

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033403.D
 Acq On : 20 Mar 2019 23:42
 Operator : SY/AP
 Sample : K1976-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:35 AM

Quant Time: Mar 24 16:18:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	838379	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2064158	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2032382	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1478220	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Ovalue
13) Ethanol	3.66	45	38985m	1.904	ppbv
15) Acetone	3.91	43	80829	0.620	ppbv
52) Tetrachloroethene	11.37	164	348518	4.529	ppbv
53) Toluene	9.94	91	41386m	0.197	ppbv

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

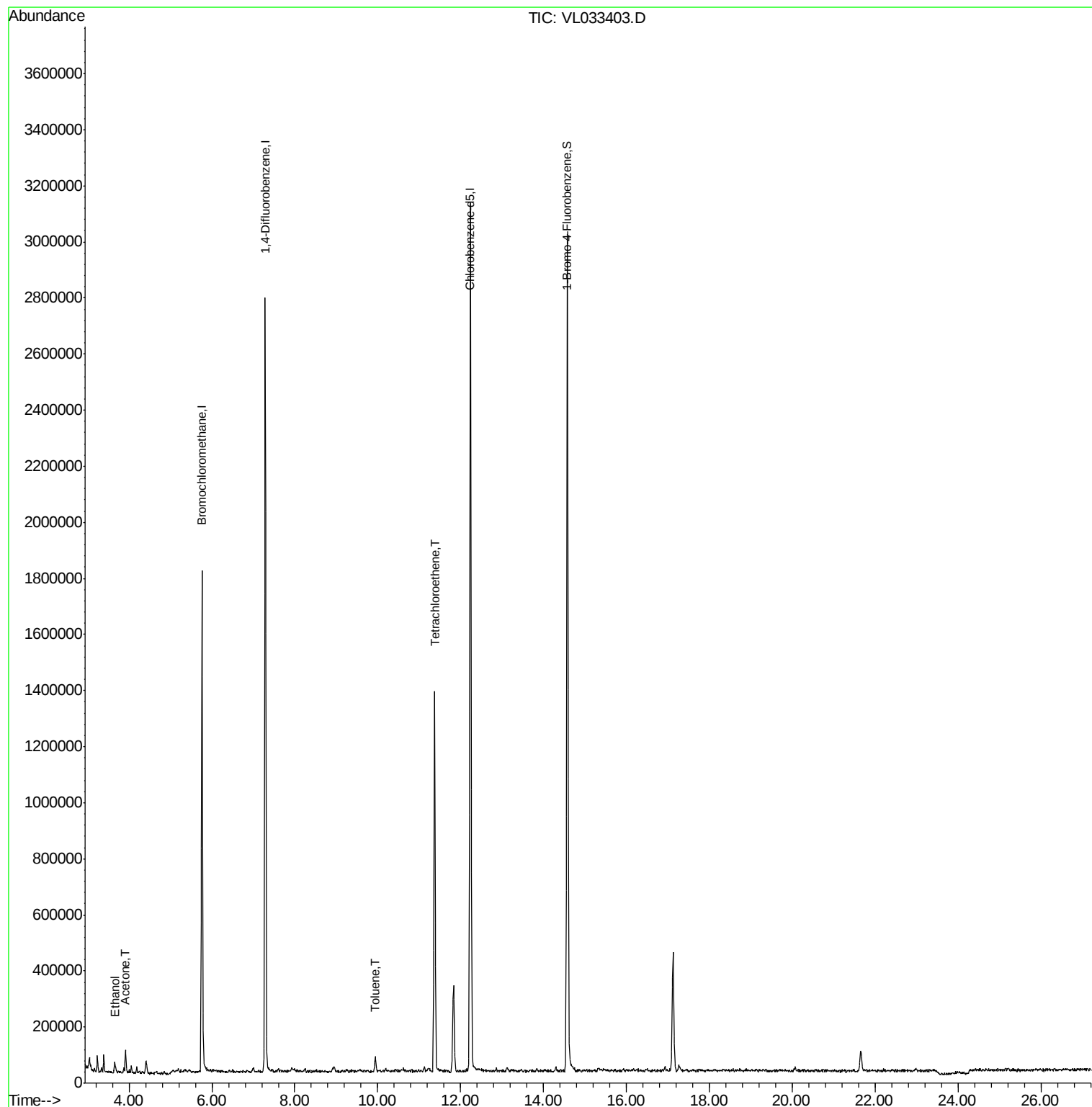
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032019\
Data File : VL033403.D
Acq On : 20 Mar 2019 23:42
Operator : SY/AP
Sample : K1976-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

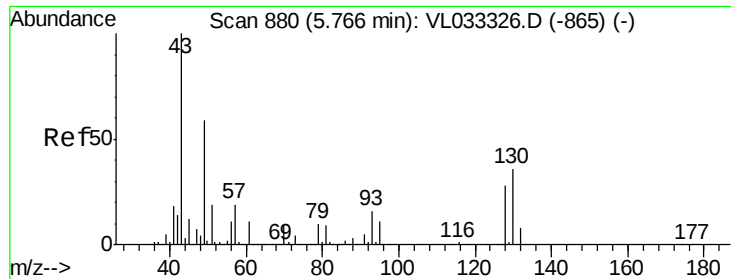
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Manual Integrations
APPROVED

MMDadoda
3/25/2019 8:26:35 AM

Quant Time: Mar 24 16:18:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

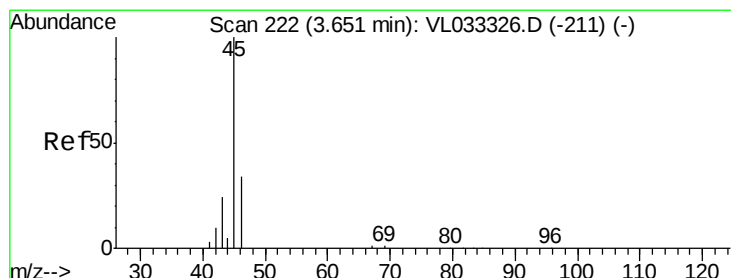
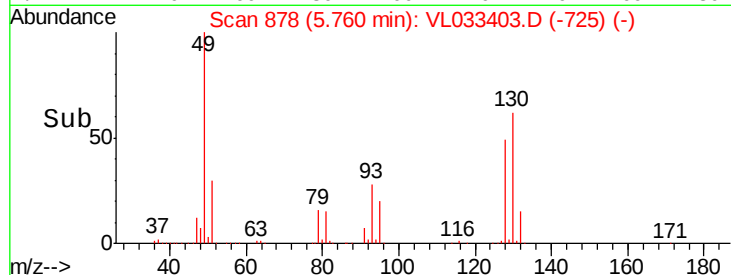
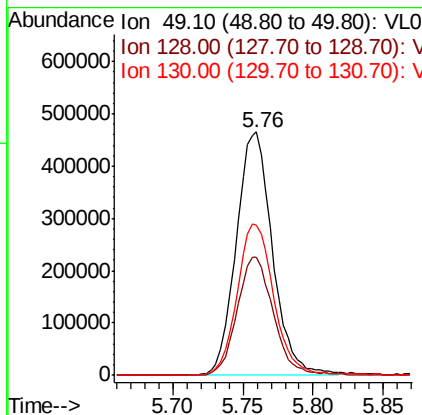
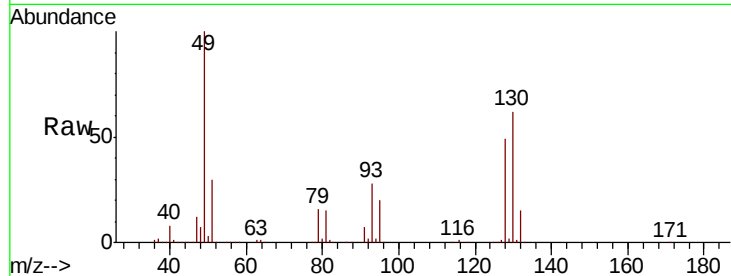
ClientSampleId :

IA1DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.9	23.5	70.6
130	63.7	30.1	90.3

Manual Integrations
APPROVED

MMDadoda
3/25/2019 8:26:35 AM



#13

Ethanol

Concen: 1.904 ppbv m

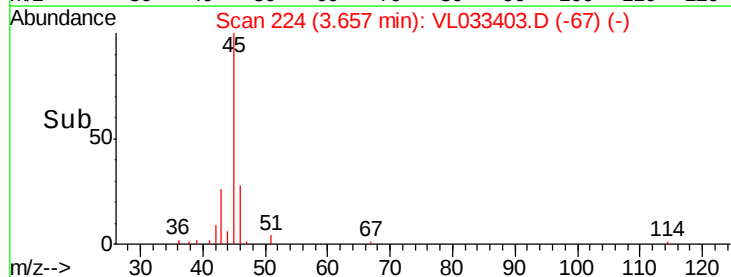
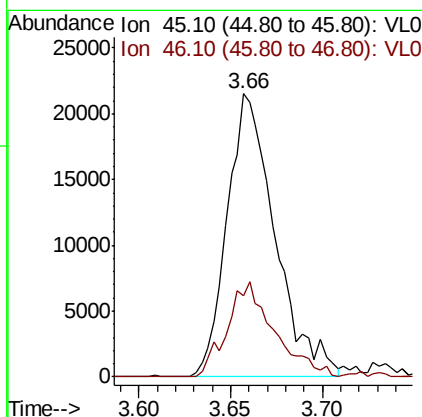
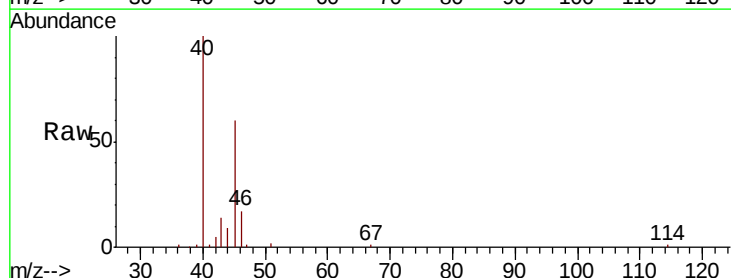
RT: 3.66 min Scan# 224

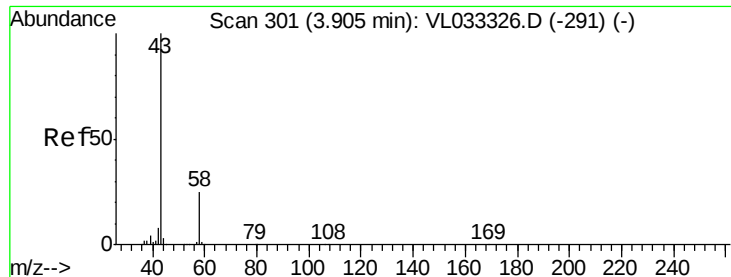
Delta R.T. 0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.5	14.9	59.7





#15

Acetone

Concen: 0.620 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampled :

IA1DL

Tot Ion: 43 Resp: 80829

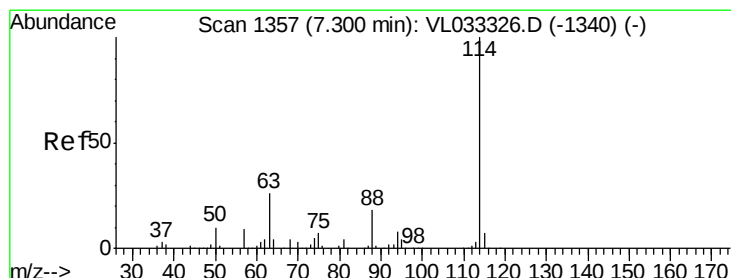
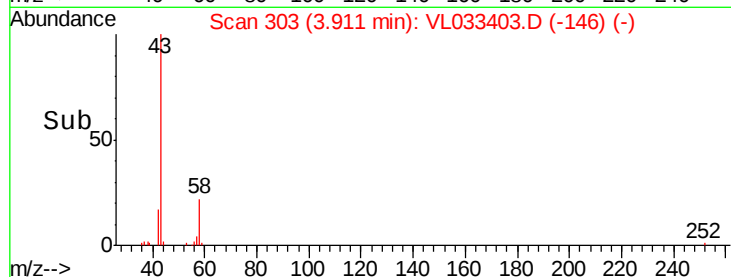
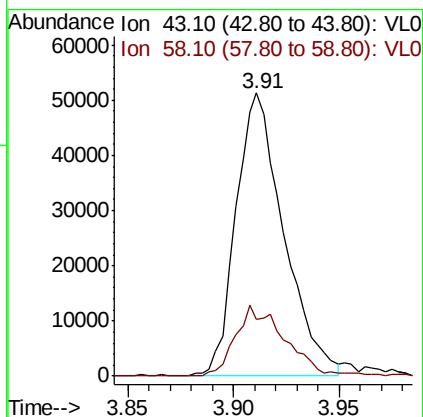
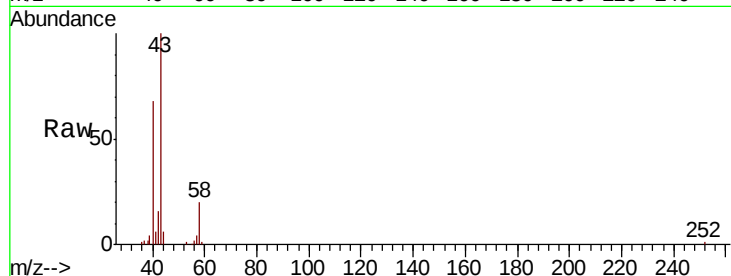
Ion Ratio Lower Upper

43 100

58 26.2 20.4 30.6

Manual Integrations
APPROVED

MMDadoda
3/25/2019 8:26:35 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

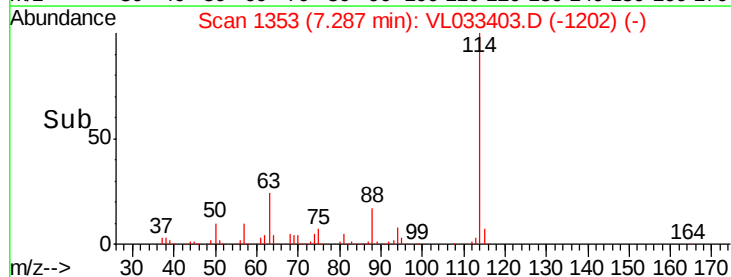
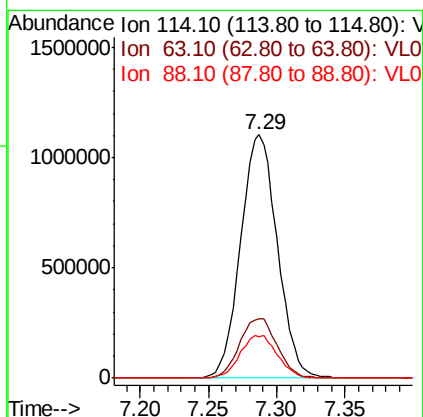
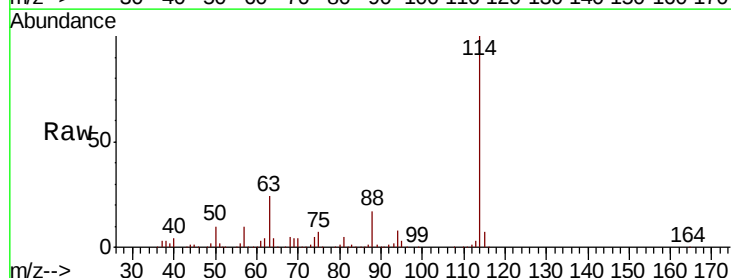
Tgt Ion: 114 Resp: 2064158

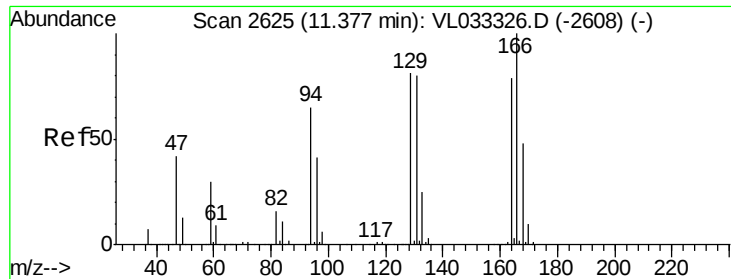
Ion Ratio Lower Upper

114 100

63 25.1 21.4 32.2

88 17.8 14.5 21.7





#52

Tetrachloroethene

Concen: 4.529 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033403.D

Acq: 20 Mar 2019 23:42

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tot Ion:164 Resp: 348518

Ion Ratio Lower Upper

164 100

166 126.5 101.5 152.3

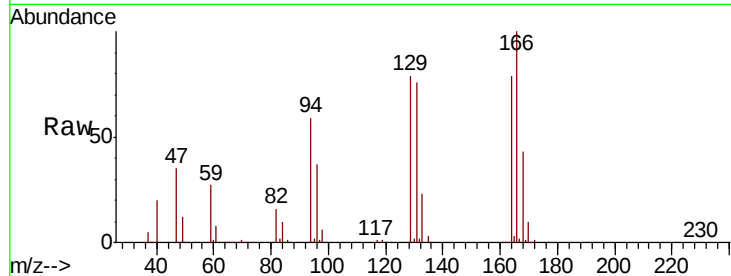
129 99.5 82.2 123.2

131 96.1 81.1 121.7

Manual Integrations
APPROVED

MMDadoda

3/25/2019 8:26:35 AM



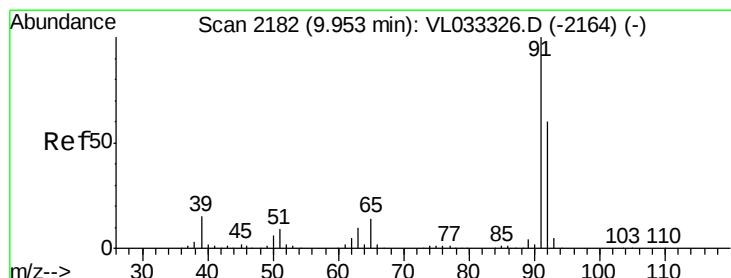
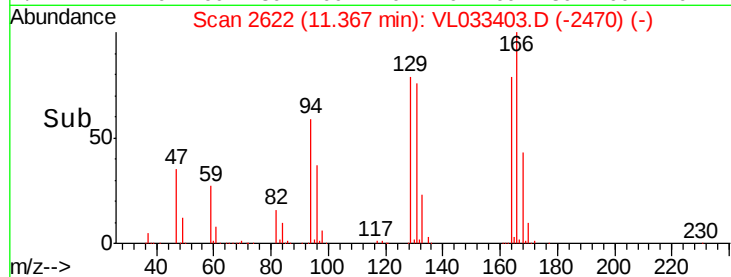
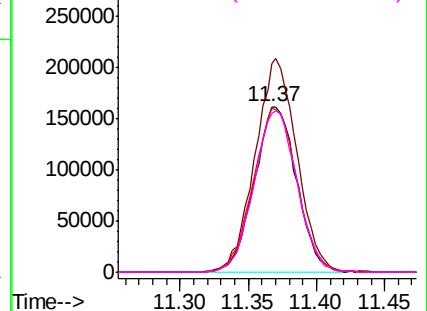
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.197 ppbv m

RT: 9.94 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL033403.D

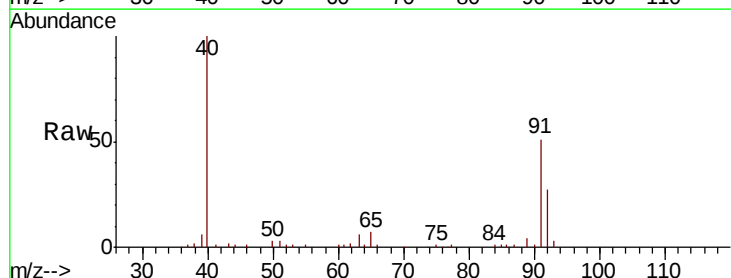
Acq: 20 Mar 2019 23:42

Tgt Ion: 91 Resp: 41386

Ion Ratio Lower Upper

91 100

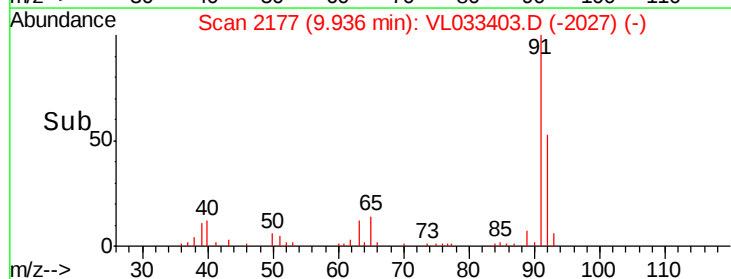
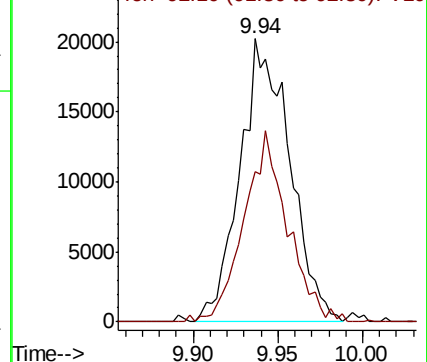
92 58.9 47.4 71.0

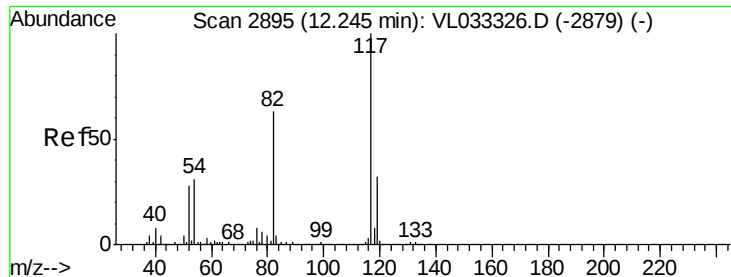


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





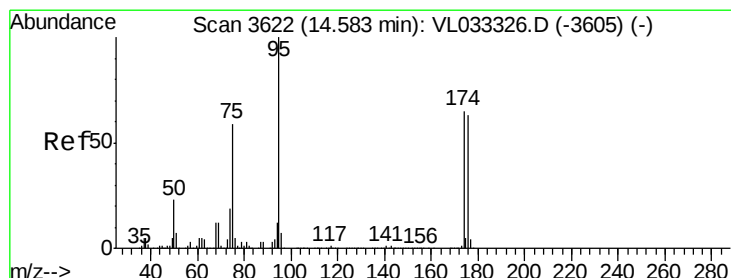
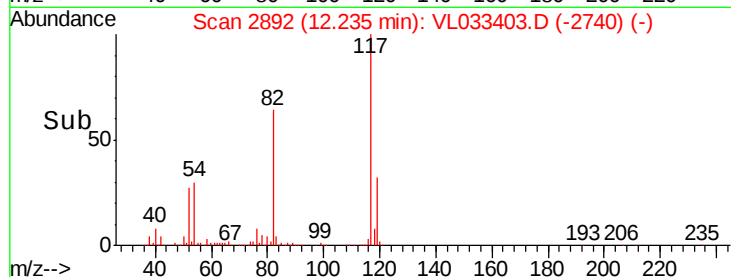
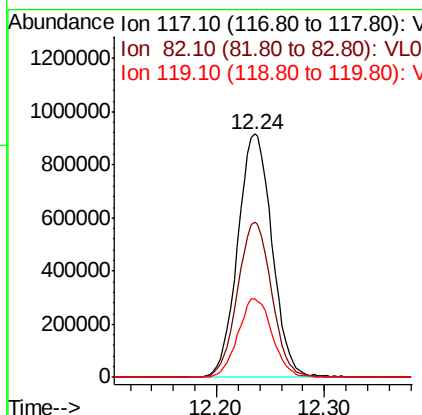
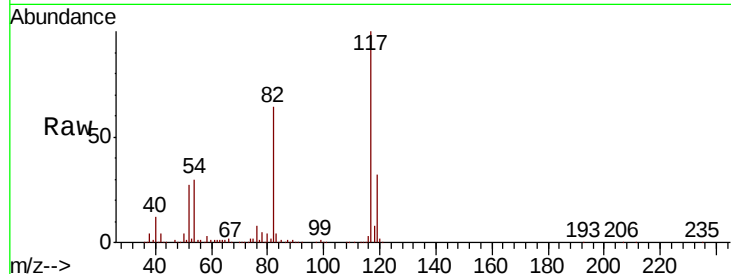
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033403.D
Acq: 20 Mar 2019 23:42

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tot Ion:117 Resp: 2032382
Ion Ratio Lower Upper
117 100
82 63.8 53.4 80.2
119 32.4 27.3 40.9

Manual Integrations
APPROVED

MMDadoda
3/25/2019 8:26:35 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.816 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033403.D
Acq: 20 Mar 2019 23:42

Tgt Ion: 95 Resp: 1478220
Ion Ratio Lower Upper
95 100
174 67.1 51.5 77.3
175 4.8 3.8 5.6

