

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032313.D
 Acq On : 27 Jul 2018 3:16
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:00 AM

Quant Time: Jul 27 07:03:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	2155541	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	5202504	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5145594	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	4064988	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.34	62	11781m	0.09	ppbv	
32) 1,1,1-Trichloroethane	6.69	97	23789	0.07	ppbv	91
35) Carbon Tetrachloride	7.21	117	24950m	0.07	ppbv	
38) Trichloroethene	8.04	130	14289	0.08	ppbv #	69
52) Tetrachloroethene	11.46	164	13126m	0.07	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.93	83	43479m	0.08	ppbv	

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

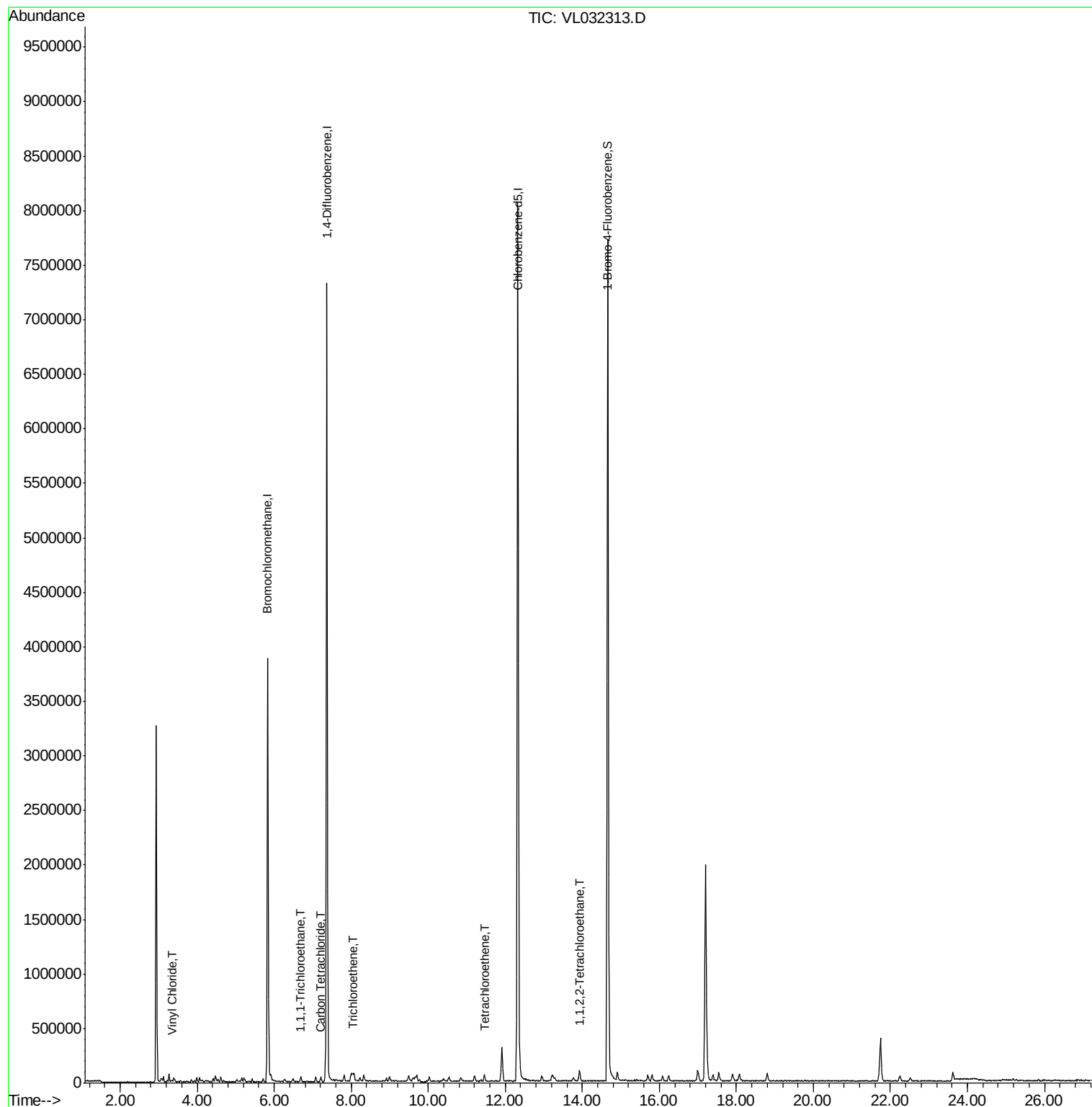
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072718\
Data File : VL032313.D
Acq On : 27 Jul 2018 3:16
Operator : SY/AP
Sample : VSTDICC0.1
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

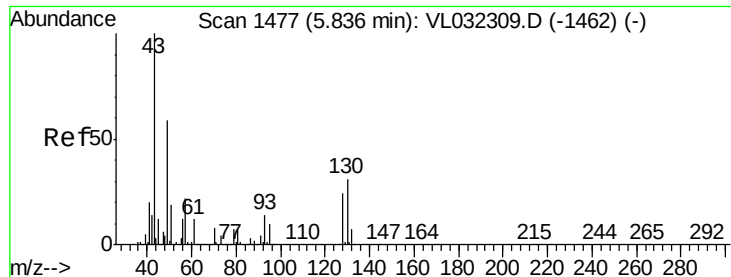
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

MMDadoda
7/30/2018 11:43:00 AM

Quant Time: Jul 27 07:03:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 27 05:29:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 2155541

Ion Ratio Lower Upper

49 100

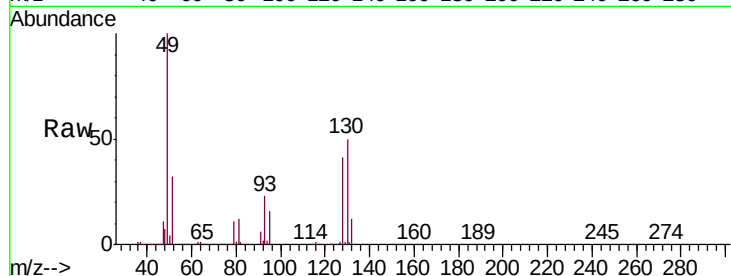
128 40.0 20.2 60.6

130 51.2 25.8 77.3

Manual Integrations
APPROVED

MMDadoda

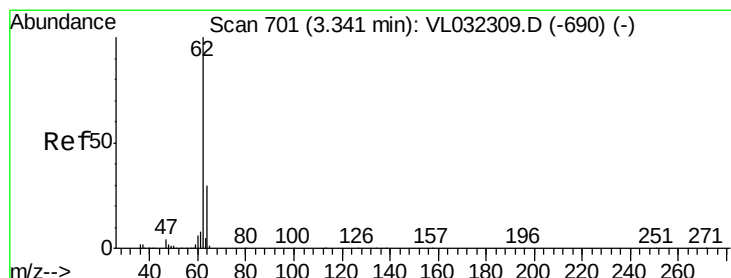
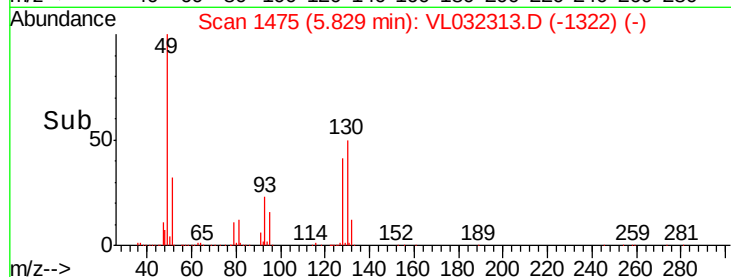
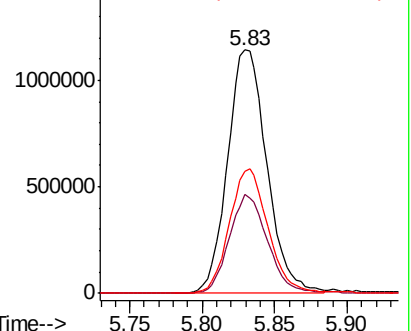
7/30/2018 11:43:00 AM



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



#5

Vinyl Chloride

Concen: 0.09 ppbv m

RT: 3.34 min Scan# 700

Delta R.T. -0.00 min

Lab File: VL032313.D

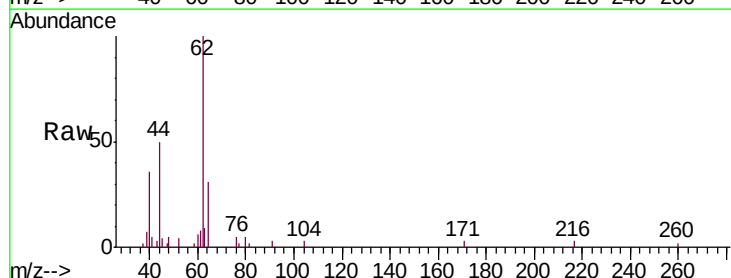
Acq: 27 Jul 2018 3:16

Tgt Ion: 62 Resp: 11781

Ion Ratio Lower Upper

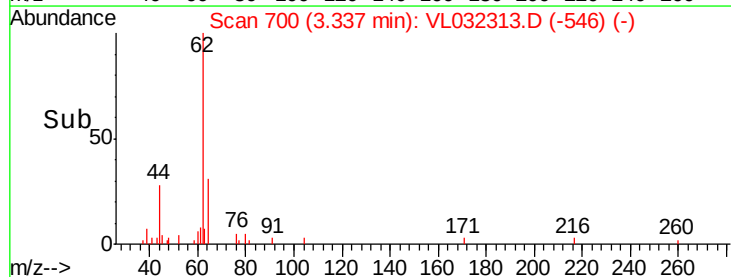
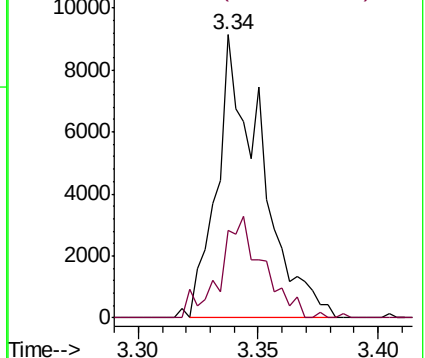
62 100

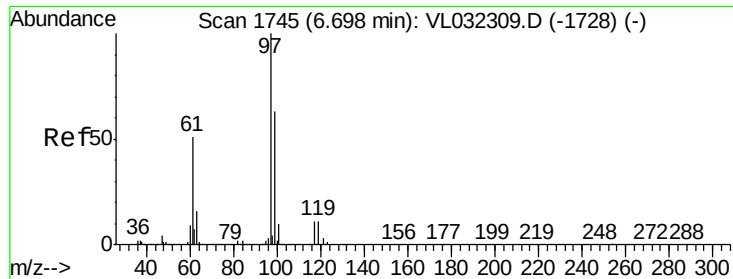
64 31.0 24.1 36.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.07 ppbv

RT: 6.69 min Scan# 1743

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

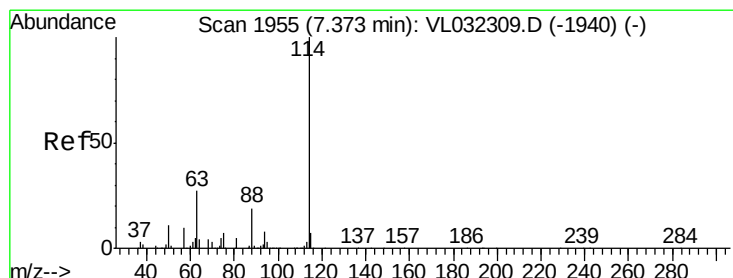
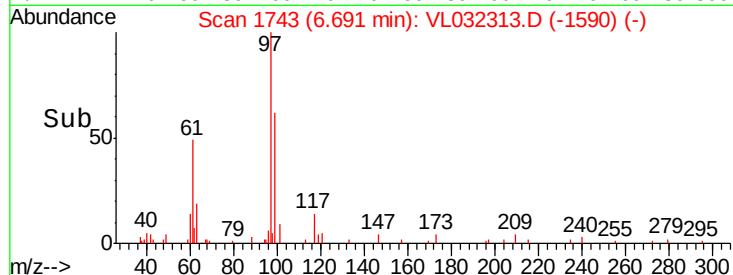
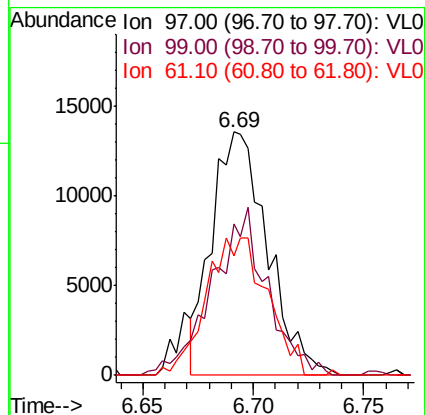
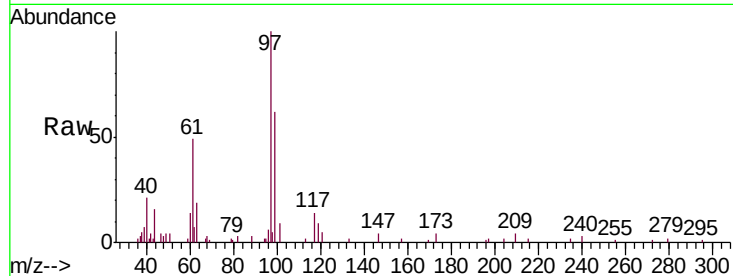
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	23789
Ion	Ratio	Lower	Upper
97	100		
99	67.5	50.9	76.3
61	62.4	41.8	62.6

Manual Integrations
APPROVED

MMDadoda
7/30/2018 11:43:00 AM



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

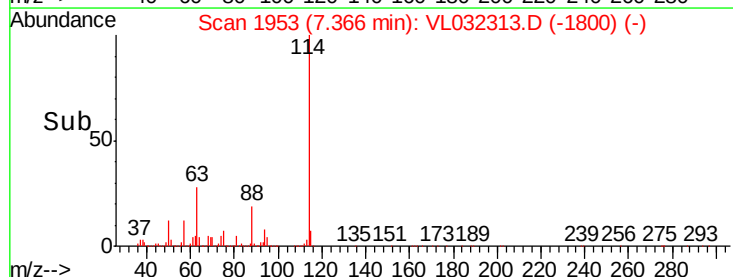
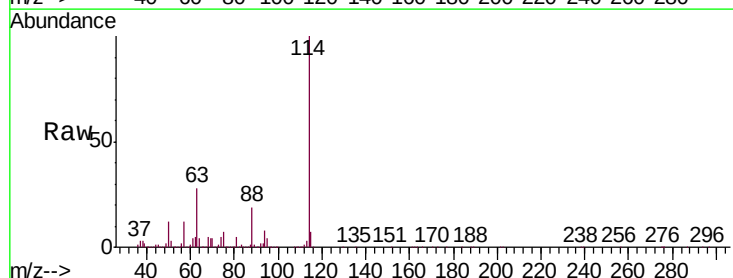
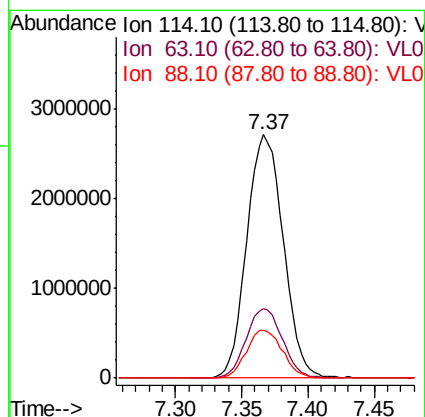
RT: 7.37 min Scan# 1953

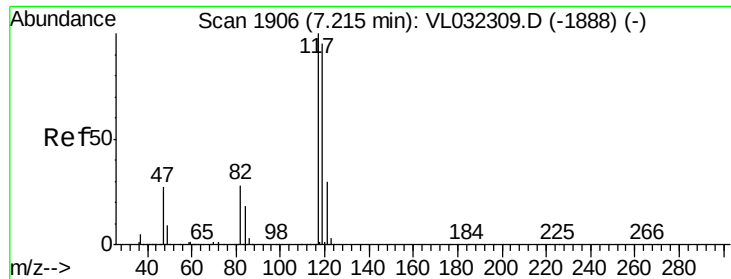
Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion:	114	Resp:	5202504
Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.4	33.6
88	19.5	15.3	22.9





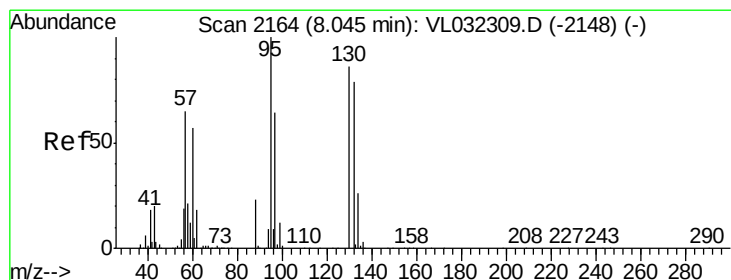
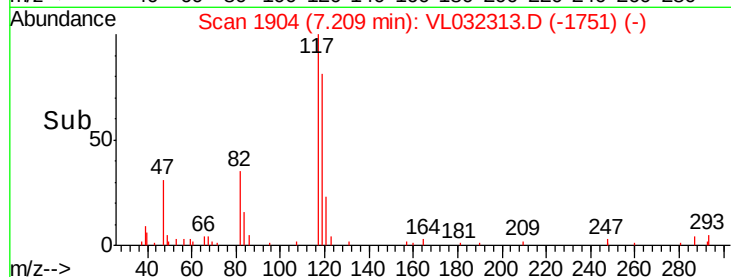
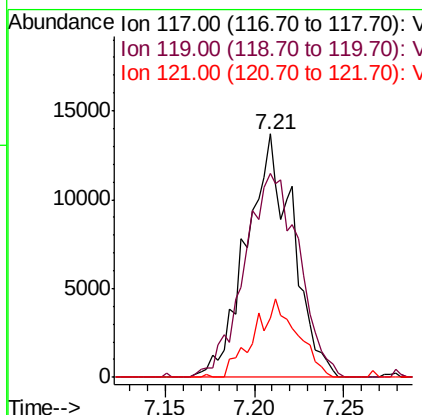
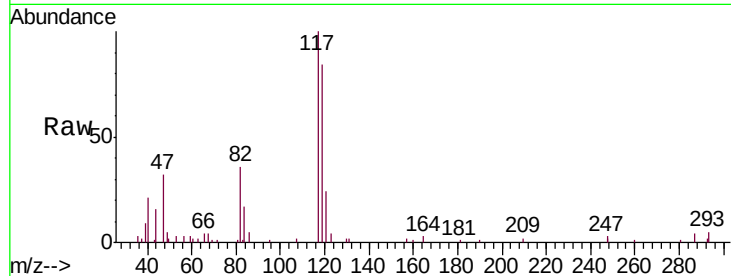
#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.21 min Scan# 1904
Delta R.T. -0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.7	76.1	114.1
121	24.1	24.4	36.6#

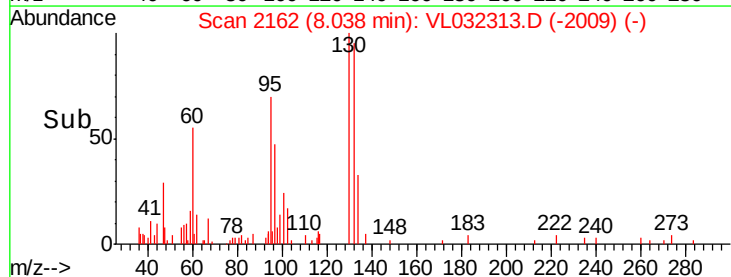
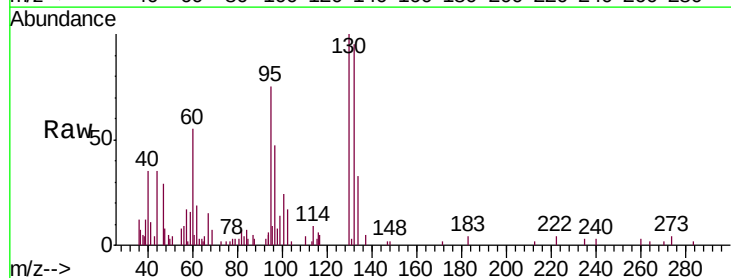
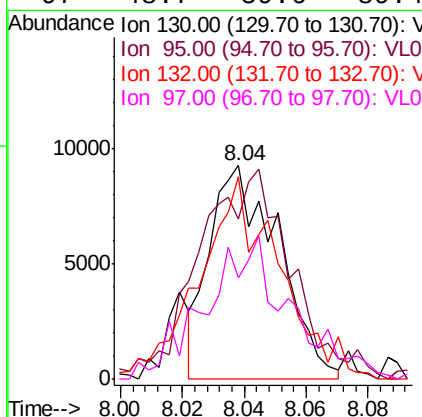
Manual Integrations
APPROVED

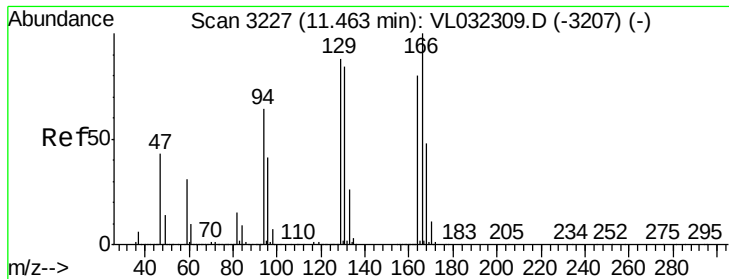
MMDadoda
7/30/2018 11:43:00 AM



#38
Trichloroethene
Concen: 0.08 ppbv
RT: 8.04 min Scan# 2162
Delta R.T. -0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	68.2	92.9	139.3#
132	77.9	73.0	109.4
97	48.7	59.6	89.4#





#52

Tetrachloroethene

Concen: 0.07 ppbv m

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 13126

Ion Ratio Lower Upper

164 100

166 97.7 100.0 150.0#

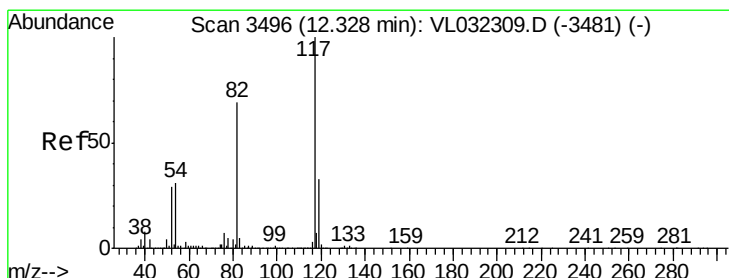
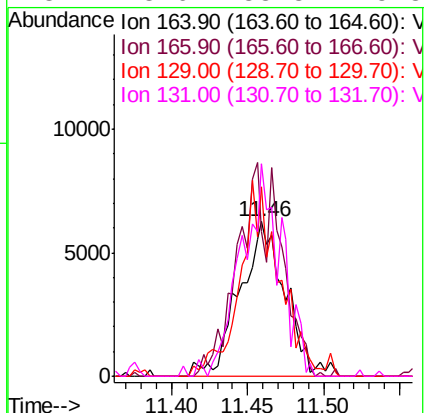
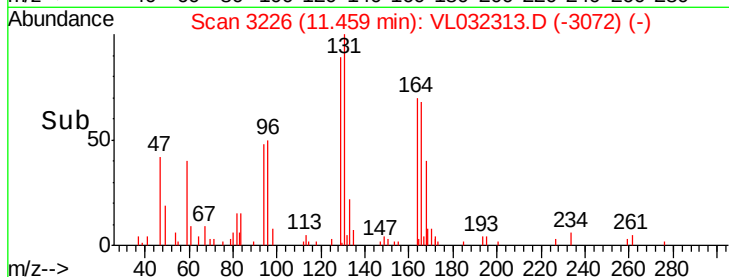
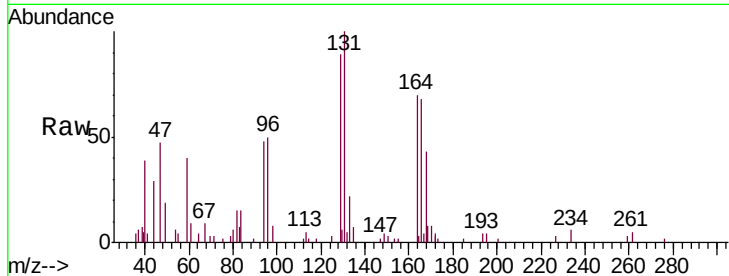
129 128.3 87.9 131.9

131 143.6 83.8 125.8#

Manual Integrations
APPROVED

MMDadoda

7/30/2018 11:43:00 AM



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

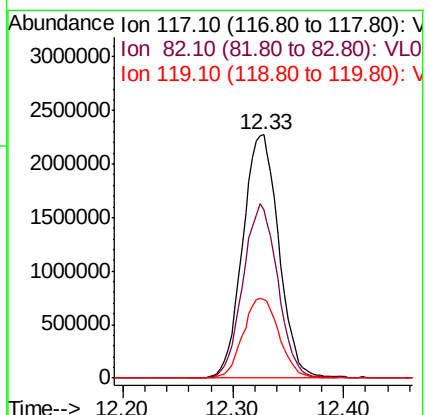
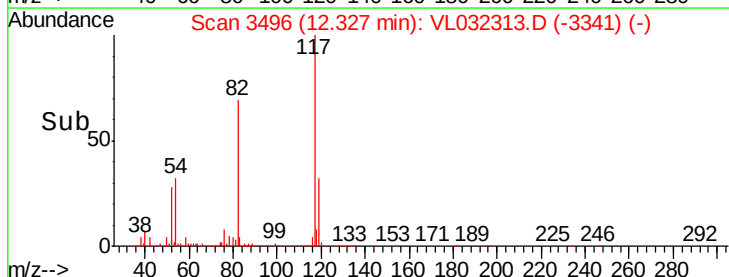
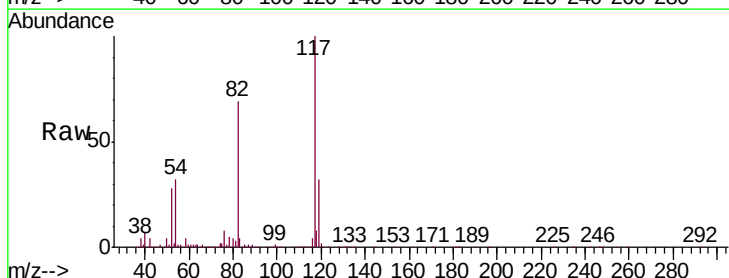
Tgt Ion:117 Resp: 5145594

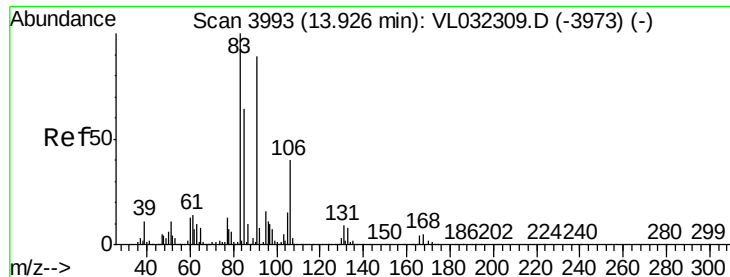
Ion Ratio Lower Upper

117 100

82 69.6 52.6 78.8

119 33.0 25.7 38.5





#63

1,1,2,2-Tetrachloroethane

Concen: 0.08 ppbv m

RT: 13.93 min Scan# 3993

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

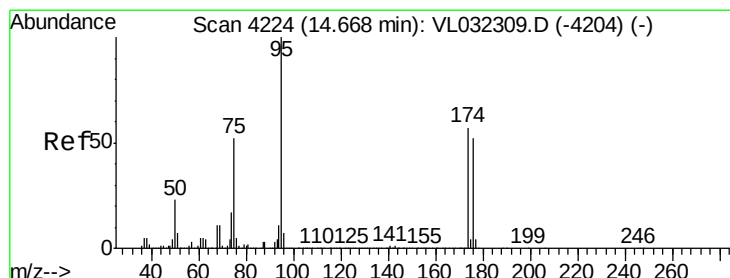
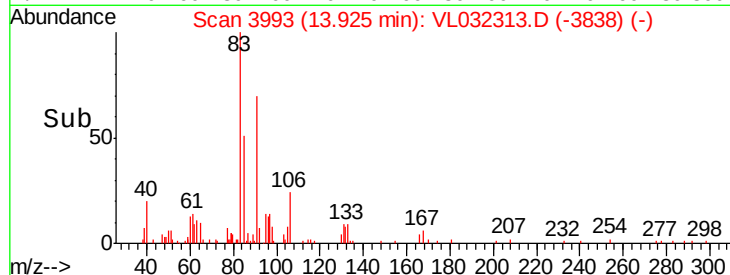
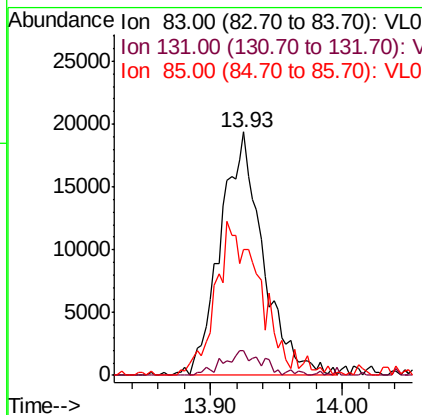
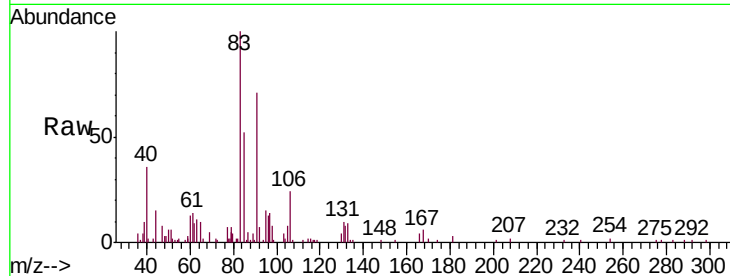
ClientSampled :

VSTDIC0.1

Tot Ion:	83	Resp:	43479
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.3	12.8
85	0.0	32.6	97.7#

Manual Integrations
APPROVED

MMDadoda
7/30/2018 11:43:00 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.87 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion:	95	Resp:	4064988
Ion Ratio	Lower	Upper	
95	100		
174	56.3	45.5	68.3
175	3.9	3.3	4.9

