

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036318.D
 Acq On : 10 Feb 2021 14:01
 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
 2/12/2021 1:41:59 PM

Quant Time: Feb 10 15:34:41 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 15:34:41 2021
 QLast Update : Wed Feb 10 13:51:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1540814	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3387279	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3025221	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2535690	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.24	62	7310m	0.083	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	21000m	0.096	ppbv	
35) Carbon Tetrachloride	7.00	117	22331m	0.104	ppbv	
38) Trichloroethene	7.80	130	10687m	0.093	ppbv	
52) Tetrachloroethene	11.20	164	11155m	0.098	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.65	83	26186m	0.095	ppbv	

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

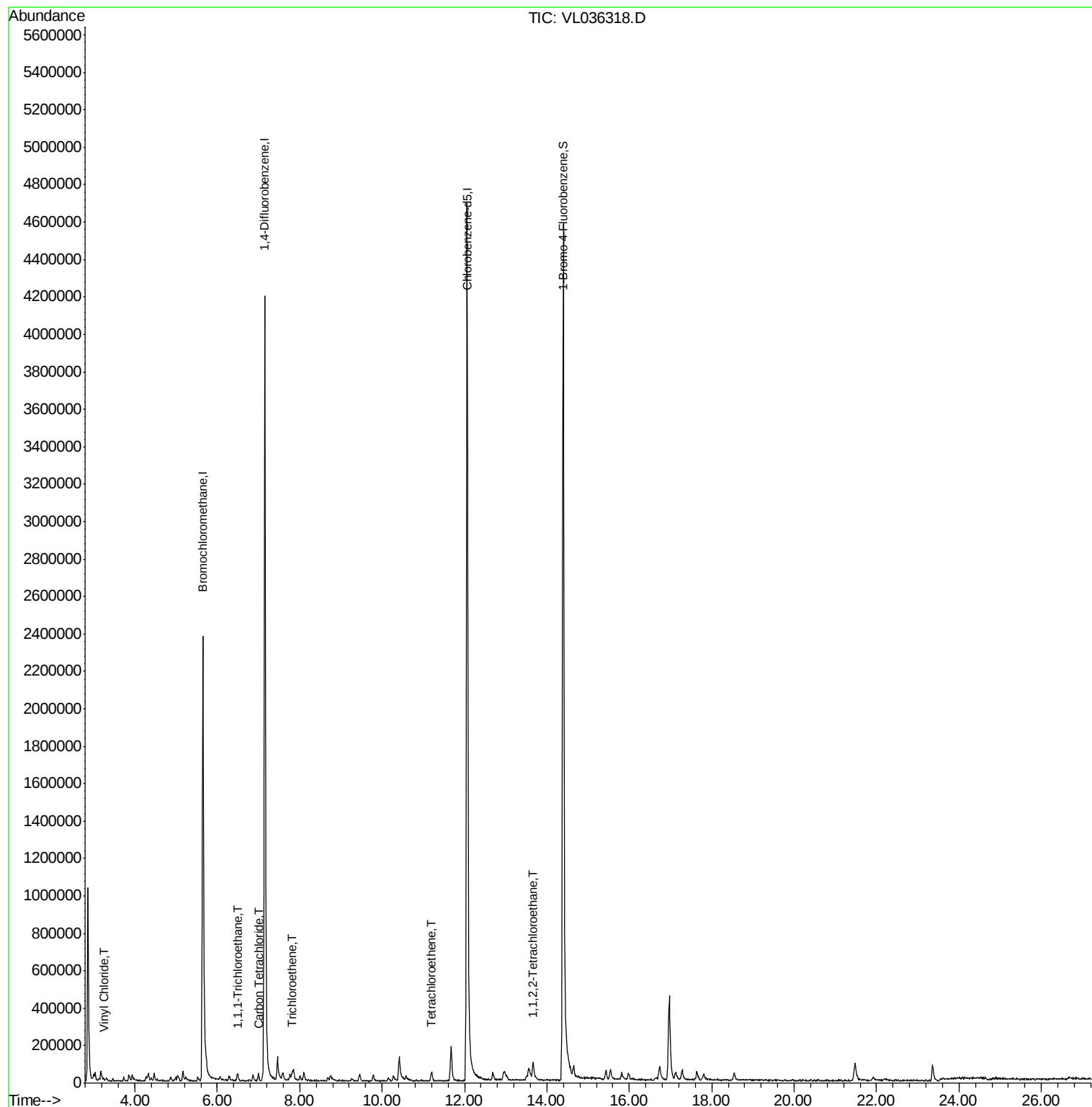
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021021\
Data File : VL036318.D
Acq On : 10 Feb 2021 14:01
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

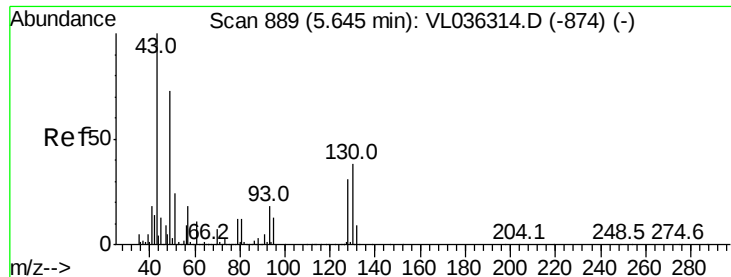
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:59 PM

Quant Time: Feb 10 15:34:41 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 13:51:24 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1540814

Ion Ratio Lower Upper

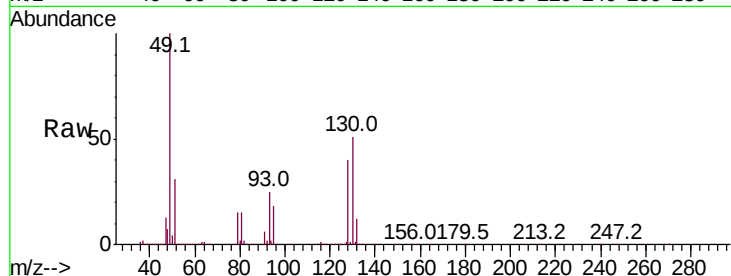
49 100

128 41.0 20.8 62.5

130 53.0 26.7 80.1

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:59 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

5.65

800000

600000

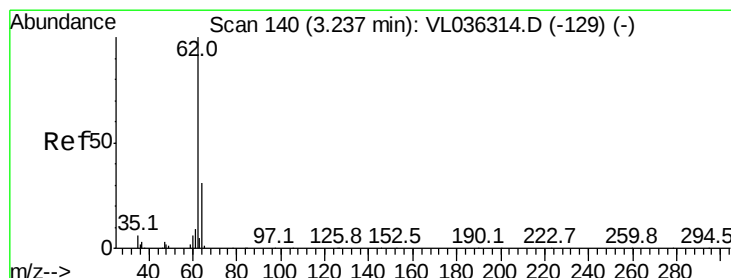
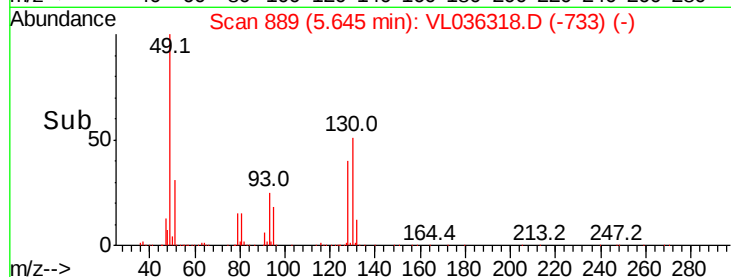
400000

200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#5

Vinyl Chloride

Concen: 0.083 ppbv m

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL036318.D

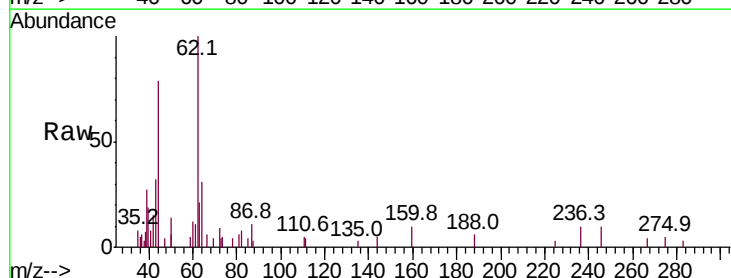
Acq: 10 Feb 2021 14:01

Tgt Ion: 62 Resp: 7310

Ion Ratio Lower Upper

62 100

64 31.2 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

6000

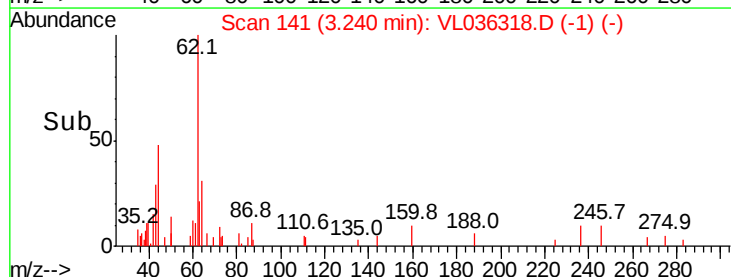
4000

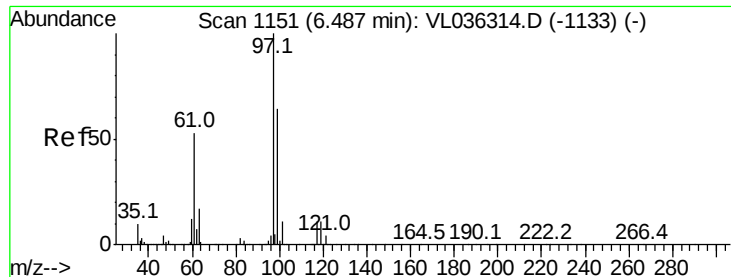
2000

0

3.20 3.22 3.24 3.26

Time-->





#32

1,1,1-Trichloroethane

Concen: 0.096 ppbv m

RT: 6.49 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

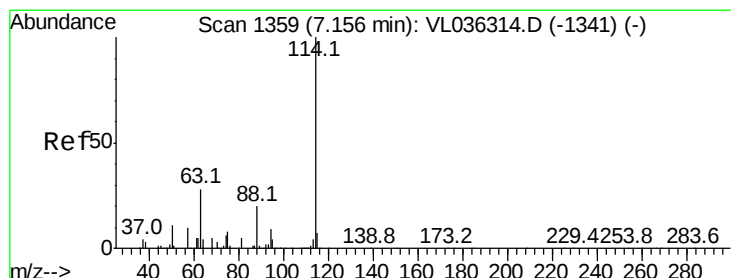
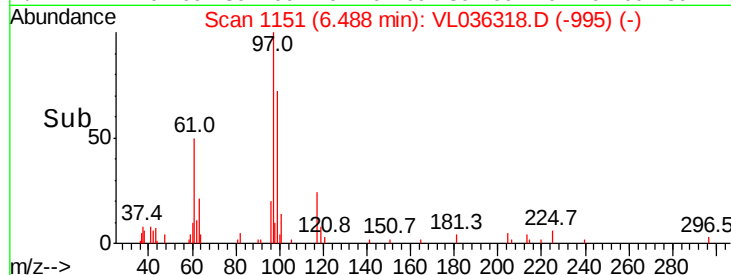
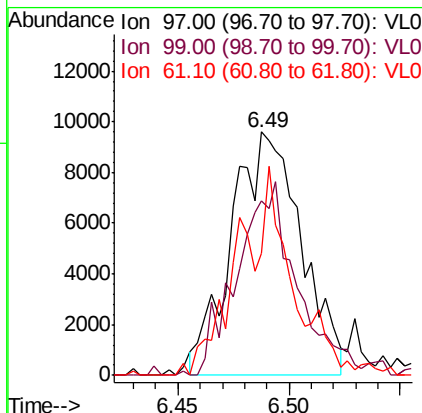
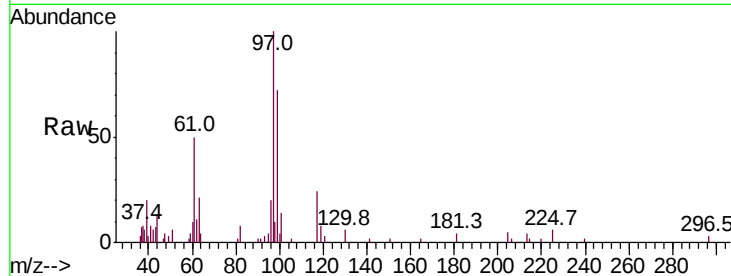
ClientSampleId :

VSTDICCO.1

Tot Ion:	97	Resp:	21000
Ion Ratio	Lower	Upper	
97	100		
99	70.4	52.2	78.4
61	66.4	43.3	64.9#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:59 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

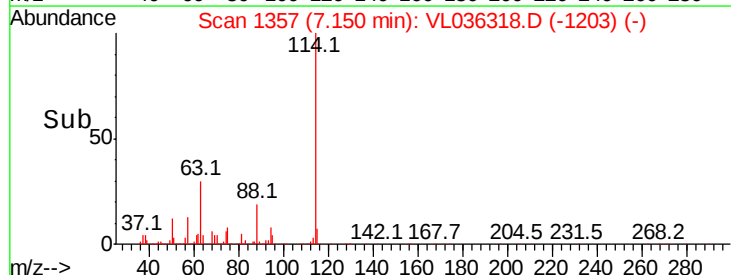
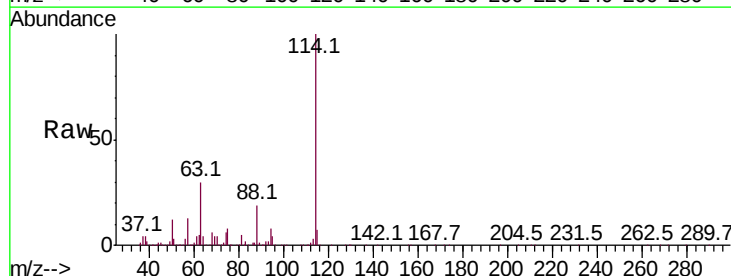
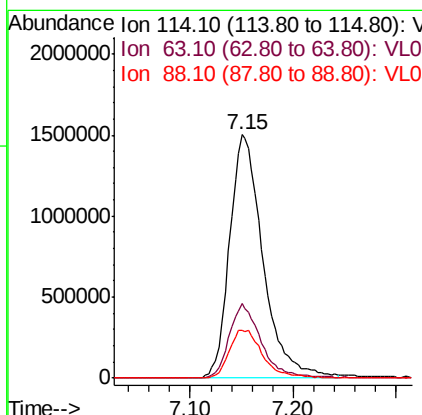
RT: 7.15 min Scan# 1357

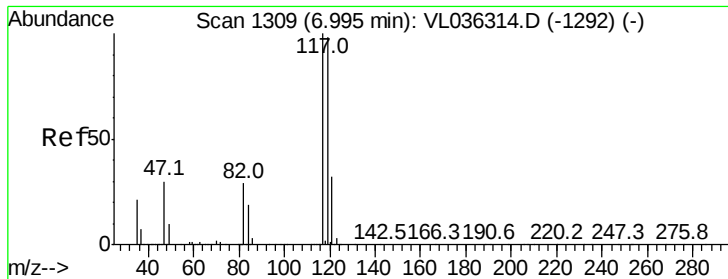
Delta R.T. -0.01 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Tgt Ion:	114	Resp:	3387279
Ion Ratio	Lower	Upper	
114	100		
63	29.8	24.1	36.1
88	20.2	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.104 ppbv m

RT: 7.00 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

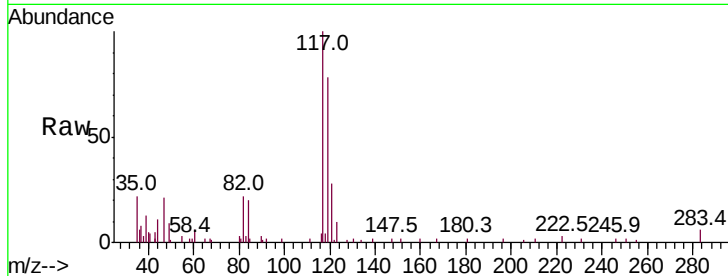
ClientSampleId :

VSTDIC0.1

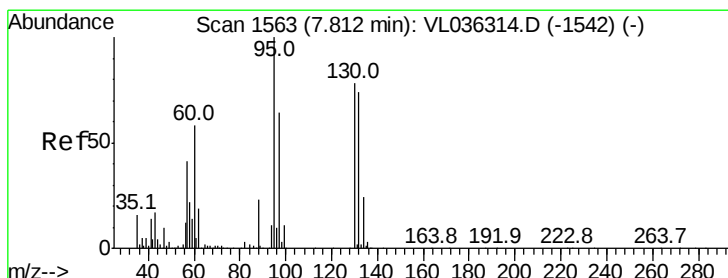
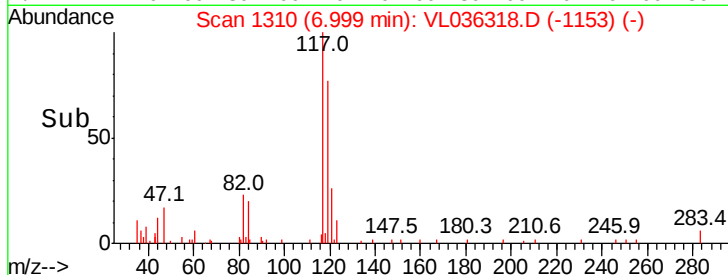
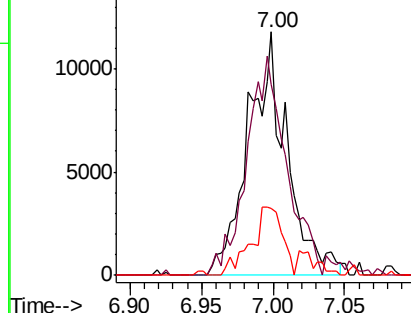
Tot Ion:	117	Resp:	22331
Ion Ratio	Lower	Upper	
117	100		
119	78.4	78.1	117.1
121	27.7	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:41:59 PM



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: 0.093 ppbv m

RT: 7.80 min Scan# 1560

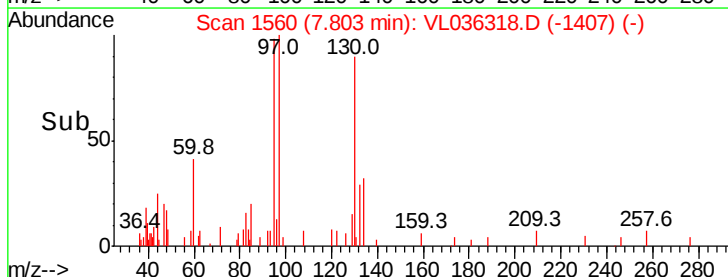
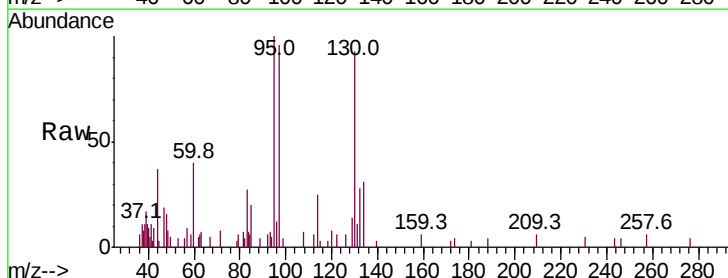
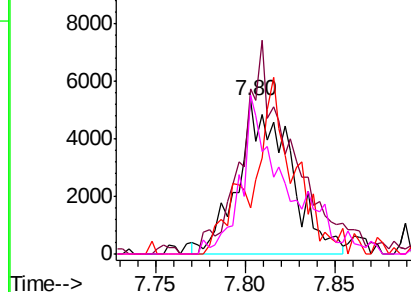
Delta R.T. -0.01 min

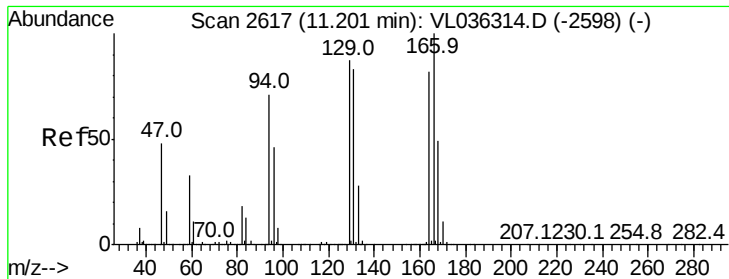
Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Tgt Ion:	130	Resp:	10687
Ion Ratio	Lower	Upper	
130	100		
95	107.7	102.8	154.2
132	30.3	75.7	113.5#
97	103.7	66.2	99.2#

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





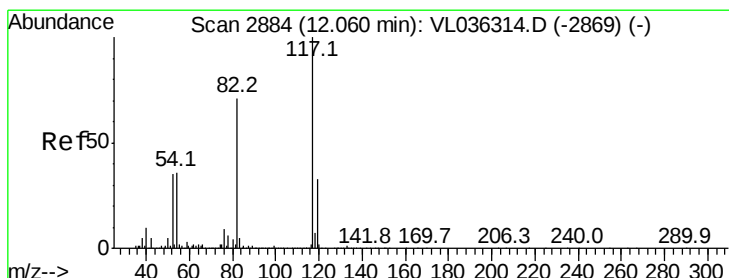
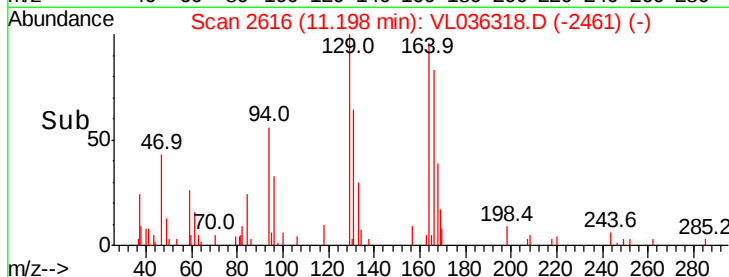
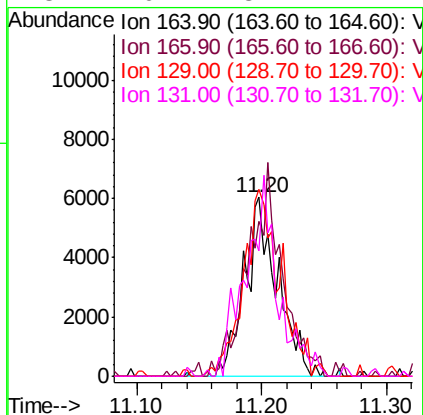
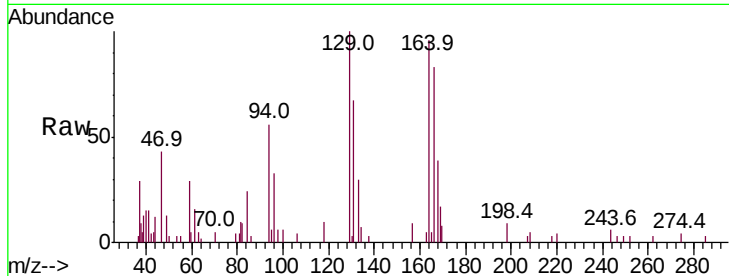
#52
Tetrachloroethene
Concen: 0.098 ppbv m
RT: 11.20 min Scan# 2616
Delta R.T. -0.00 min
Lab File: VL036318.D
Acq: 10 Feb 2021 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
164	100		
166	86.3	97.8	146.8#
129	104.3	84.9	127.3
131	70.4	81.4	122.2#

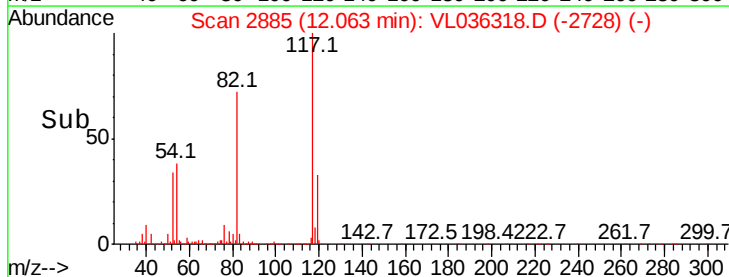
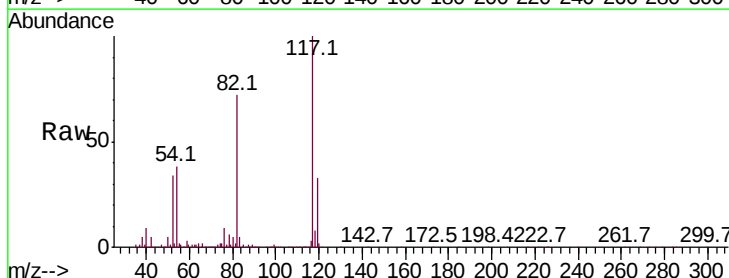
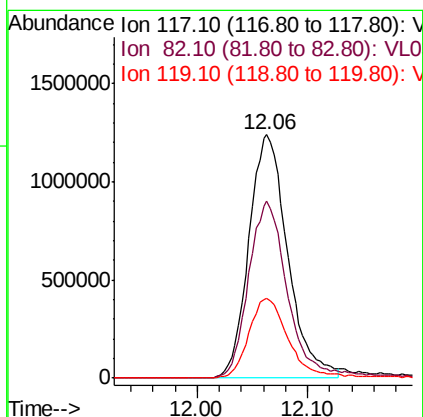
Manual Integrations
APPROVED

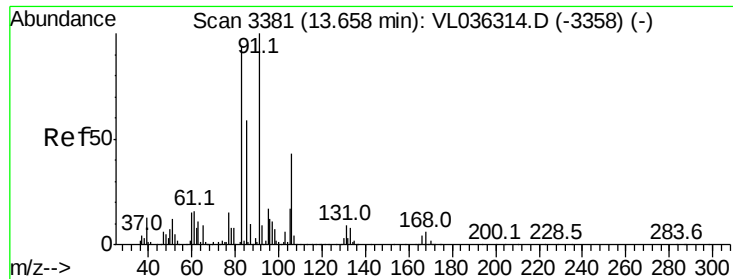
MMDadoda
2/12/2021 1:41:59 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL036318.D
Acq: 10 Feb 2021 14:01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	75.2	59.1	88.7
119	34.1	46.3	69.5#





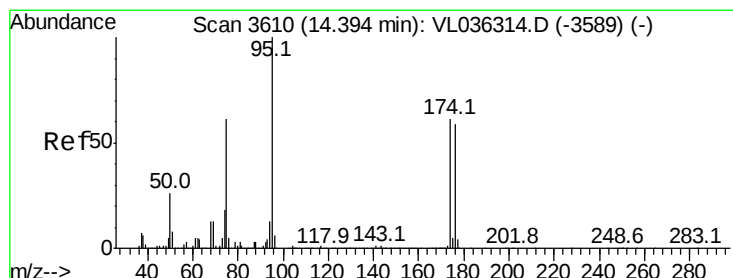
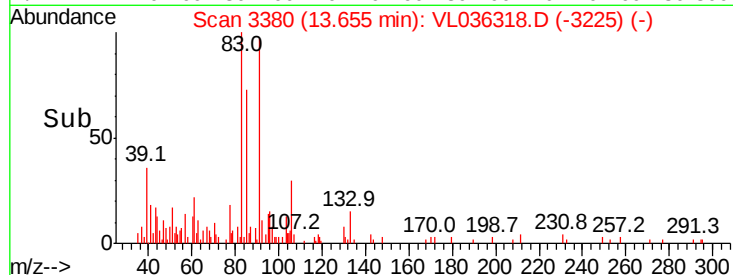
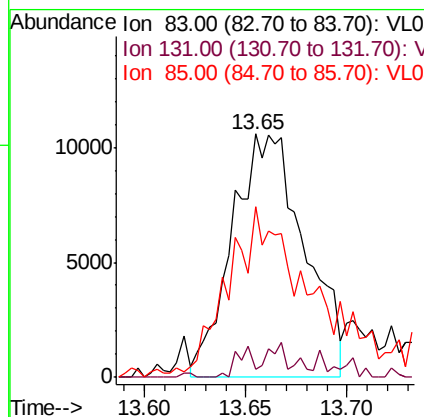
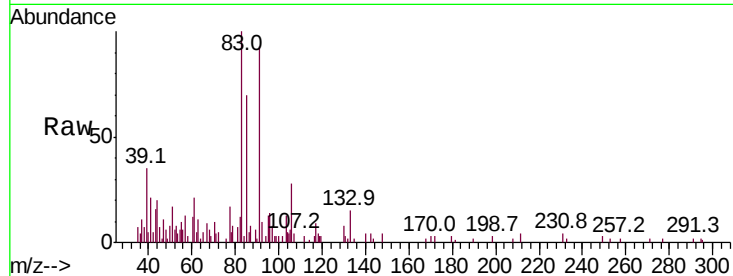
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.095 ppbv m
 RT: 13.65 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	7.6	4.7	14.0
85	0.0	33.0	98.9#

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:41:59 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.126 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	62.4	49.8	74.6
175	4.7	3.7	5.5

