
117	100		
82	60.1	46.9	70.3
119	32.6	25.3	37.9





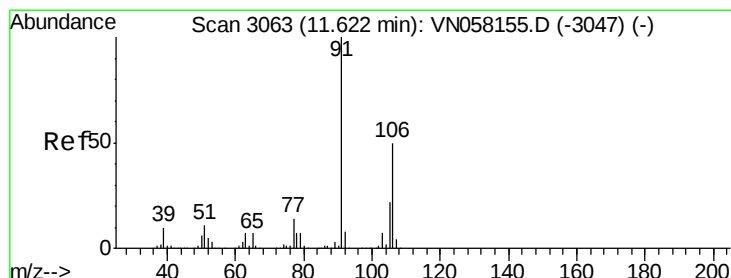
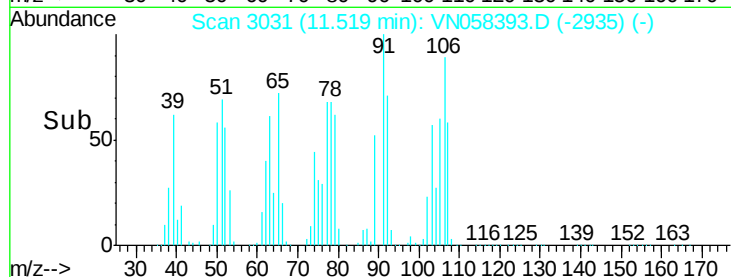
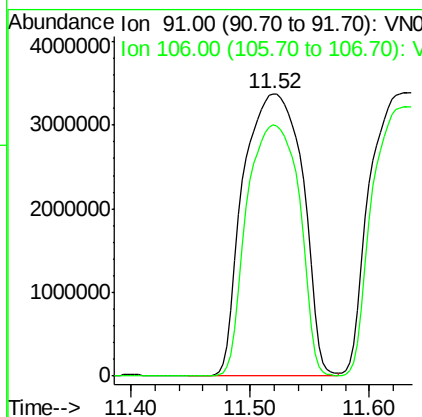
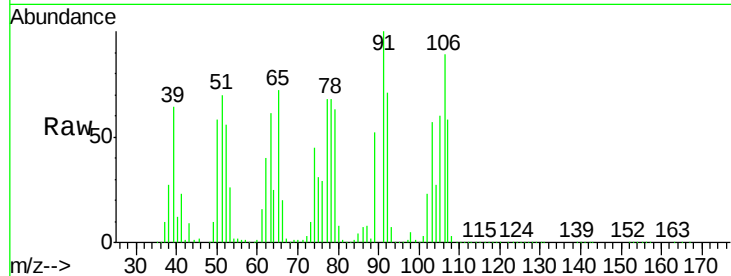
#67
Ethyl Benzene
Concen: 455.370 ug/l
RT: 11.52 min Scan# 3031
Delta R.T. 0.01 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Instrument :
MSVOA_N
ClientSampleId :
40080

Tot Ion: 91 Resp:11616958
Ion Ratio Lower Upper
91 100
106 88.9 24.0 36.0#

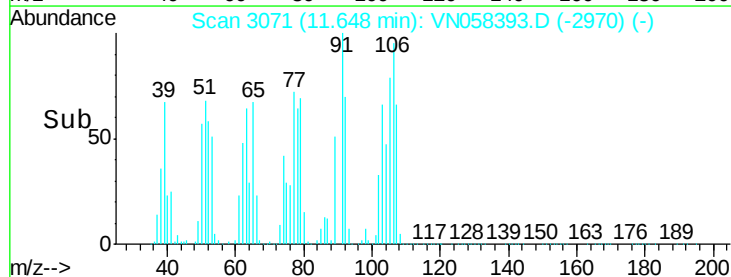
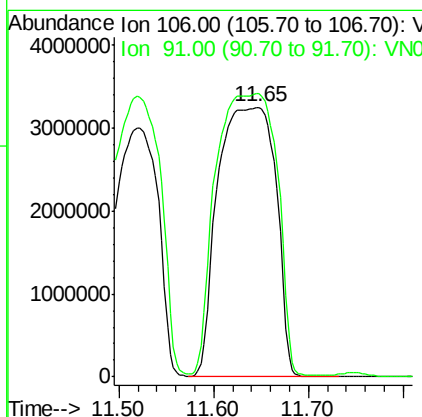
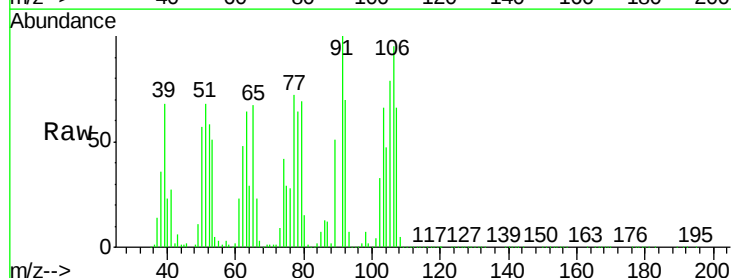
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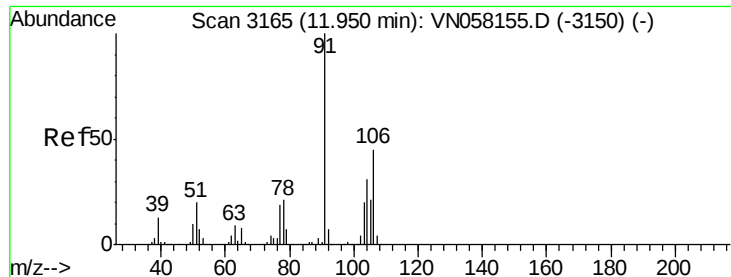
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#68
m/p-Xylenes
Concen: 1426.588 ug/l
RT: 11.65 min Scan# 3071
Delta R.T. 0.03 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Tgt Ion:106 Resp:13707072
Ion Ratio Lower Upper
106 100
91 110.6 163.6 245.4#





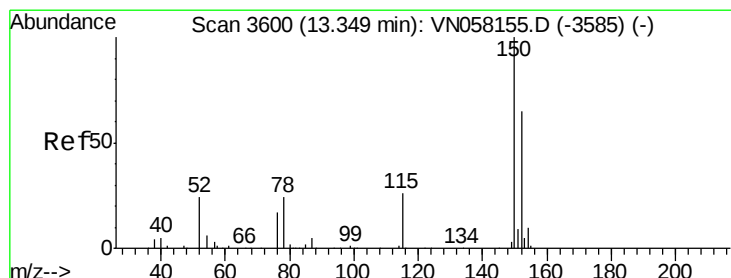
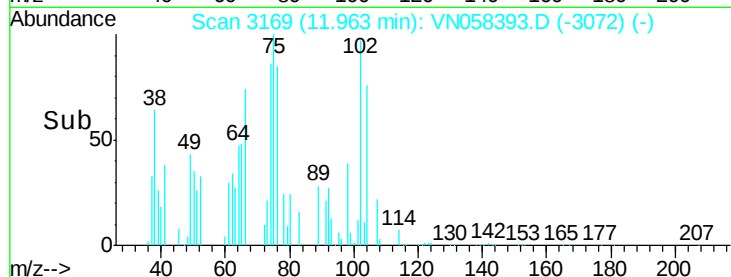
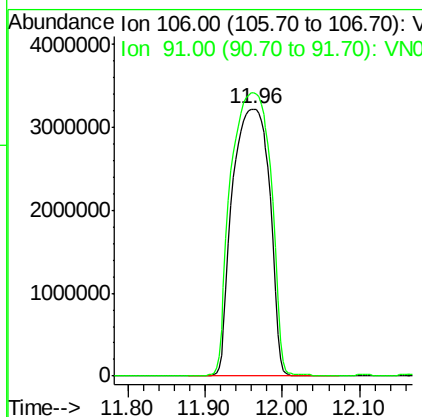
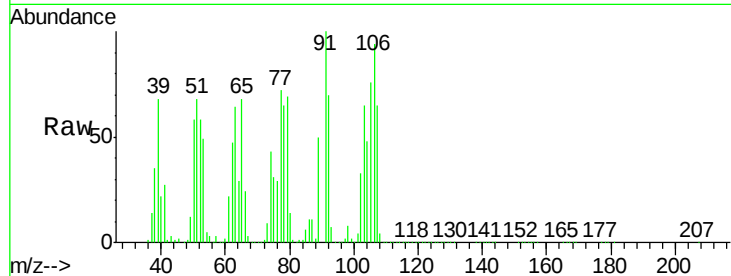
#69
o-Xylene
Concen: 1138.517 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Instrument :
MSVOA_N
ClientSampled :
40080

Tot Ion:106 Resp:10756352
Ion Ratio Lower Upper
106 100
91 114.3 111.8 335.3

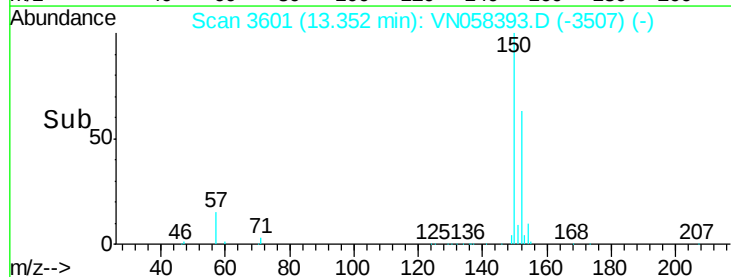
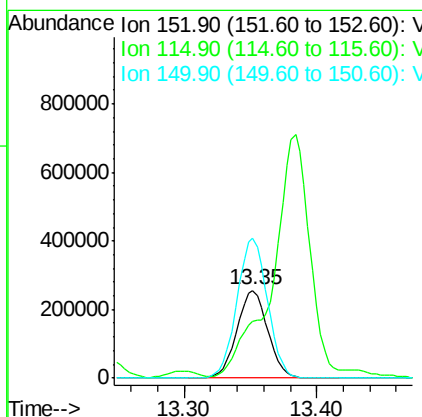
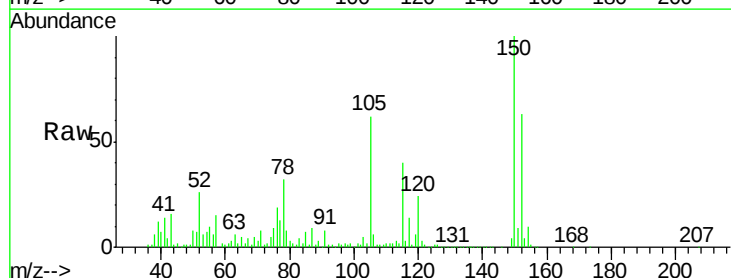
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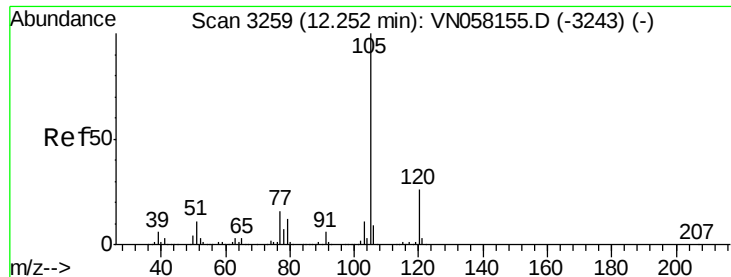
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Tgt Ion:152 Resp: 411471
Ion Ratio Lower Upper
152 100
115 0.0 30.1 90.3#
150 158.8 0.0 346.4





#73

Isopropylbenzene

Concen: 172.144 ug/l

RT: 12.26 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

ClientSampled :

40080

Tot Ion:105 Resp: 4433658

Ion Ratio Lower Upper

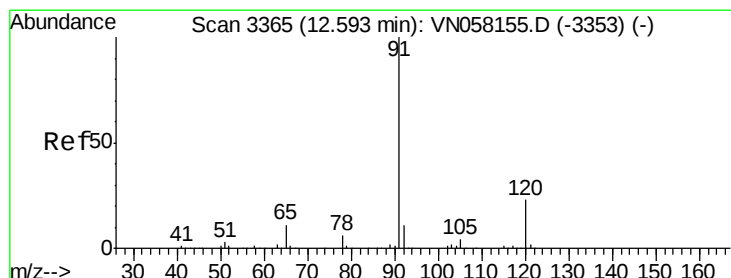
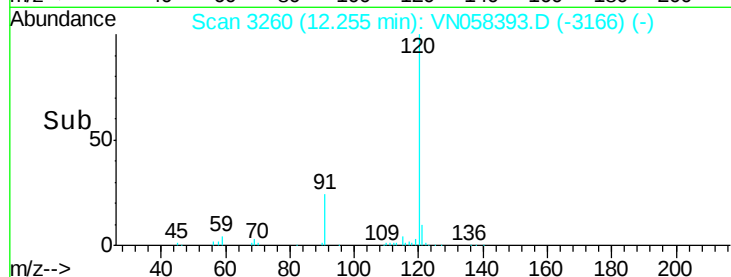
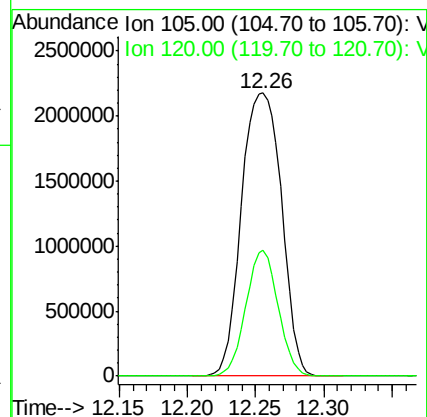
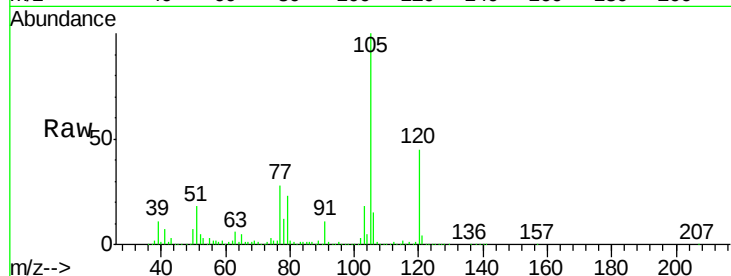
105 100

120 35.8 12.8 38.3

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#78

n-propylbenzene

Concen: 228.499 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058393.D

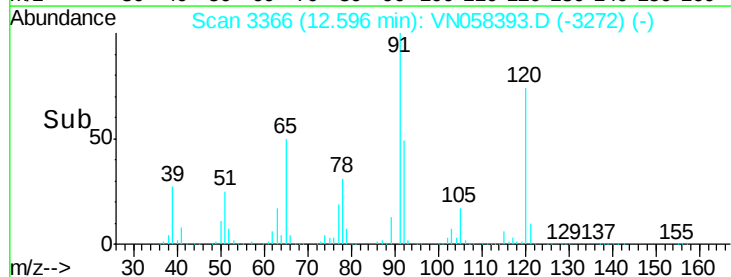
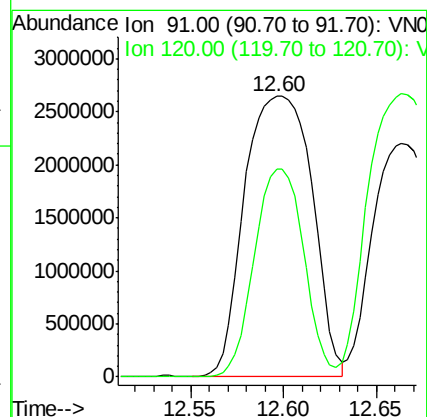
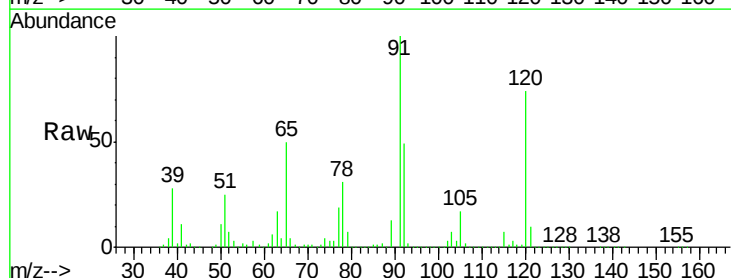
Acq: 26 Sep 2019 17:55

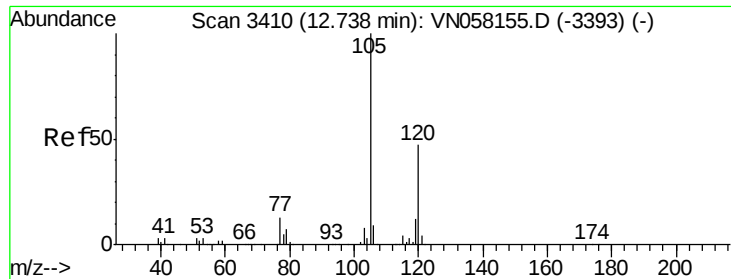
Tgt Ion: 91 Resp: 6687547

Ion Ratio Lower Upper

91 100

120 54.5 11.1 33.3#





#80

1,3,5-Trimethylbenzene

Concen: 296.961 ug/l m

RT: 12.74 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

ClientSampled :

40080

Tot Ion:105 Resp: 6467610

Ion Ratio Lower Upper

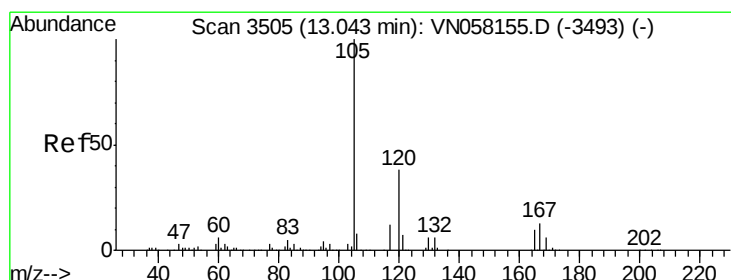
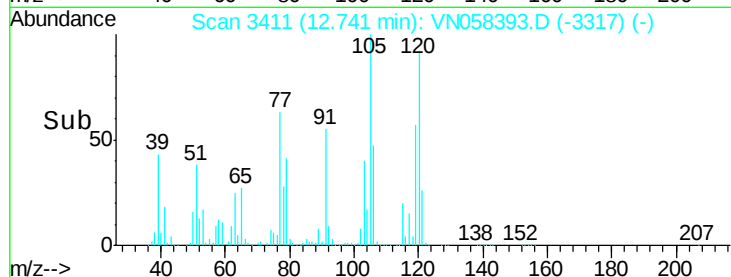
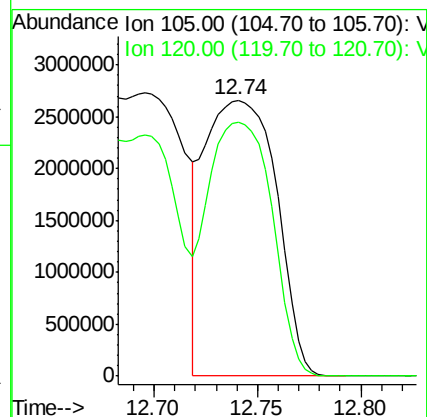
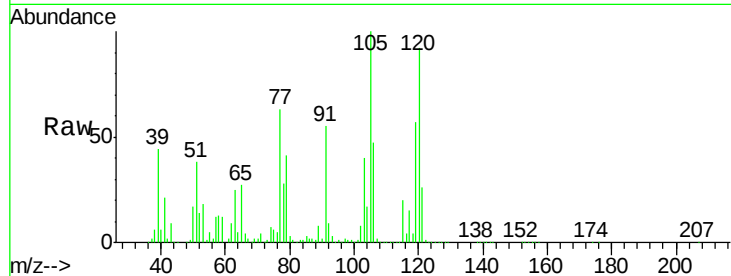
105 100

120 78.3 23.4 70.0#

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#84

1,2,4-Trimethylbenzene

Concen: 447.008 ug/l

RT: 13.05 min Scan# 3508

Delta R.T. 0.01 min

Lab File: VN058393.D

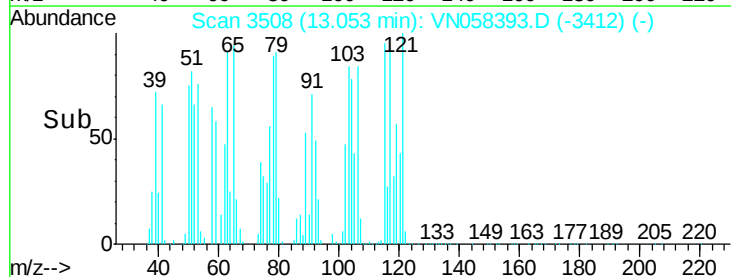
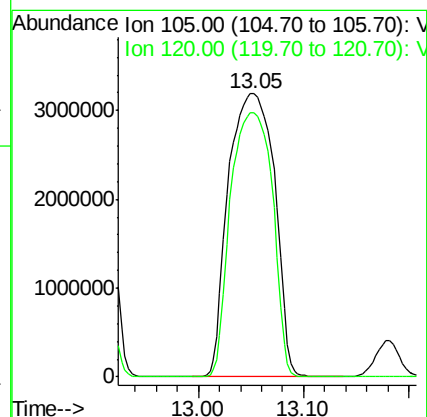
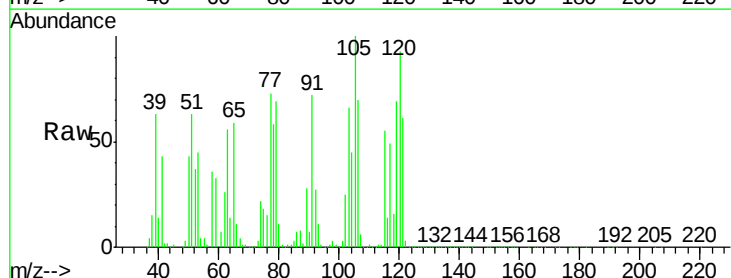
Acq: 26 Sep 2019 17:55

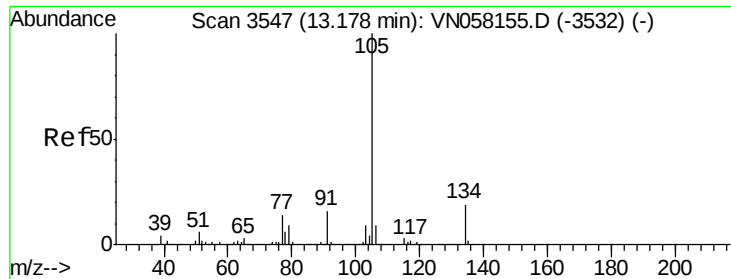
Tgt Ion:105 Resp: 9688394

Ion Ratio Lower Upper

105 100

120 84.8 22.1 66.5#





#85

sec-Butylbenzene

Concen: 24.947 ug/l

RT: 13.18 min Scan# 3548

Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

Instrument :

MSVOA_N

ClientSampled :

40080

Tot Ion:105 Resp: 633591

Ion Ratio Lower Upper

105 100

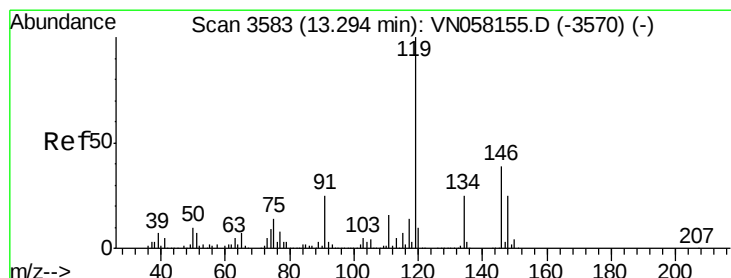
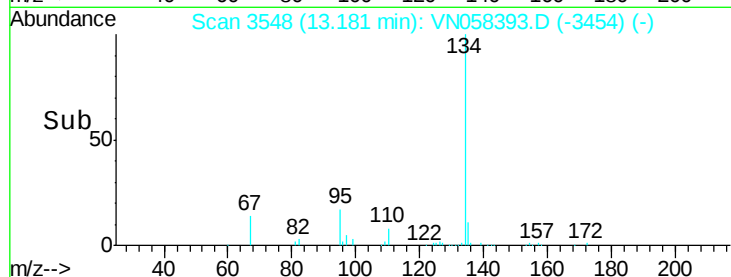
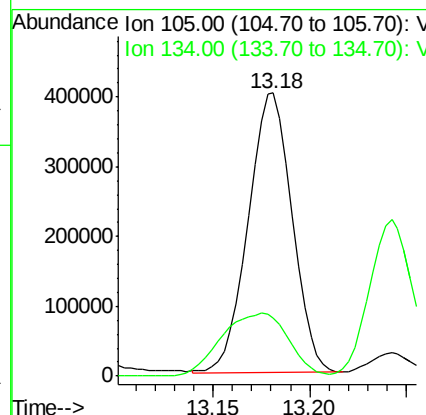
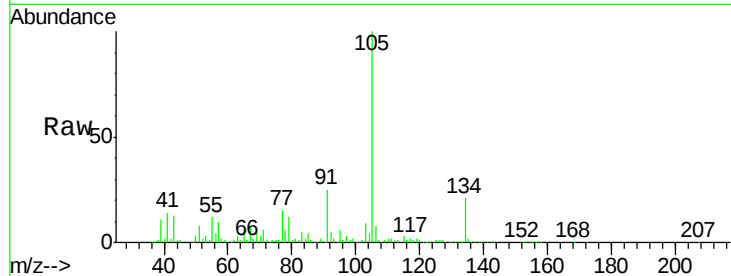
134 34.3 9.5 28.5#

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 18.462 ug/l m

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058393.D

Acq: 26 Sep 2019 17:55

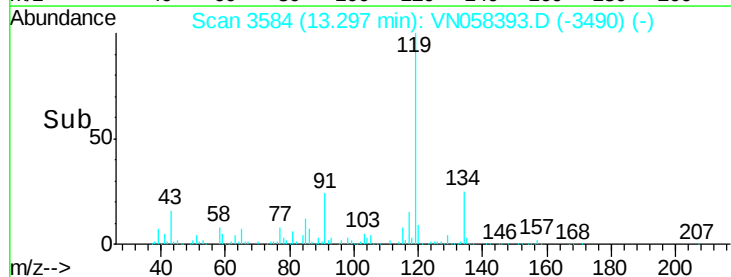
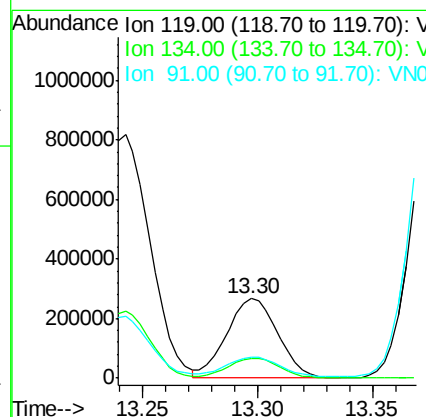
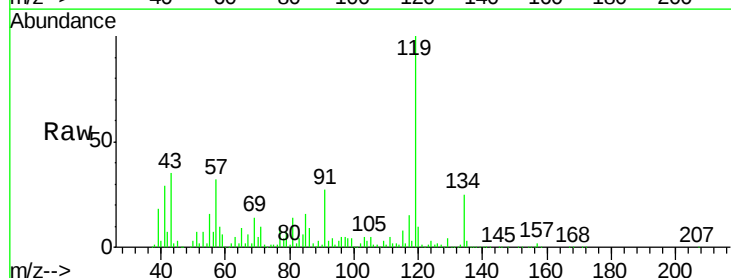
Tgt Ion:119 Resp: 416865

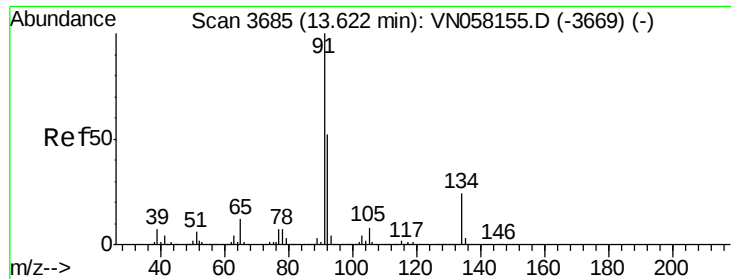
Ion Ratio Lower Upper

119 100

134 83.0 12.7 38.0#

91 74.5 12.3 36.8#





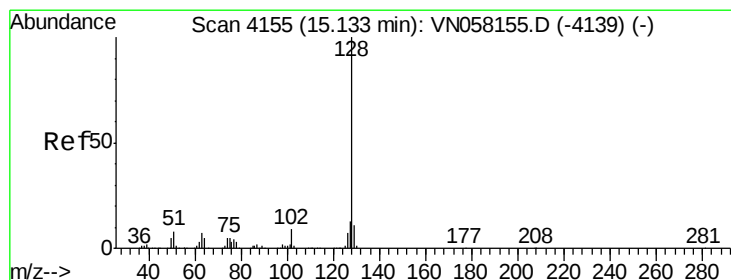
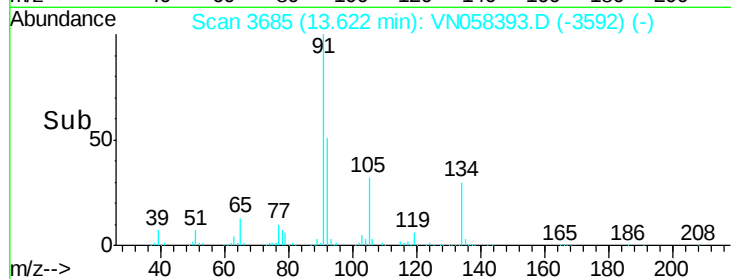
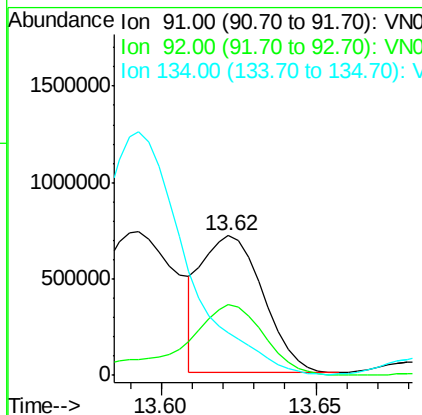
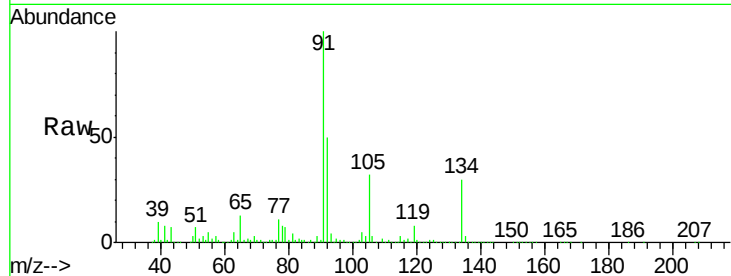
#89
n-Butylbenzene
Concen: 45.801 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Instrument :
MSVOA_N
ClientSampleId :
40080

Tot Ion	Ratio	Lower	Upper
91	100		
92	67.7	25.7	77.0
134	0.0	11.8	35.4#

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:49 AM



#95
Naphthalene
Concen: 393.612 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN058393.D
Acq: 26 Sep 2019 17:55

Tgt Ion	Ratio	Lower	Upper
128	100		
127	41.9	10.2	15.2#
129	39.9	8.6	12.8#

