

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033488.D
 Acq On : 28 Mar 2019 4:12
 Operator : SY/AP
 Sample : K1991-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-3DL

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:06 AM

Quant Time: Mar 28 09:43:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 09:43:18 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	757743	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1879115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2048888	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1562659	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.67	45	9497m	1.002	ppbv	
15) Acetone	3.91	43	36513	0.401	ppbv	92
20) Methylene Chloride	4.40	84	12880m	0.333	ppbv	
53) Toluene	9.94	91	30366	0.166	ppbv	97

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

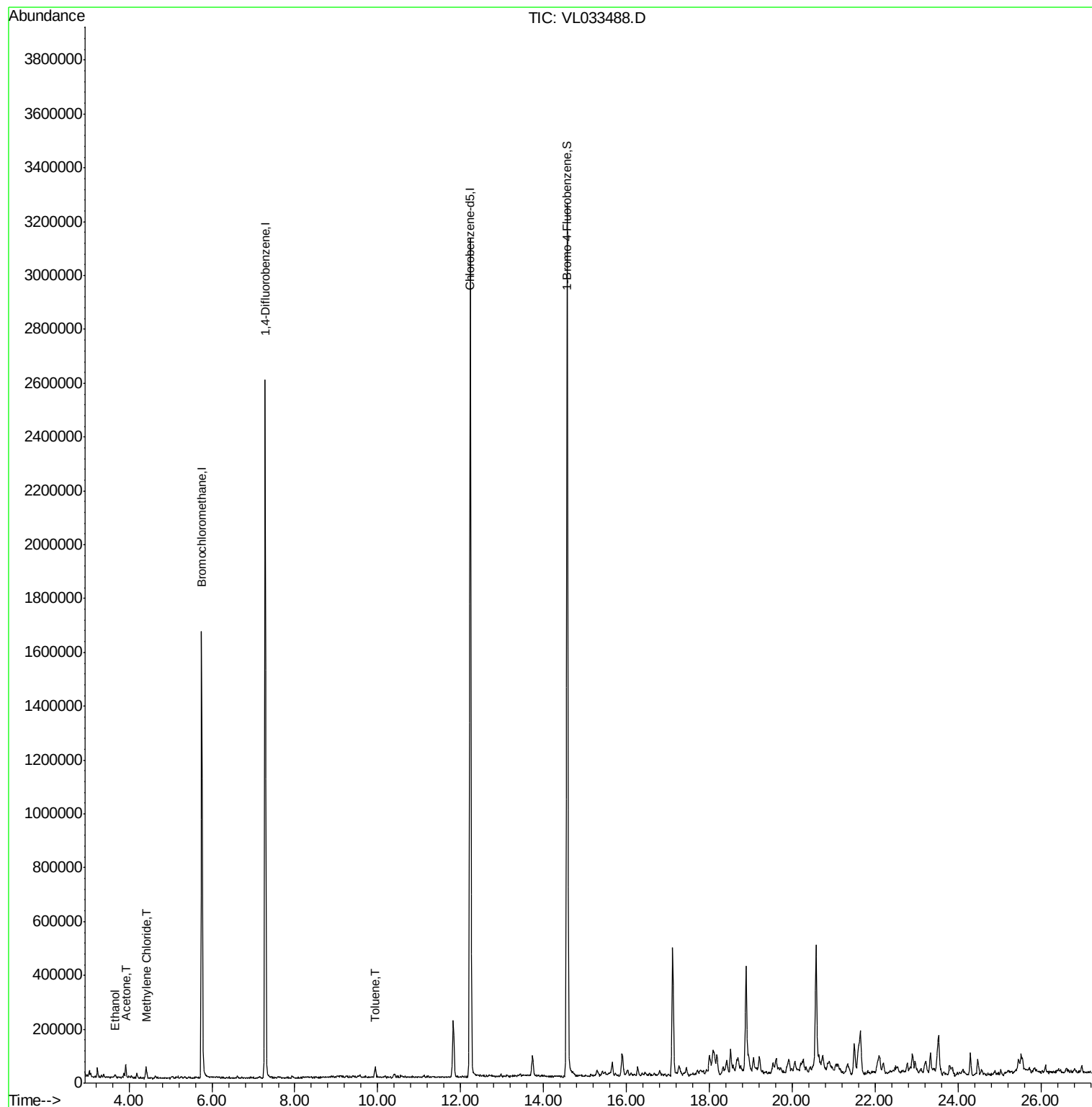
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
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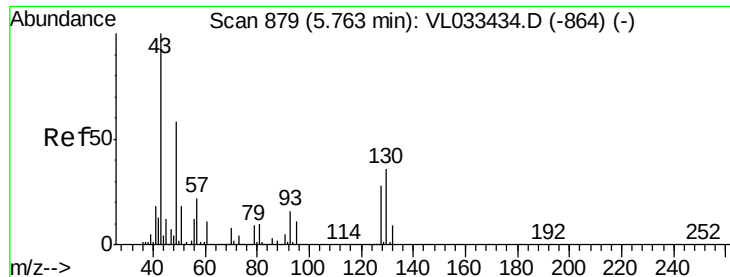
Instrument :
MSVOA_L
ClientSampleId :
VMP-3DL

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
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QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

ClientSampled :

VMP-3DL

Tot Ion: 49 Resp: 757743

Ion Ratio Lower Upper

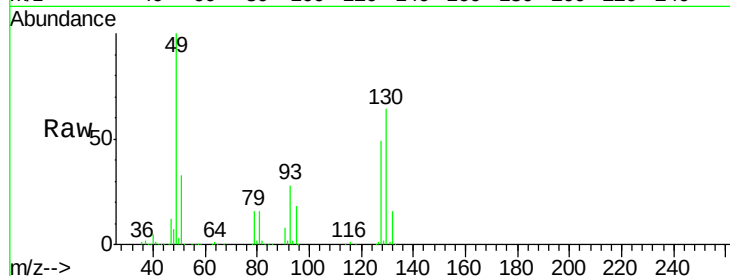
49 100

128 51.1 24.0 72.0

130 64.8 31.2 93.6

Manual Integrations
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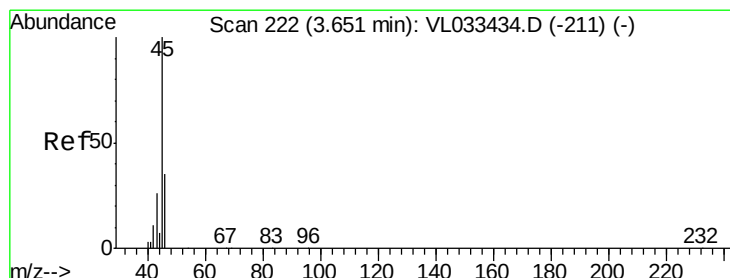
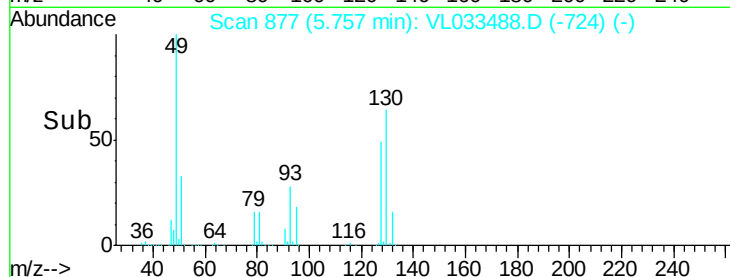
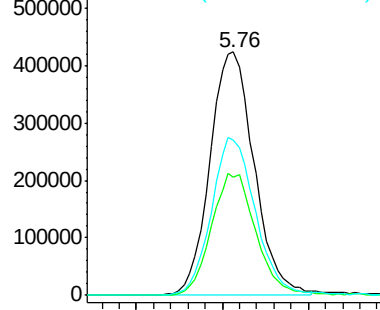
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#13

Ethanol

Concen: 1.002 ppbv m

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL033488.D

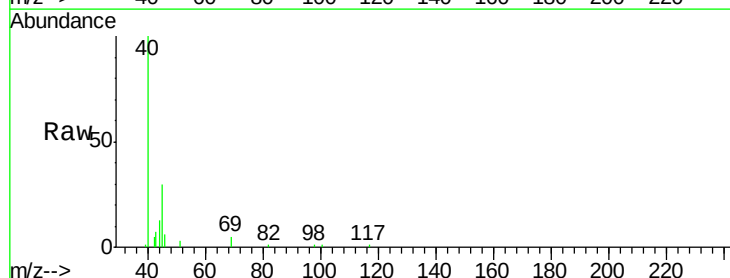
Acq: 28 Mar 2019 4:12

Tgt Ion: 45 Resp: 9497

Ion Ratio Lower Upper

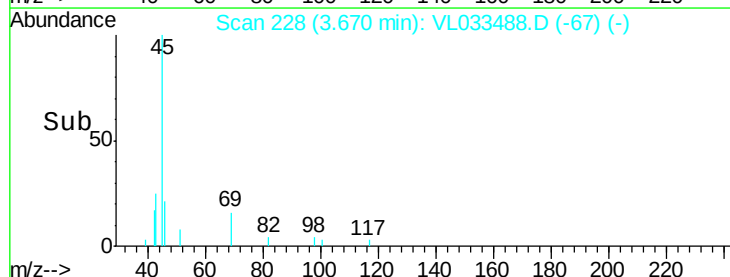
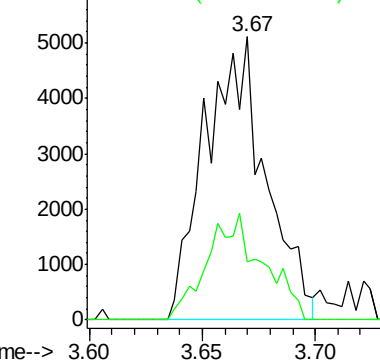
45 100

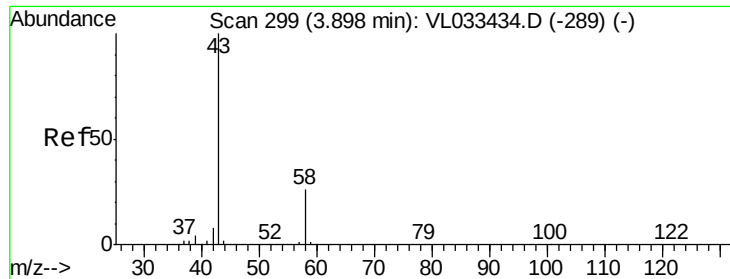
46 34.7 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.401 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

ClientSampled :

VMP-3DL

Tot Ion: 43 Resp: 36513

Ion Ratio Lower Upper

43 100

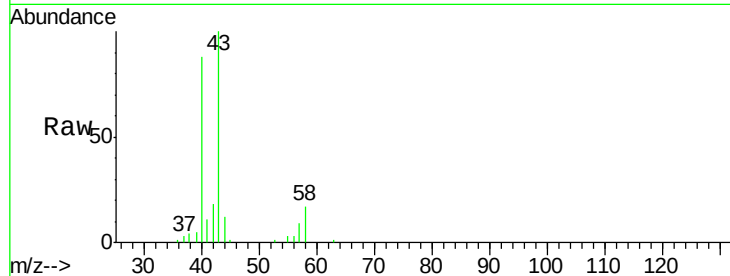
58 21.4 20.5 30.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

25000

20000

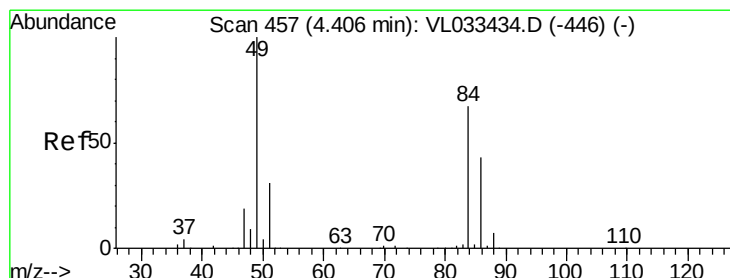
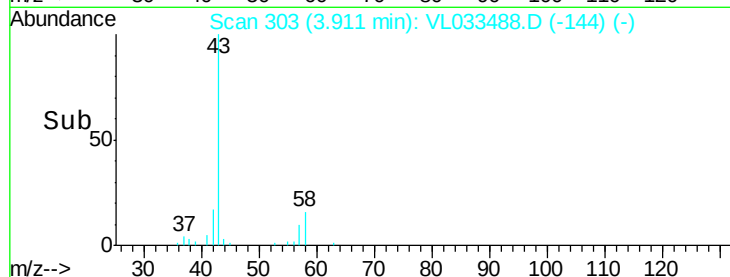
15000

10000

5000

0

Time--> 3.85 3.90 3.95



#20

Methylene Chloride

Concen: 0.333 ppbv m

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Tgt Ion: 84 Resp: 12880

Ion Ratio Lower Upper

84 100

49 141.5 120.0 180.0

51 34.5 36.7 55.1#

86 54.0 51.9 77.9

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

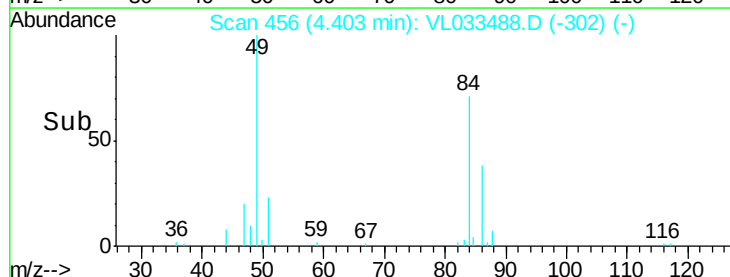
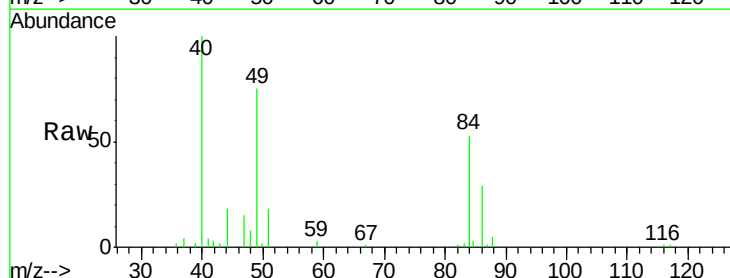
15000

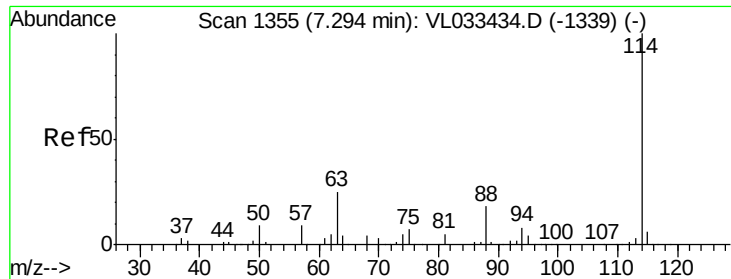
10000

5000

0

Time--> 4.35 4.40 4.45





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033488.D

Acq: 28 Mar 2019 4:12

Instrument :

MSVOA_L

ClientSampled :

VMP-3DL

Tot Ion: 114 Resp: 1879115

Ion Ratio Lower Upper

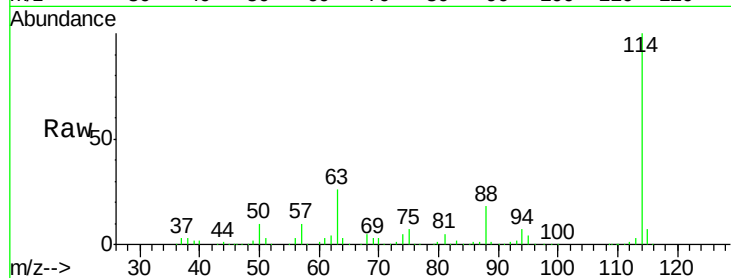
114 100

63 25.2 21.5 32.3

88 17.7 14.5 21.7

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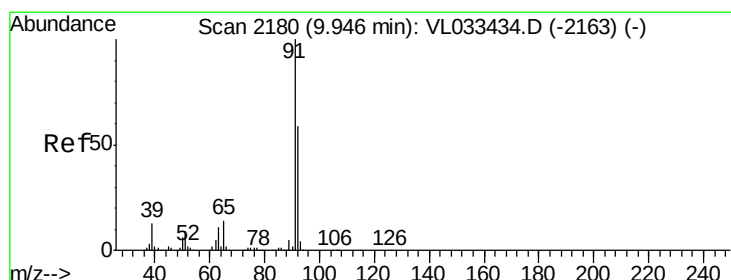
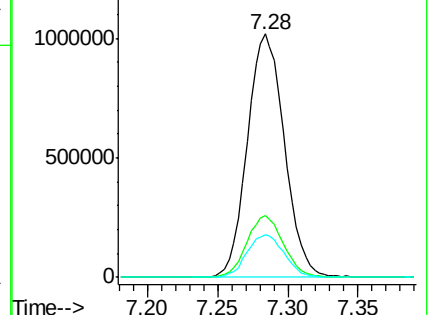
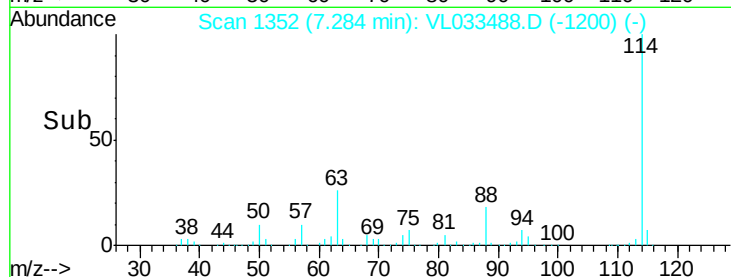
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#53

Toluene

Concen: 0.166 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033488.D

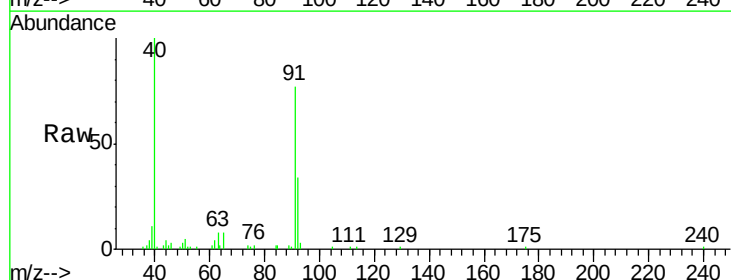
Acq: 28 Mar 2019 4:12

Tgt Ion: 91 Resp: 30366

Ion Ratio Lower Upper

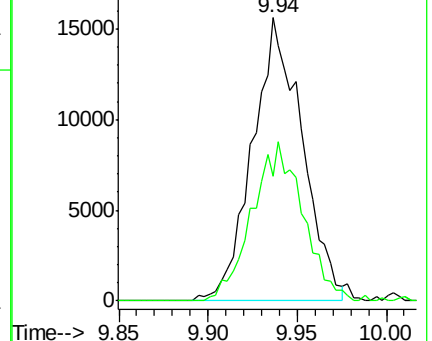
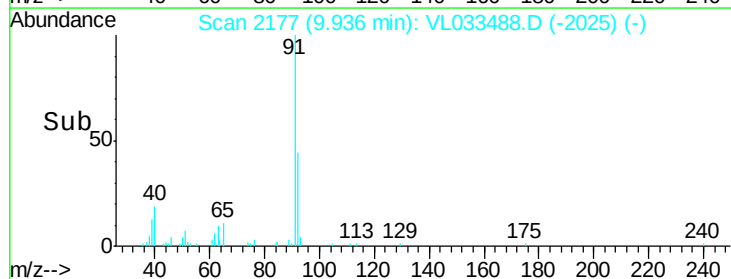
91 100

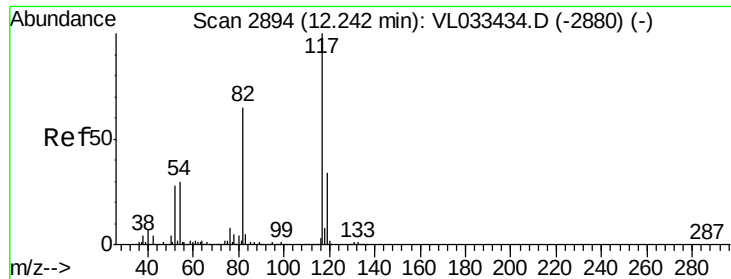
92 57.1 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





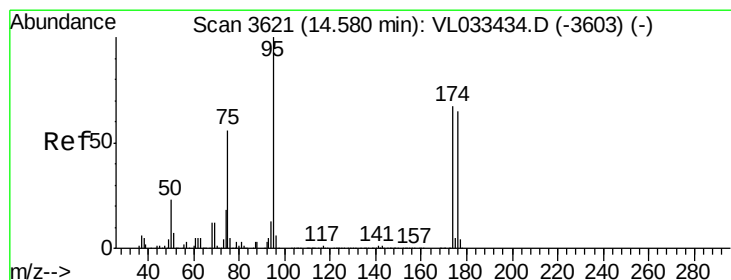
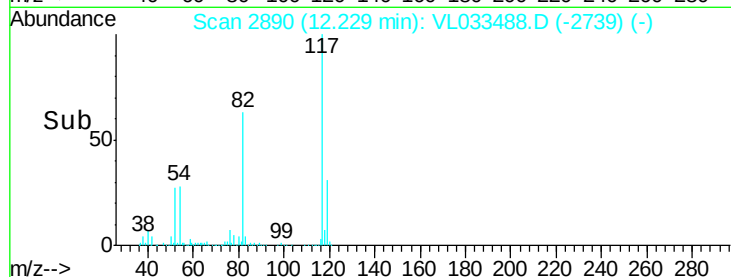
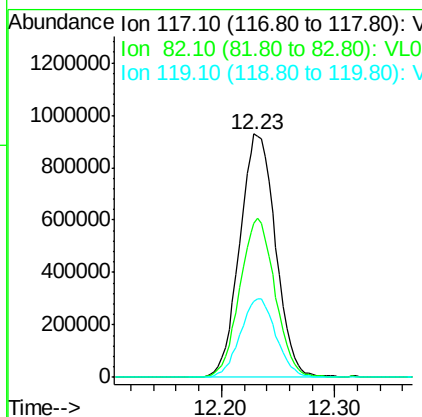
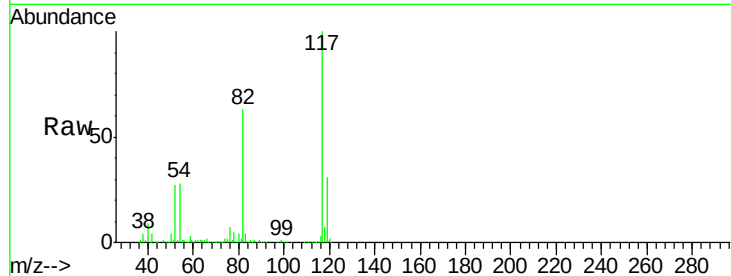
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033488.D
Acq: 28 Mar 2019 4:12

Instrument :
MSVOA_L
ClientSampleId :
VMP-3DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.3	51.5	77.3
119	32.1	25.5	38.3

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.729 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033488.D
Acq: 28 Mar 2019 4:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	67.6	52.9	79.3
175	4.8	3.8	5.6

