

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033194.D
 Acq On : 13 Feb 2019 19:45
 Operator : SY/AP
 Sample : K1408-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-IADL

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:24:11 PM

Quant Time: Feb 20 08:02:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Feb 20 08:02:36 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	982998	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2238278	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2185639	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1757430	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	8510450	71.903	ppbv #	91
13) Ethanol	3.65	45	207191m	10.663	ppbv	
15) Acetone	3.92	43	321919	2.907	ppbv #	75
20) Methylene Chloride	4.41	84	18225	0.414	ppbv #	86
26) Hexane	5.78	57	50192	0.429	ppbv #	79
34) 2-Butanone	5.34	43	17661m	0.124	ppbv	
52) Tetrachloroethene	11.37	164	7242m	0.083	ppbv	
53) Toluene	9.95	91	59442m	0.221	ppbv	

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

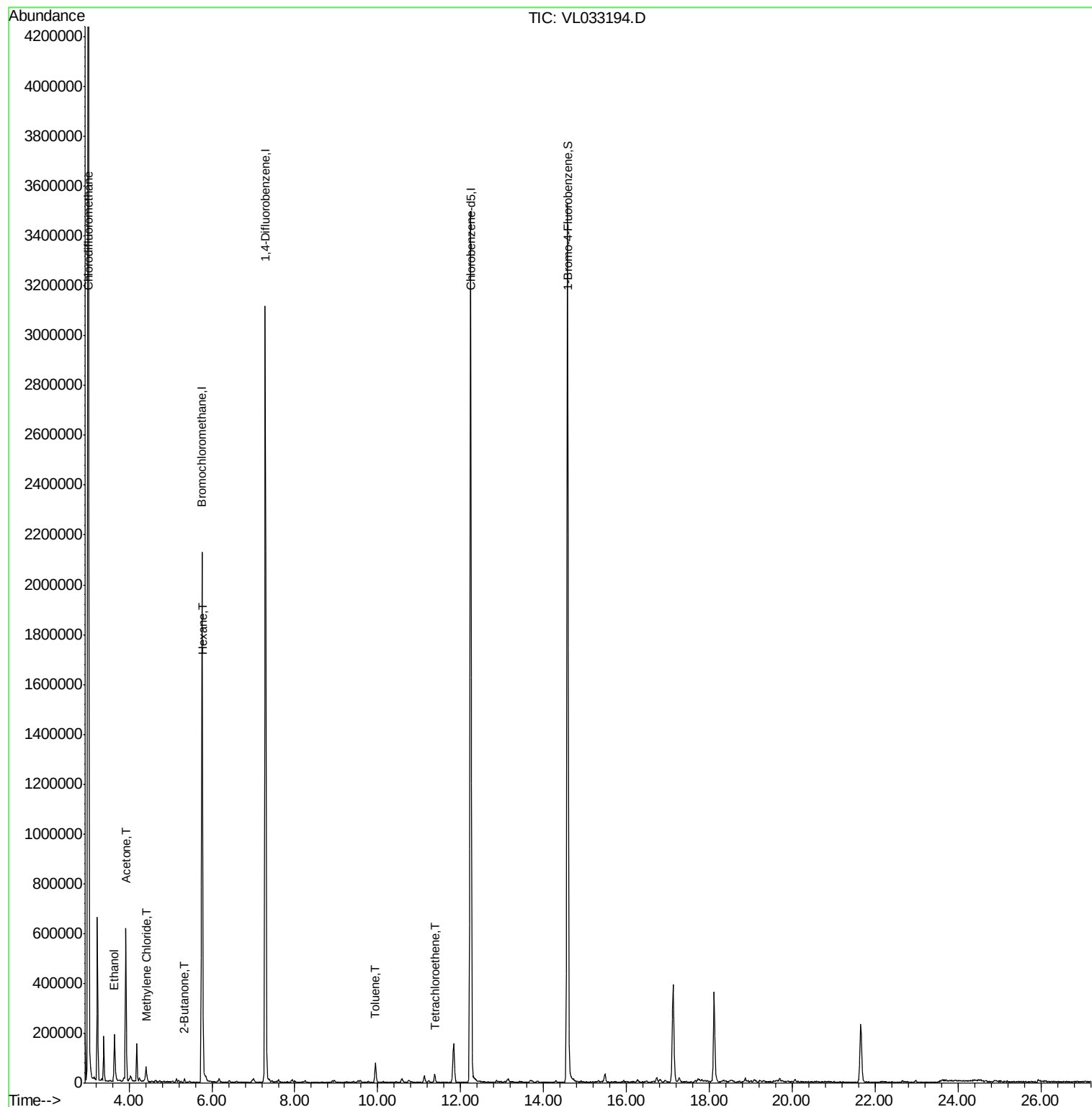
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
Data File : VL033194.D
Acq On : 13 Feb 2019 19:45
Operator : SY/AP
Sample : K1408-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

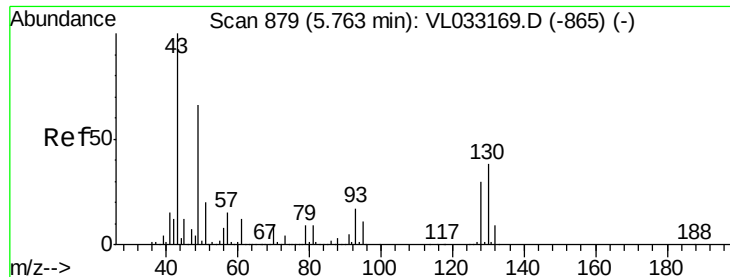
Instrument :
MSVOA_L
ClientSampleId :
FM-IADL

Manual Integrations
APPROVED

MMDadoda
2/20/2019 12:24:11 PM

Quant Time: Feb 20 08:02:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033194.D

Acq: 13 Feb 2019 19:45

Instrument :

MSVOA_L

ClientSampleId :

FM-IADL

Tgt Ion: 49 Resp: 982998

Ion Ratio Lower Upper

49 100

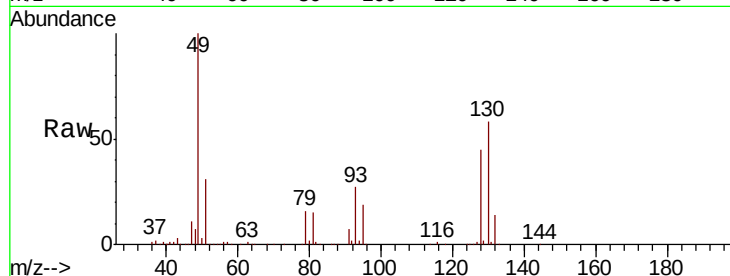
128 46.3 23.6 71.0

130 59.0 30.3 91.0

Manual Integrations
APPROVED

MMDadoda

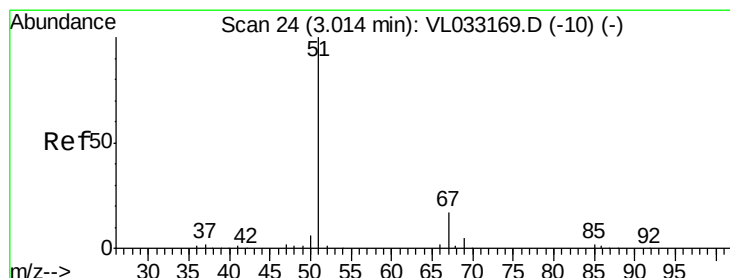
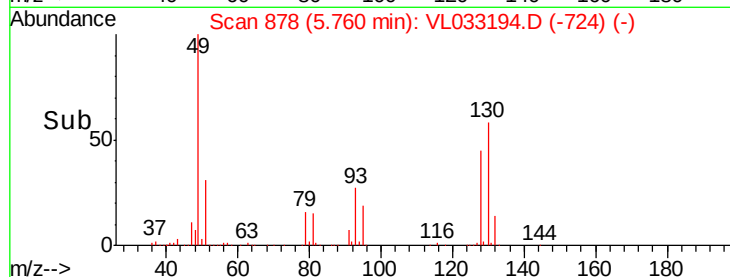
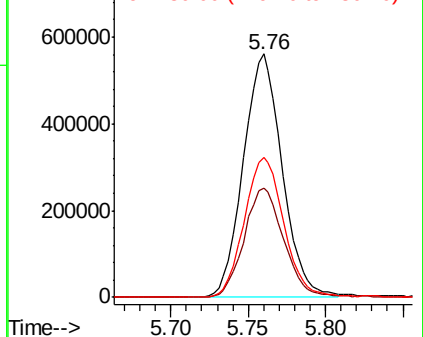
2/20/2019 12:24:11 PM



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



#3

Chlorodifluoromethane

Concen: 71.903 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033194.D

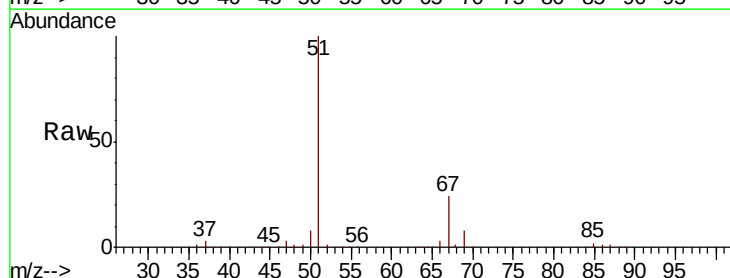
Acq: 13 Feb 2019 19:45

Tgt Ion: 51 Resp: 8510450

Ion Ratio Lower Upper

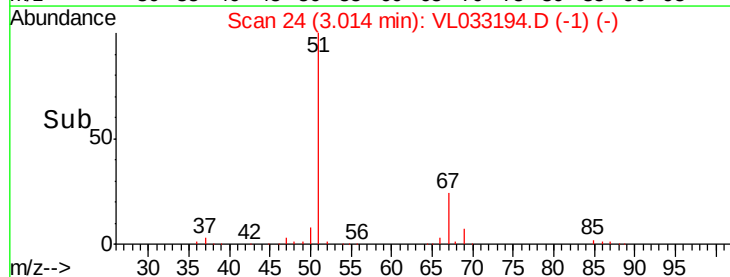
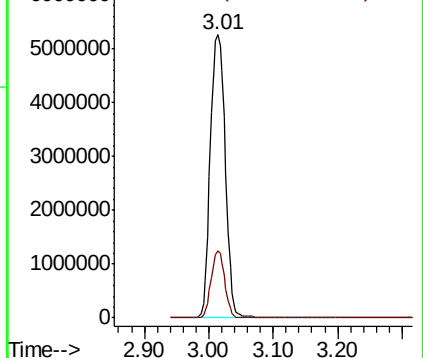
51 100

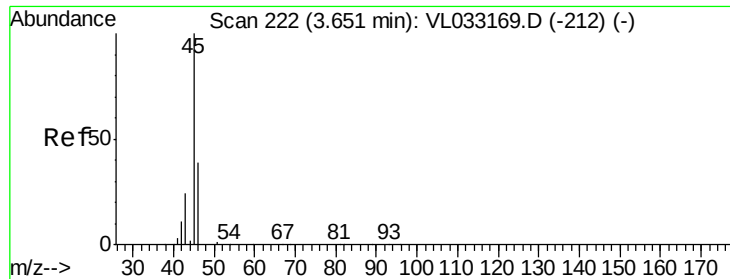
67 21.4 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#13

Ethanol

Concen: 10.663 ppbv m

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033194.D

Acq: 13 Feb 2019 19:45

Instrument :

MSVOA_L

ClientSampleId :

FM-IADL

Tgt Ion: 45 Resp: 207191

Ion Ratio Lower Upper

45 100

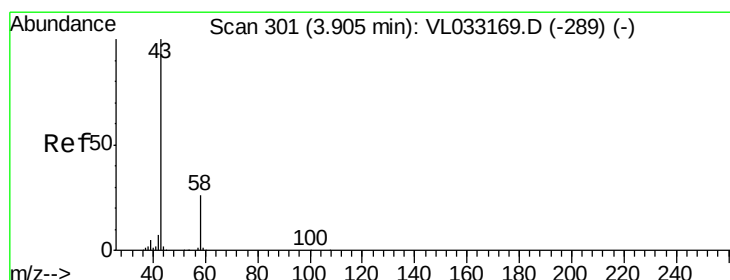
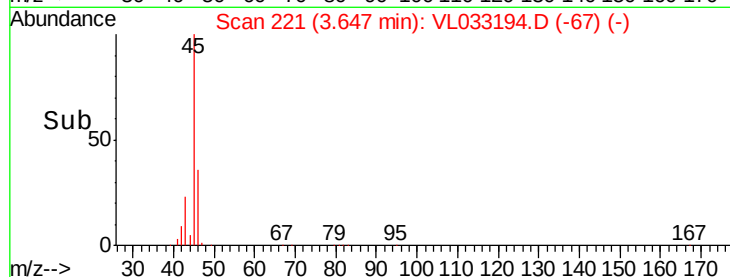
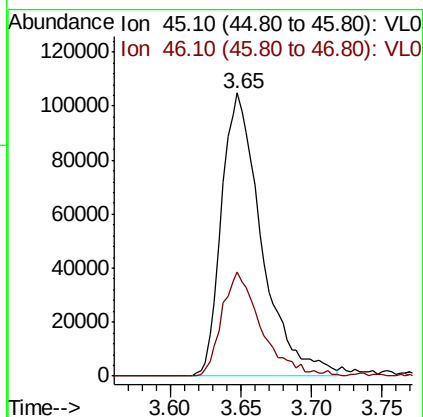
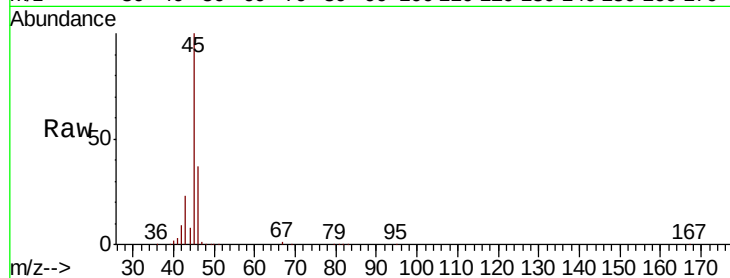
46 36.2 15.0 60.2

Manual Integrations

APPROVED

MMDadoda

2/20/2019 12:24:11 PM



#15

Acetone

Concen: 2.907 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL033194.D

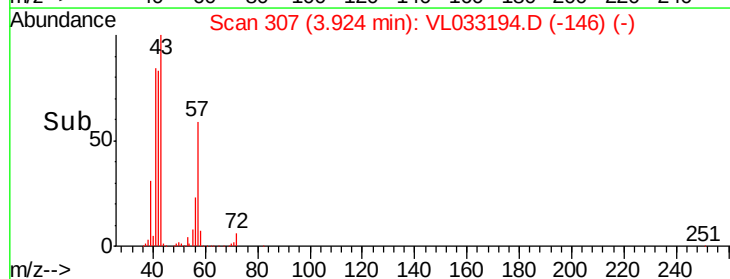
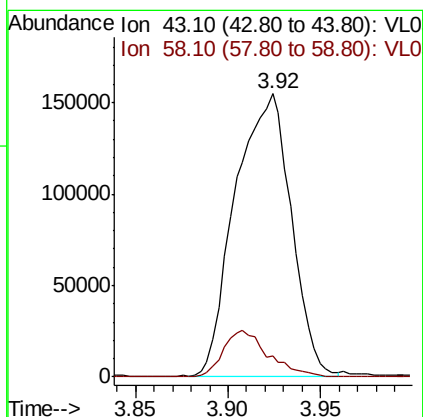
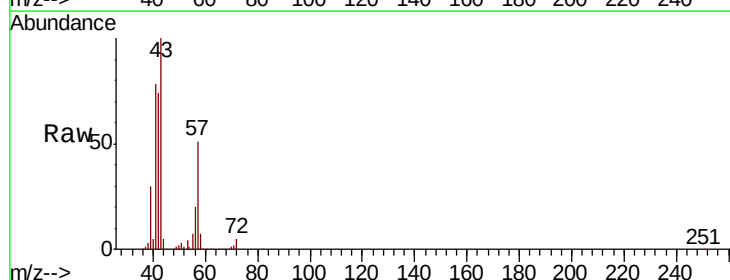
Acq: 13 Feb 2019 19:45

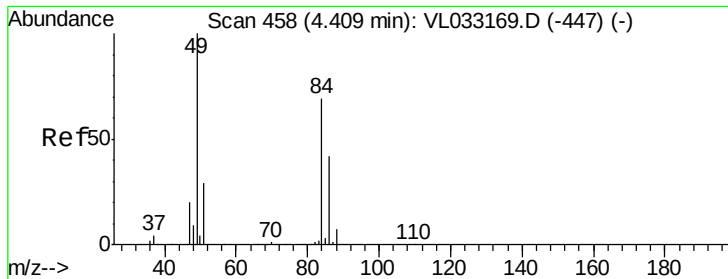
Tgt Ion: 43 Resp: 321919

Ion Ratio Lower Upper

43 100

58 13.4 21.1 31.7#





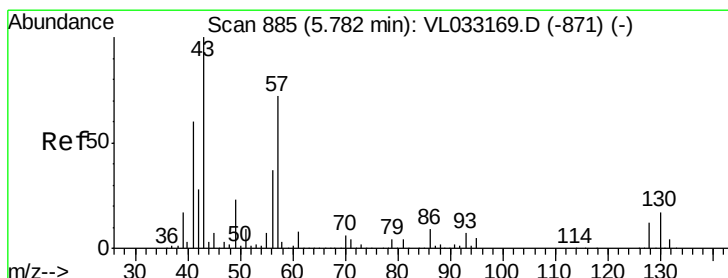
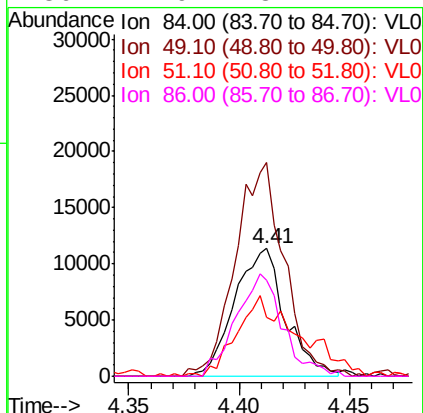
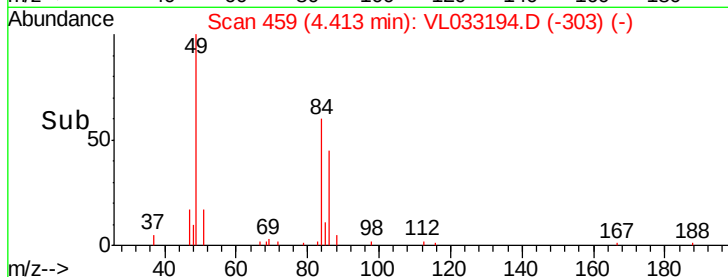
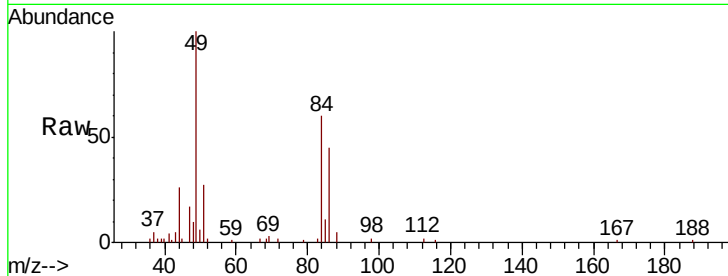
#20
Methylene Chloride
Concen: 0.414 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033194.D
Acq: 13 Feb 2019 19:45

Instrument :
MSVOA_L
ClientSampleId :
FM-IADL

Tgt Ion	Ratio	Lower	Upper
84	100		
49	162.2	115.8	173.8
51	43.9	33.0	49.6
86	74.9	48.2	72.2#

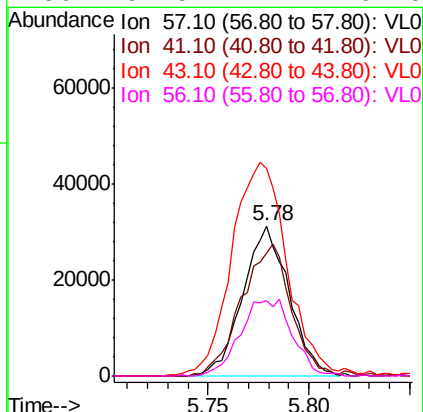
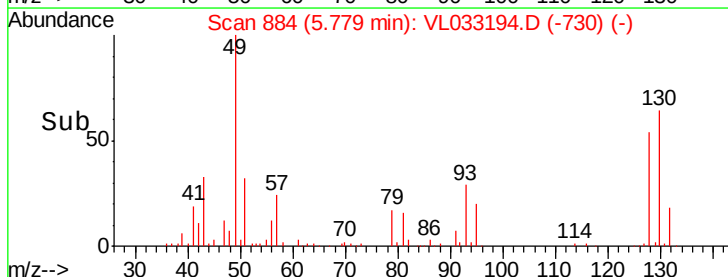
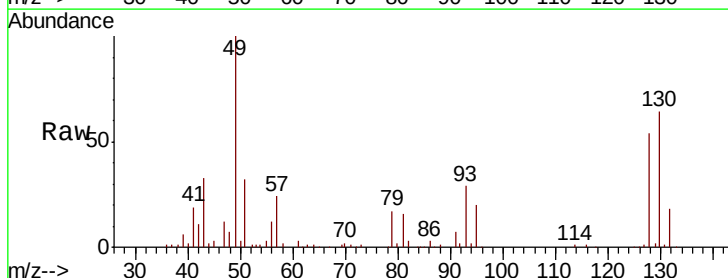
Manual Integrations
APPROVED

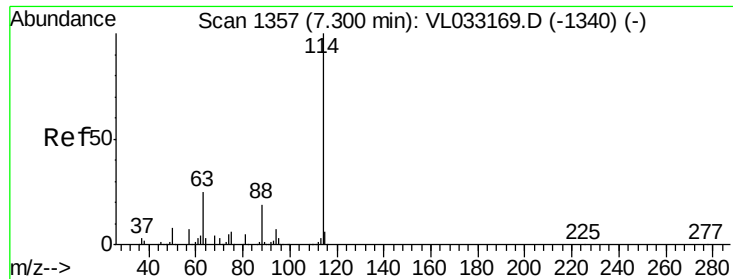
MMDadoda
2/20/2019 12:24:11 PM



#26
Hexane
Concen: 0.429 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033194.D
Acq: 13 Feb 2019 19:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.3	69.4	104.2
43	173.6	176.7	265.1#
56	57.5	41.4	62.0





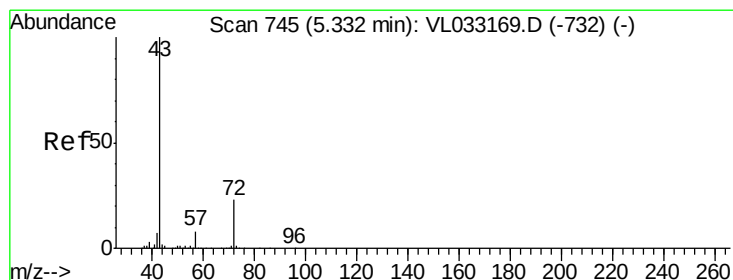
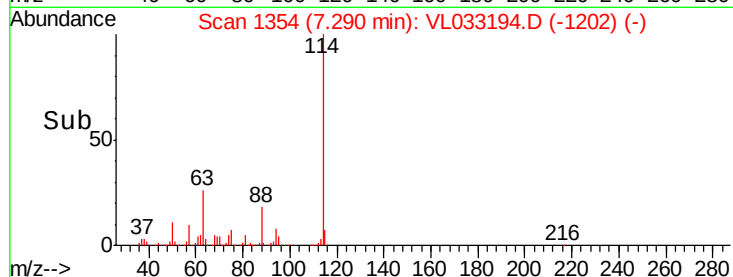
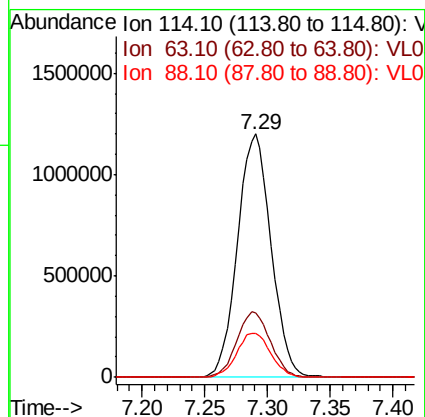
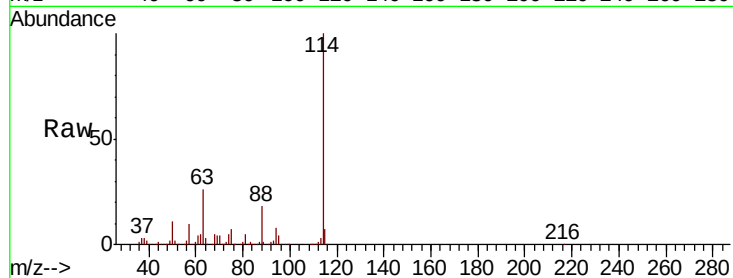
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033194.D
 Acq: 13 Feb 2019 19:45

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-IADL

Tgt Ion: 114 Resp: 2238278
 Ion Ratio Lower Upper
 114 100
 63 26.8 20.8 31.2
 88 18.4 14.6 22.0

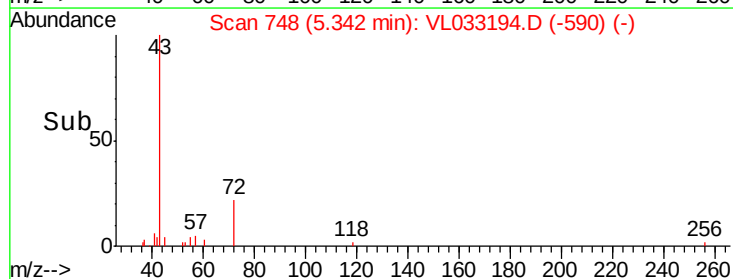
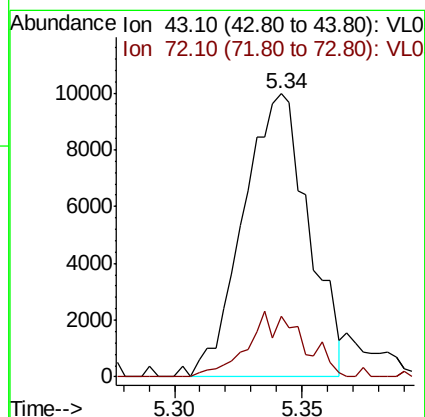
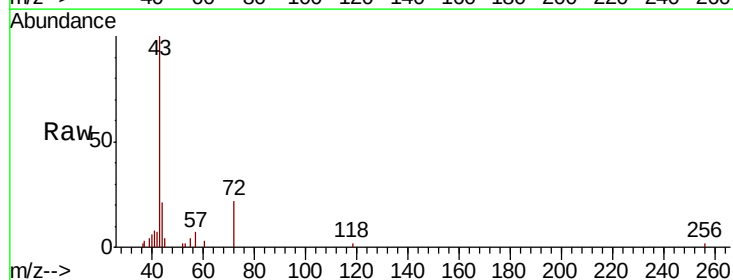
Manual Integrations
 APPROVED

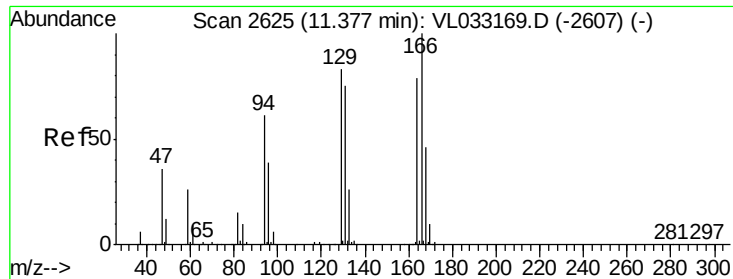
MMDadoda
 2/20/2019 12:24:11 PM



#34
 2-Butanone
 Concen: 0.124 ppbv m
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033194.D
 Acq: 13 Feb 2019 19:45

Tgt Ion: 43 Resp: 17661
 Ion Ratio Lower Upper
 43 100
 72 20.0 17.8 26.6





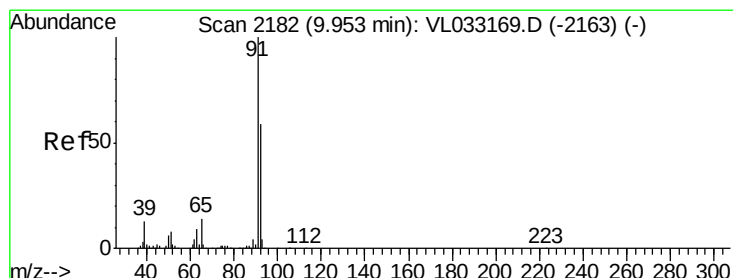
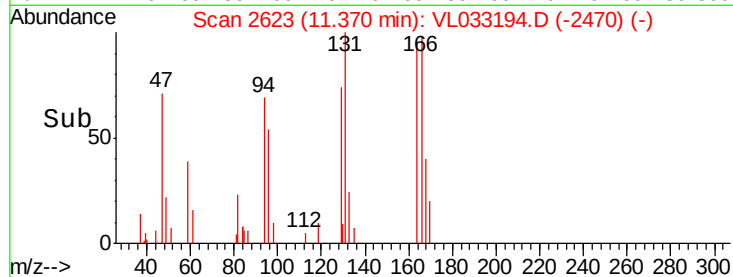
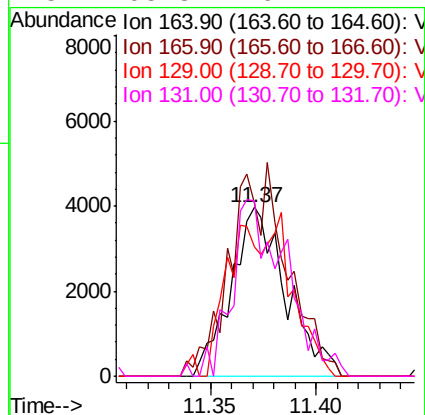
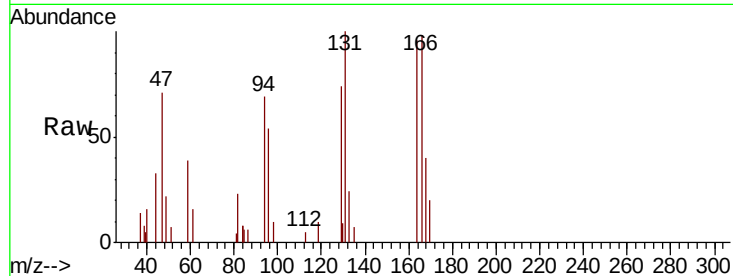
#52
Tetrachloroethene
Concen: 0.083 ppbv m
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033194.D
Acq: 13 Feb 2019 19:45

Instrument :
MSVOA_L
ClientSampleId :
FM-IADL

Tgt Ion:	164	Resp:	7242
Ion Ratio	Lower	Upper	
164	100		
166	102.1	100.9	151.3
129	76.6	83.9	125.9
131	103.8	76.2	114.2

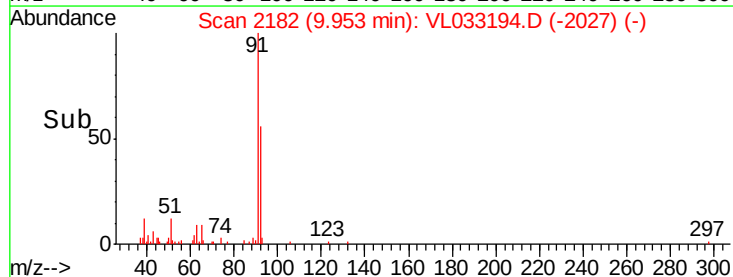
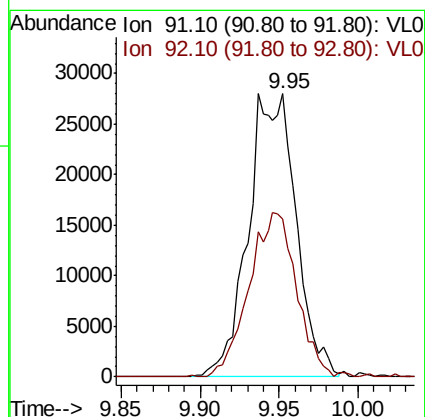
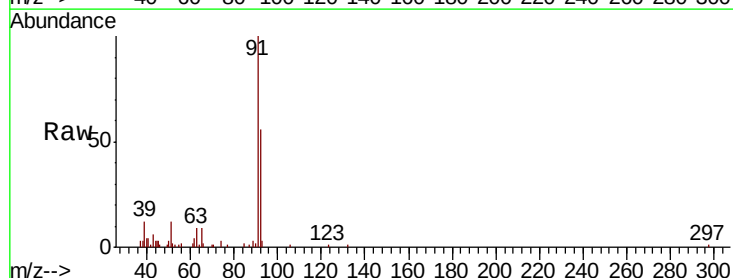
Manual Integrations
APPROVED

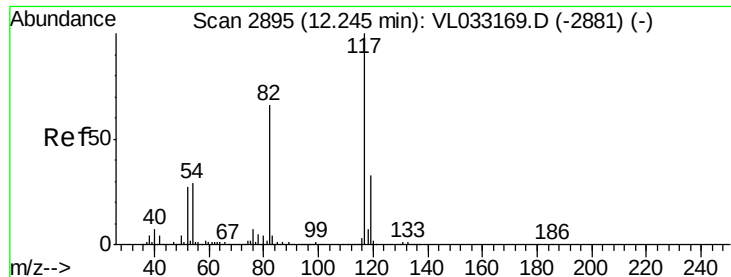
MMDadoda
2/20/2019 12:24:11 PM



#53
Toluene
Concen: 0.221 ppbv m
RT: 9.95 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VL033194.D
Acq: 13 Feb 2019 19:45

Tgt Ion:	91	Resp:	59442
Ion Ratio	Lower	Upper	
91	100		
92	0.0	48.0	72.0





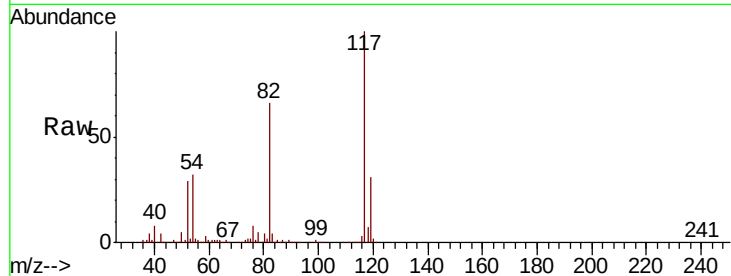
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033194.D
Acq: 13 Feb 2019 19:45

Instrument :
MSVOA_L
ClientSampled :
FM-IADL

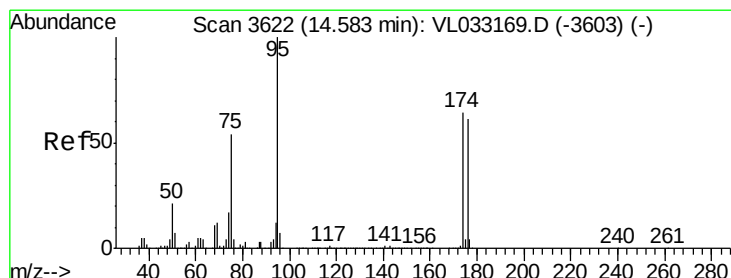
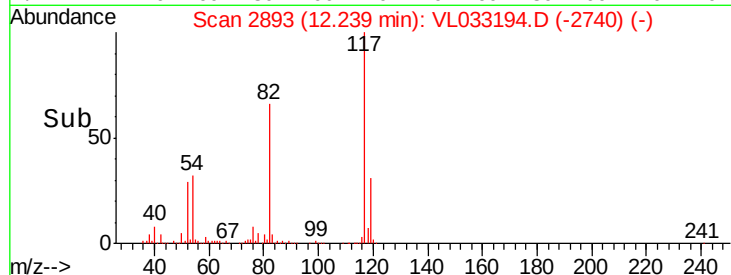
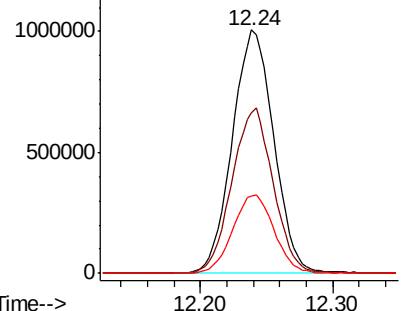
Tgt Ion: 117 Resp: 2185639
Ion Ratio Lower Upper
117 100
82 67.8 53.8 80.8
119 32.5 46.9 70.3#

Manual Integrations
APPROVED

MMDadoda
2/20/2019 12:24:11 PM

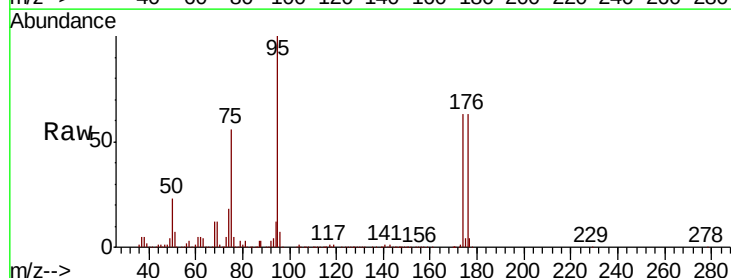


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.318 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033194.D
Acq: 13 Feb 2019 19:45

Tgt Ion: 95 Resp: 1757430
Ion Ratio Lower Upper
95 100
174 63.7 51.1 76.7
175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

