

Data File : VN053133.D
Acq On : 22 Dec 2018 15:24
Operator : MD\SY
Sample : J6392-12MEDL 200X
Misc : 5.35g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 11 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
KY001SB104-121218-(22-24)MEDL

Manual Integrations
APPROVED

MMDadoda
12/24/2018 12:21:53 PM

Quant Time: Jan 01 05:47:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1308662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2024231	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1730517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	690386	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	643863	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
35) Dibromofluoromethane	7.59	113	539636	58.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.72%	
50) Toluene-d8	10.09	98	2436449	49.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.16%	
62) 4-Bromofluorobenzene	12.40	95	765905	43.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.90%	

Target Compounds				Qvalue		
31) Cyclohexane	7.66	56	46791	1.006	ug/l #	25
39) Methylcyclohexane	9.08	83	54803	2.322	ug/l	96
52) Toluene	10.16	92	752934	21.019	ug/l	100
67) Ethyl Benzene	11.51	91	931867	14.126	ug/l	99
68) m/p-Xylenes	11.62	106	1273428	50.777	ug/l	99
69) o-Xylene	11.95	106	475505	19.759	ug/l	99
73) Isopropylbenzene	12.25	105	179216	3.318	ug/l	100
78) n-propylbenzene	12.59	91	289687	4.709	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	332549	7.553	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1123258	25.378	ug/l	100
85) sec-Butylbenzene	13.17	105	26905m	0.511	ug/l	
86) p-Isopropyltoluene	13.29	119	292936	6.437	ug/l	99
89) n-Butylbenzene	13.61	91	38405	0.981	ug/l #	69
95) Naphthalene	15.13	128	73367	3.787	ug/l	97

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

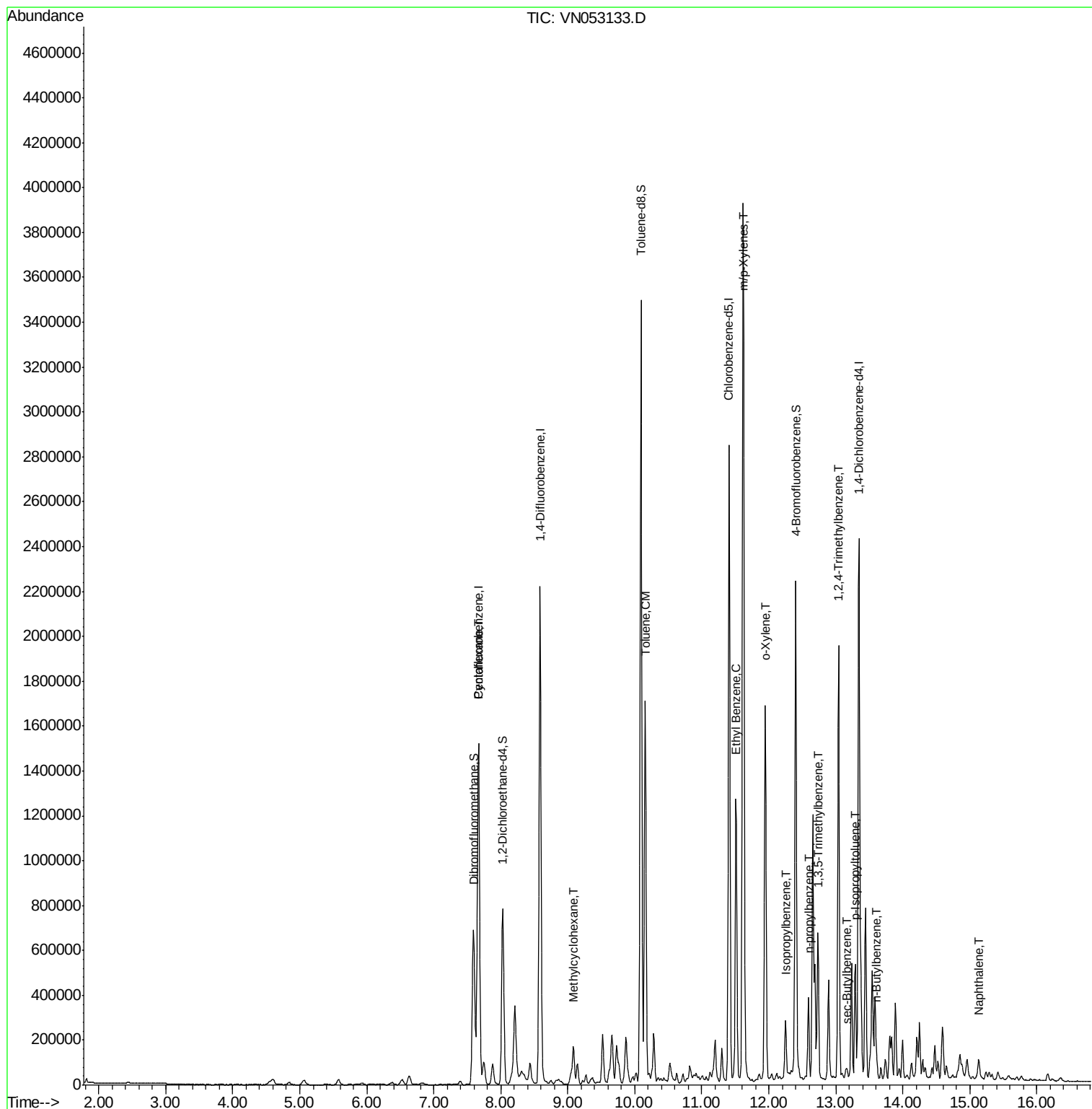
Data File : VN053133.D
Acq On : 22 Dec 2018 15:24
Operator : MD\SY
Sample : J6392-12MEDL 200X
Misc : 5.35g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 11 Sample Multiplier: 28

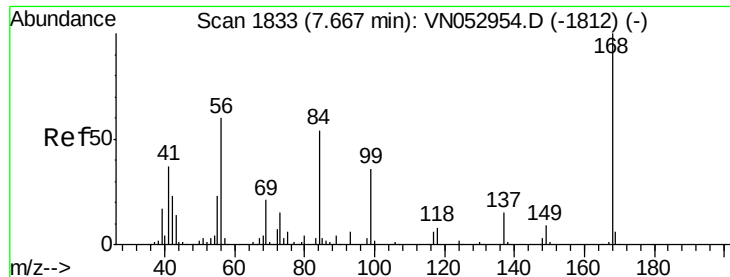
Instrument :
MSVOA_N
ClientSampleId :
KY001SB104-121218-(22-24)MEDL

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12/24/2018 12:21:53 PM

Quant Time: Jan 01 05:47:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
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: VN053133.D

Acq: 22 Dec 2018 15:24

Instrument :

MSVOA_N

ClientSampleId :

KY001SB104-121218-(22-24)MEDL

Tgt Ion:168 Resp: 1308662

Ion Ratio Lower Upper

168 100

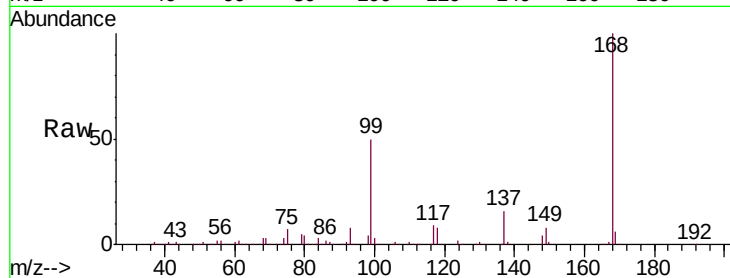
99 50.3 40.2 60.2

Manual Integrations

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12/24/2018 12:21:53 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

600000

500000

400000

300000

200000

100000

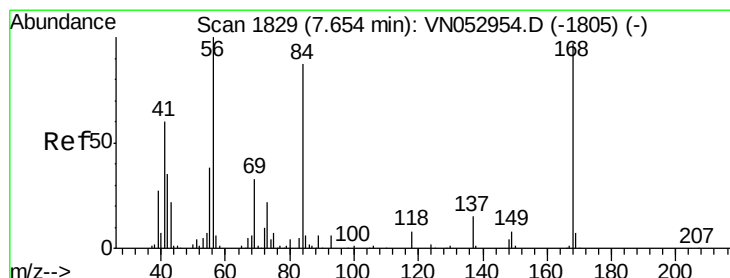
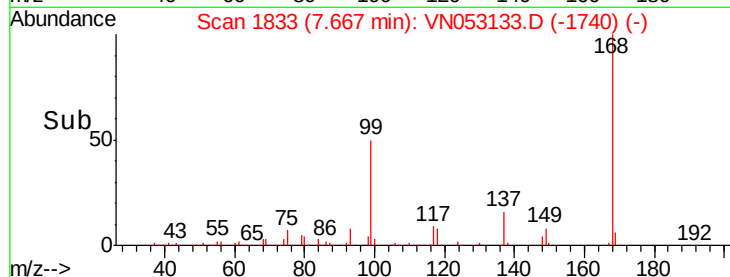
0

7.60

7.67

7.70

Time-->



#31

Cyclohexane

Concen: 1.006 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

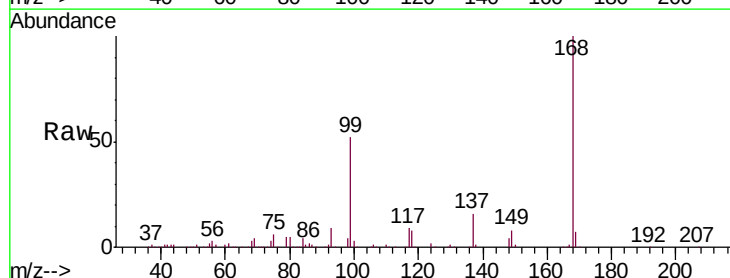
Tgt Ion: 56 Resp: 46791

Ion Ratio Lower Upper

56 100

69 125.3 26.6 39.8#

84 122.5 68.4 102.6#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 84.00 (83.70 to 84.70): VN

25000

20000

15000

10000

5000

0

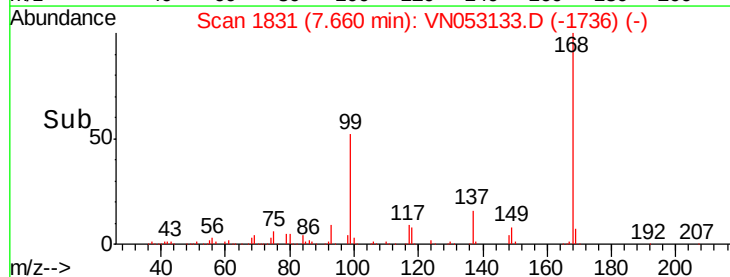
7.55

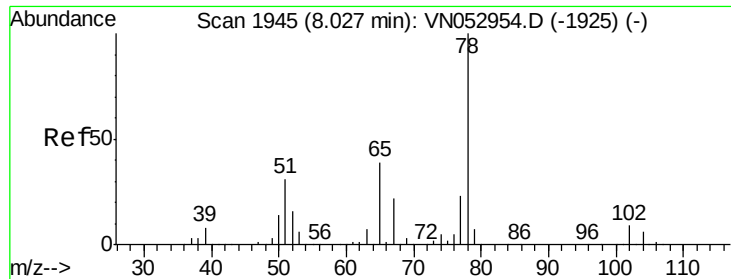
7.60

7.65

7.70

Time-->





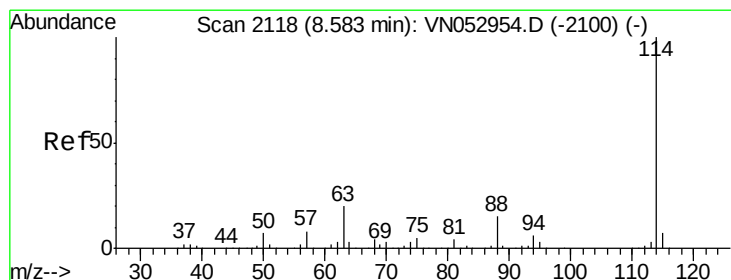
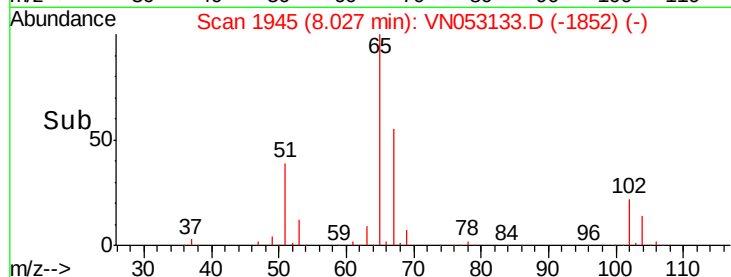
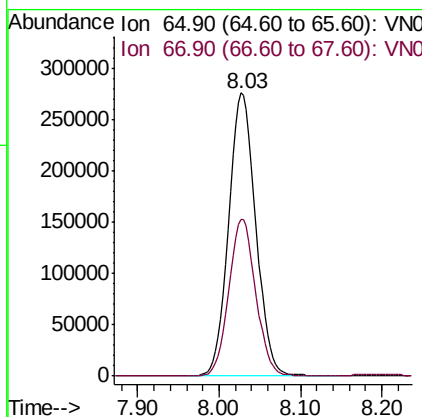
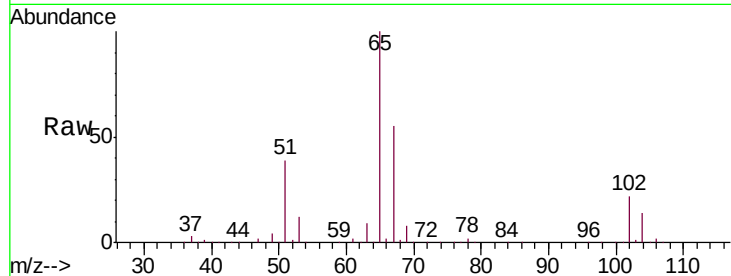
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053133.D
 Acq: 22 Dec 2018 15:24

Instrument :
 MSVOA_N
 ClientSampleId :
 KY001SB104-121218-(22-24)MEDL

Tgt Ion: 65 Resp: 643863
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4

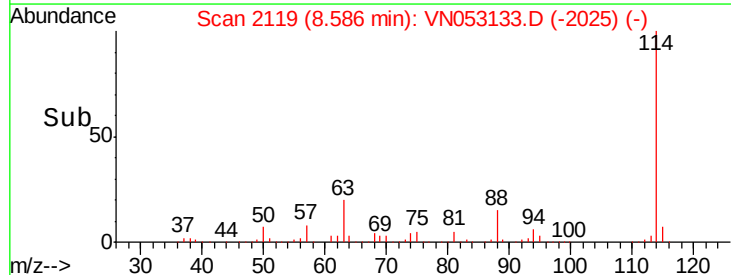
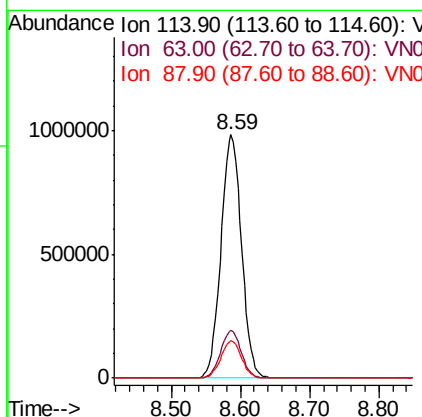
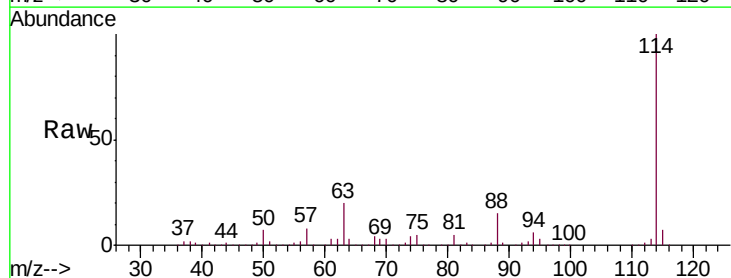
Manual Integrations
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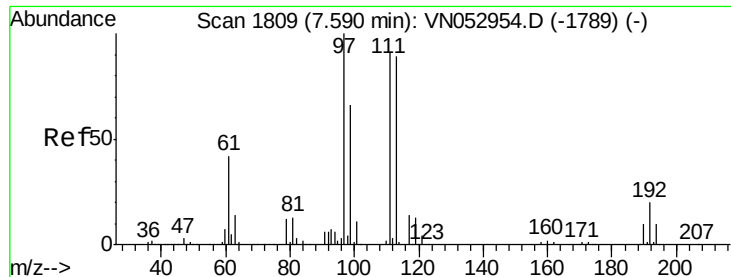
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053133.D
 Acq: 22 Dec 2018 15:24

Tgt Ion: 114 Resp: 2024231
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.8
 88 15.5 0.0 31.0





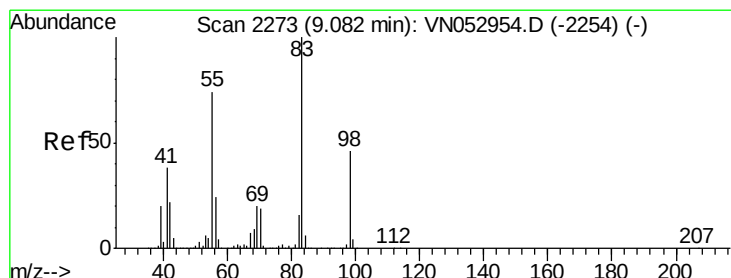
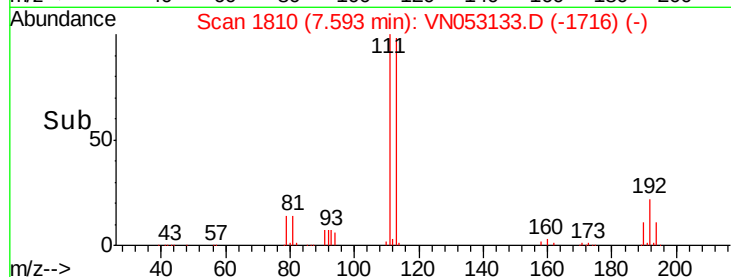
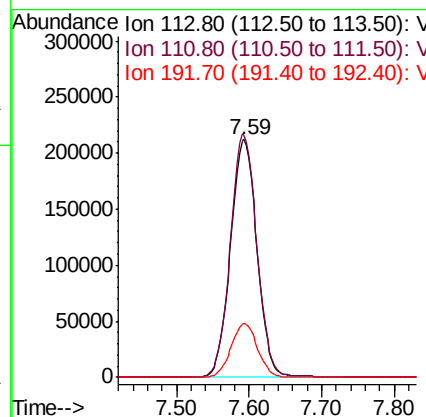
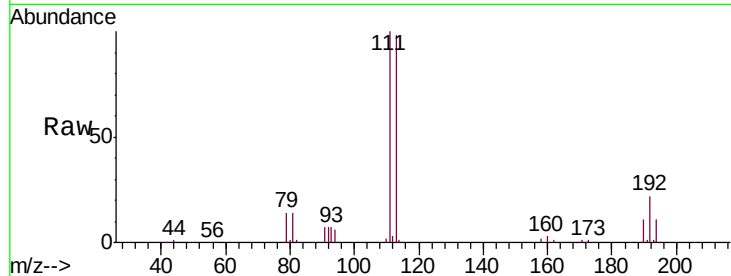
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053133.D
Acq: 22 Dec 2018 15:24

Instrument :
MSVOA_N
ClientSampleId :
KY001SB104-121218-(22-24)MEDL

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	539636		
111	101.8	83.0	124.4	
192	22.6	17.5	26.3	

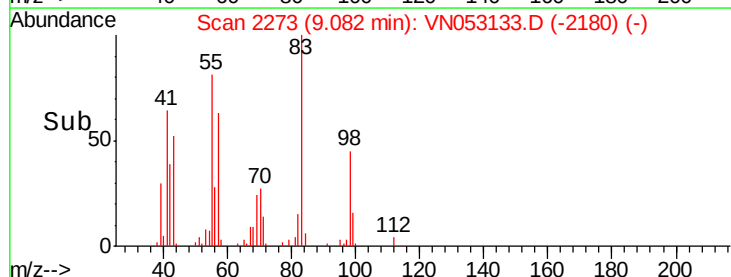
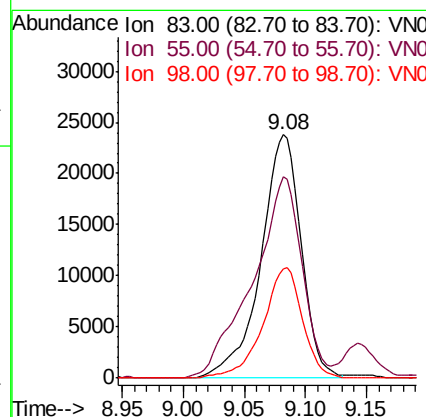
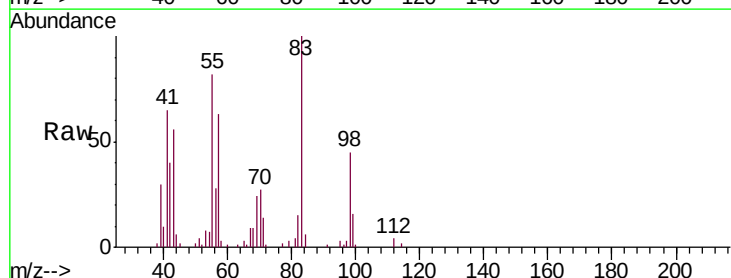
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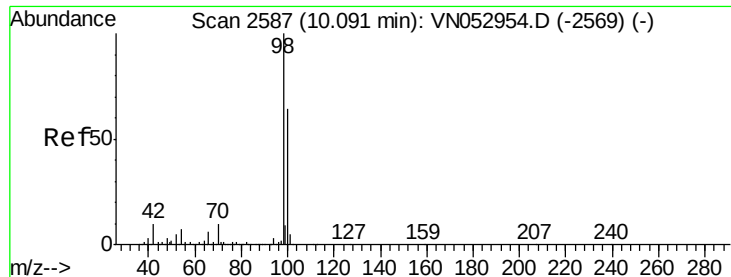
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#39
Methylcyclohexane
Concen: 2.322 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053133.D
Acq: 22 Dec 2018 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	54803		
55	81.1	61.3	91.9	
98	44.9	37.0	55.4	





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

Instrument :

MSVOA_N

ClientSampleId :

KY001SB104-121218-(22-24)MEDL

Tgt Ion: 98 Resp: 2436449

Ion Ratio Lower Upper

98 100

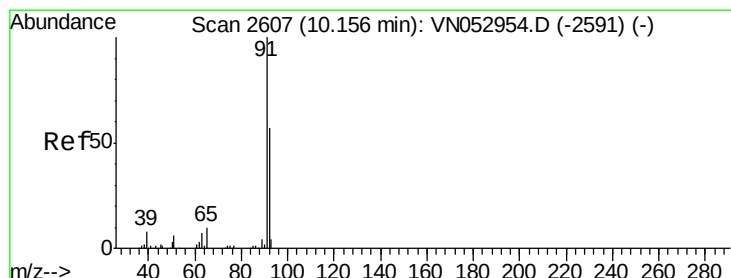
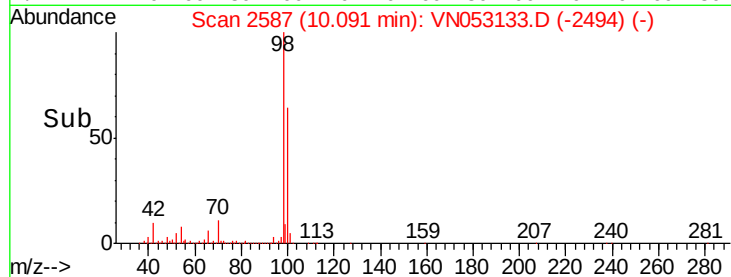
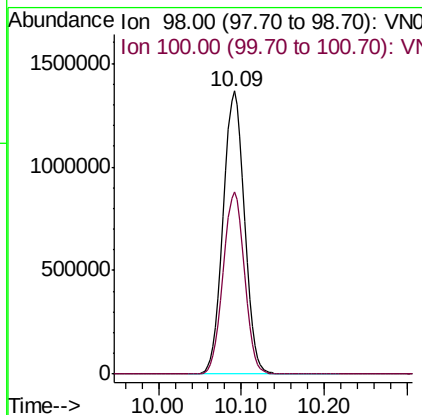
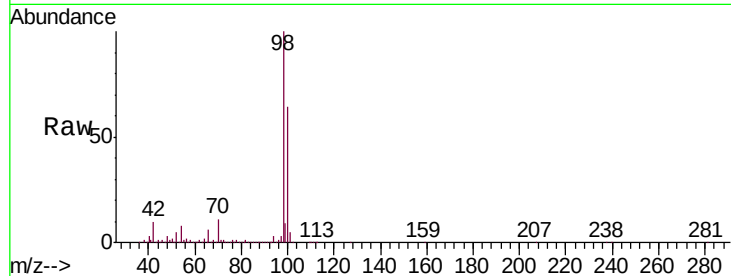
100 64.4 51.6 77.4

Manual Integrations

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#52

Toluene

Concen: 21.019 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053133.D

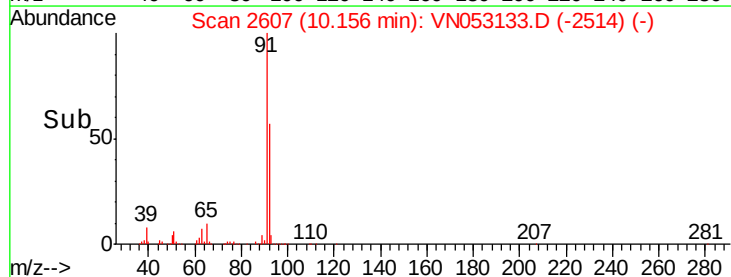
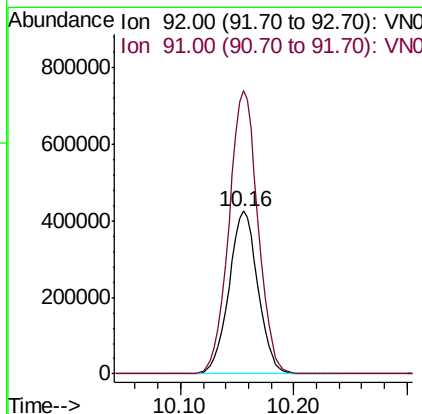
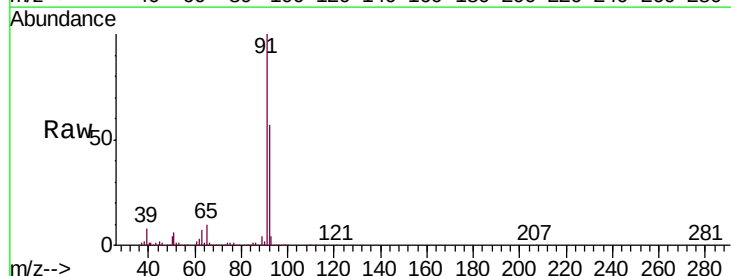
Acq: 22 Dec 2018 15:24

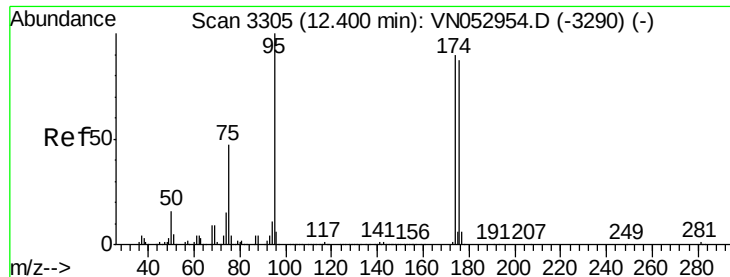
Tgt Ion: 92 Resp: 752934

Ion Ratio Lower Upper

92 100

91 174.7 139.8 209.6





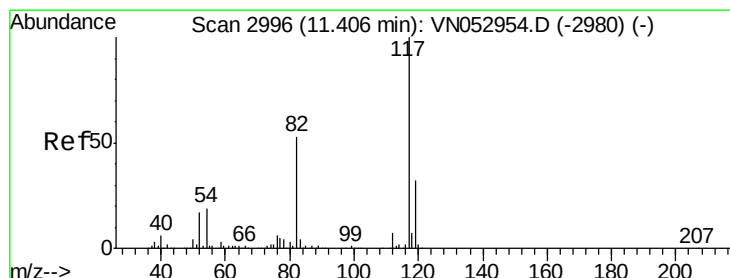
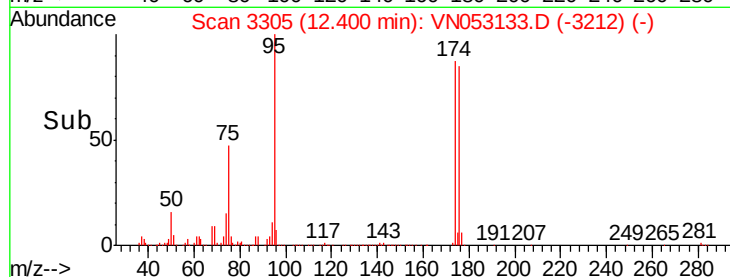
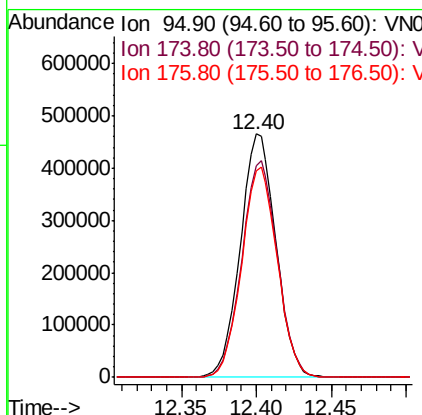
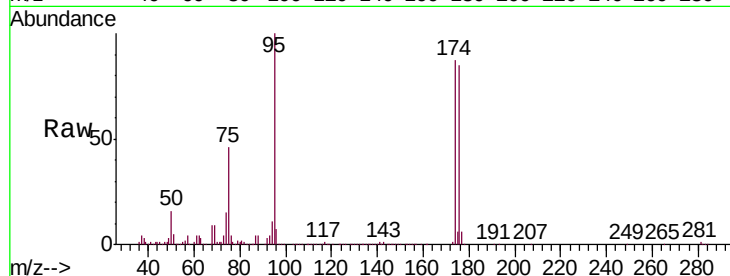
#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053133.D
Acq: 22 Dec 2018 15:24

Instrument :
MSVOA_N
ClientSampleId :
KY001SB104-121218-(22-24)MEDL

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	765905		
174	89.5	0.0	178.8	
176	86.8	0.0	173.8	

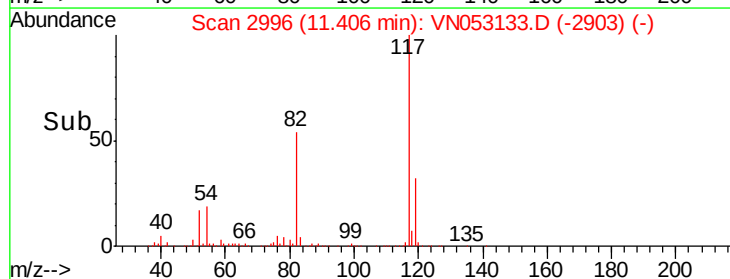
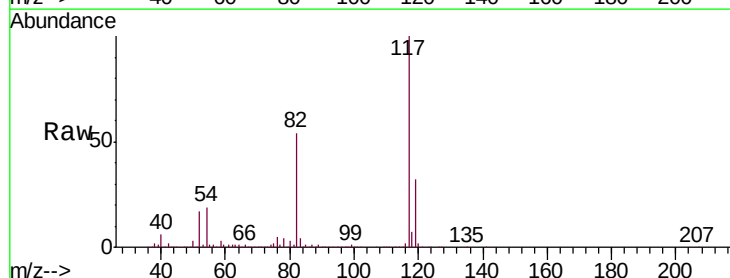
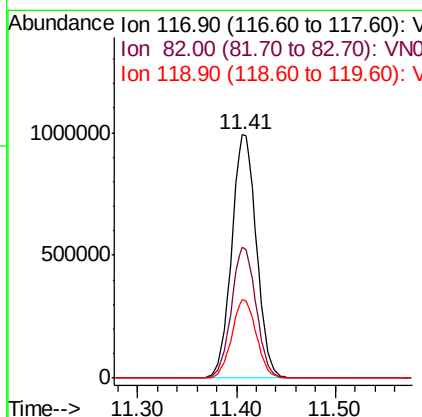
Manual Integrations
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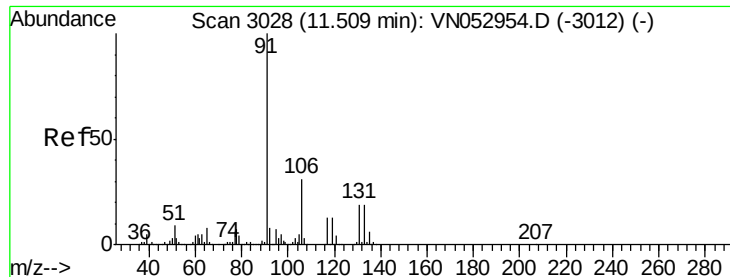
MMDadoda
12/24/2018 12:21:53 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053133.D
Acq: 22 Dec 2018 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1730517		
82	53.8	42.8	64.2	
119	32.2	25.5	38.3	





#67

Ethyl Benzene

Concen: 14.126 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

Instrument :

MSVOA_N

ClientSampleId :

KY001SB104-121218-(22-24)MEDL

Tgt Ion: 91 Resp: 931867

Ion Ratio Lower Upper

91 100

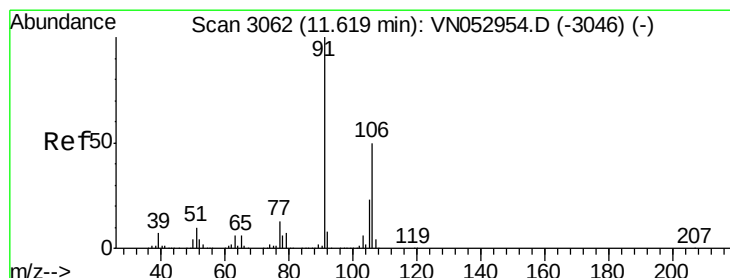
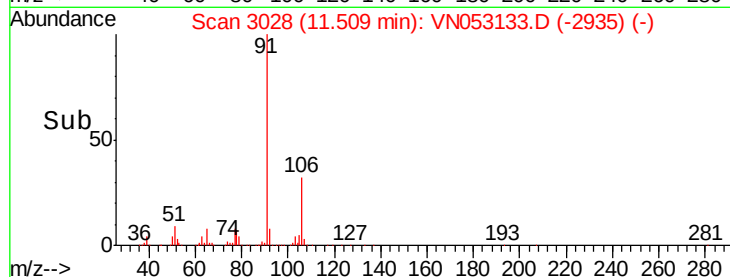
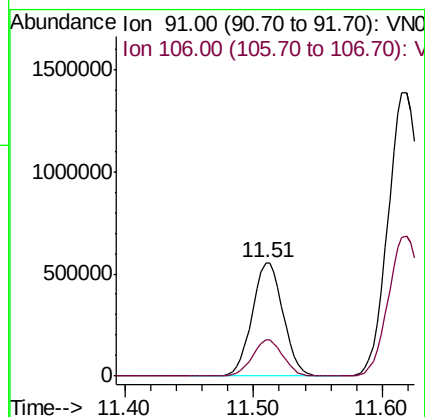
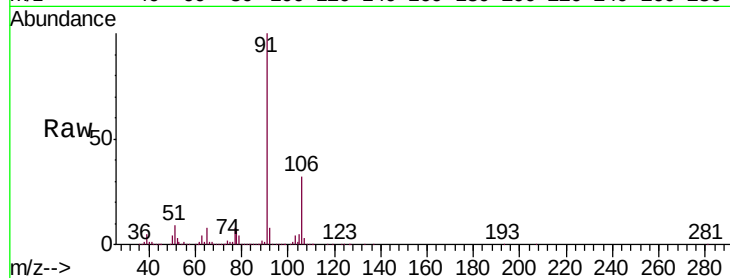
106 31.6 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 50.777 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN053133.D

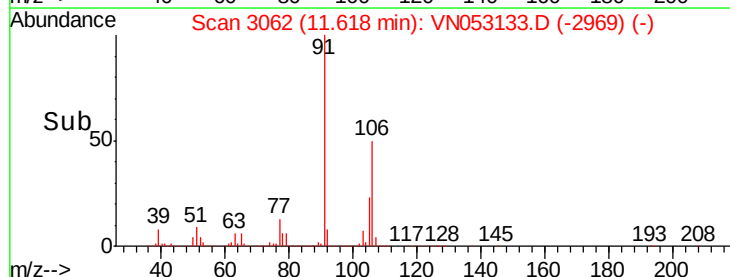
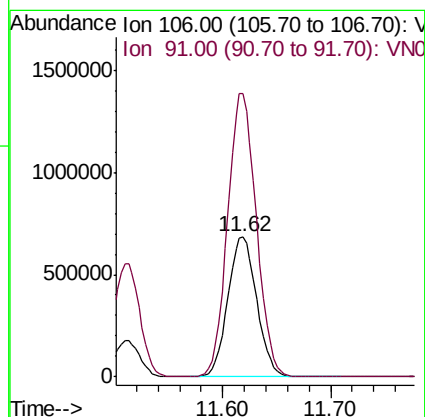
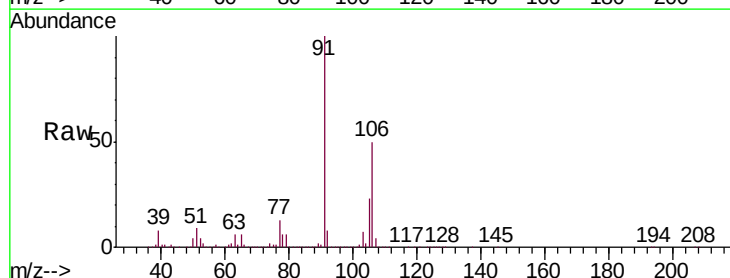
Acq: 22 Dec 2018 15:24

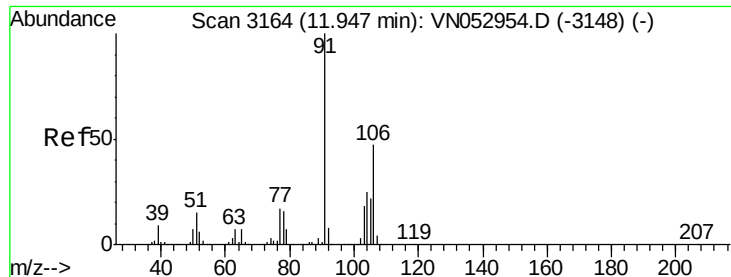
Tgt Ion: 106 Resp: 1273428

Ion Ratio Lower Upper

106 100

91 201.4 162.2 243.4





#69

o-Xylene

Concen: 19.759 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

Instrument :

MSVOA_N

ClientSampleId :

KY001SB104-121218-(22-24)MEDL

Tgt Ion:106 Resp: 475505

Ion Ratio Lower Upper

106 100

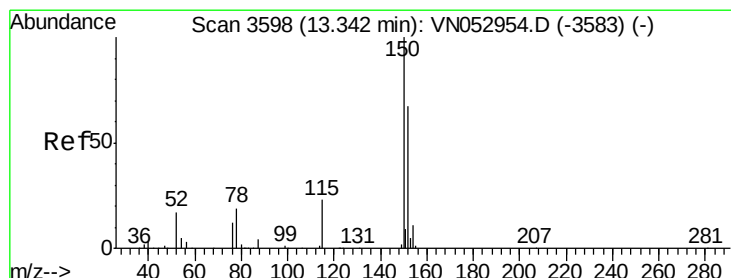
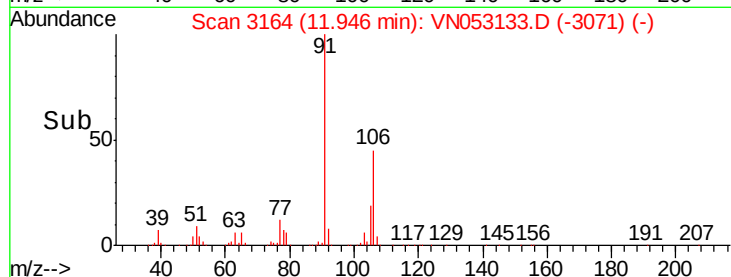
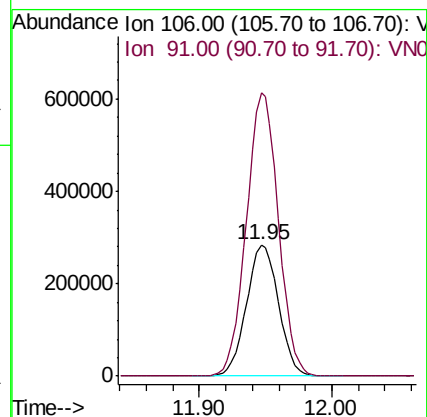
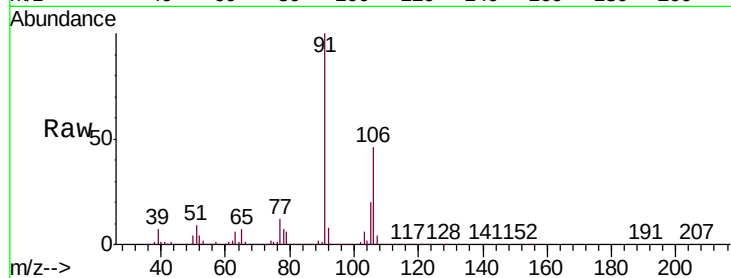
91 215.4 106.6 319.8

Manual Integrations

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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: VN053133.D

Acq: 22 Dec 2018 15:24

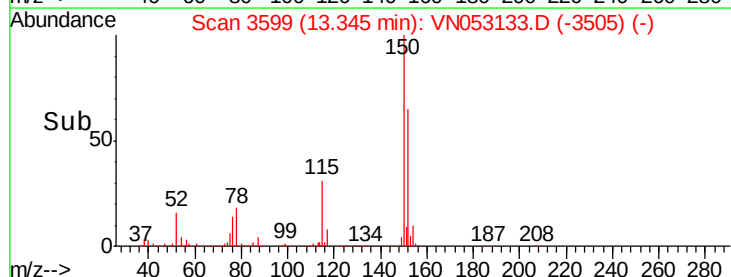
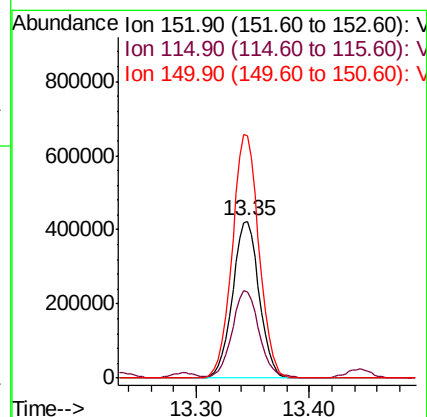
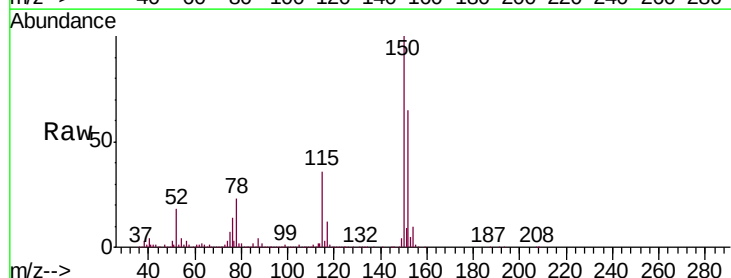
Tgt Ion:152 Resp: 690386

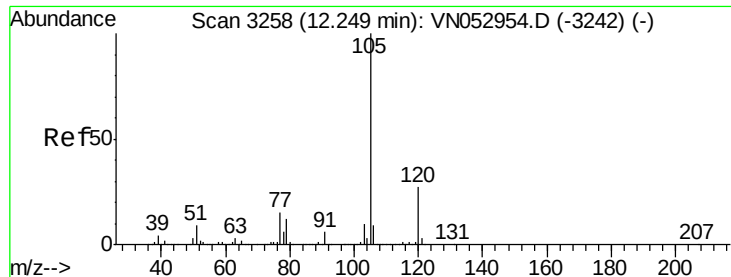
Ion Ratio Lower Upper

152 100

115 57.1 28.3 85.0

150 155.5 0.0 347.8





#73

Isopropylbenzene

Concen: 3.318 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

Instrument :

MSVOA_N

ClientSampleId :

KY001SB104-121218-(22-24)MEDL

Tgt Ion: 105 Resp: 179216

Ion Ratio Lower Upper

105 100

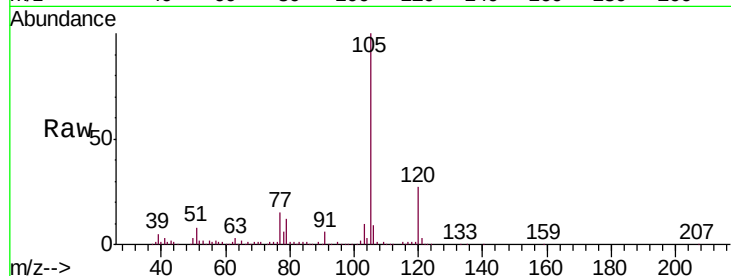
120 26.6 13.3 39.9

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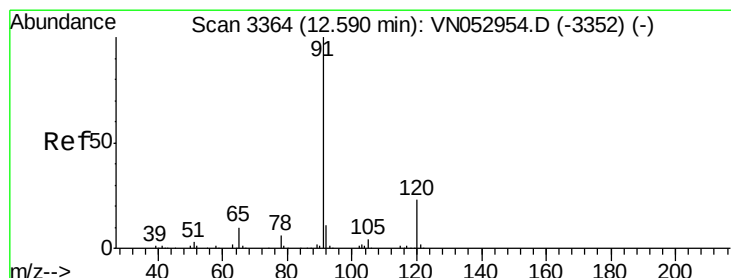
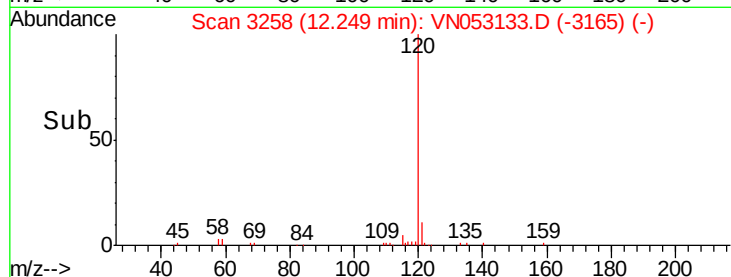
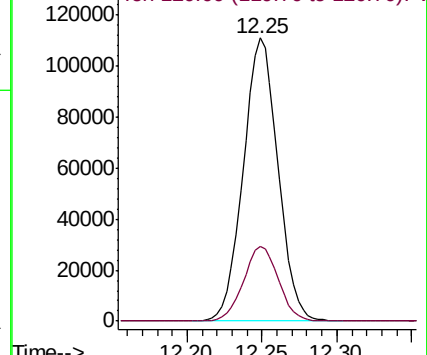
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 4.709 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053133.D

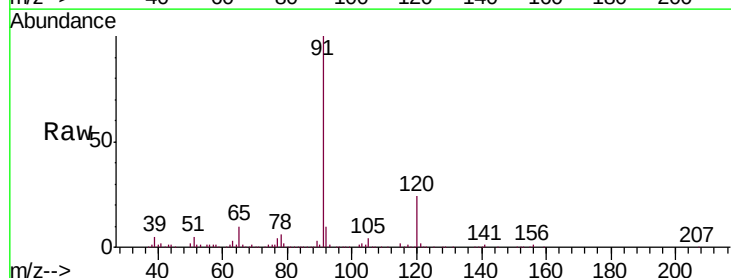
Acq: 22 Dec 2018 15:24

Tgt Ion: 91 Resp: 289687

Ion Ratio Lower Upper

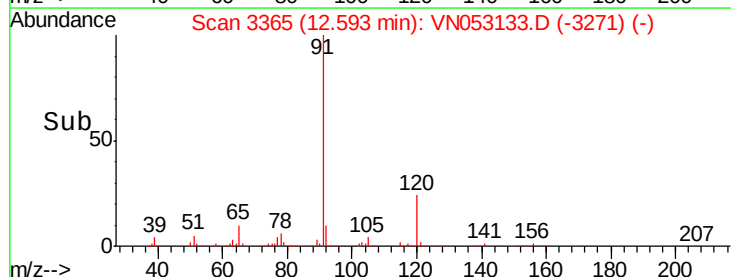
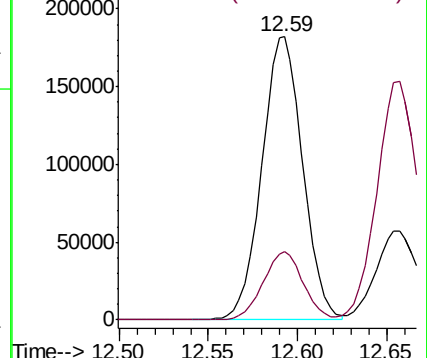
91 100

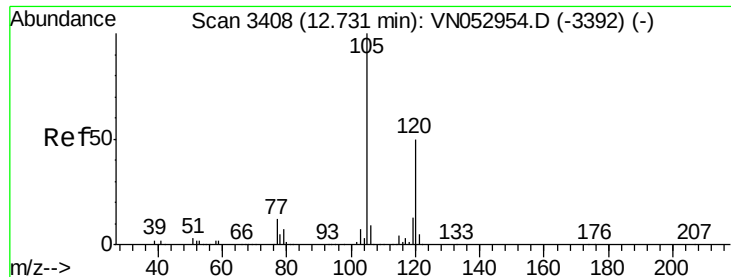
120 23.8 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





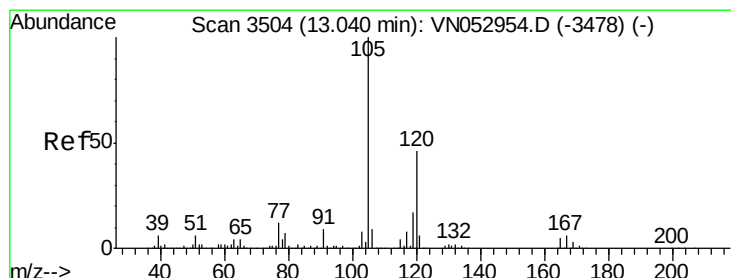
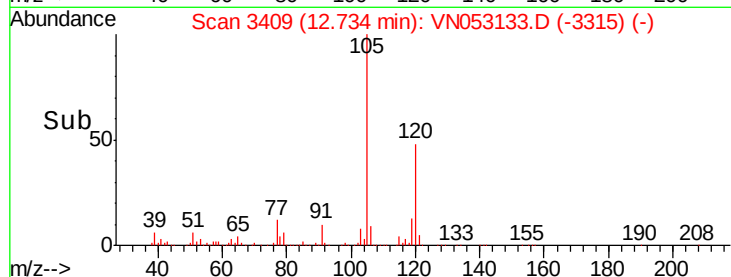
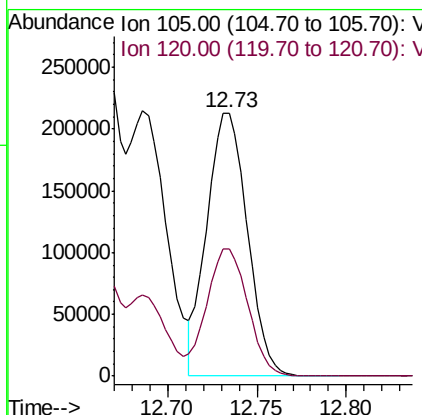
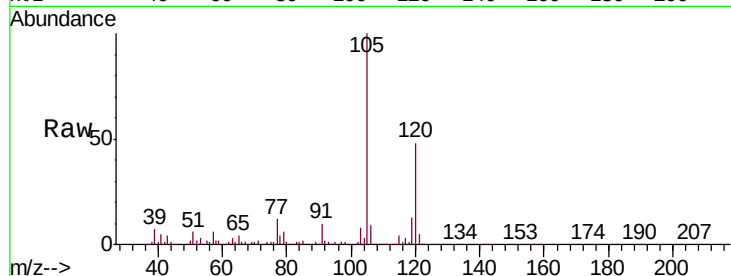
#80
 1,3,5-Trimethylbenzene
 Concen: 7.553 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053133.D
 Acq: 22 Dec 2018 15:24

Instrument :
 MSVOA_N
 ClientSampleId :
 KY001SB104-121218-(22-24)MEDL

Tgt Ion:105 Resp: 332549
 Ion Ratio Lower Upper
 105 100
 120 49.7 24.4 73.2

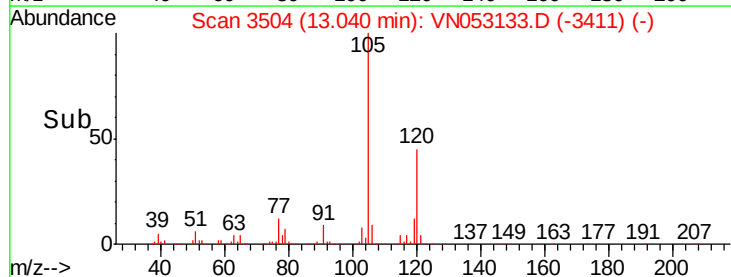
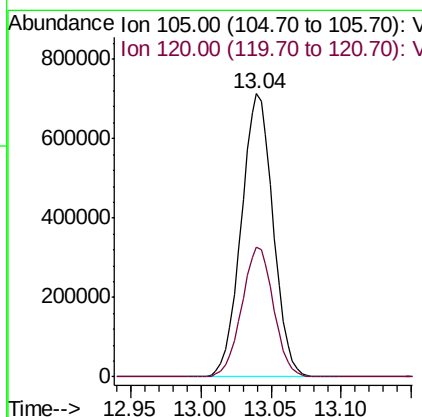
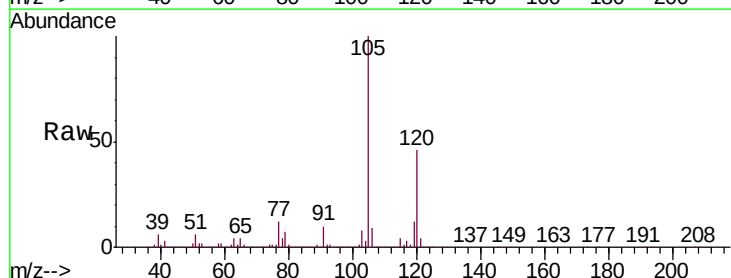
Manual Integrations
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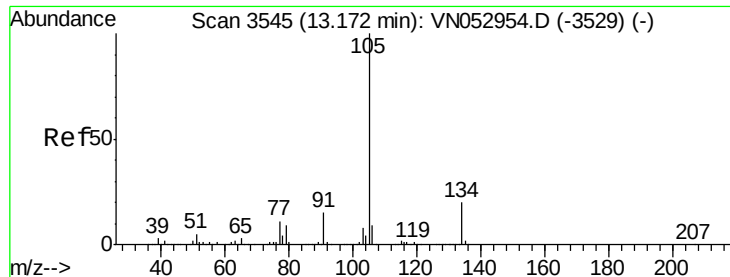
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#84
 1,2,4-Trimethylbenzene
 Concen: 25.378 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053133.D
 Acq: 22 Dec 2018 15:24

Tgt Ion:105 Resp: 1123258
 Ion Ratio Lower Upper
 105 100
 120 46.0 22.9 68.8





#85

sec-Butylbenzene

Concen: 0.511 ug/l m

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

Instrument :

MSVOA_N

ClientSampleId :

KY001SB104-121218-(22-24)MEDL

Tgt Ion:105 Resp: 26905

Ion Ratio Lower Upper

105 100

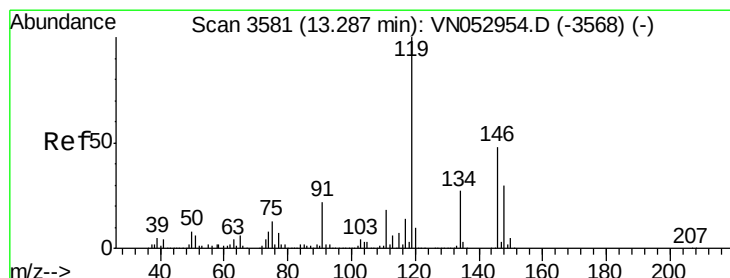
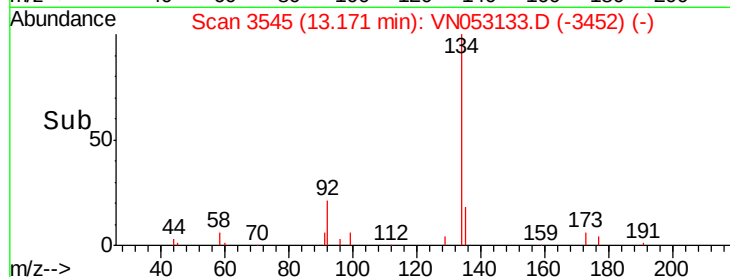
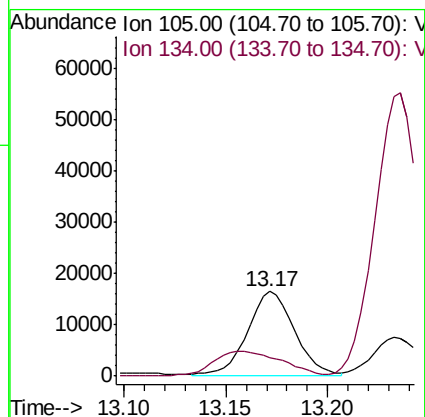
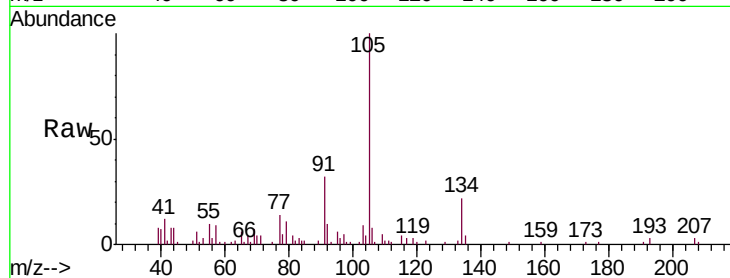
134 0.0 10.1 30.3#

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#86

p-Isopropyltoluene

Concen: 6.437 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053133.D

Acq: 22 Dec 2018 15:24

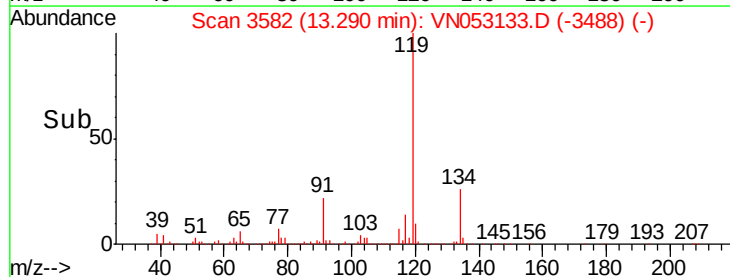
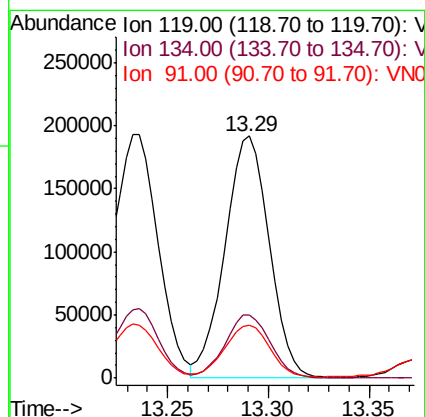
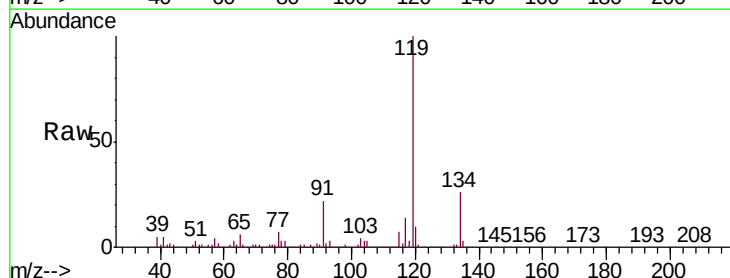
Tgt Ion:119 Resp: 292936

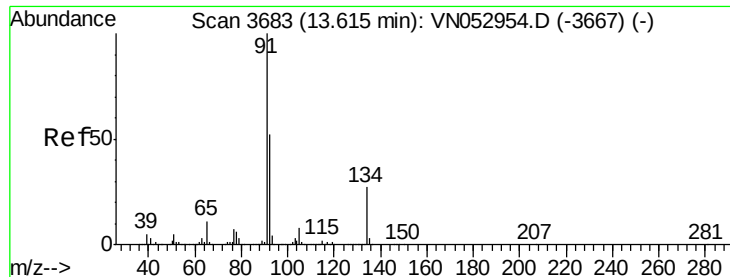
Ion Ratio Lower Upper

119 100

134 26.5 13.4 40.2

91 21.9 11.1 33.3





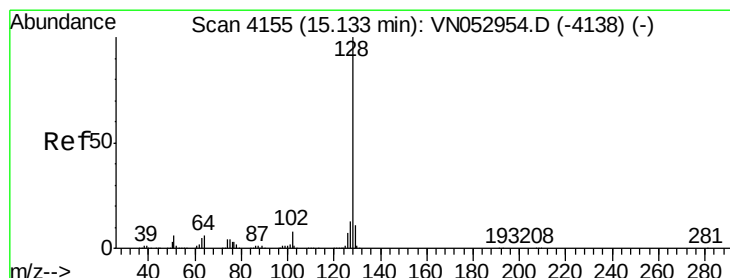
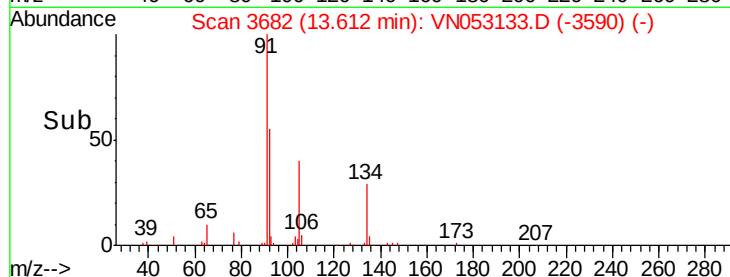
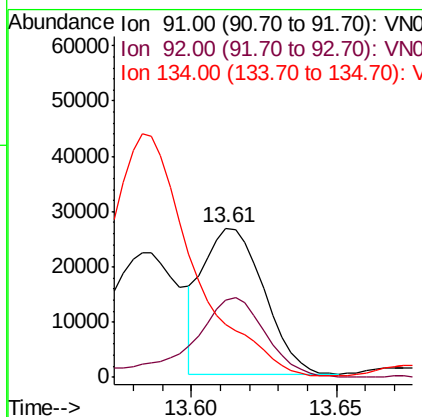
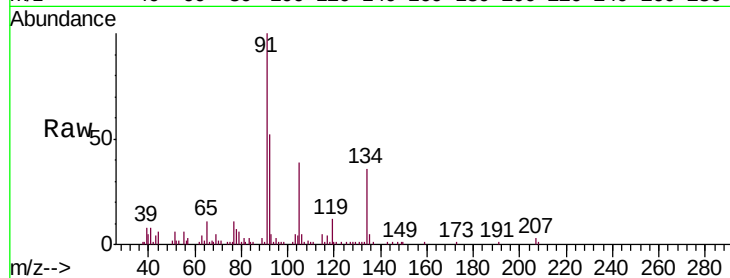
#89
n-Butylbenzene
Concen: 0.981 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053133.D
Acq: 22 Dec 2018 15:24

Instrument :
MSVOA_N
ClientSampleId :
KY001SB104-121218-(22-24)MEDL

Tgt Ion	Ratio	Lower	Upper
91	100		
92	67.5	26.3	78.9
134	0.0	13.3	39.8

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#95
Naphthalene
Concen: 3.787 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN053133.D
Acq: 22 Dec 2018 15:24

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.2	15.4
129	9.8	8.6	13.0

