

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030519\
 Data File : VN054104.D
 Acq On : 5 Mar 2019 17:28
 Operator : JC/SP
 Sample : K1727-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-1

Manual Integrations
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MMDadoda
 3/6/2019 9:16:32 AM

Quant Time: Mar 06 09:31:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	668365	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1141345	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1096282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	462923	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	391632	49.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.98%	
35) Dibromofluoromethane	7.59	113	371626	50.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.70%	
50) Toluene-d8	10.09	98	1436685	52.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.58%	
62) 4-Bromofluorobenzene	12.40	95	502225	54.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.74%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	89334	10.450	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	20402	2.857	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	2325074	292.769	ug/l	96
31) Cyclohexane	7.66	56	26652	1.732	ug/l #	39
39) Methylcyclohexane	9.08	83	22145	1.731	ug/l	98
40) Benzene	8.04	78	50568	1.551	ug/l	97
44) Trichloroethene	8.83	130	4367	0.505	ug/l	93
52) Toluene	10.16	92	1003334	52.257	ug/l	98
67) Ethyl Benzene	11.51	91	408363	10.528	ug/l	99
68) m/p-Xylenes	11.62	106	1053282	71.950	ug/l	95
69) o-Xylene	11.95	106	617667	42.941	ug/l	98
73) Isopropylbenzene	12.25	105	46758	1.298	ug/l	95
78) n-propylbenzene	12.59	91	143145	3.493	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	1168822	39.620	ug/l	98
83) tert-Butylbenzene	12.99	119	55998	2.146	ug/l	93
84) 1,2,4-Trimethylbenzene	13.04	105	1911695	64.909	ug/l	99
85) sec-Butylbenzene	13.17	105	50056m	1.405	ug/l	
86) p-Isopropyltoluene	13.29	119	121903	4.046	ug/l	99
95) Naphthalene	15.13	128	243577	15.647	ug/l	99

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

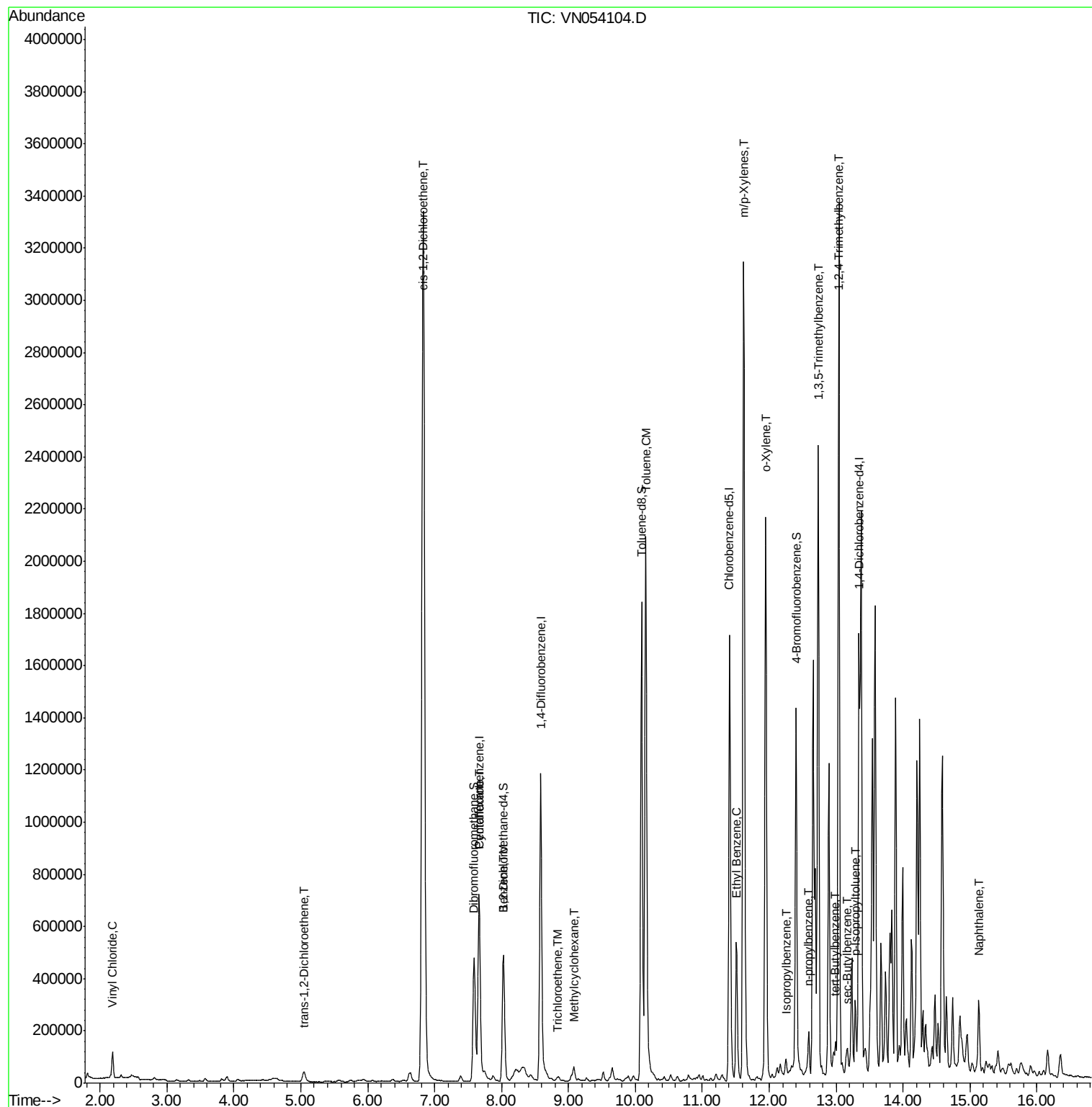
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030519\
Data File : VN054104.D
Acq On : 5 Mar 2019 17:28
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ALS Vial : 16 Sample Multiplier: 1

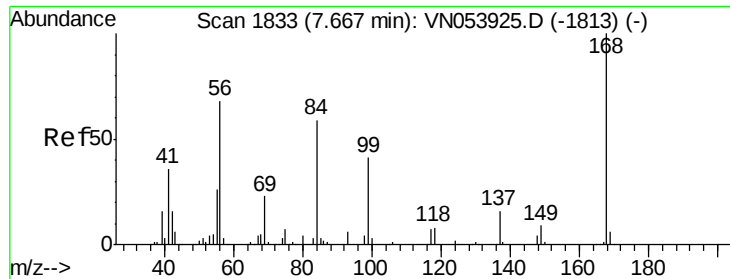
Instrument :
MSVOA_N
ClientSampleId :
DUP-1

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Quant Time: Mar 06 09:31:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 28 04:05:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

DUP-1

Tot Ion:168 Resp: 668365

Ion Ratio Lower Upper

168 100

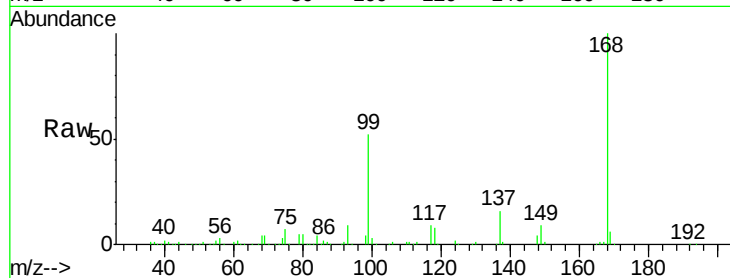
99 52.0 36.9 55.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

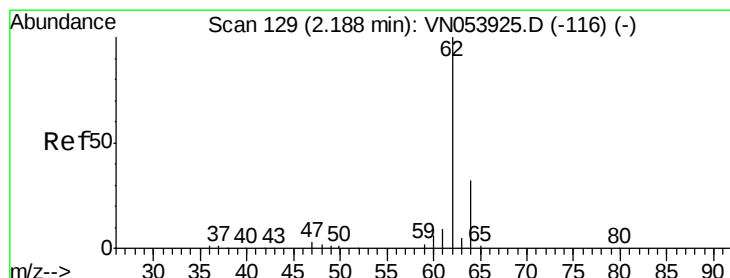
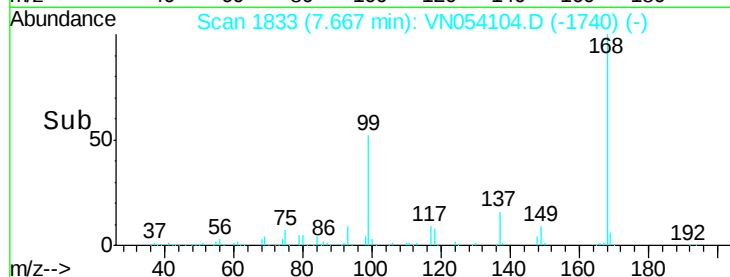
100000

50000

0

Time-->

7.60 7.80 8.00



#4

Vinyl Chloride

Concen: 10.450 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054104.D

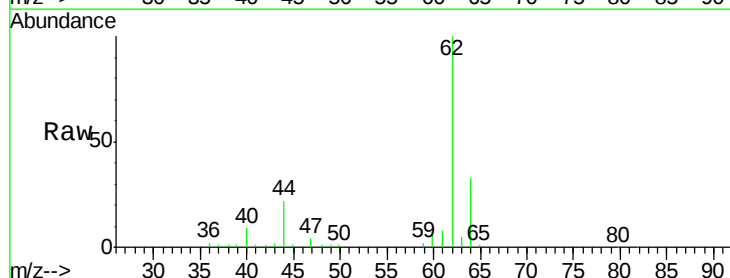
Acq: 5 Mar 2019 17:28

Tgt Ion: 62 Resp: 89334

Ion Ratio Lower Upper

62 100

64 33.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

60000

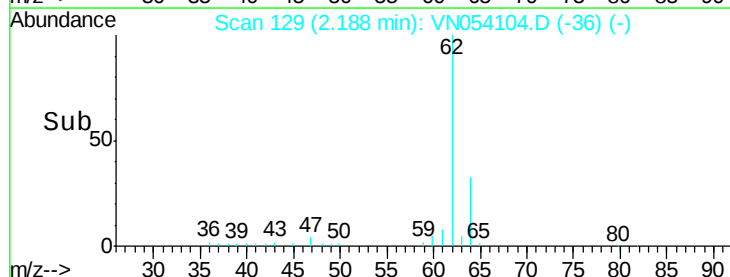
40000

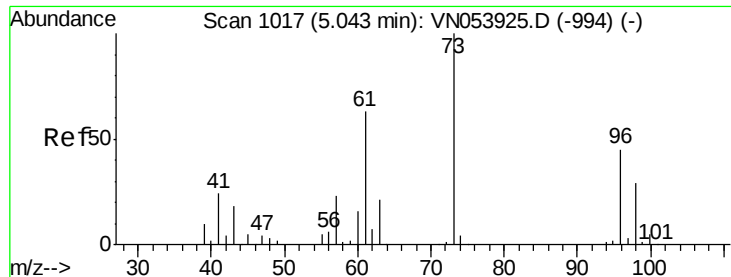
20000

0

Time-->

2.10 2.15 2.20 2.25





#21

trans-1,2-Dichloroethene

Concen: 2.857 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

DUP-1

Tot Ion: 96 Resp: 20402

Ion Ratio Lower Upper

96 100

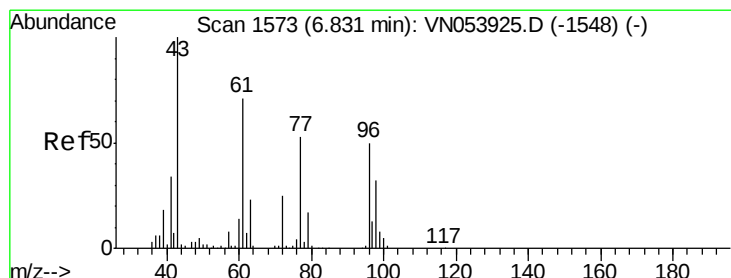
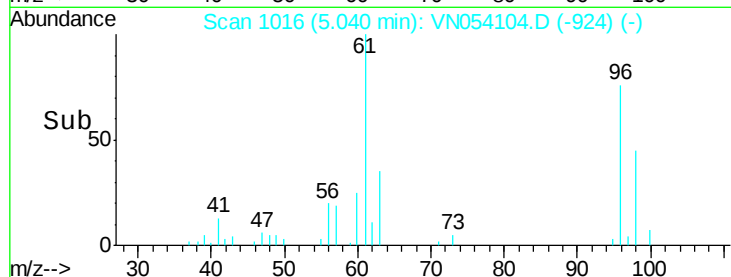
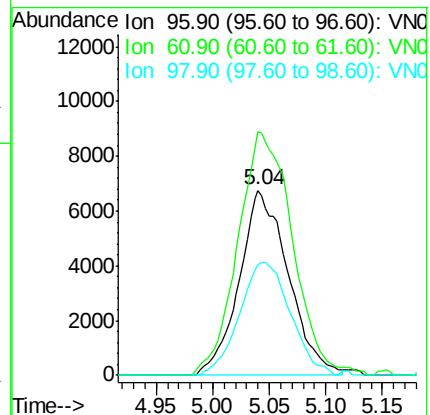
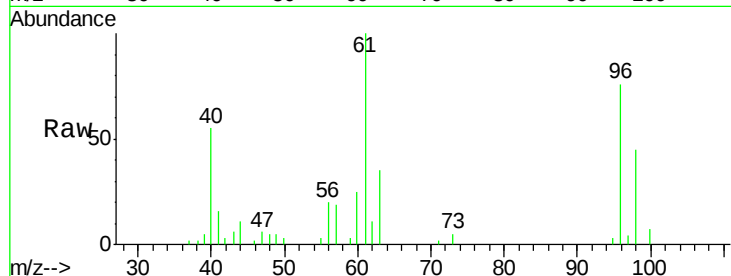
61 131.7 104.5 156.7

98 59.5 50.6 76.0

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#27

cis-1,2-Dichloroethene

Concen: 292.769 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

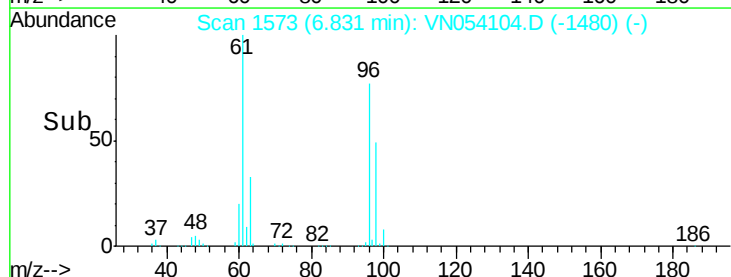
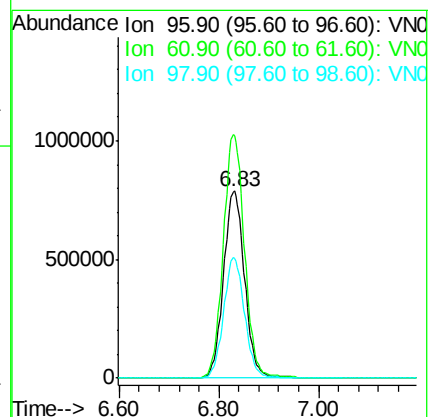
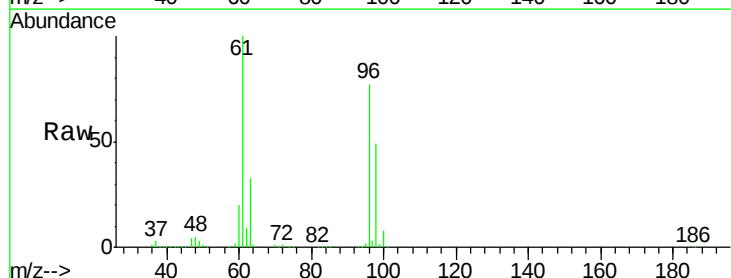
Tgt Ion: 96 Resp: 2325074

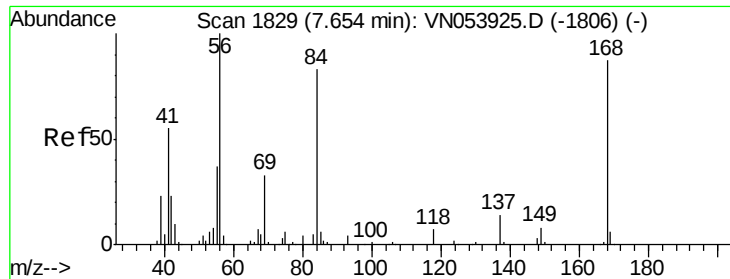
Ion Ratio Lower Upper

96 100

61 130.7 0.0 275.6

98 64.1 0.0 130.0





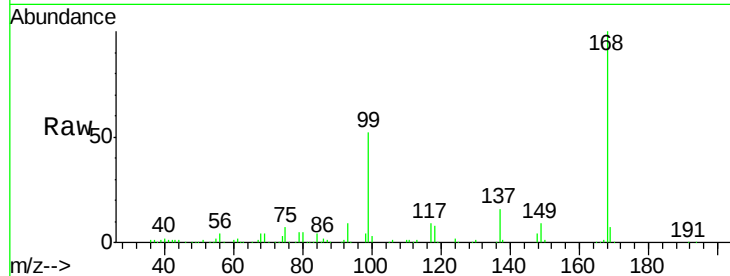
#31
Cyclohexane
Concen: 1.732 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Instrument :
MSVOA_N
ClientSampled :
DUP-1

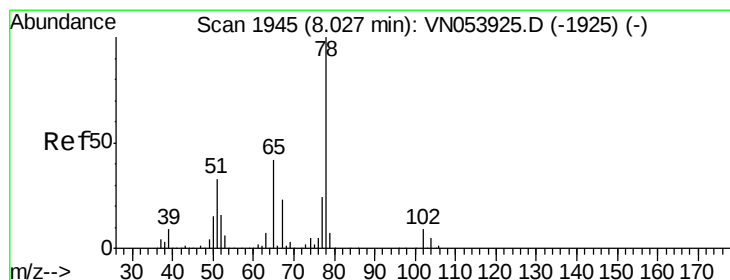
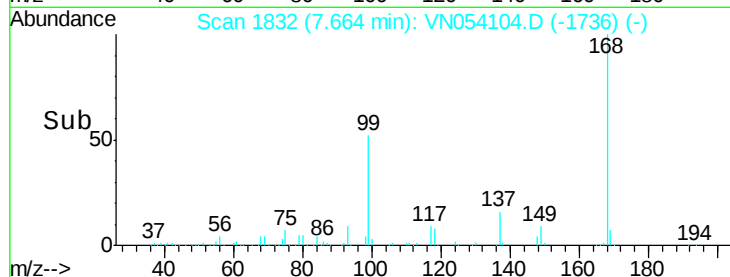
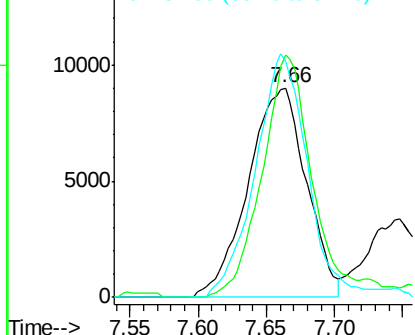
Tot Ion	Ratio	Lower	Upper
56	100		
69	115.5	26.0	39.0#
84	112.6	69.1	103.7#

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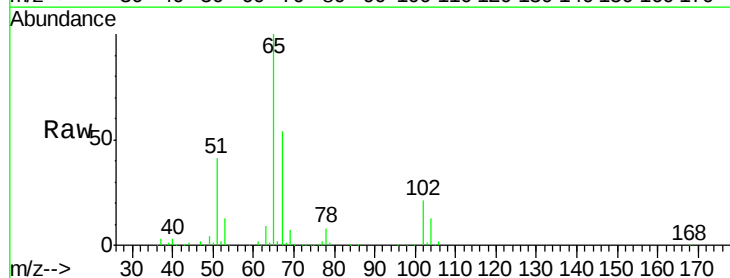


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

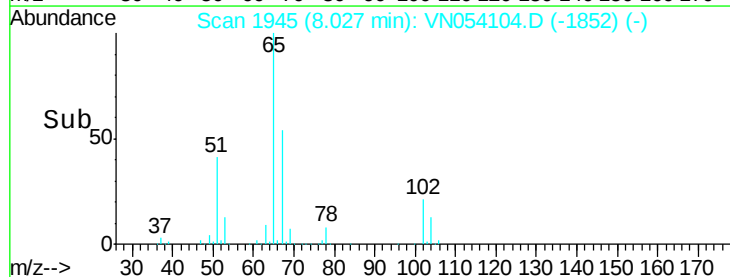
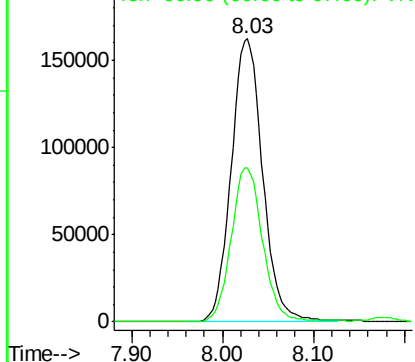


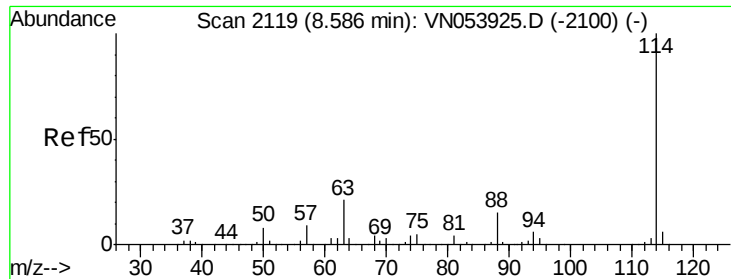
#33
1,2-Dichloroethane-d4
Concen: 49.987 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	111.8



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





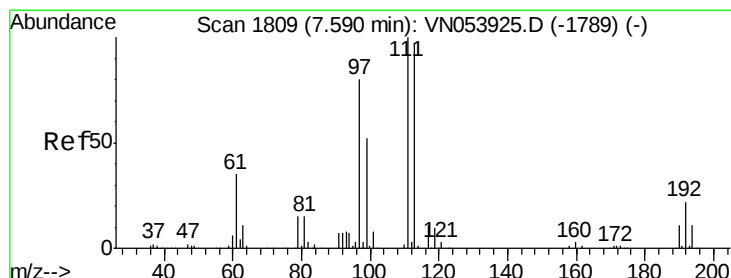
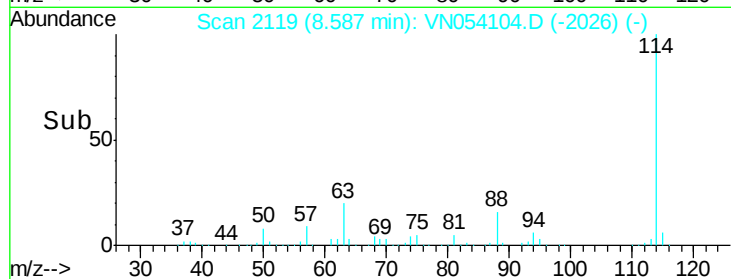
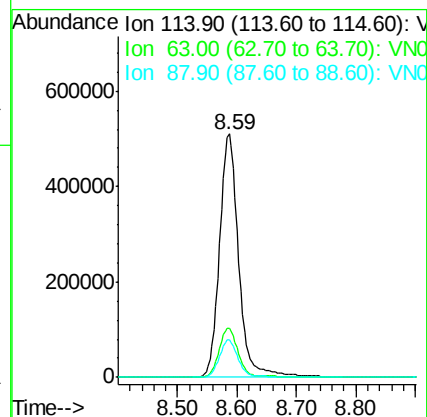
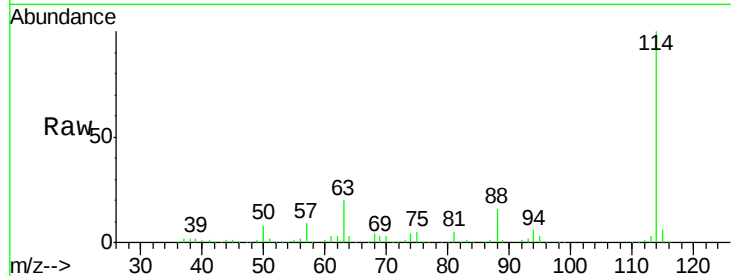
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054104.D
 Acq: 5 Mar 2019 17:28

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	37.4
88	15.5	0.0	30.4

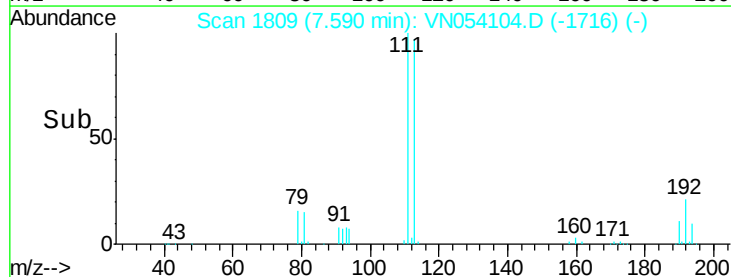
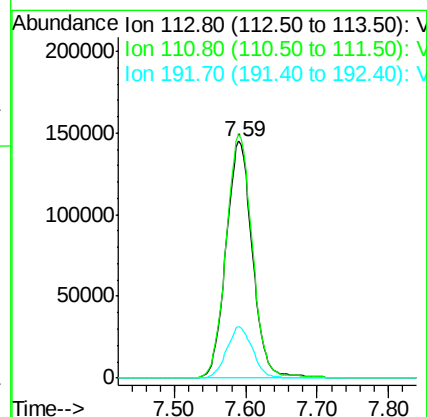
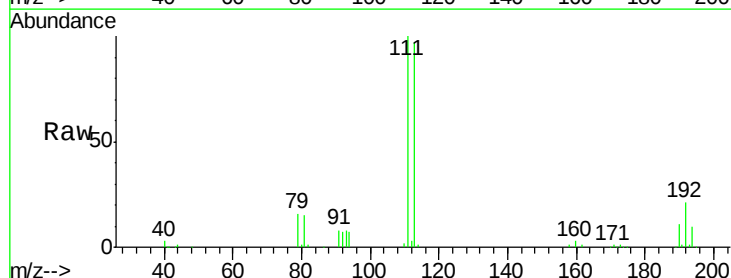
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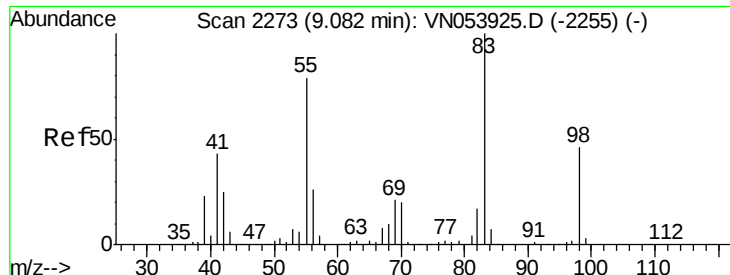
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#35
 Dibromofluoromethane
 Concen: 50.352 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054104.D
 Acq: 5 Mar 2019 17:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	21.3	18.8	28.2





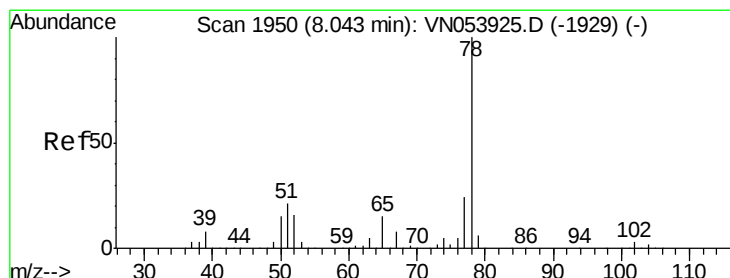
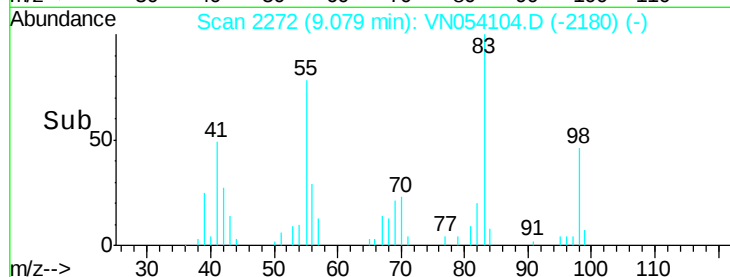
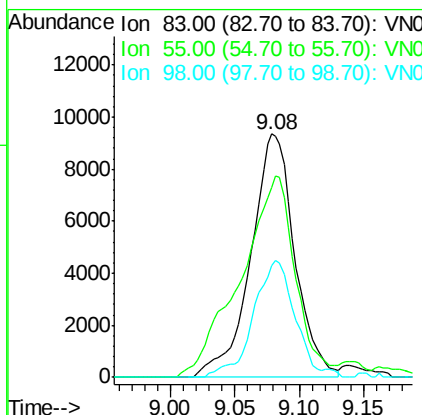
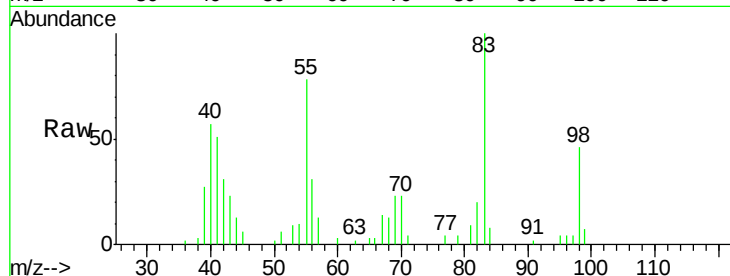
#39
Methvlcvclohexane
Concen: 1.731 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Instrument :
MSVOA_N
ClientSampleId :
DUP-1

Tot Ion	83	Resp	22145
Ion Ratio	100	Lower	Upper
83	100		
55	74.4	58.2	87.4
98	45.8	37.2	55.8

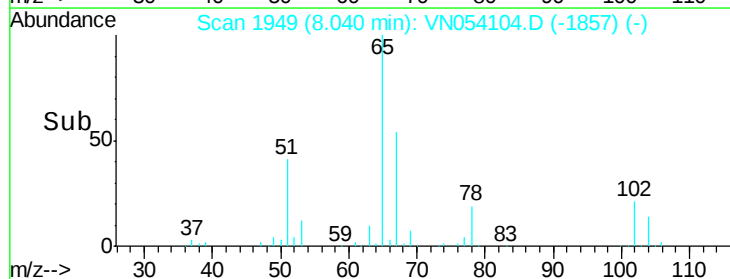
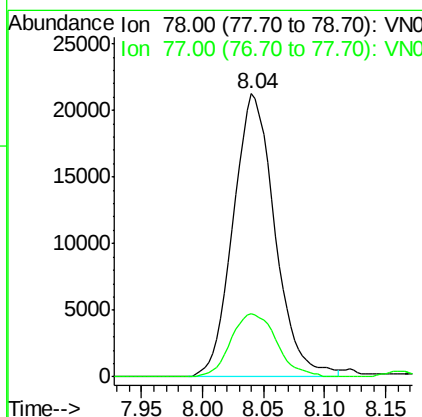
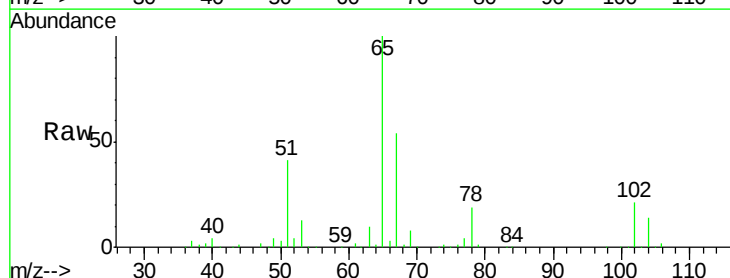
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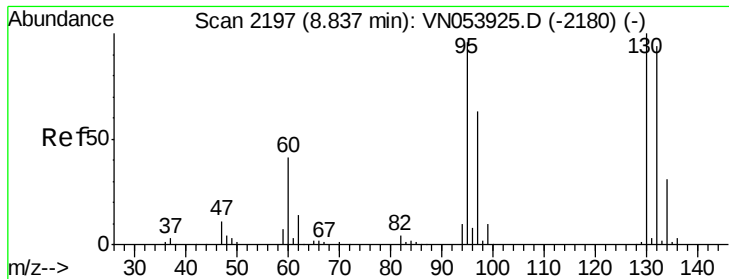
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#40
Benzene
Concen: 1.551 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Tgt Ion	78	Resp	50568
Ion Ratio	100	Lower	Upper
78	100		
77	22.2	18.8	28.2





#44

Trichloroethene

Concen: 0.505 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

DUP-1

Tot Ion:130 Resp: 4367

Ion Ratio Lower Upper

130 100

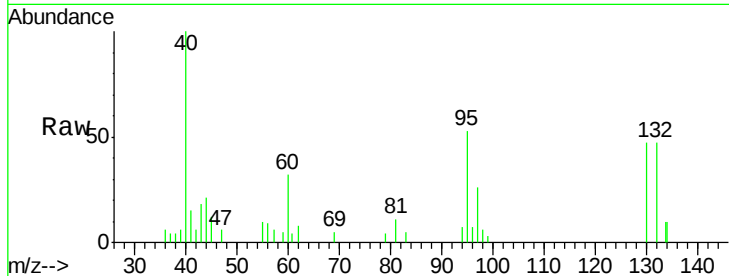
95 101.4 0.0 190.0

Manual Integrations

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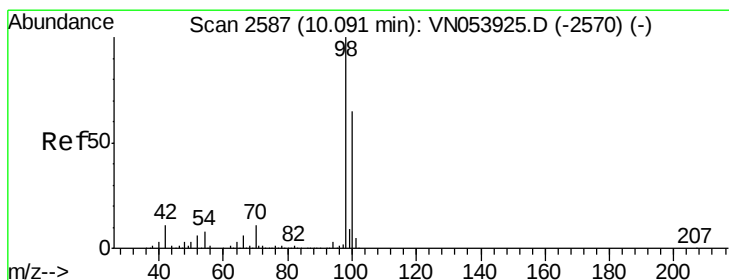
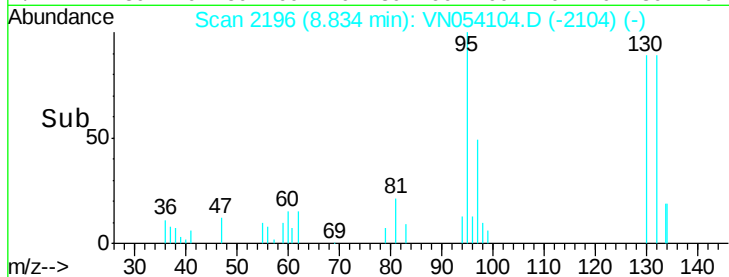
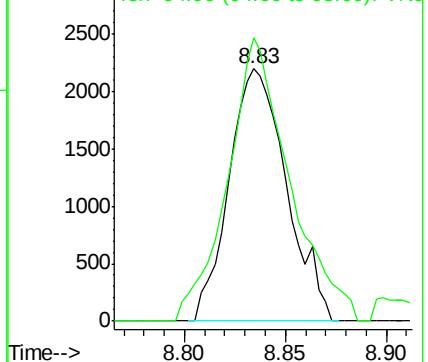
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Abundance Ion 129.80 (129.50 to 130.50): VN054104.D (-2194) (-)

Ion 94.90 (94.60 to 95.60): VN054104.D (-2194) (-)



#50

Toluene-d8

Concen: 52.291 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054104.D

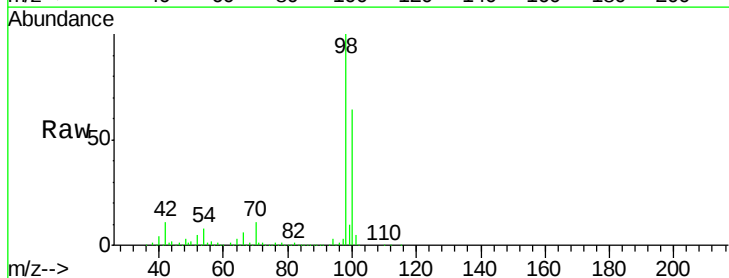
Acq: 5 Mar 2019 17:28

Tgt Ion: 98 Resp: 1436685

Ion Ratio Lower Upper

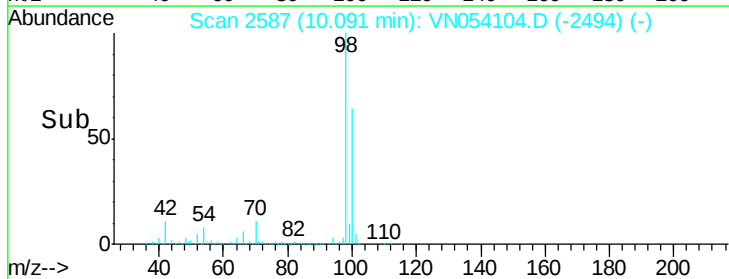
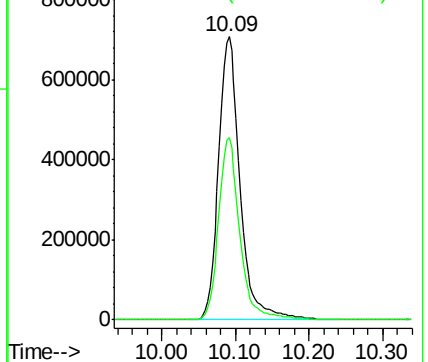
98 100

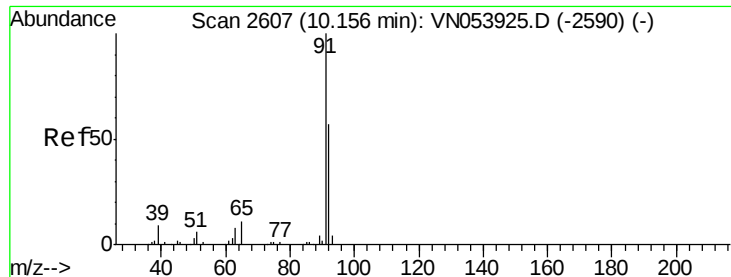
100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN054104.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN054104.D (-2494) (-)





#52

Toluene

Concen: 52.257 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

DUP-1

Tot Ion: 92 Resp: 1003334

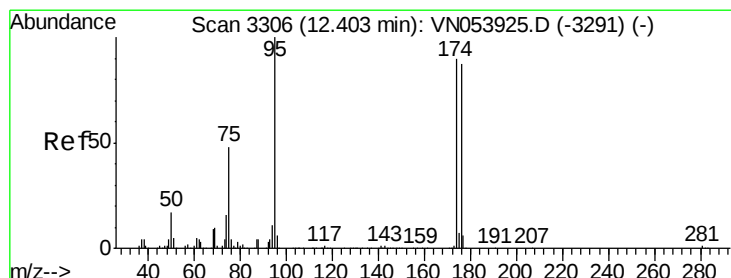
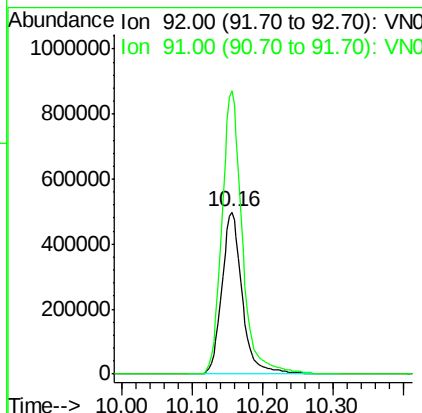
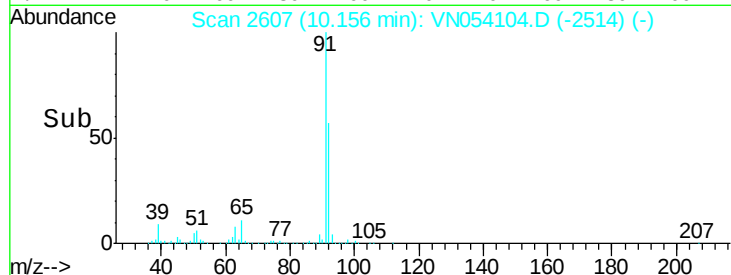
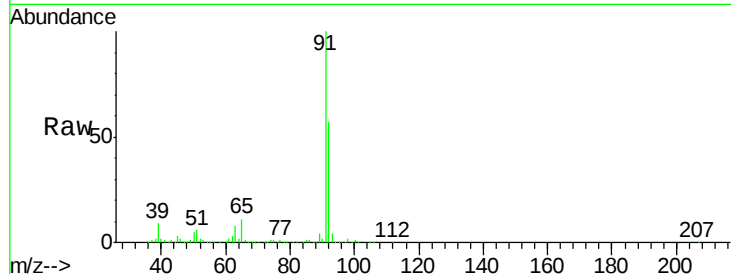
Ion Ratio Lower Upper

92 100

91 175.1 138.4 207.6

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#62

4-Bromofluorobenzene

Concen: 54.865 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

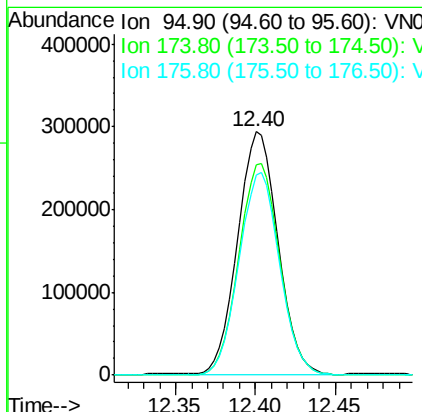
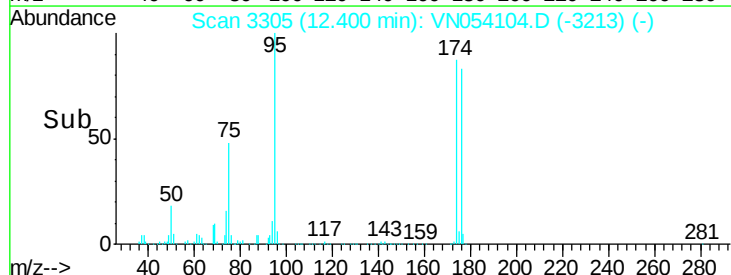
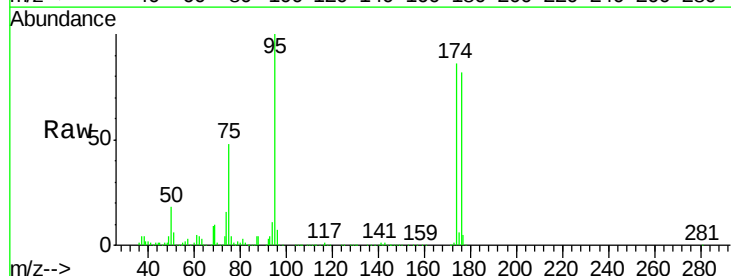
Tgt Ion: 95 Resp: 502225

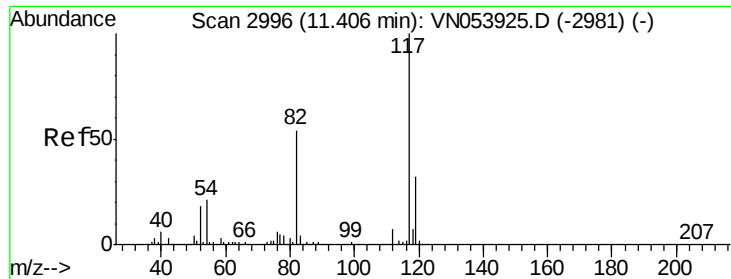
Ion Ratio Lower Upper

95 100

174 88.5 0.0 188.8

176 84.8 0.0 182.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

DUP-1

Tot Ion:117 Resp: 1096282

Ion Ratio Lower Upper

117 100

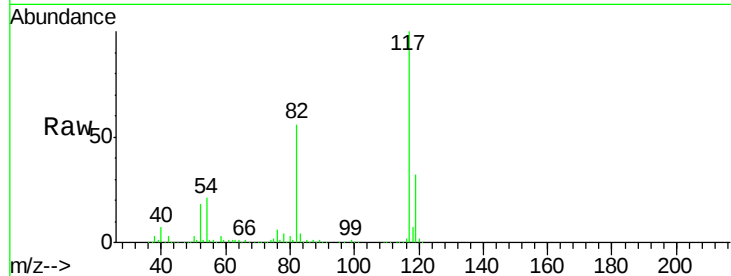
82 55.7 41.4 62.2

119 32.2 25.3 37.9

Manual Integrations
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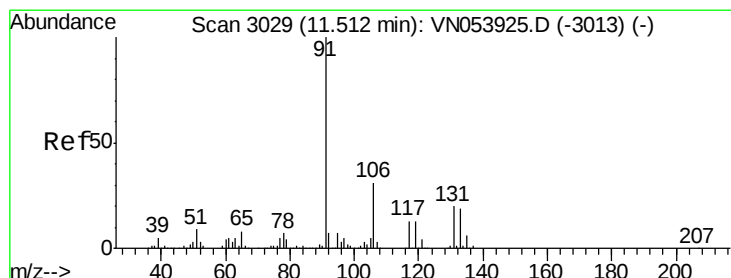
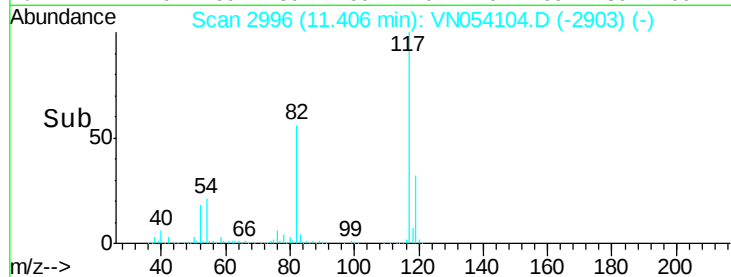
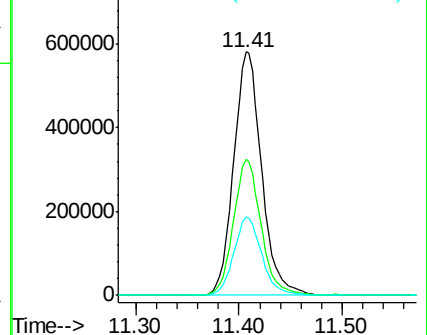
3/6/2019 9:16:32 AM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 10.528 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054104.D

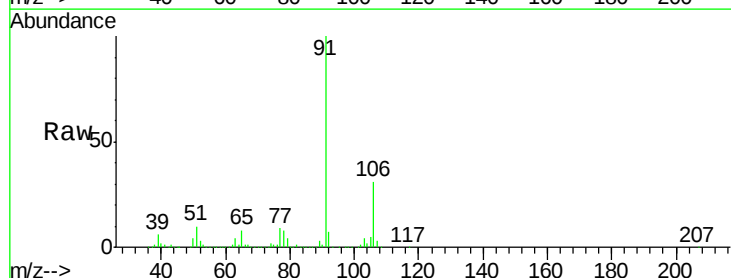
Acq: 5 Mar 2019 17:28

Tgt Ion: 91 Resp: 408363

Ion Ratio Lower Upper

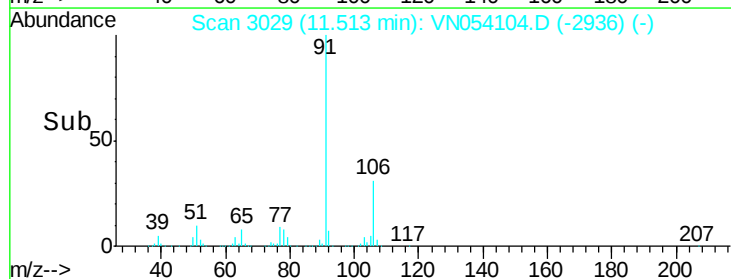
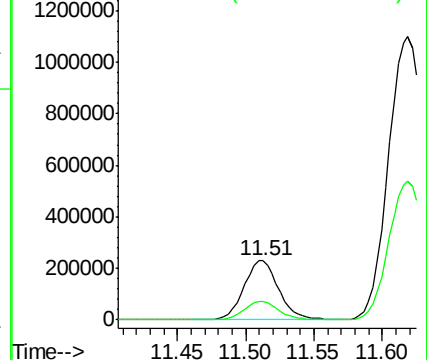
91 100

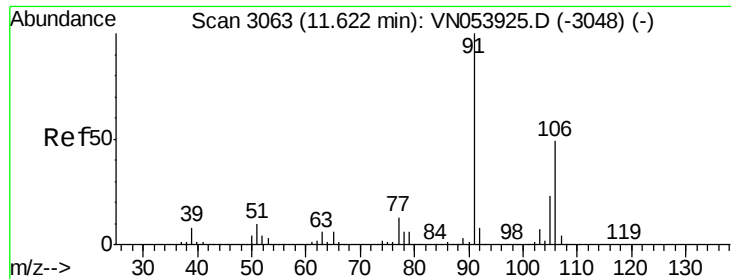
106 31.0 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





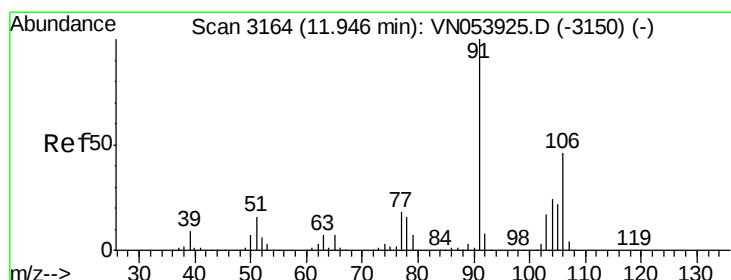
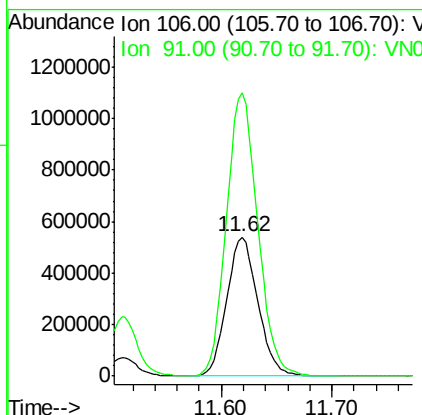
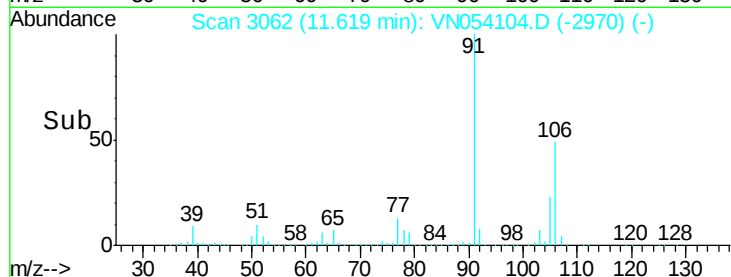
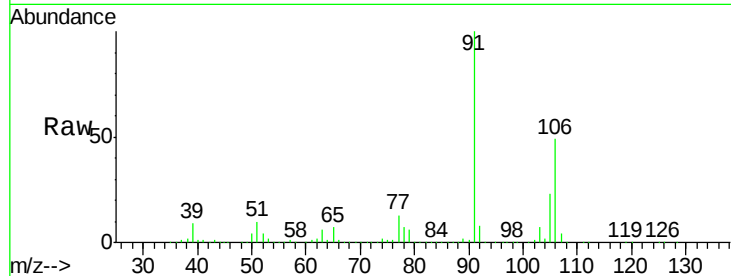
#68
m/p-Xylenes
Concen: 71.950 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Instrument :
MSVOA_N
ClientSampleId :
DUP-1

Tot Ion:106 Resp: 1053282
Ion Ratio Lower Upper
106 100
91 205.5 158.9 238.3

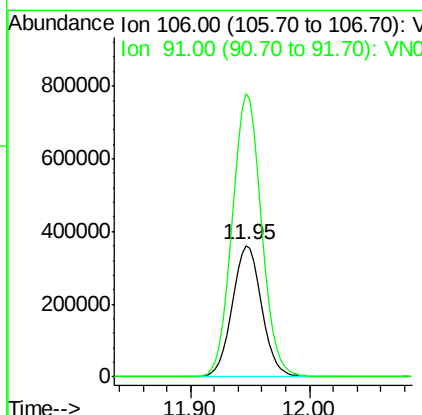
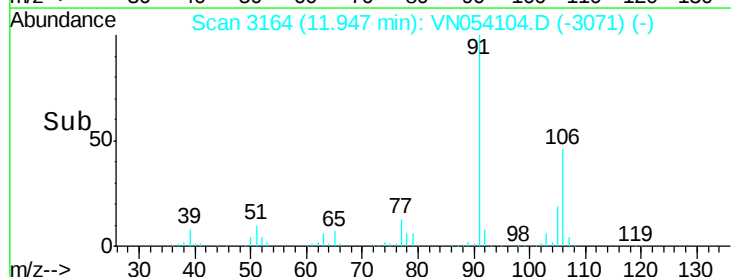
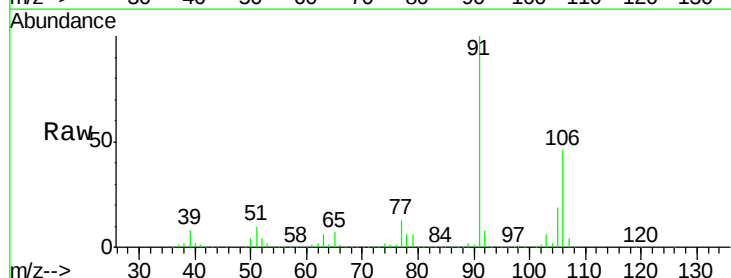
Manual Integrations
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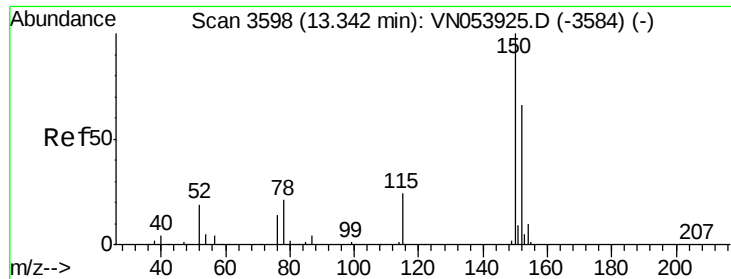
MMDadoda
3/6/2019 9:16:32 AM



#69
o-Xylene
Concen: 42.941 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Tgt Ion:106 Resp: 617667
Ion Ratio Lower Upper
106 100
91 215.5 106.0 318.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

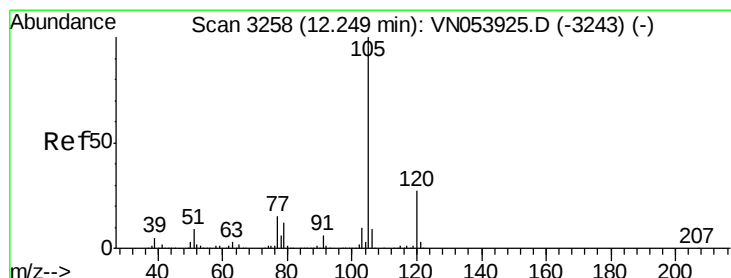
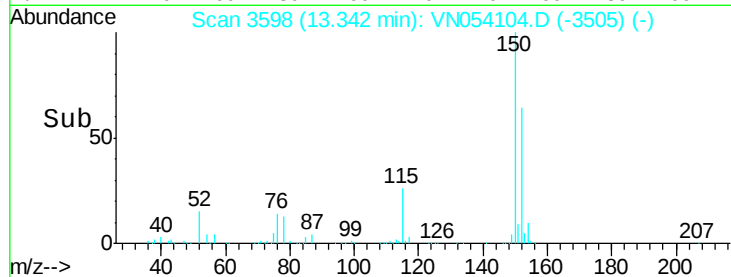
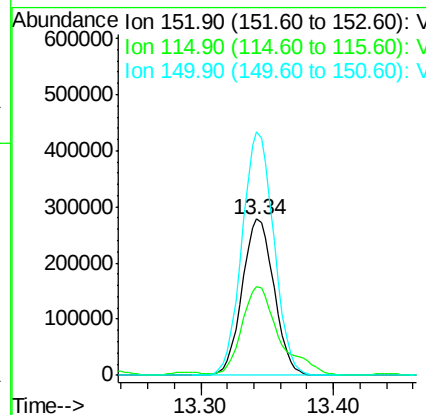
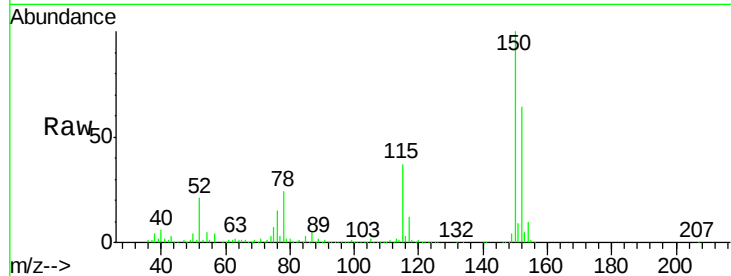
ClientSampled :

DUP-1

Tot Ion:	152	Resp:	462923
Ion	Ratio	Lower	Upper
152	100		
115	66.4	27.2	81.6
150	155.8	0.0	348.2

Manual Integrations
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#73

Isopropylbenzene

Concen: 1.298 ug/l

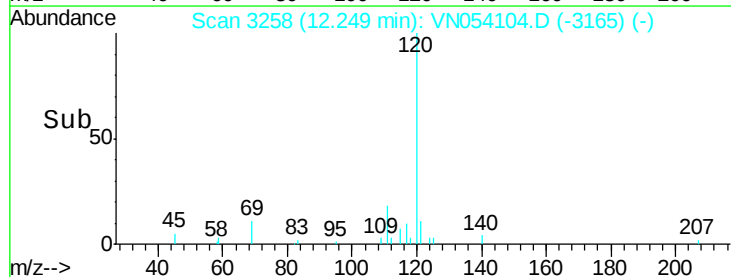
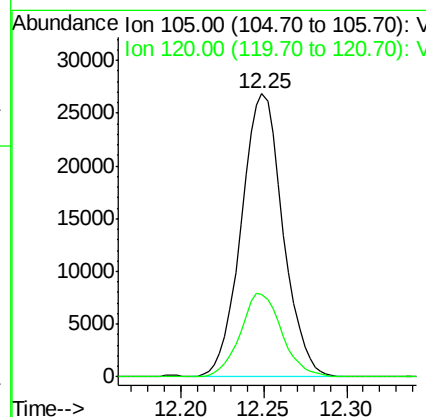
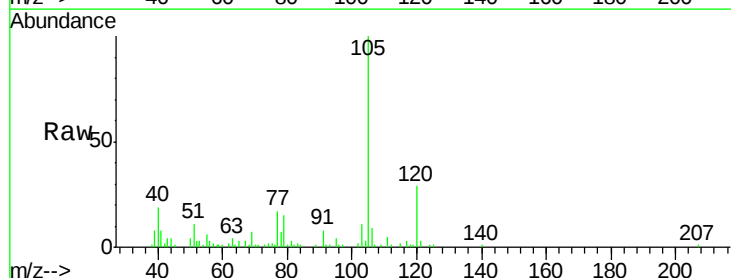
RT: 12.25 min Scan# 3258

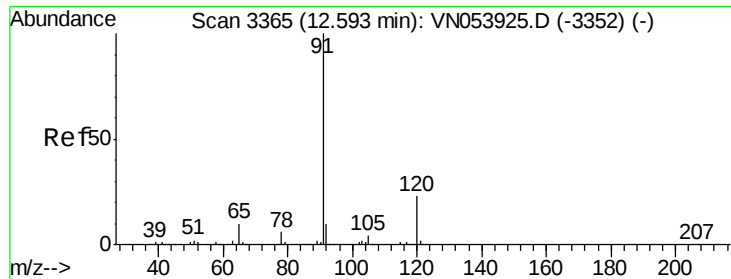
Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Tgt Ion:	105	Resp:	46758
Ion	Ratio	Lower	Upper
105	100		
120	29.4	13.5	40.5





#78

n-propylbenzene

Concen: 3.493 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

DUP-1

Tot Ion: 91 Resp: 143145

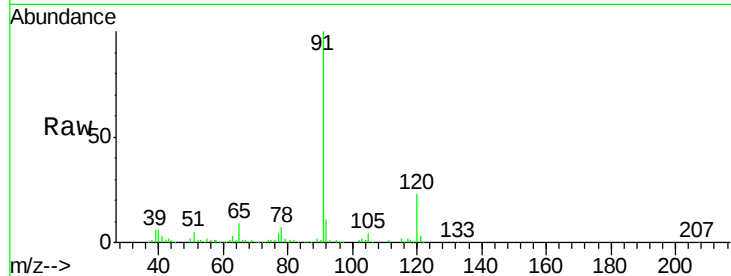
Ion Ratio Lower Upper

91 100

120 22.8 11.9 35.9

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Abundance Ion 91.00 (90.70 to 91.70): VN053925.D (-3352) (-)

Ion 120.00 (119.70 to 120.70): VN053925.D (-3352) (-)

200000

150000

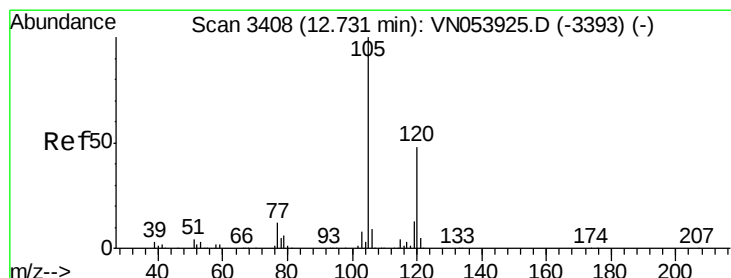
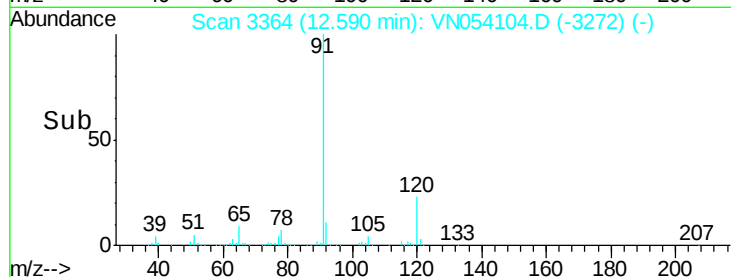
100000

50000

0

12.50 12.55 12.60 12.65

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 39.620 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054104.D

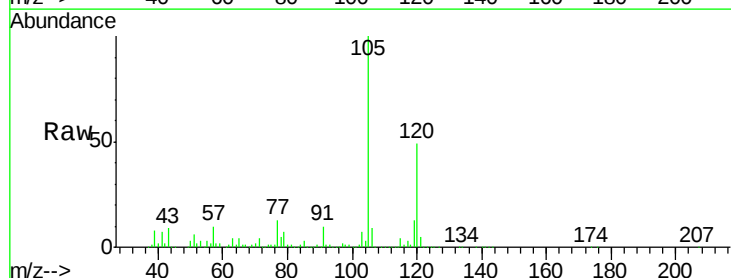
Acq: 5 Mar 2019 17:28

Tgt Ion: 105 Resp: 1168822

Ion Ratio Lower Upper

105 100

120 48.5 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN053925.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053925.D (-3393) (-)

800000

600000

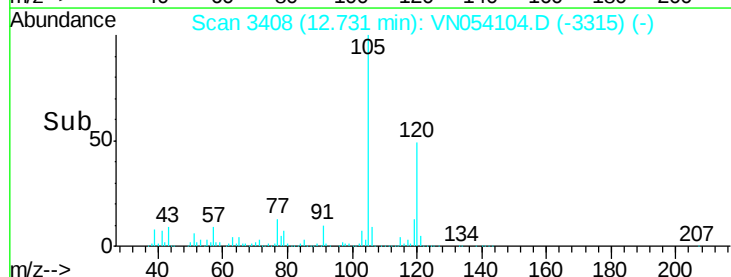
400000

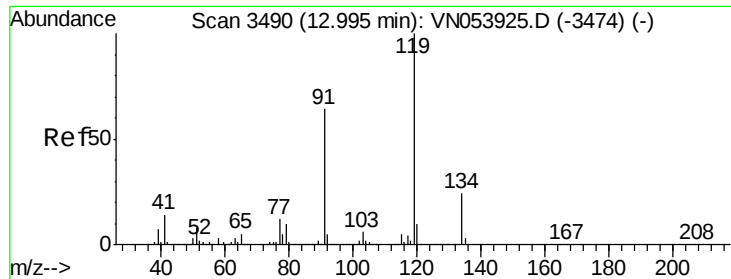
200000

0

12.70 12.75 12.80

Time-->





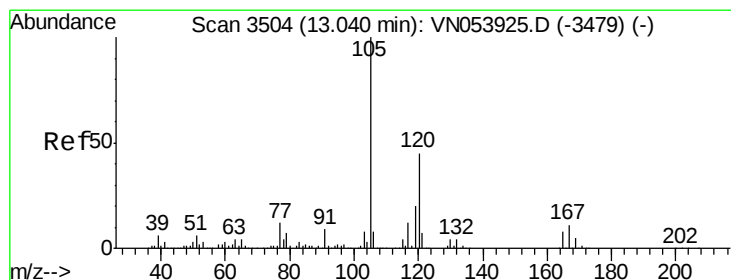
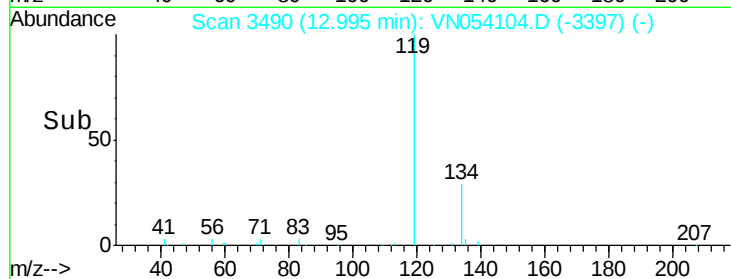
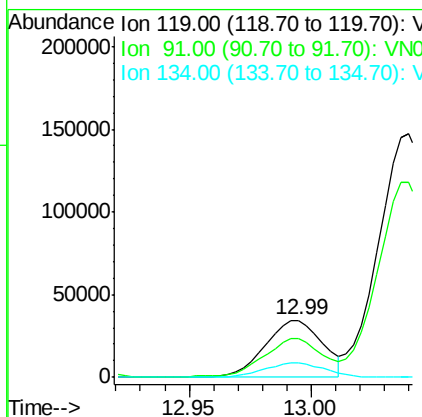
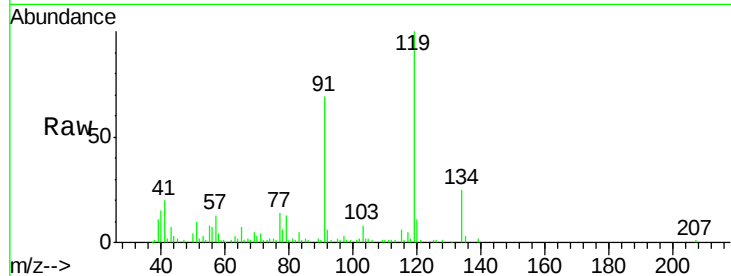
#83
tert-Butylbenzene
Concen: 2.146 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Instrument :
MSVOA_N
ClientSampled :
DUP-1

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.2	30.6	91.8
134	27.0	13.0	39.0

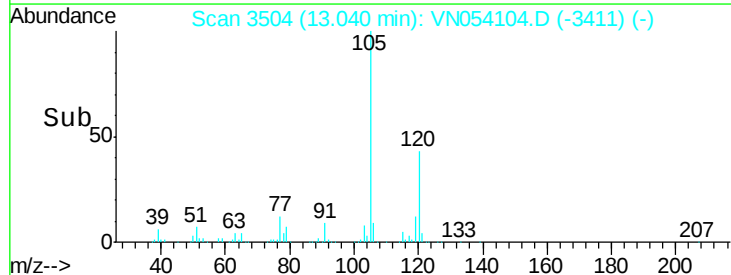
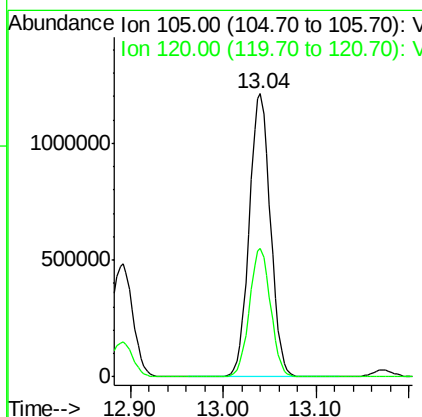
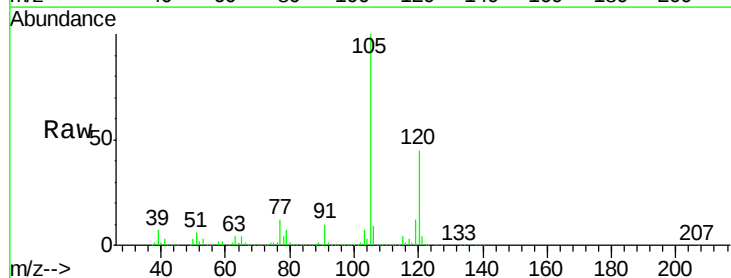
Manual Integrations
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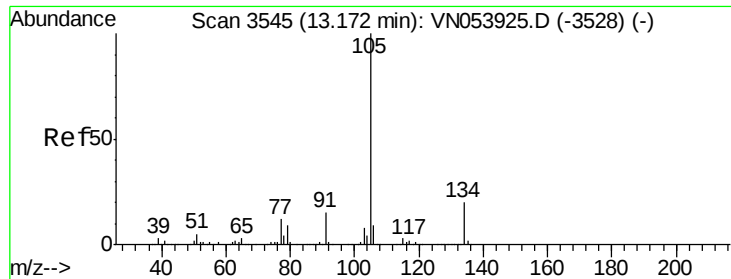
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#84
1,2,4-Trimethylbenzene
Concen: 64.909 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.2	69.5





#85

sec-Butylbenzene

Concen: 1.405 ug/l m

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

DUP-1

Tot Ion:105 Resp: 50056

Ion Ratio Lower Upper

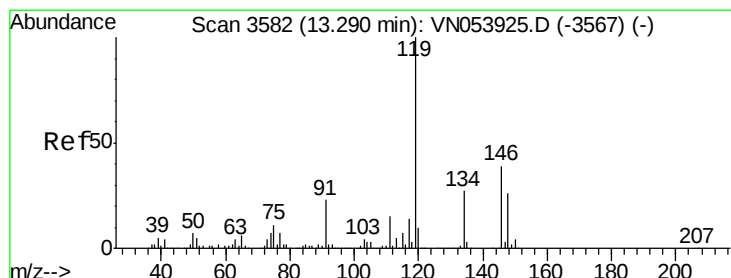
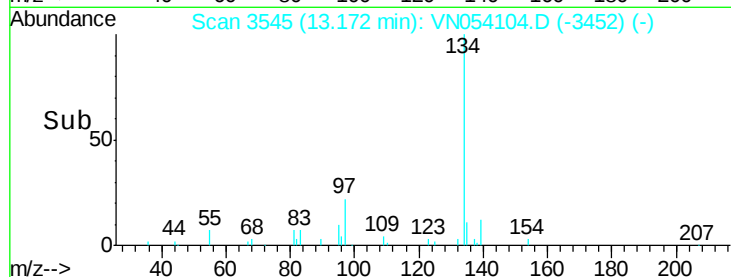
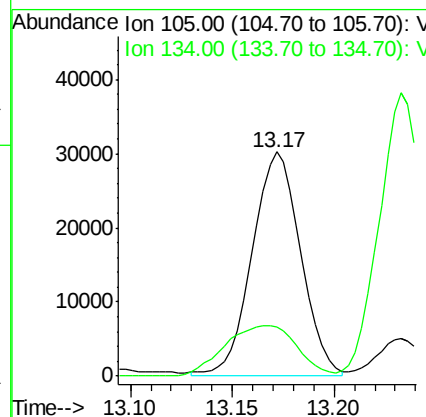
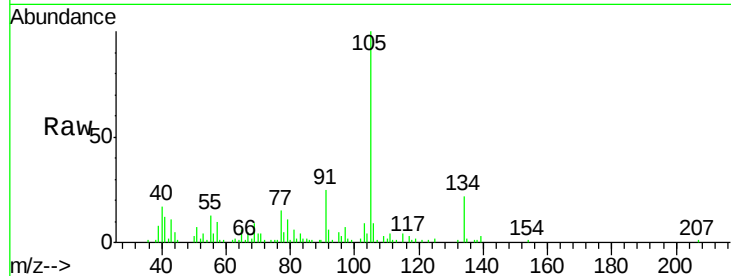
105 100

134 0.0 10.4 31.1#

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3/6/2019 9:16:32 AM



#86

p-Isopropyltoluene

Concen: 4.046 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054104.D

Acq: 5 Mar 2019 17:28

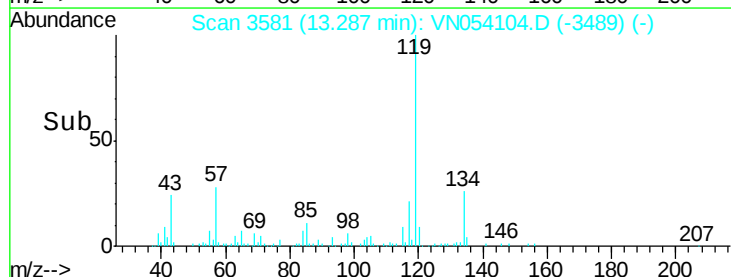
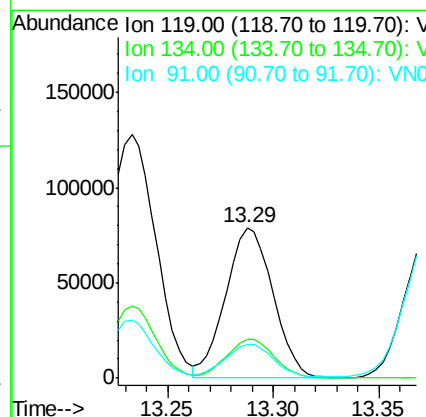
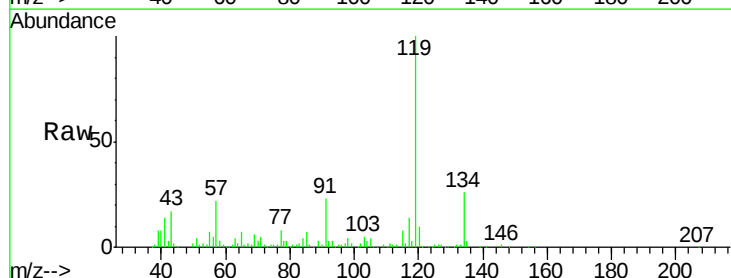
Tgt Ion:119 Resp: 121903

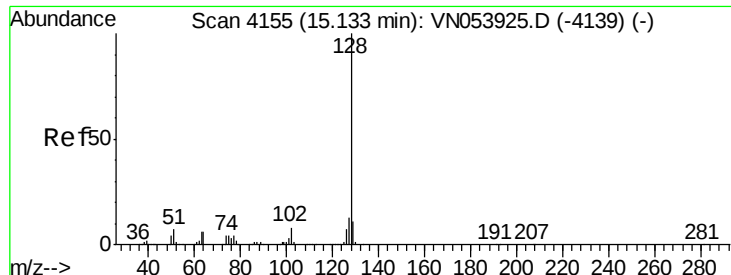
Ion Ratio Lower Upper

119 100

134 25.8 13.5 40.4

91 21.6 10.9 32.6





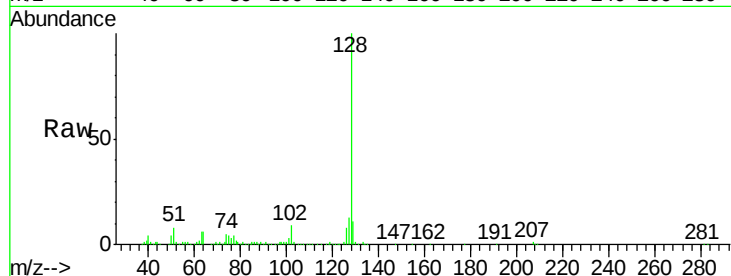
#95
Naphthalene
Concen: 15.647 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054104.D
Acq: 5 Mar 2019 17:28

Instrument :
MSVOA_N
ClientSampleId :
DUP-1

Tot Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	13.5	10.2	15.2
129	10.4	8.6	12.8

Manual Integrations
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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

