

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
 Data File : VL032823.D
 Acq On : 28 Nov 2018 9:27
 Operator : SY/AP
 Sample : J6046-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-04DL

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 4:21:38 PM

Quant Time: Nov 28 14:52:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1182562	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3020832	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2888767	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2141313	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	33453m	0.20	ppbv	
3) Chlorodifluoromethane	3.02	51	7839507	83.62	ppbv	97
4) Chloromethane	3.17	50	25911	0.50	ppbv	96
11) Trichlorofluoromethane	4.01	101	435099	2.72	ppbv	97
13) Ethanol	3.66	45	150259	12.23	ppbv	96
15) Acetone	3.91	43	371541	3.44	ppbv #	72
19) Isopropyl Alcohol	4.04	45	110951	1.54	ppbv #	89
34) 2-Butanone	5.34	43	1140614	7.28	ppbv	100
52) Tetrachloroethene	11.38	164	137115	1.64	ppbv	95
53) Toluene	9.96	91	64718	0.26	ppbv	97

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

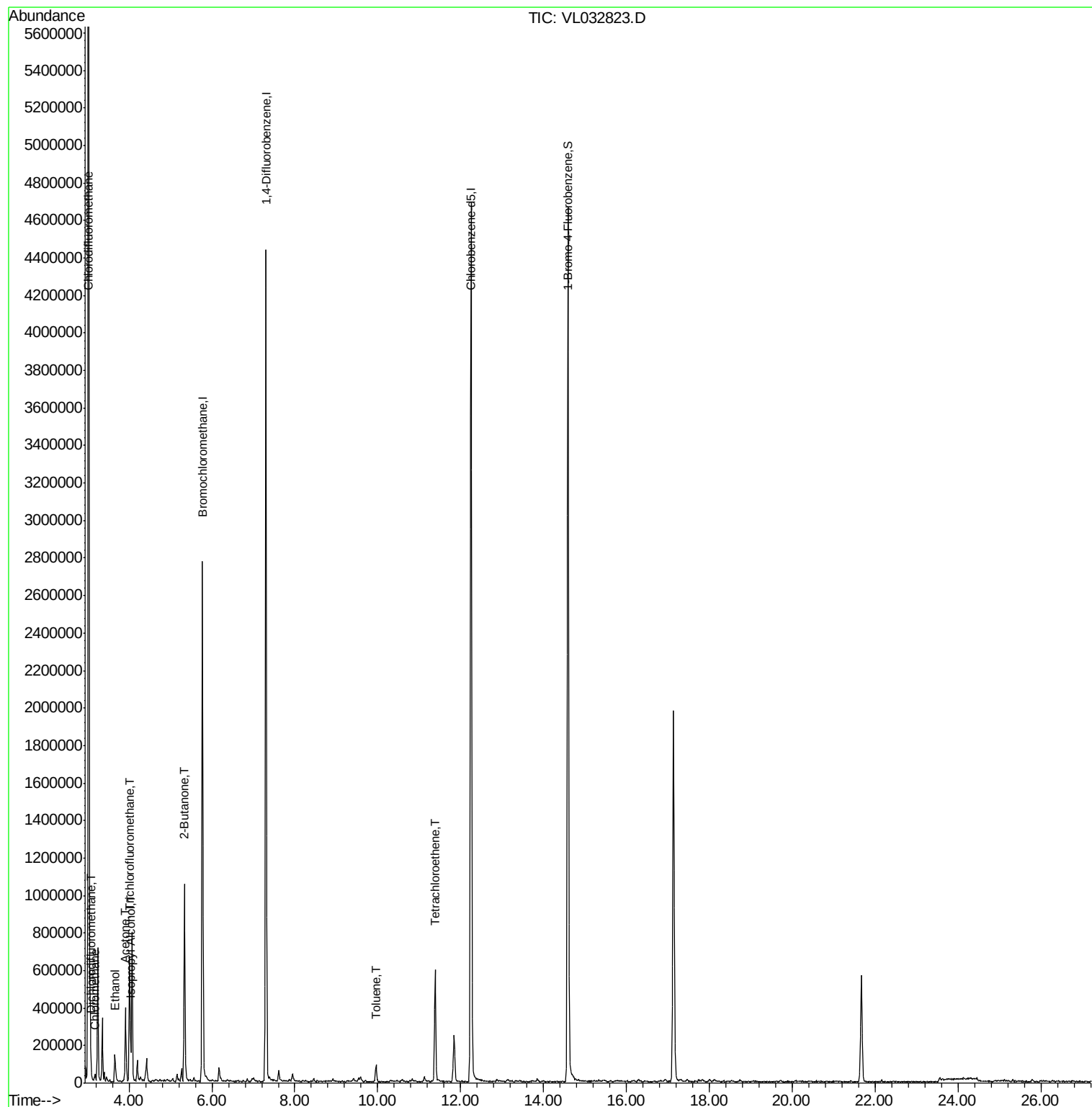
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
Data File : VL032823.D
Acq On : 28 Nov 2018 9:27
Operator : SY/AP
Sample : J6046-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

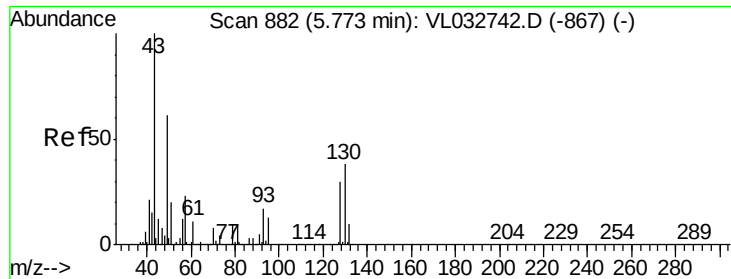
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04DL

Manual Integrations
APPROVED

MMDadoda
11/28/2018 4:21:38 PM

Quant Time: Nov 28 14:52:11 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032823.D

Acq: 28 Nov 2018 9:27

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04DL

Tgt Ion: 49 Resp: 1182562

Ion Ratio Lower Upper

49 100

128 52.6 24.9 74.6

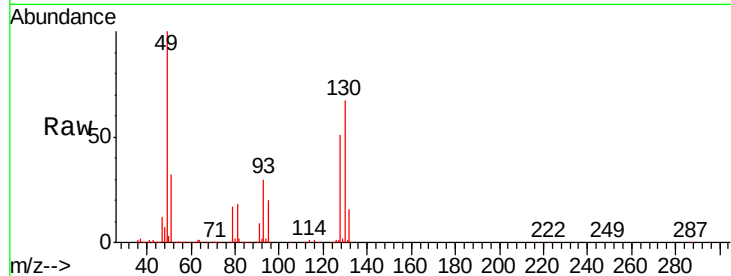
130 67.5 31.4 94.2

Manual Integrations

APPROVED

MMDadoda

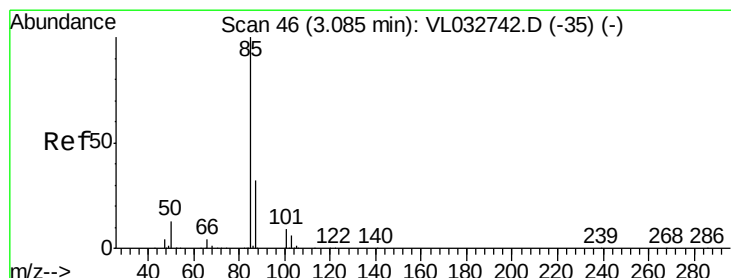
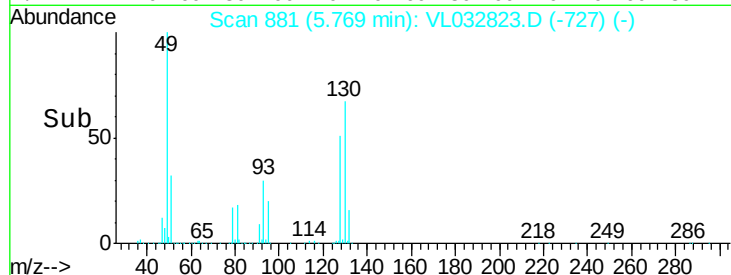
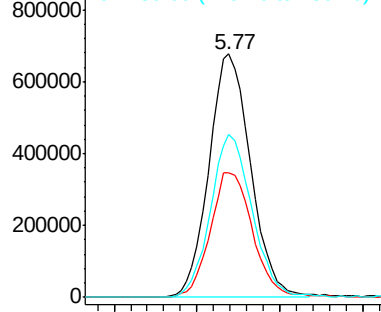
11/28/2018 4:21:38 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.20 ppbv m

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032823.D

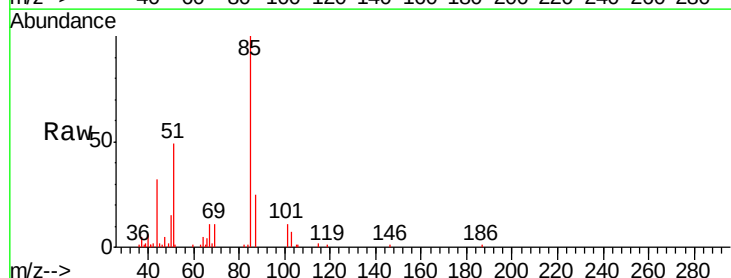
Acq: 28 Nov 2018 9:27

Tgt Ion: 85 Resp: 33453

Ion Ratio Lower Upper

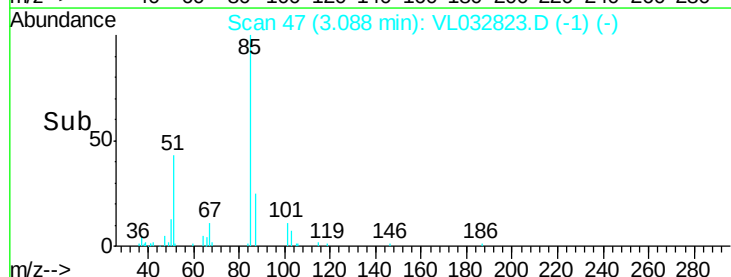
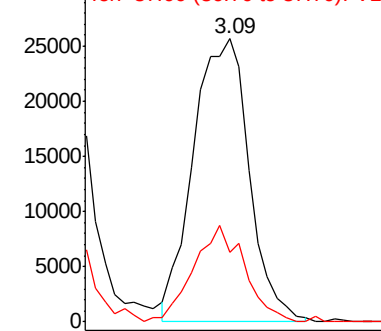
85 100

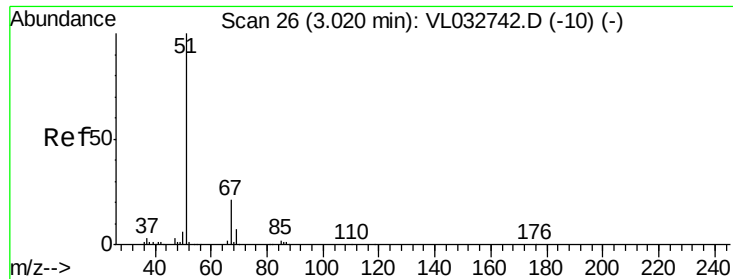
87 24.6 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 83.62 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032823.D

Acq: 28 Nov 2018 9:27

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04DL

Tgt Ion: 51 Resp: 7839507

Ion Ratio Lower Upper

51 100

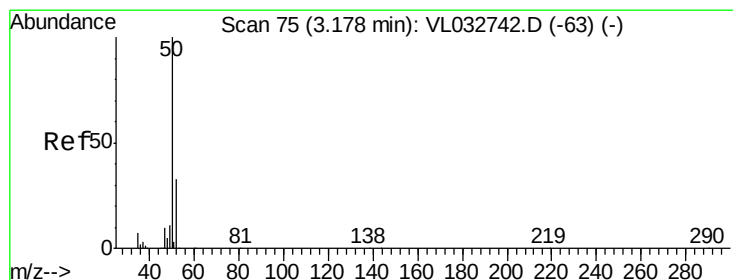
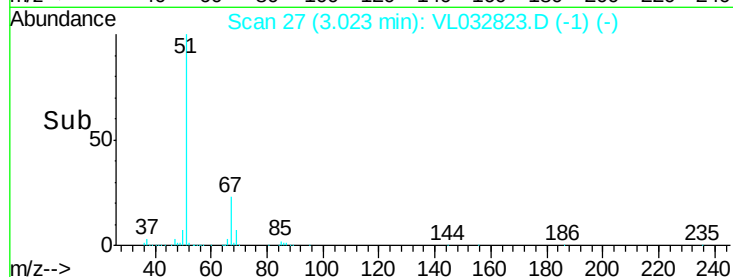
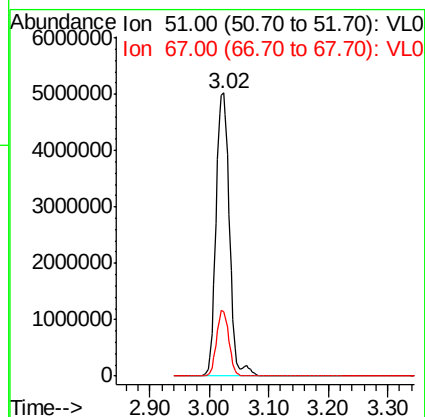
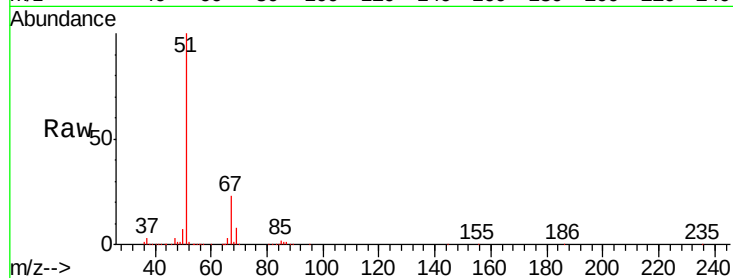
67 21.4 16.1 24.1

Manual Integrations

APPROVED

MMDadoda

11/28/2018 4:21:38 PM



#4

Chloromethane

Concen: 0.50 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032823.D

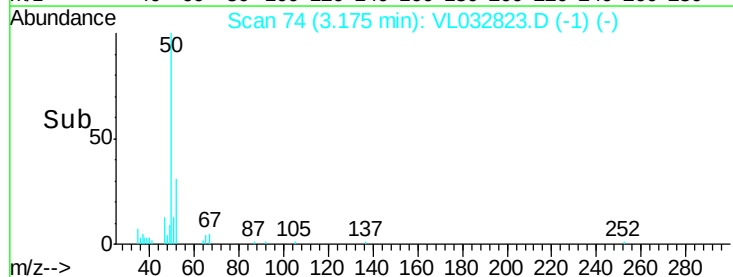
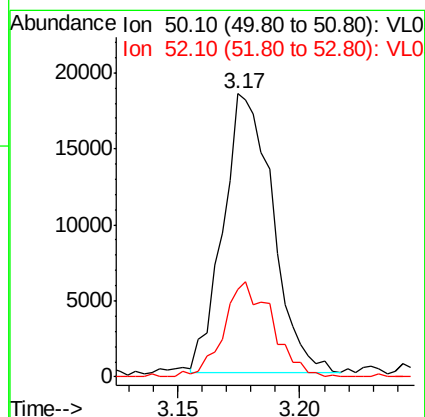
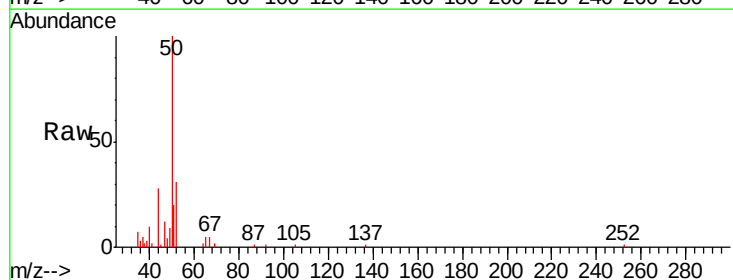
Acq: 28 Nov 2018 9:27

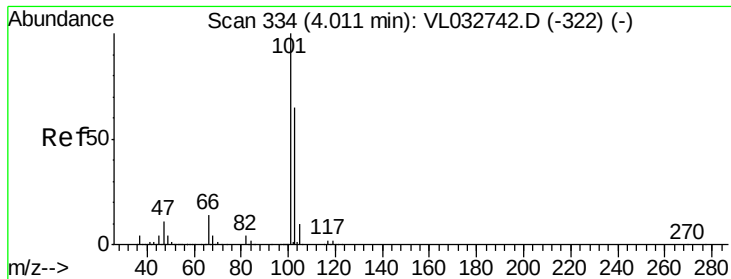
Tgt Ion: 50 Resp: 25911

Ion Ratio Lower Upper

50 100

52 31.3 26.6 40.0





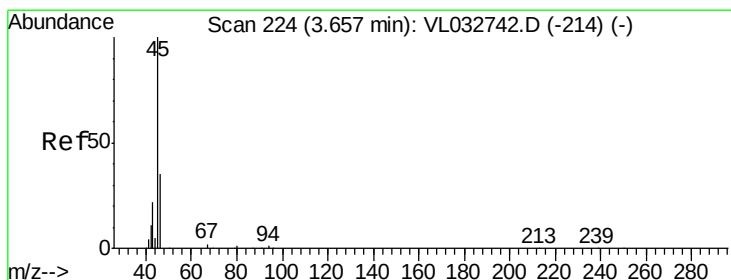
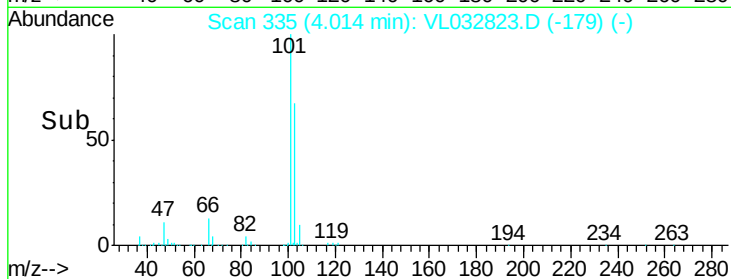
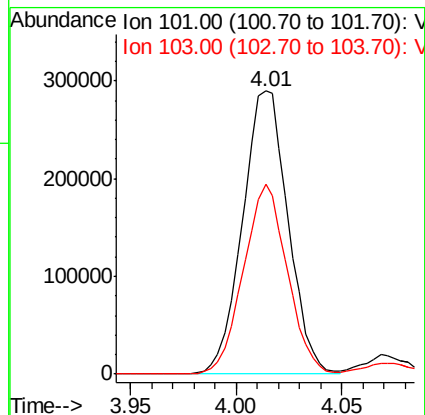
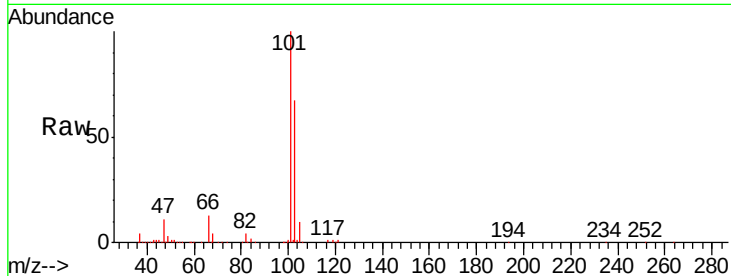
#11
 Trichlorofluoromethane
 Concen: 2.72 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032823.D
 Acq: 28 Nov 2018 9:27

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-04DL

Tgt Ion: 101 Resp: 435099
 Ion Ratio Lower Upper
 101 100
 103 67.1 51.6 77.4

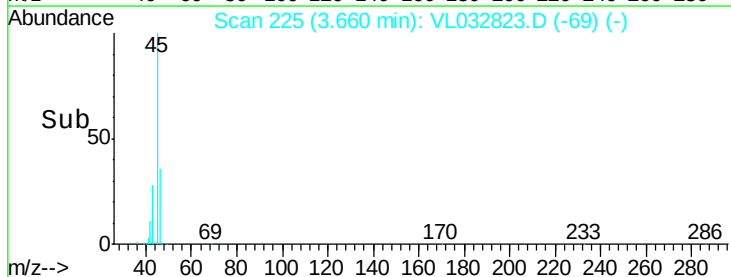
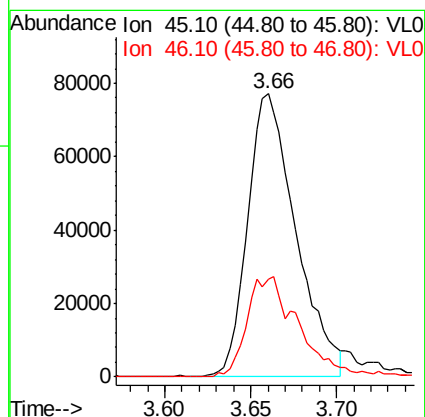
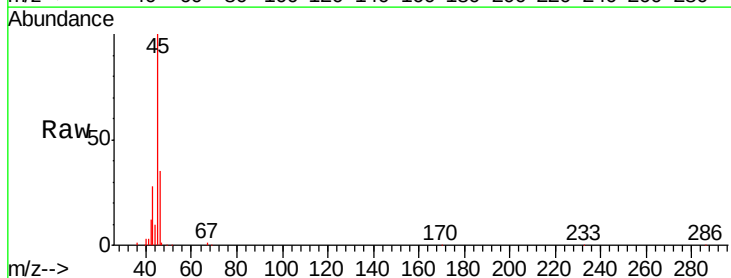
Manual Integrations
 APPROVED

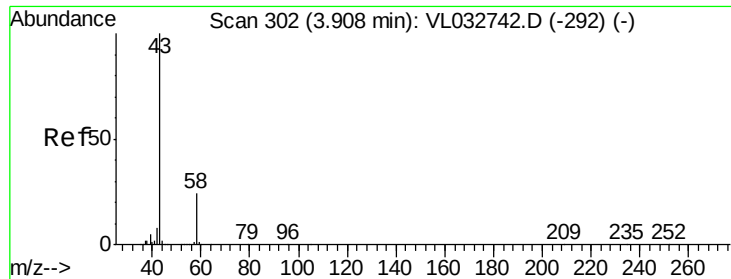
MMDadoda
 11/28/2018 4:21:38 PM



#13
 Ethanol
 Concen: 12.23 ppbv
 RT: 3.66 min Scan# 225
 Delta R.T. 0.00 min
 Lab File: VL032823.D
 Acq: 28 Nov 2018 9:27

Tgt Ion: 45 Resp: 150259
 Ion Ratio Lower Upper
 45 100
 46 38.4 14.5 57.9





#15

Acetone

Concen: 3.44 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032823.D

Acq: 28 Nov 2018 9:27

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04DL

Tgt Ion: 43 Resp: 371541

Ion Ratio Lower Upper

43 100

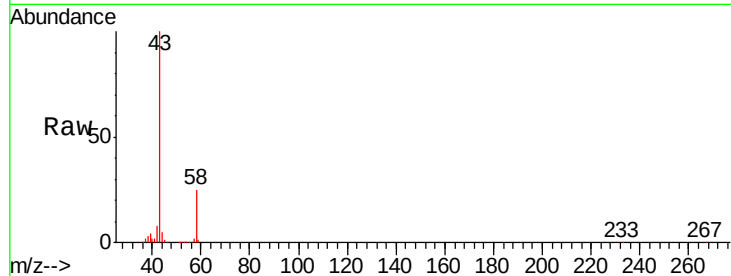
58 41.0 21.1 31.7#

Manual Integrations

APPROVED

MMDadoda

11/28/2018 4:21:38 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

250000

200000

150000

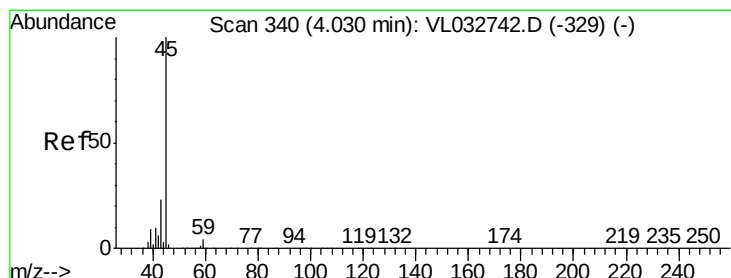
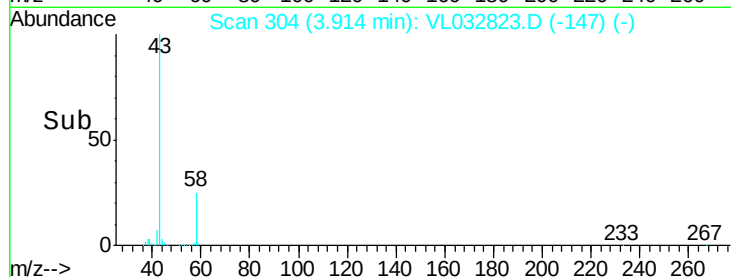
100000

50000

0

Time-->

3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 1.54 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032823.D

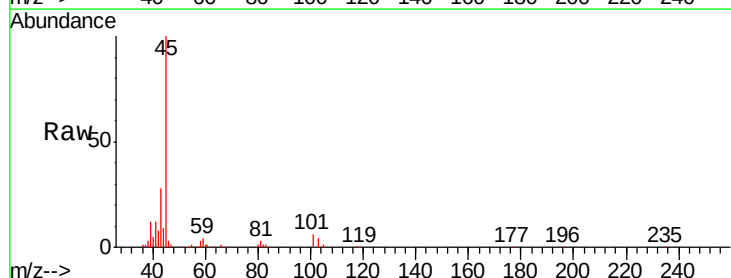
Acq: 28 Nov 2018 9:27

Tgt Ion: 45 Resp: 110951

Ion Ratio Lower Upper

45 100

58 5.8 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

80000

60000

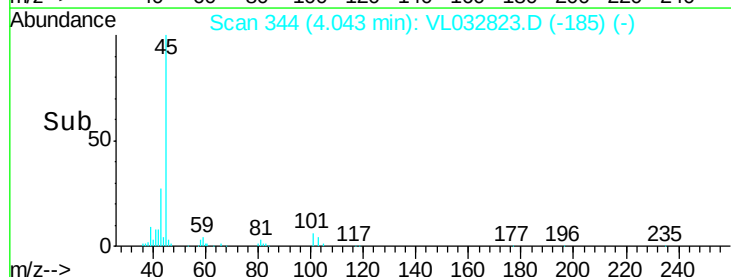
40000

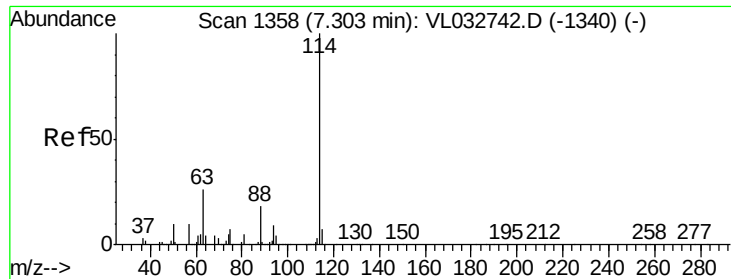
20000

0

Time-->

3.98 4.00 4.02 4.04 4.06





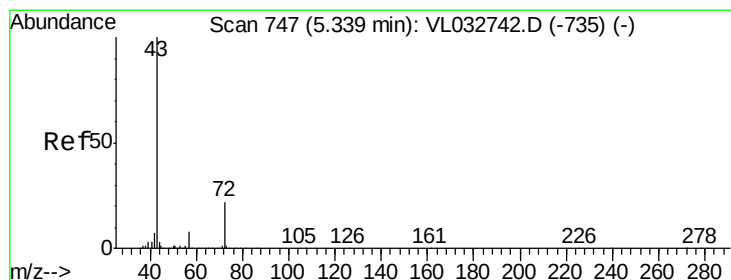
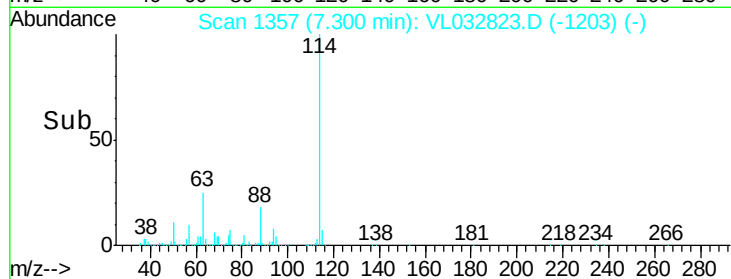
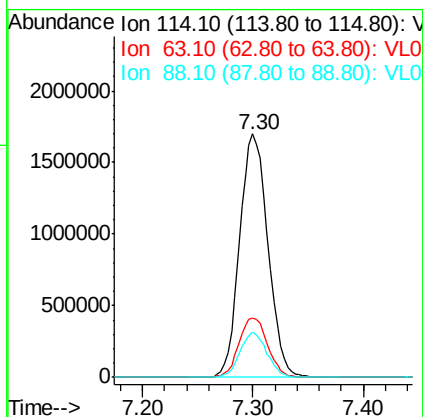
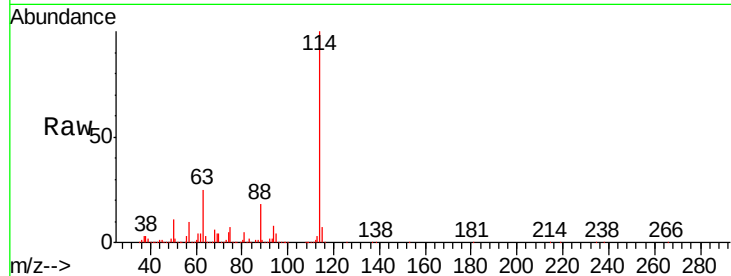
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032823.D
 Acq: 28 Nov 2018 9:27

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-04DL

Tgt Ion: 114 Resp: 3020832
 Ion Ratio Lower Upper
 114 100
 63 24.9 20.9 31.3
 88 17.8 14.4 21.6

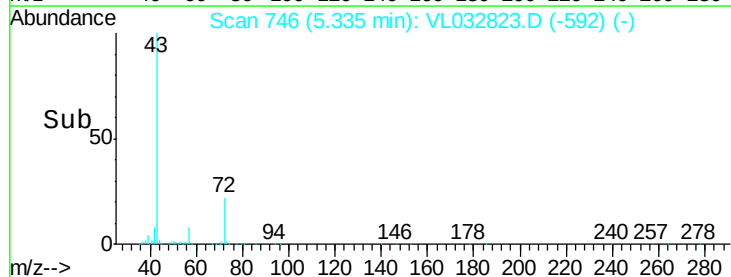
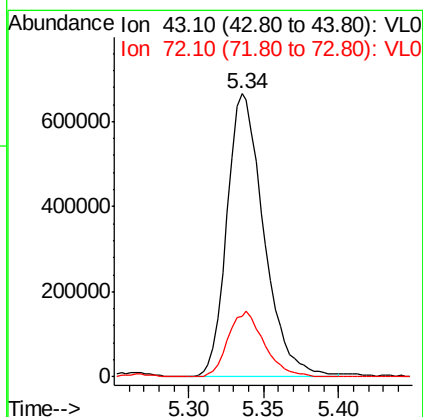
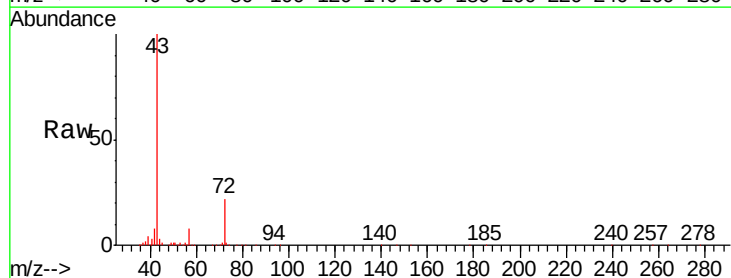
Manual Integrations
 APPROVED

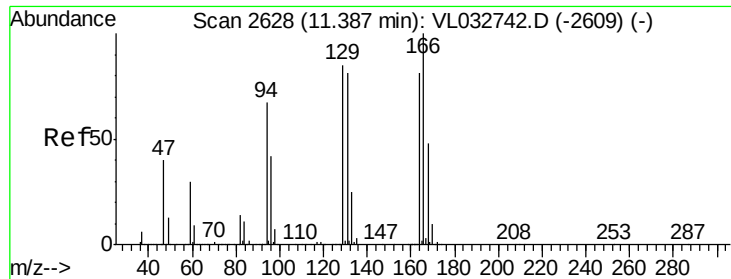
MMDadoda
 11/28/2018 4:21:38 PM



#34
 2-Butanone
 Concen: 7.28 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032823.D
 Acq: 28 Nov 2018 9:27

Tgt Ion: 43 Resp: 1140614
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.4 27.6





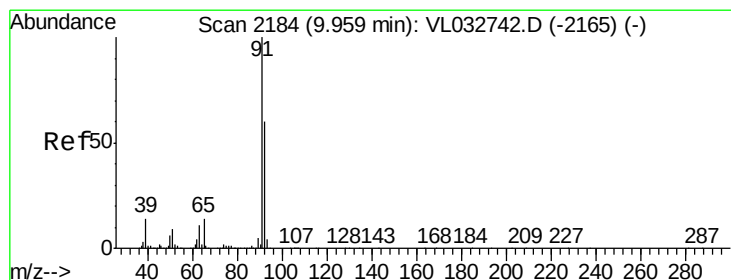
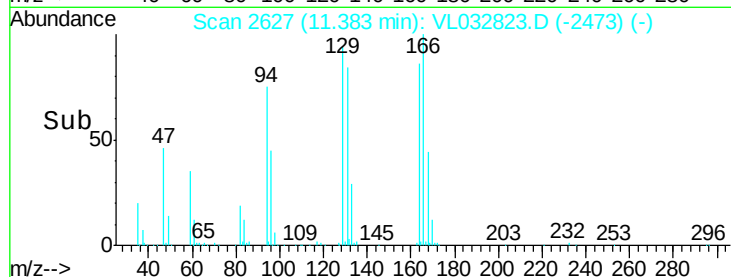
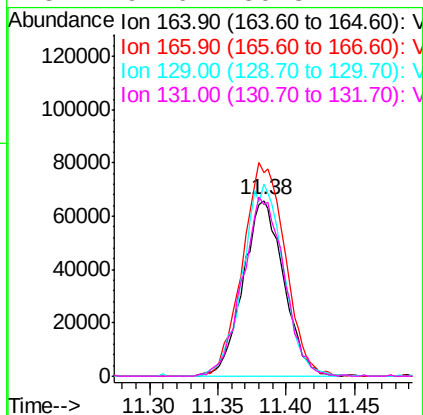
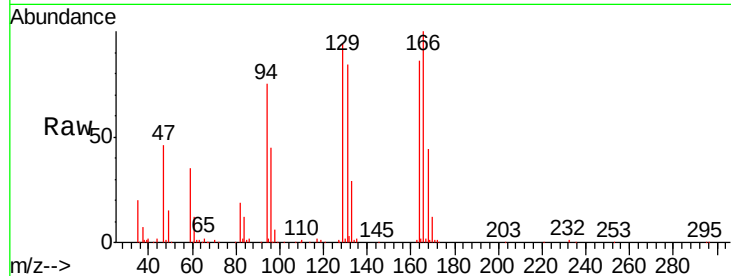
#52
Tetrachloroethene
Concen: 1.64 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032823.D
Acq: 28 Nov 2018 9:27

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04DL

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	137115		
166	116.0	99.3	148.9	
129	109.3	83.9	125.9	
131	97.6	80.8	121.2	

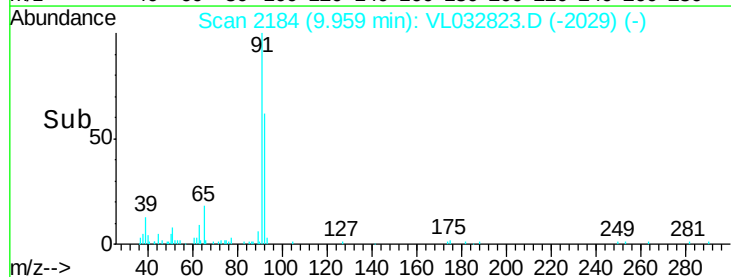
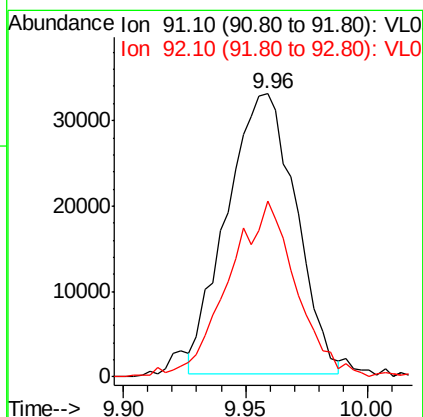
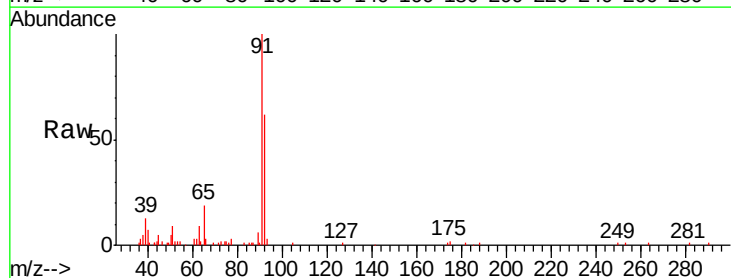
Manual Integrations
APPROVED

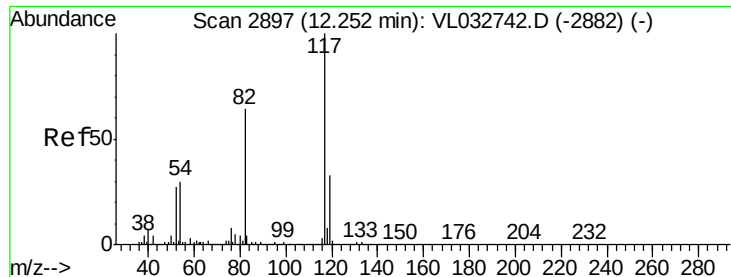
MMDadoda
11/28/2018 4:21:38 PM



#53
Toluene
Concen: 0.26 ppbv
RT: 9.96 min Scan# 2184
Delta R.T. -0.00 min
Lab File: VL032823.D
Acq: 28 Nov 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	64718		
92	61.9	47.9	71.9	





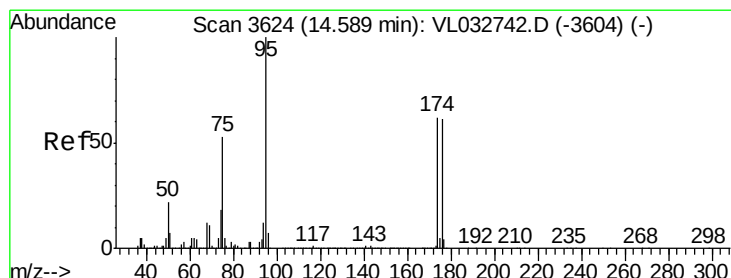
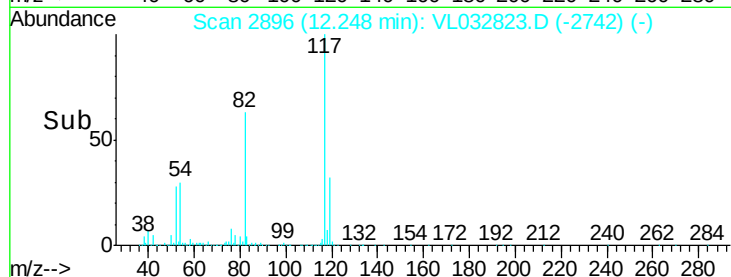
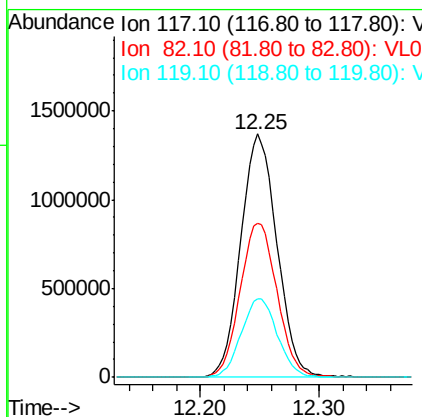
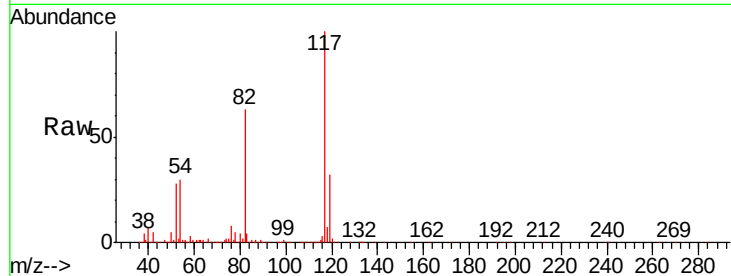
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032823.D
Acq: 28 Nov 2018 9:27

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04DL

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.2	51.0	76.6
119	32.8	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/28/2018 4:21:38 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.91 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032823.D
Acq: 28 Nov 2018 9:27

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.4	50.7	76.1
175	4.7	3.8	5.6

