

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033878.D
 Acq On : 7 Jun 2019 4:36
 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
 6/11/2019 9:18:31 AM

Quant Time: Jun 07 06:32:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	947915	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2178840	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2184561	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1848857	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	5078m	0.080	ppbv	
32) 1,1,1-Trichloroethane	6.60	97	14118m	0.077	ppbv	
35) Carbon Tetrachloride	7.12	117	16459	0.094	ppbv	# 85
38) Trichloroethene	7.95	130	5051m	0.068	ppbv	
52) Tetrachloroethene	11.36	164	4256m	0.061	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.82	83	15770m	0.085	ppbv	

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

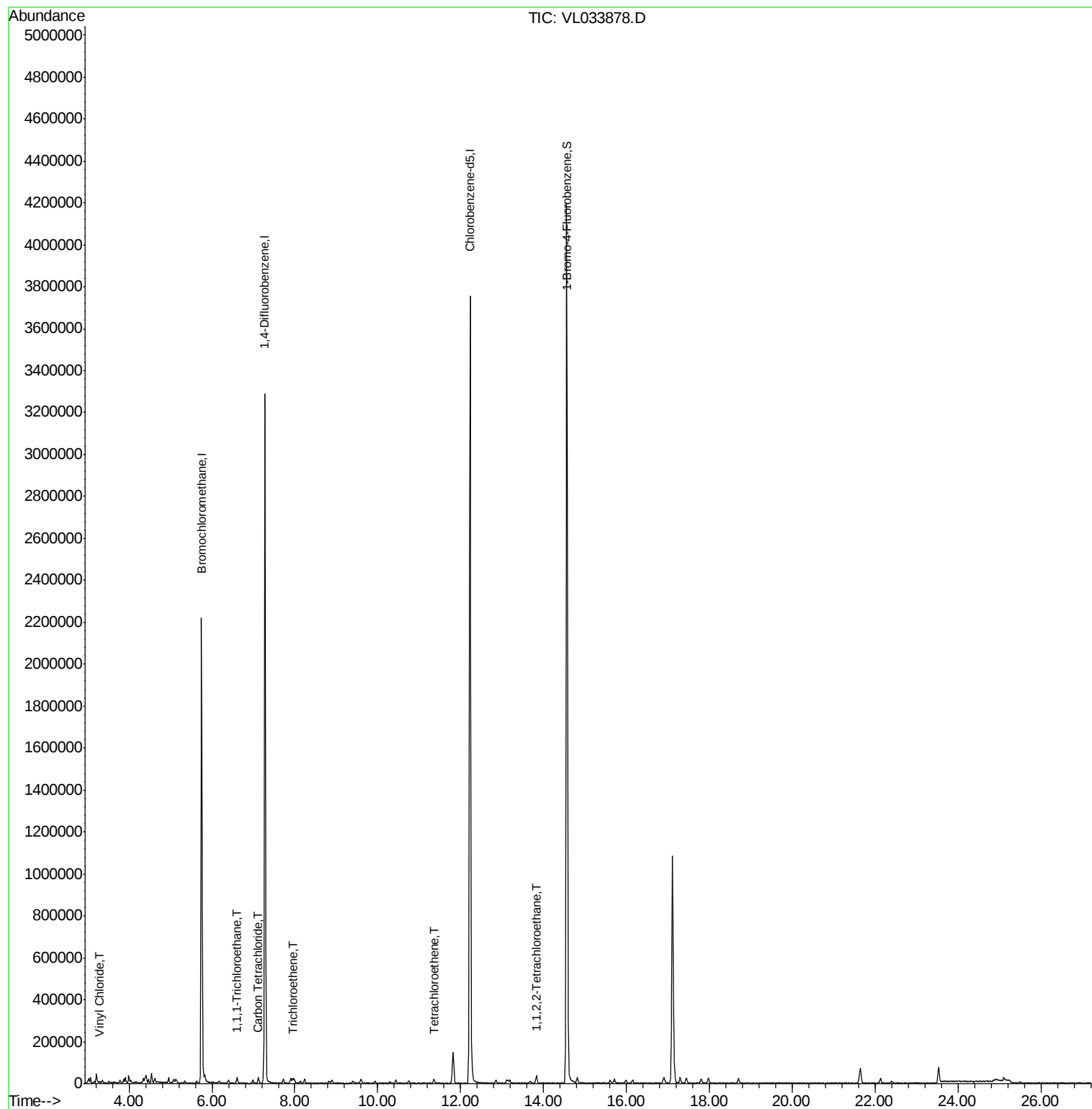
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060719\
Data File : VL033878.D
Acq On : 7 Jun 2019 4:36
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

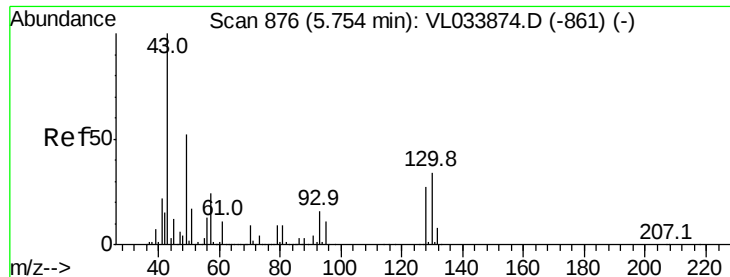
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:31 AM

Quant Time: Jun 07 06:32:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 05:42:58 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 947915

Ion Ratio Lower Upper

49 100

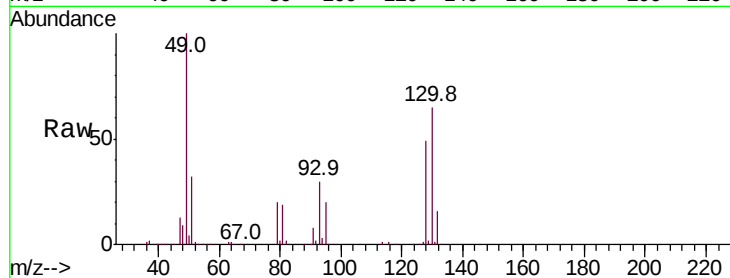
128 50.3 25.5 76.5

130 64.6 32.5 97.4

Manual Integrations
APPROVED

MMDadoda

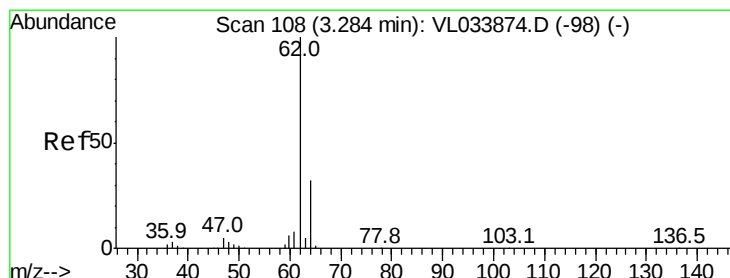
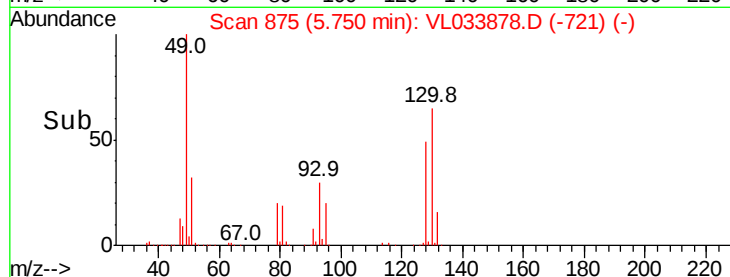
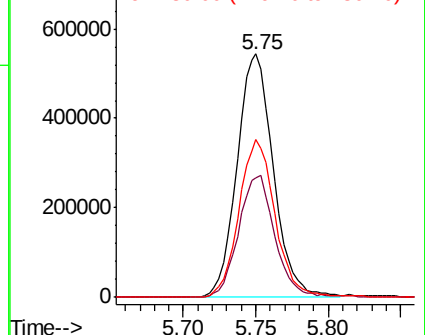
6/11/2019 9:18:31 AM



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



#5

Vinyl Chloride

Concen: 0.080 ppbv m

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033878.D

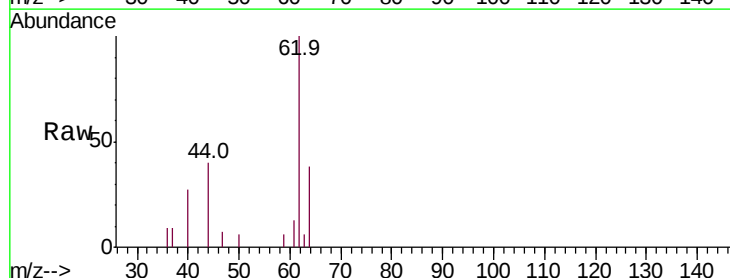
Acq: 7 Jun 2019 4:36

Tgt Ion: 62 Resp: 5078

Ion Ratio Lower Upper

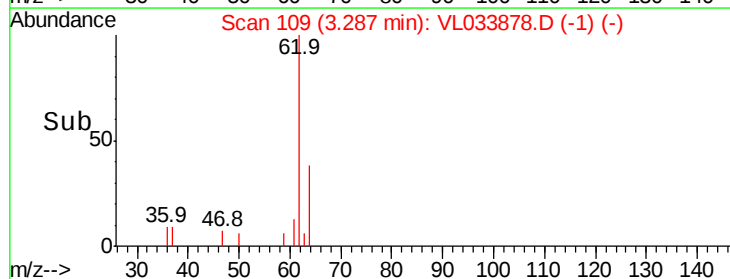
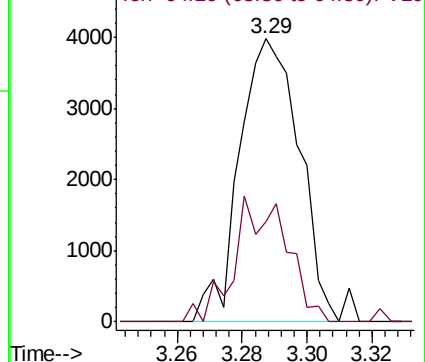
62 100

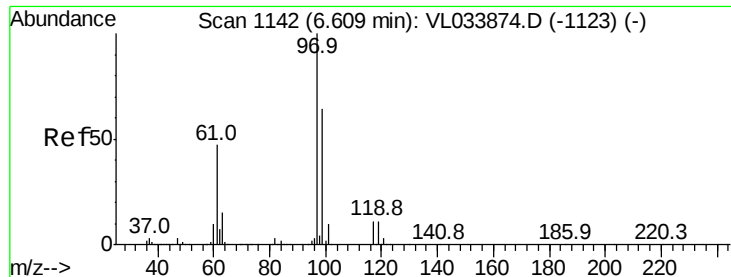
64 37.8 25.2 37.8



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: 0.077 ppbv m

RT: 6.60 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

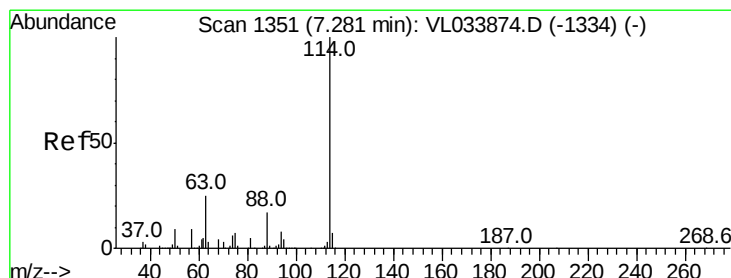
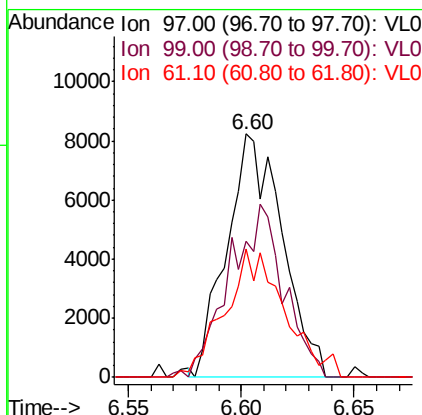
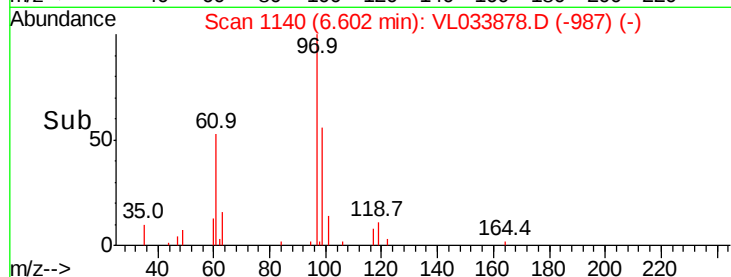
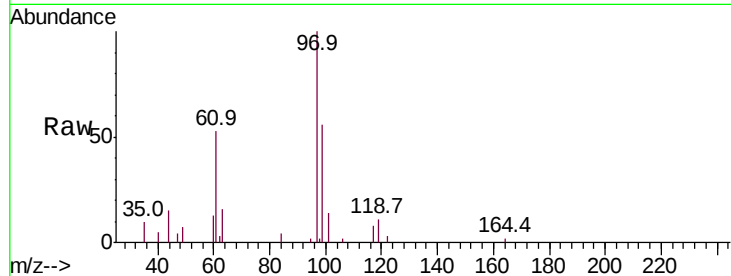
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	14118
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.7	77.5#
61	56.2	37.7	56.5

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:31 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

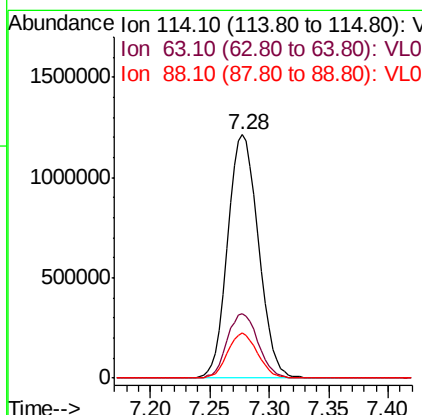
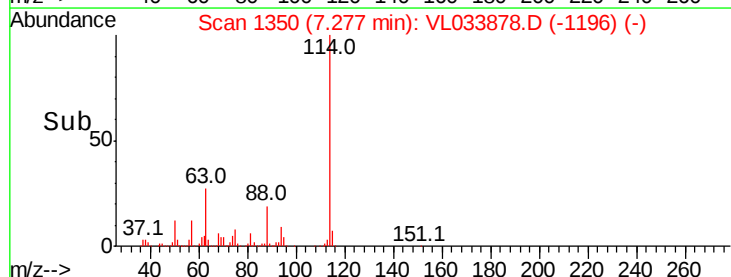
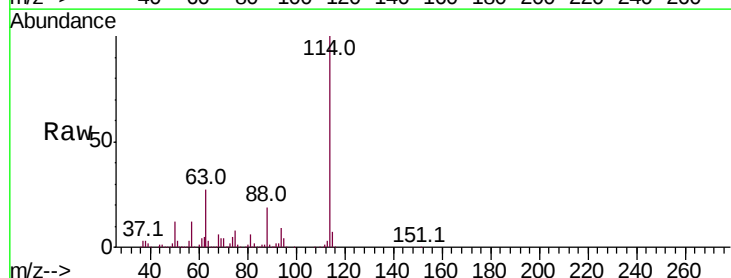
RT: 7.28 min Scan# 1350

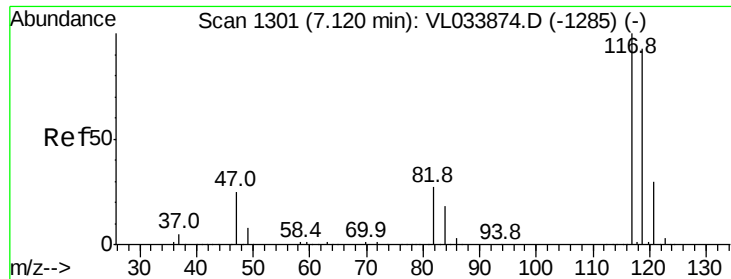
Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Tgt Ion:	114	Resp:	2178840
Ion Ratio	Lower	Upper	
114	100		
63	26.8	21.1	31.7
88	18.0	14.2	21.4





#35

Carbon Tetrachloride

Concen: 0.094 ppbv

RT: 7.12 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

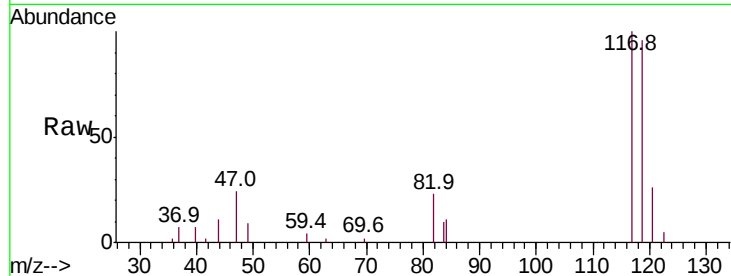
ClientSampleId :

VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.6	74.6	111.8
121	0.0	24.0	36.0#

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:31 AM

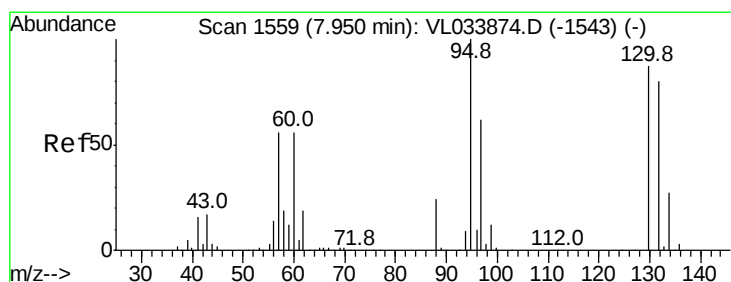
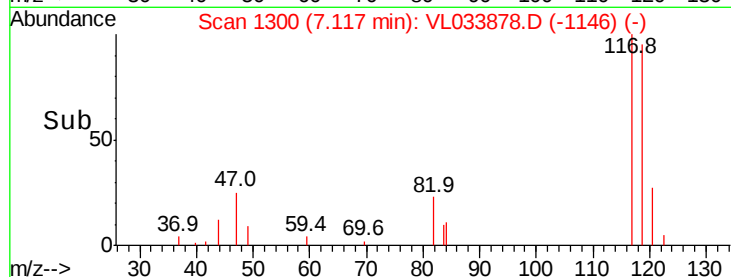
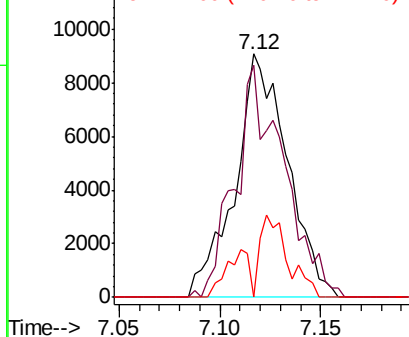


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.068 ppbv m

RT: 7.95 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	61.4	92.0	138.0#
132	68.8	73.8	110.8#
97	82.9	57.2	85.8

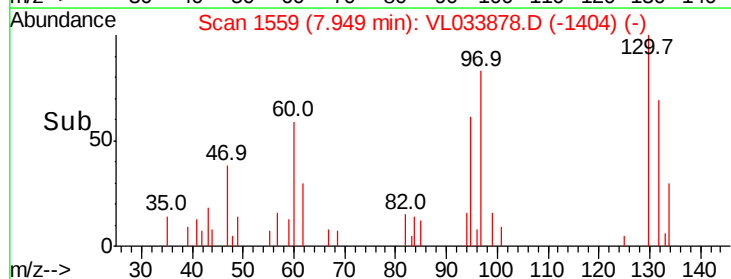
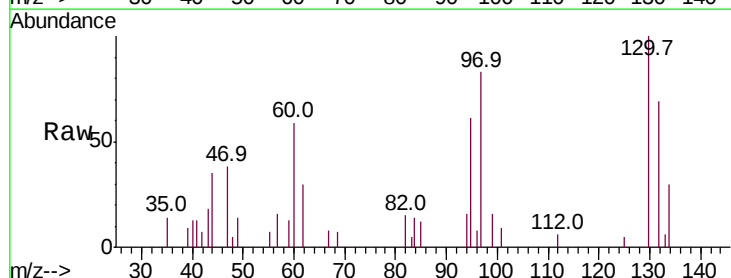
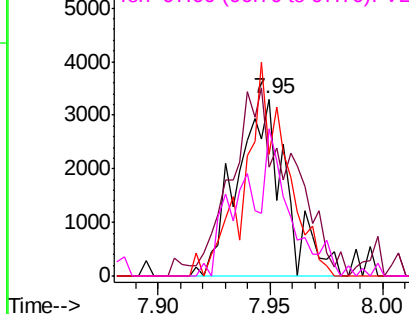
Abundance

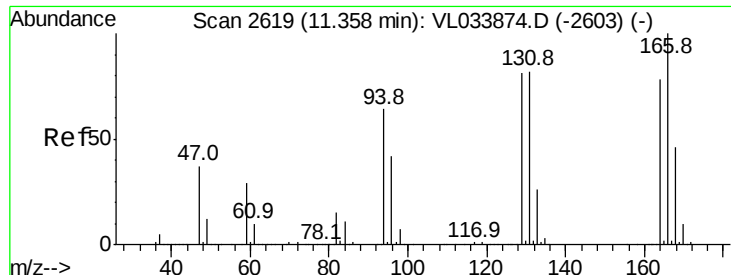
Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): V





#52

Tetrachloroethene

Concen: 0.061 ppbv m

RT: 11.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 4256

Ion Ratio Lower Upper

164 100

166 152.5 103.1 154.7

129 103.6 83.9 125.9

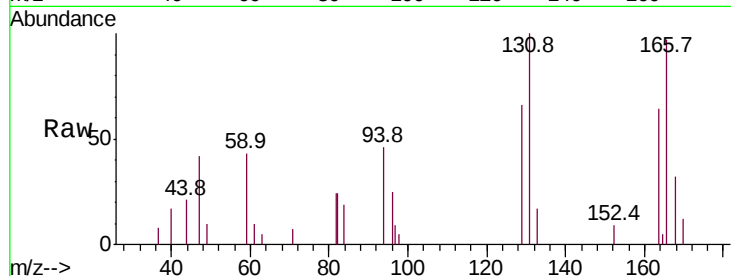
131 156.5 85.1 127.7#

Manual Integrations

APPROVED

MMDadoda

6/11/2019 9:18:31 AM

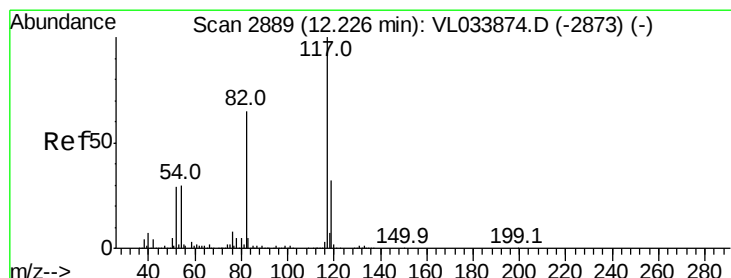
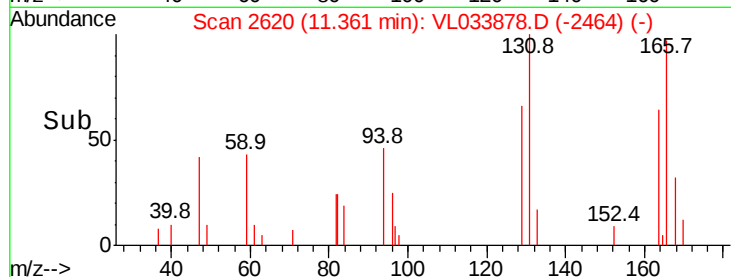
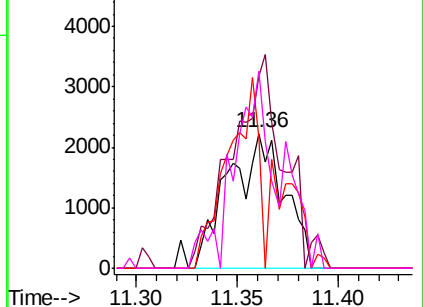


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

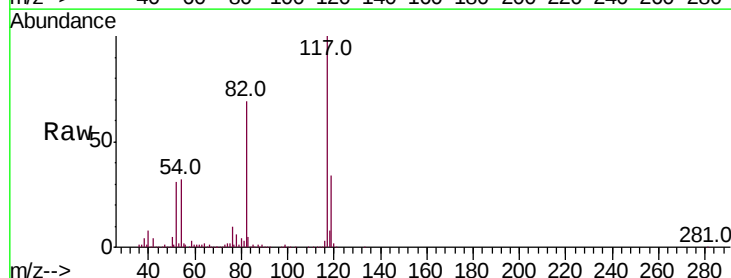
Tgt Ion:117 Resp: 2184561

Ion Ratio Lower Upper

117 100

82 67.9 50.2 75.2

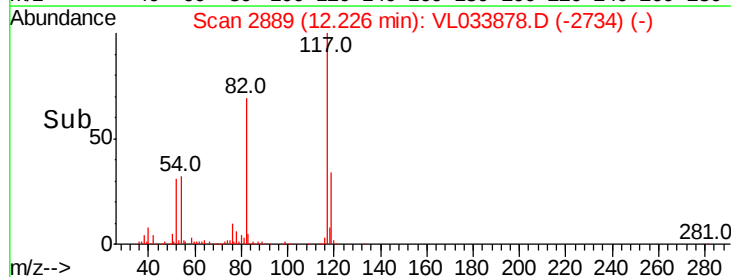
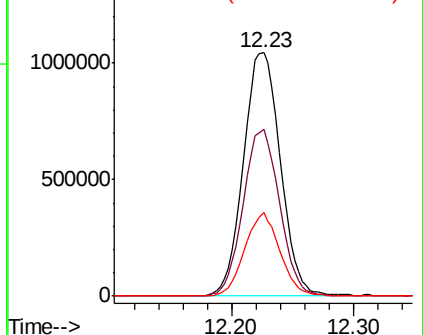
119 32.7 24.8 37.2

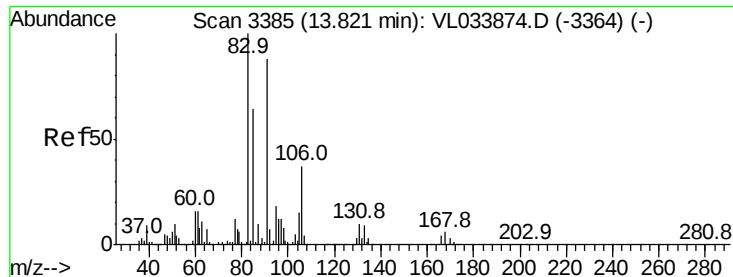


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.085 ppbv m

RT: 13.82 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Instrument :

MSVOA_L

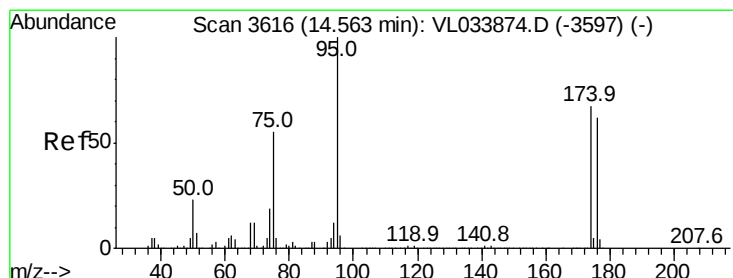
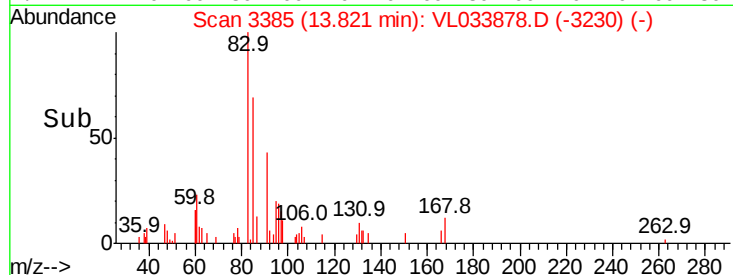
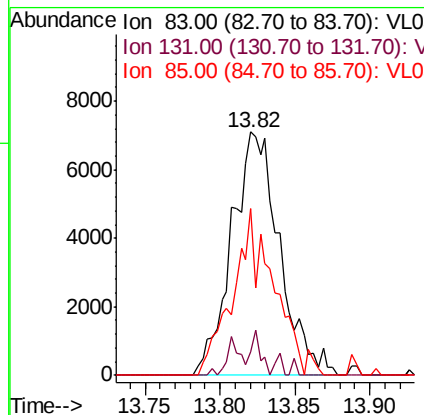
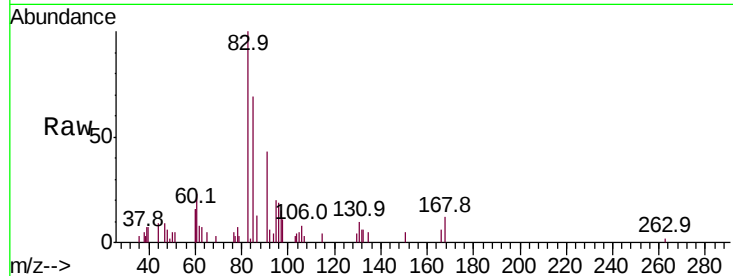
ClientSampleId :

VSTDIC0.1

Tot Ion:	83	Resp:	15770
Ion Ratio	Lower	Upper	
83	100		
131	9.1	4.8	14.4
85	59.0	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:31 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.461 ppbv

RT: 14.56 min Scan# 3615

Delta R.T. -0.00 min

Lab File: VL033878.D

Acq: 7 Jun 2019 4:36

Tgt Ion:	95	Resp:	1848857
Ion Ratio	Lower	Upper	
95	100		
174	65.7	54.0	81.0
175	4.7	3.8	5.8

