

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032164.D
 Acq On : 30 Jun 2018 10:32
 Operator : SY/AP
 Sample : J3601-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACEDL

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:55 PM

Quant Time: Jul 02 02:59:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1621773	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4089840	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	4030824	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3119155	10.12	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.74	45	20822m	0.74	ppbv	
15) Acetone	3.98	43	89353	0.47	ppbv	100
20) Methylene Chloride	4.48	84	17645	0.25	ppbv #	93
53) Toluene	10.04	91	63313	0.13	ppbv	98

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

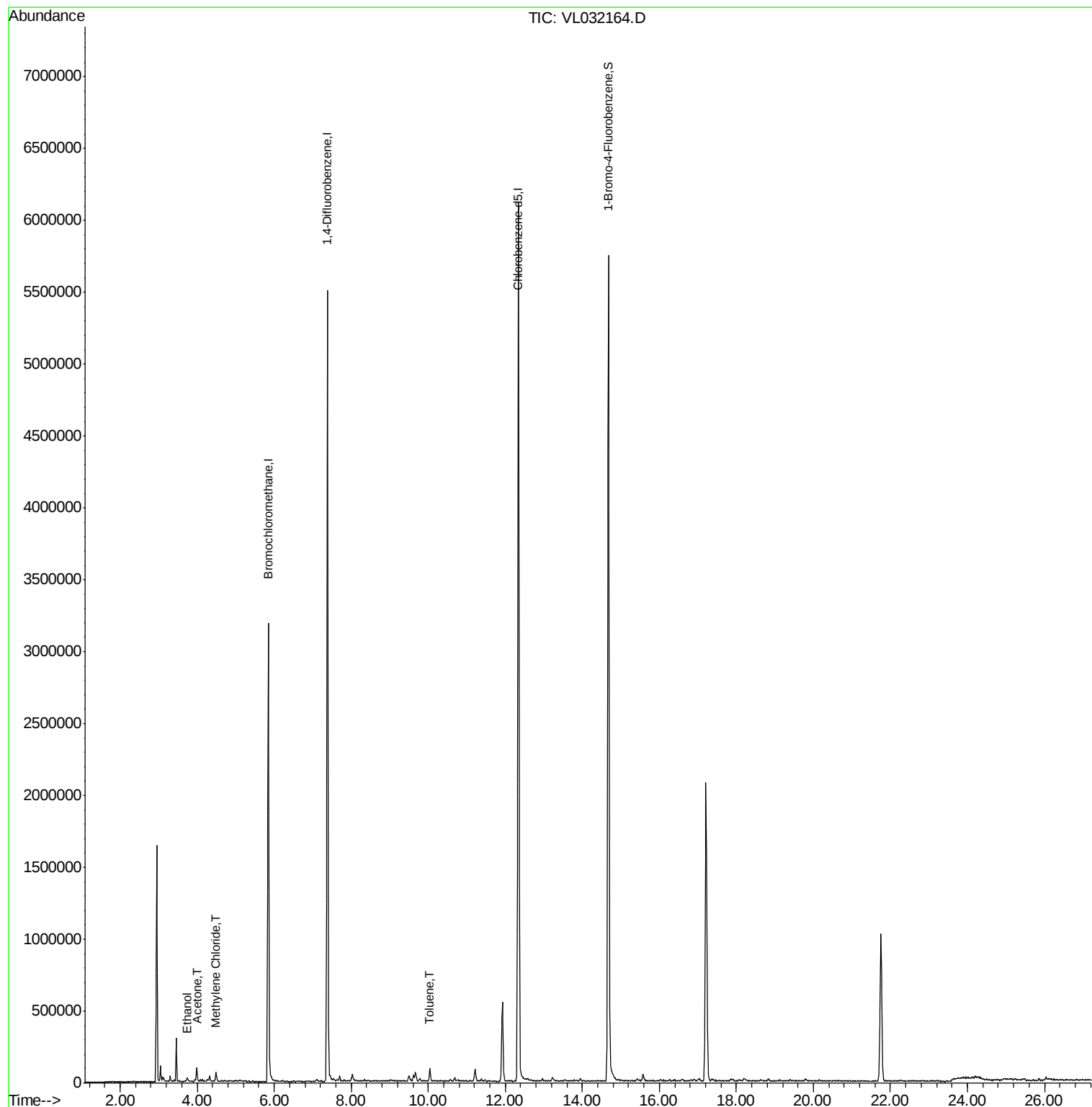
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
Data File : VL032164.D
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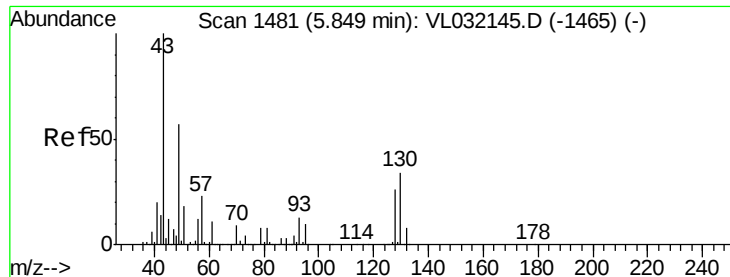
Instrument :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
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QLast Update : Fri Jun 29 22:27:58 2018
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#1

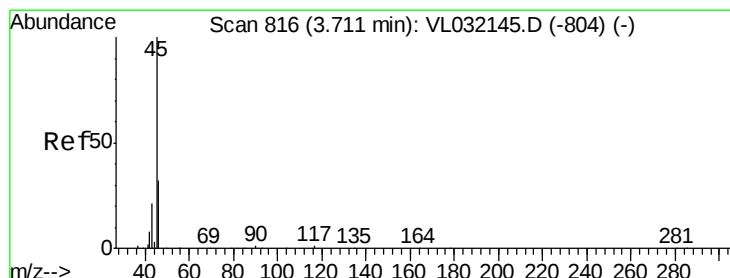
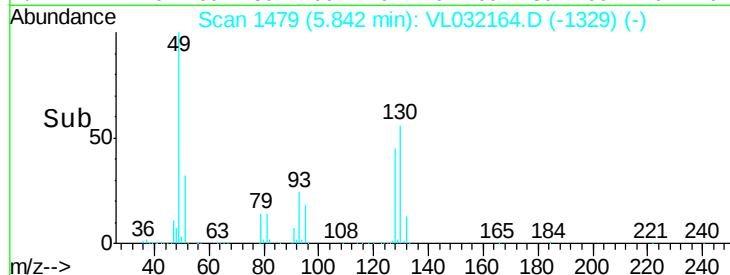
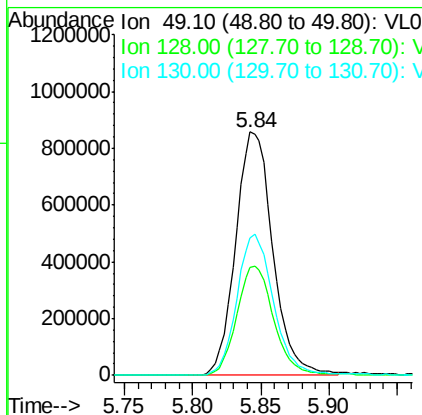
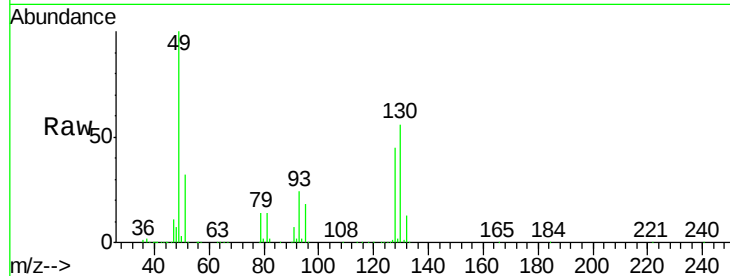
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VL032164.D
 Acq: 30 Jun 2018 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 RESIDENT-A-CRAWL-SPACEDL

Tot Ion: 49 Resp: 1621773
 Ion Ratio Lower Upper
 49 100
 128 45.4 23.4 70.0
 130 57.8 30.3 90.9

Manual Integrations
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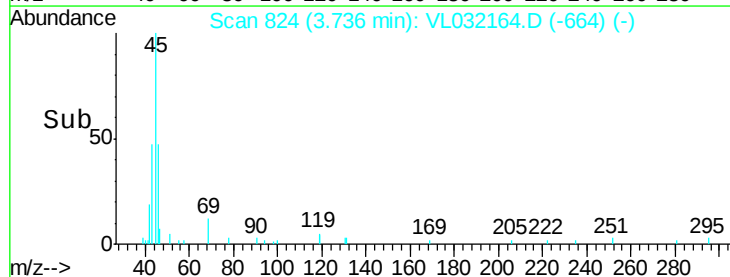
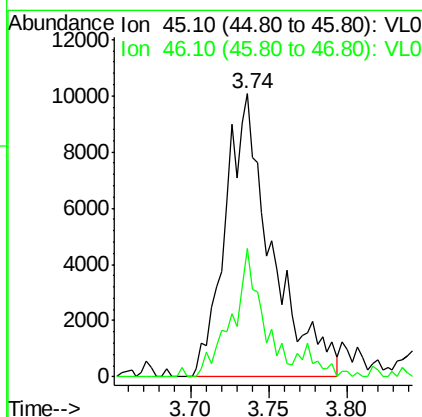
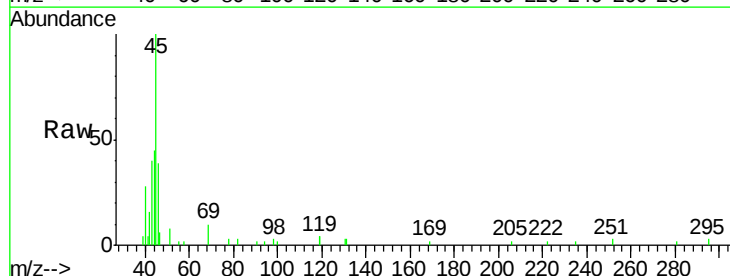
MMDadoda
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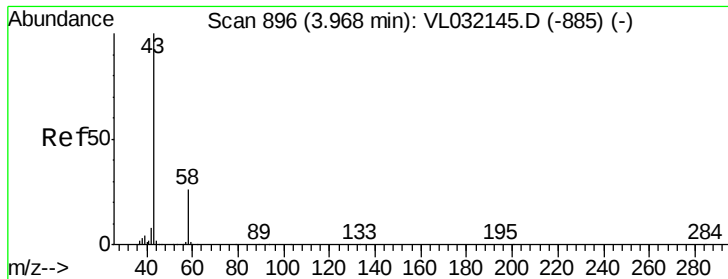


#13

Ethanol
 Concen: 0.74 ppbv m
 RT: 3.74 min Scan# 824
 Delta R.T. 0.01 min
 Lab File: VL032164.D
 Acq: 30 Jun 2018 10:32

Tgt Ion: 45 Resp: 20822
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.6 58.4#





#15

Acetone

Concen: 0.47 ppbv

RT: 3.98 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL032164.D

Acq: 30 Jun 2018 10:32

Instrument :

MSVOA_L

ClientSampleId :

RESIDENT-A-CRAWL-SPACEDL

Tot Ion: 43 Resp: 89353

Ion Ratio Lower Upper

43 100

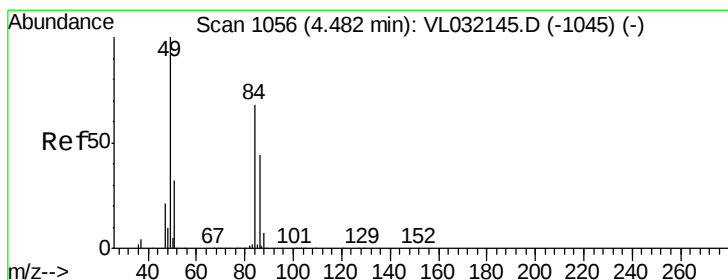
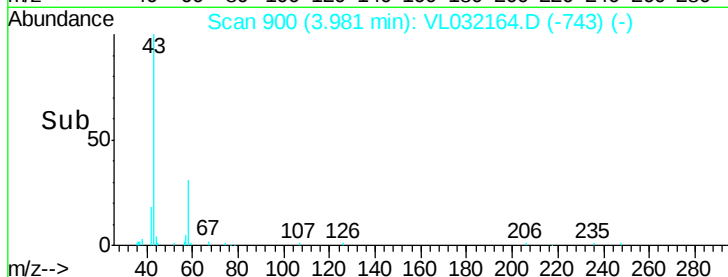
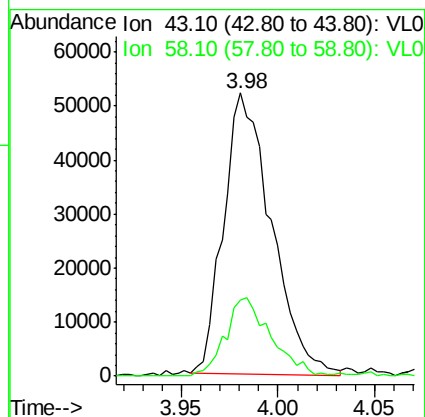
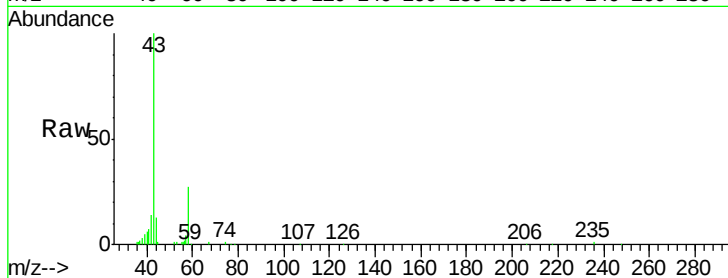
58 26.8 21.4 32.0

Manual Integrations

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#20

Methylene Chloride

Concen: 0.25 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032164.D

Acq: 30 Jun 2018 10:32

Tgt Ion: 84 Resp: 17645

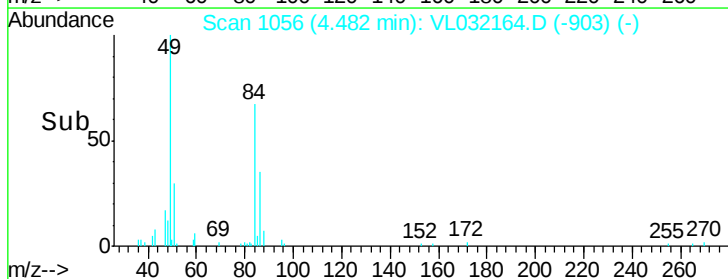
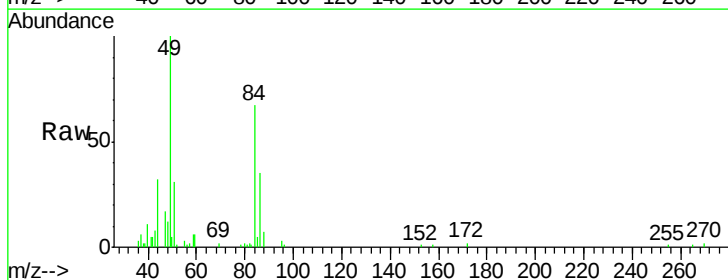
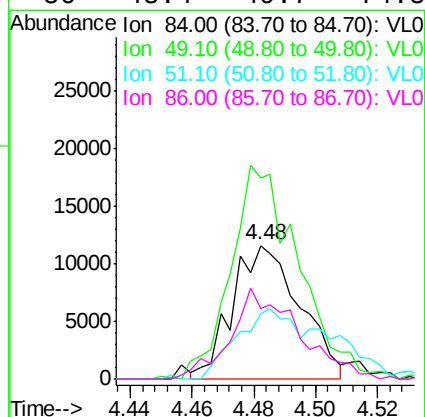
Ion Ratio Lower Upper

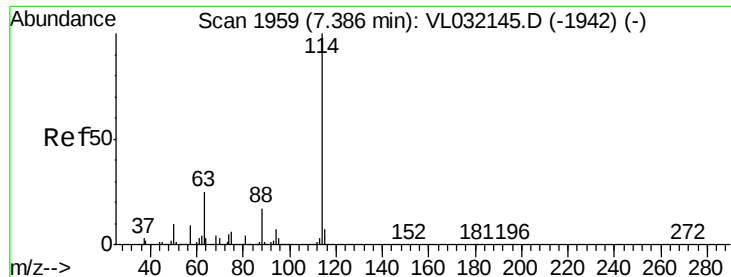
84 100

49 152.7 119.6 179.4

51 51.3 36.3 54.5

86 48.4 49.7 74.5#





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VL032164.D

Acq: 30 Jun 2018 10:32

Instrument :

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RESIDENT-A-CRAWL-SPACEDL

Tot Ion:114 Resp: 4089840

Ion Ratio Lower Upper

114 100

63 26.4 19.1 28.7

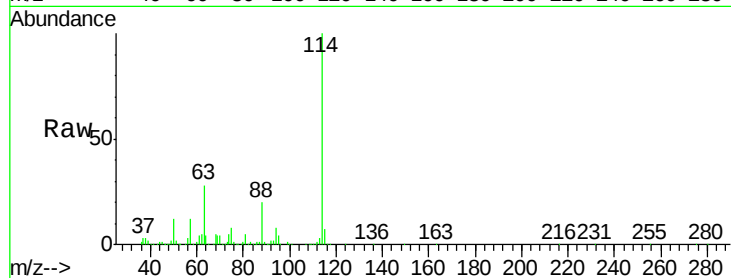
88 19.1 13.9 20.9

Manual Integrations

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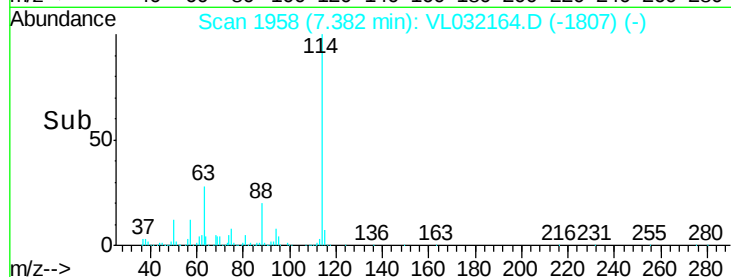


Abundance Ion 114.10 (113.80 to 114.80): V

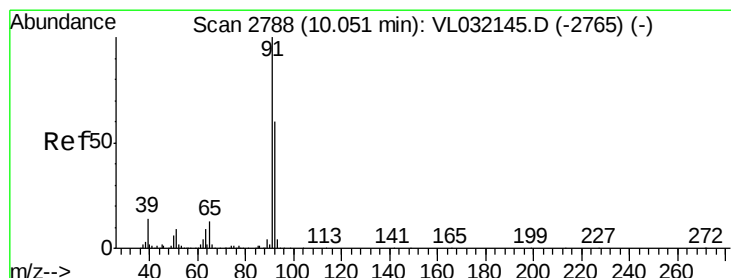
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

Time-->



Time-->



#53

Toluene

Concen: 0.13 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032164.D

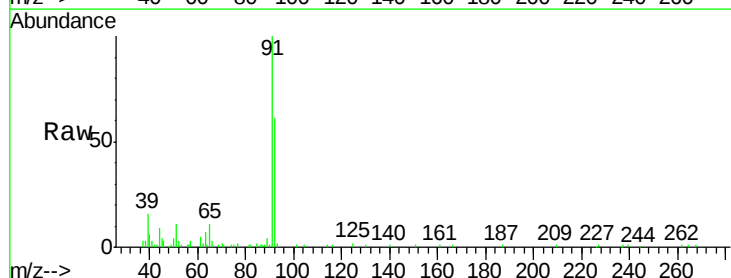
Acq: 30 Jun 2018 10:32

Tgt Ion: 91 Resp: 63313

Ion Ratio Lower Upper

91 100

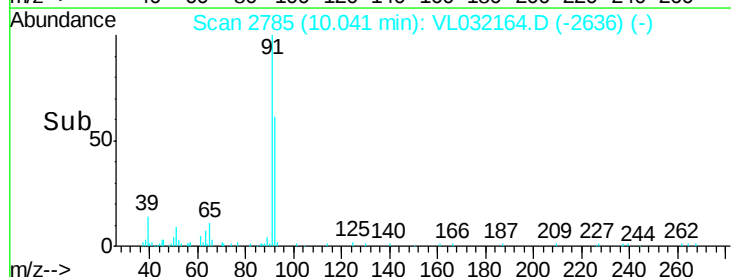
92 60.1 49.2 73.8



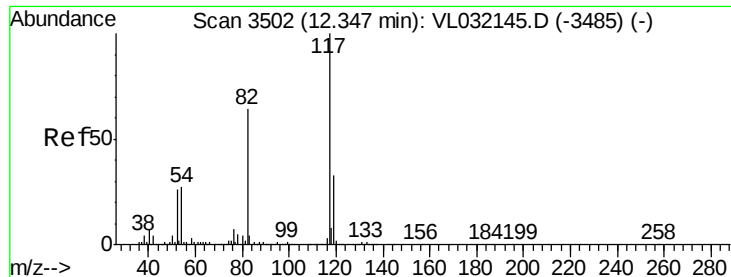
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->



Time-->



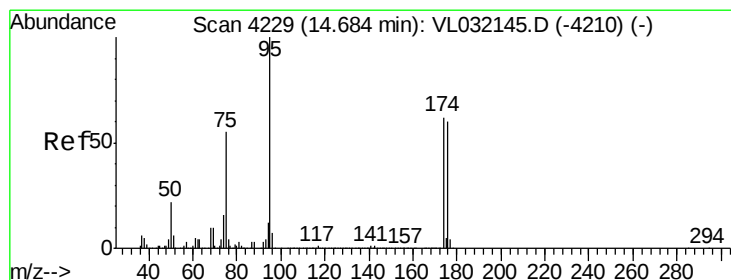
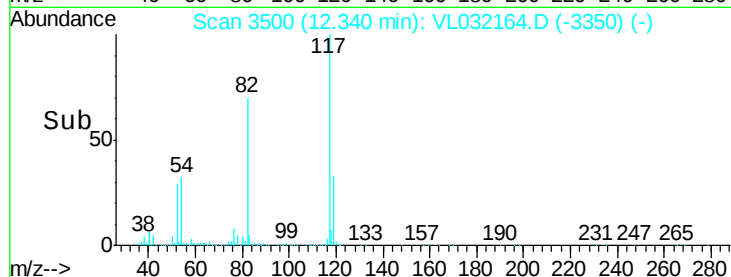
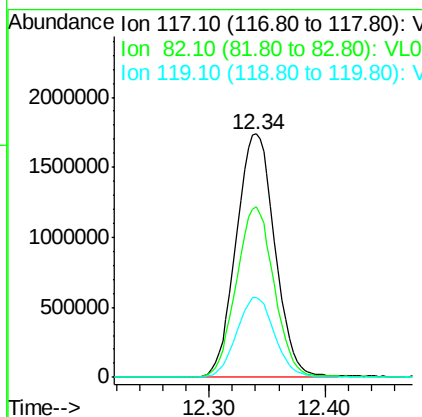
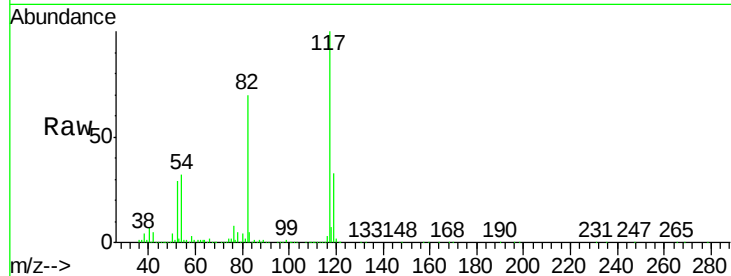
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032164.D
Acq: 30 Jun 2018 10:32

Instrument :
MSVOA_L
ClientSampleId :
RESIDENT-A-CRAWL-SPACEDL

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.1	47.8	71.8
119	32.4	43.3	64.9

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.12 ppbv
RT: 14.68 min Scan# 4227
Delta R.T. -0.02 min
Lab File: VL032164.D
Acq: 30 Jun 2018 10:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	56.6	52.1	78.1
175	4.2	4.0	6.0

