

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036960.D
 Acq On : 18 May 2021 9:33
 Operator : SY/AP
 Sample : OC051121 CAN 10604
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051121 CAN 10604

Manual Integrations
 APPROVED

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 5/20/2021 5:54:32 PM

Quant Time: May 19 03:25:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1209733	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3725098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3411276	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2465740	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.24	62	6463m	0.078	ppbv	
9) Propene	3.00	41	12276	0.155	ppbv	91
15) Acetone	3.86	43	48093m	0.388	ppbv	
20) Methylene Chloride	4.32	84	23079	0.347	ppbv	89
26) Hexane	5.66	57	19650	0.129	ppbv	83
32) 1,1,1-Trichloroethane	6.48	97	16103	0.070	ppbv #	80
35) Carbon Tetrachloride	6.99	117	14476	0.058	ppbv	98
38) Trichloroethene	7.80	130	10883m	0.079	ppbv	
52) Tetrachloroethene	11.20	164	11810m	0.093	ppbv	
59) m/p-Xylene	12.96	91	69020m	0.173	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.65	83	23434m	0.083	ppbv	
67) sec-Butylbenzene	17.27	105	67282m	0.100	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	52882m	0.121	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	28455m	0.106	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	40253m	0.187	ppbv	
79) Naphthalene	22.17	128	39745m	0.116	ppbv	
80) Naphthalene,2-methyl-	25.01	142	39514m	0.529	ppbv	
81) 1,2,4-Trichlorobenzene	21.90	180	24397m	0.117	ppbv	

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

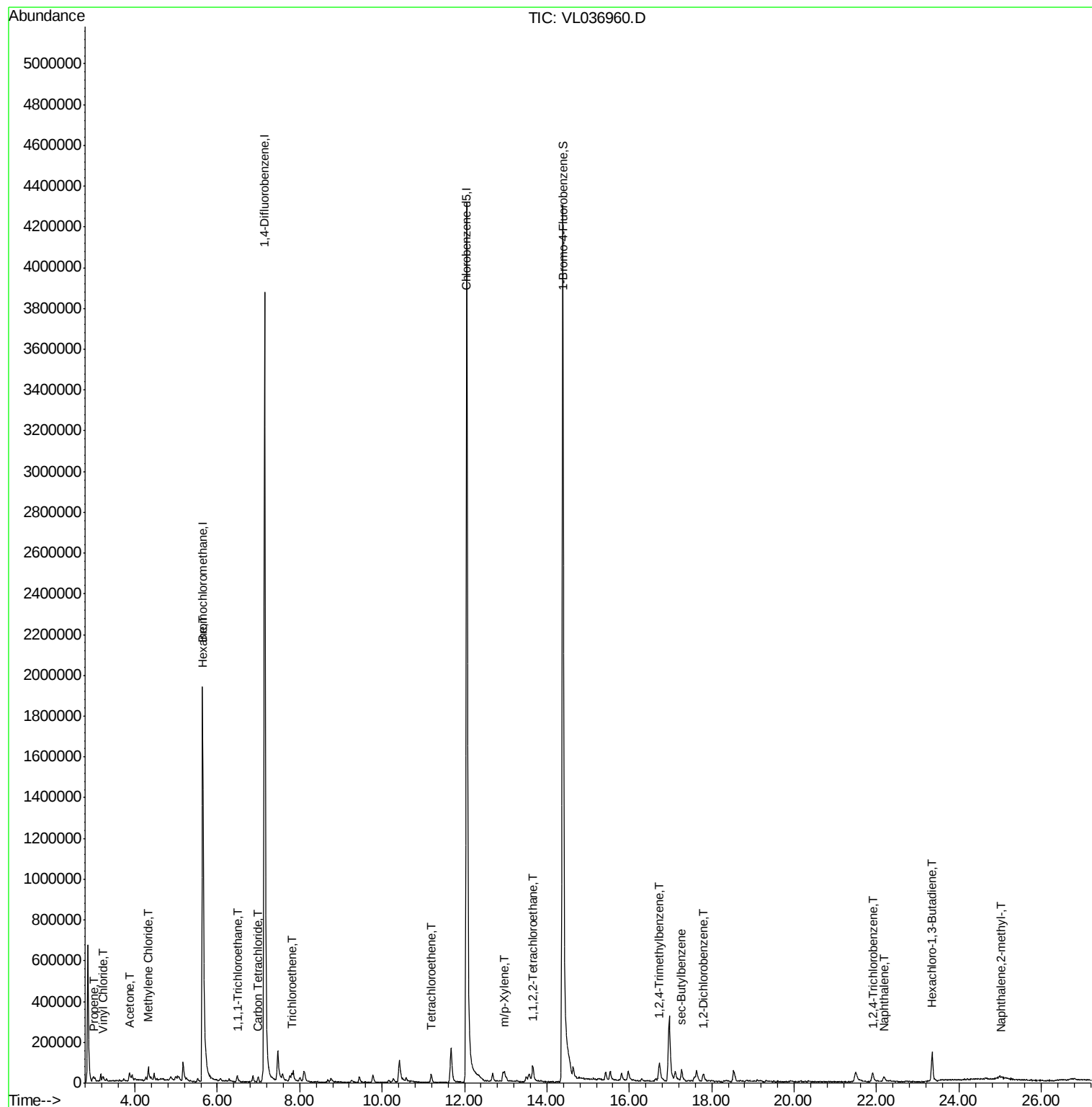
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\
Data File : VL036960.D
Acq On : 18 May 2021 9:33
Operator : SY/AP
Sample : OC051121 CAN 10604
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

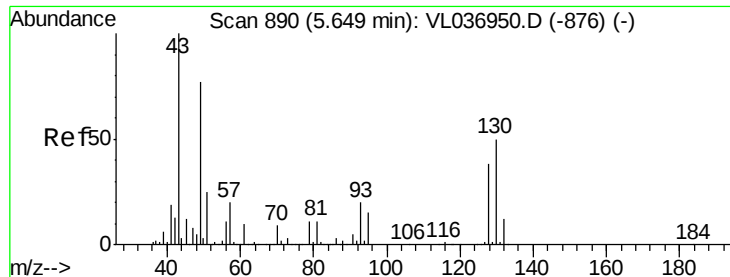
Instrument :
MSVOA_L
ClientSampleId :
QC051121 CAN 10604

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Quant Time: May 19 03:25:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 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: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

ClientSampleId :

QC051121 CAN 10604

Tot Ion: 49 Resp: 1209733

Ion Ratio Lower Upper

49 100

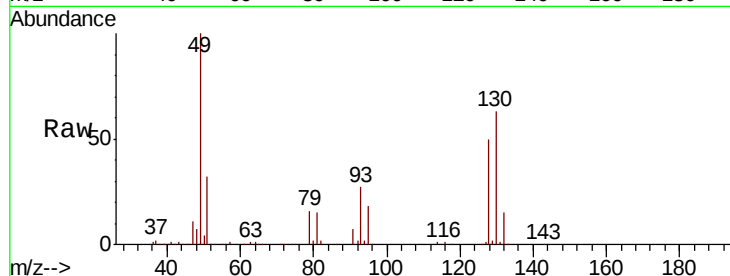
128 53.3 26.9 80.7

130 70.3 33.8 101.4

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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

600000

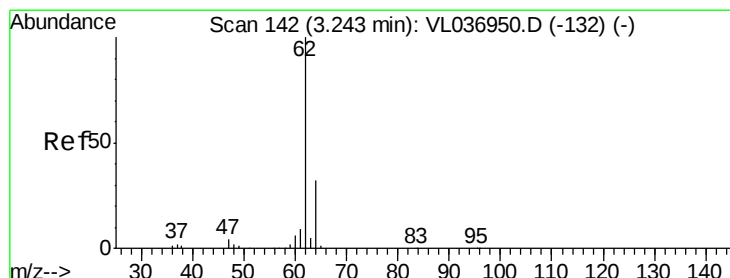
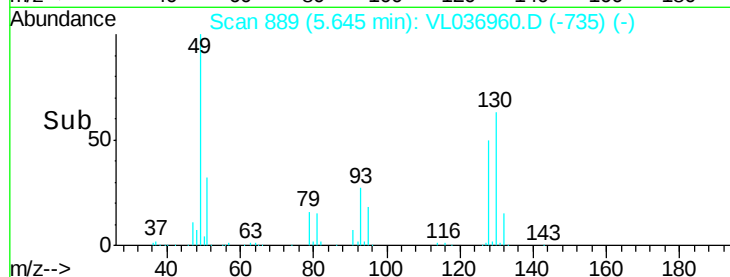
400000

200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#5

Vinyl Chloride

Concen: 0.078 ppbv m

RT: 3.24 min Scan# 142

Delta R.T. -0.00 min

Lab File: VL036960.D

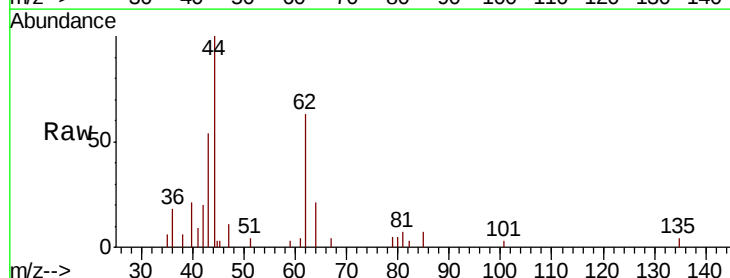
Acq: 18 May 2021 9:33

Tgt Ion: 62 Resp: 6463

Ion Ratio Lower Upper

62 100

64 32.9 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

4000

3000

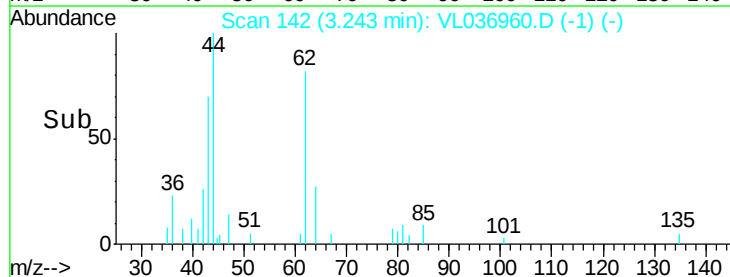
2000

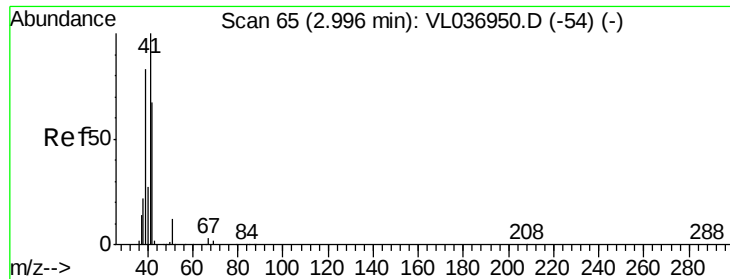
1000

0

3.20 3.25 3.30

Time-->





#9

Propene

Concen: 0.155 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

ClientSampleId :

QC051121 CAN 10604

Tot Ion: 41 Resp: 12276

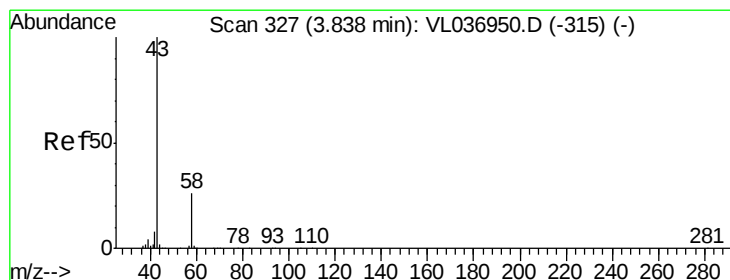
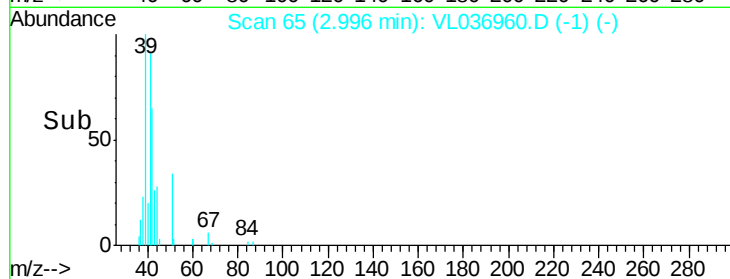
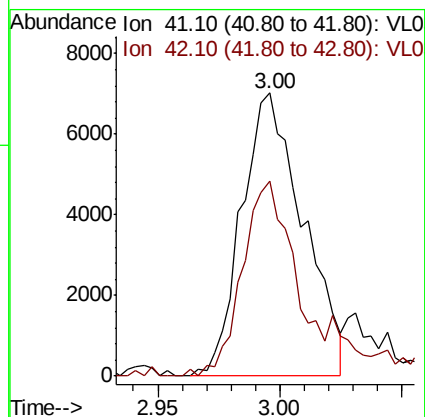
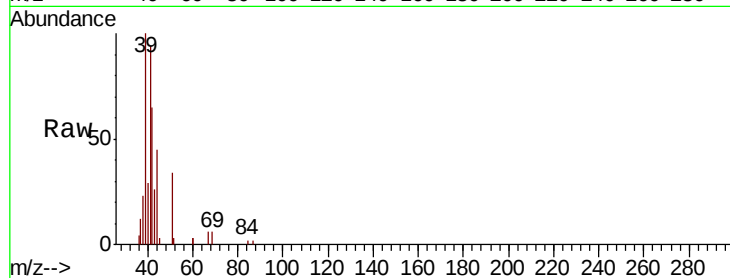
Ion Ratio Lower Upper

41 100

42 74.4 53.9 80.9

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#15

Acetone

Concen: 0.388 ppbv m

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL036960.D

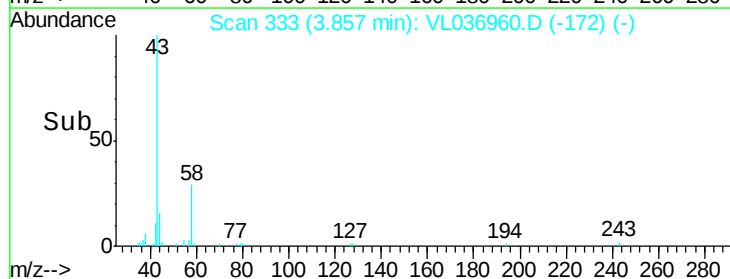
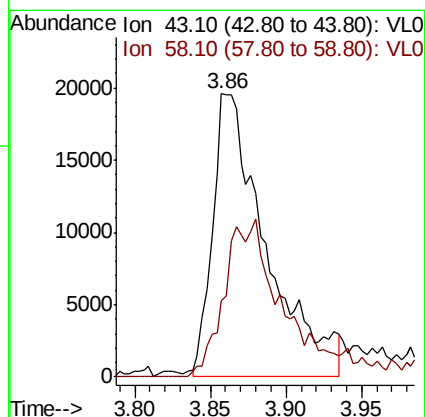
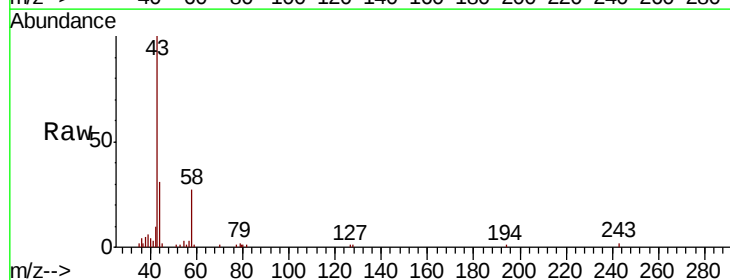
Acq: 18 May 2021 9:33

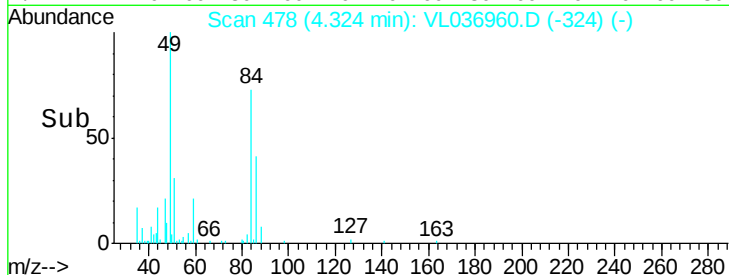
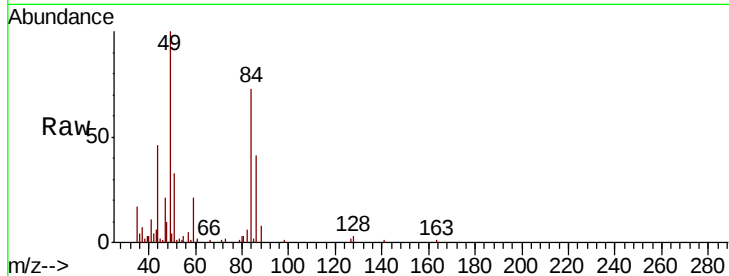
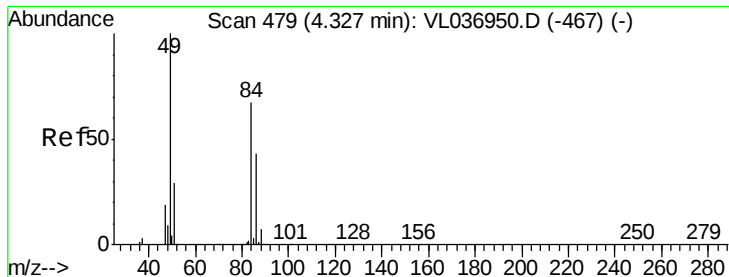
Tgt Ion: 43 Resp: 48093

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#





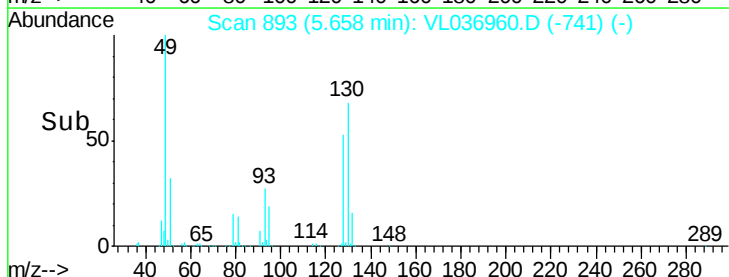
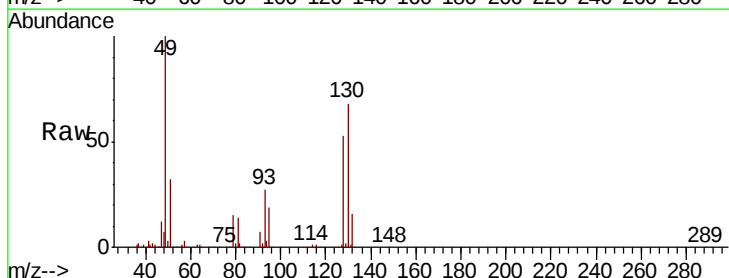
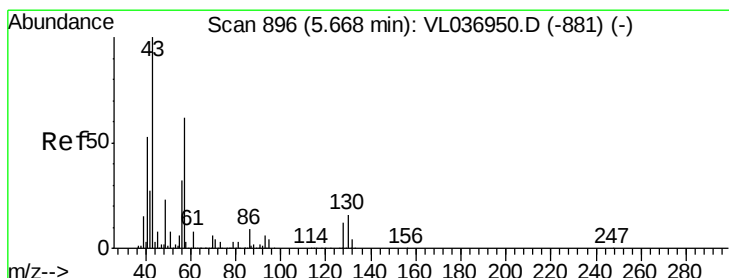
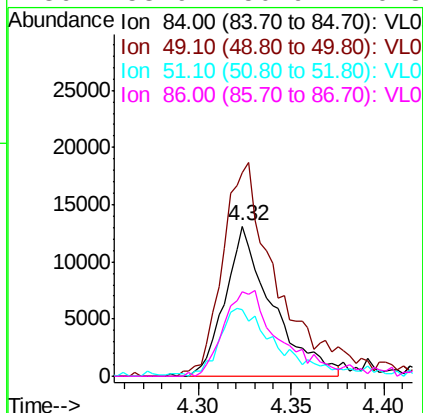
#20
Methvlene Chloride
Concen: 0.347 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL036960.D
Acq: 18 May 2021 9:33

Tot Ion:	84	Resp:	23079
Ion	Ratio	Lower	Upper
84	100		
49	132.8	119.8	179.6
51	44.5	35.1	52.7
86	53.9	50.9	76.3

Instrument :
MSVOA_L
ClientSampleId :
QC051121 CAN 10604

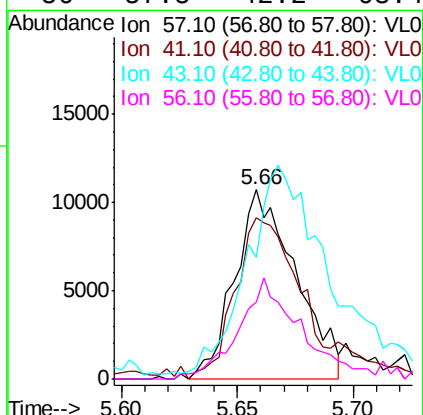
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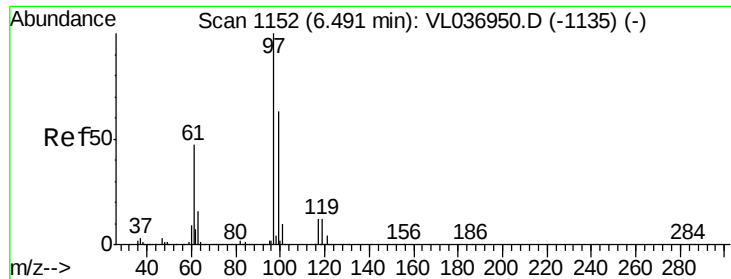
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#26
Hexane
Concen: 0.129 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL036960.D
Acq: 18 May 2021 9:33

Tgt Ion:	57	Resp:	19650
Ion	Ratio	Lower	Upper
57	100		
41	103.1	70.5	105.7
43	175.1	165.8	248.8
56	57.5	42.2	63.4





#32

1,1,1-Trichloroethane

Concen: 0.070 ppbv

RT: 6.48 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

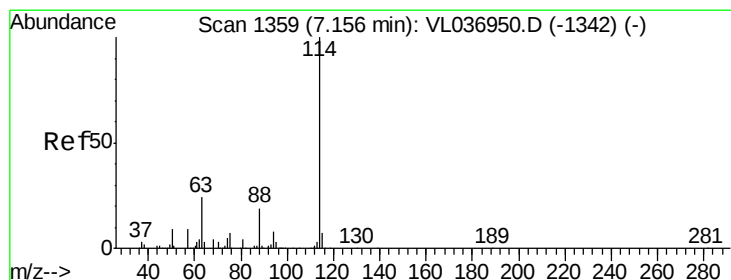
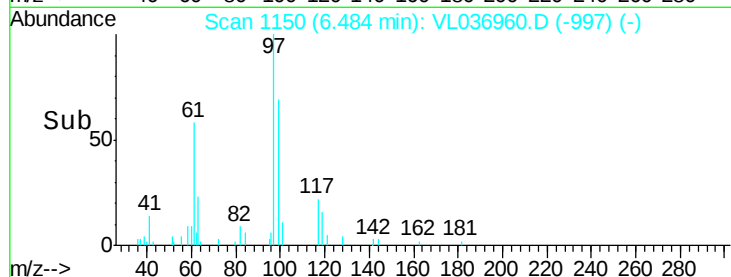
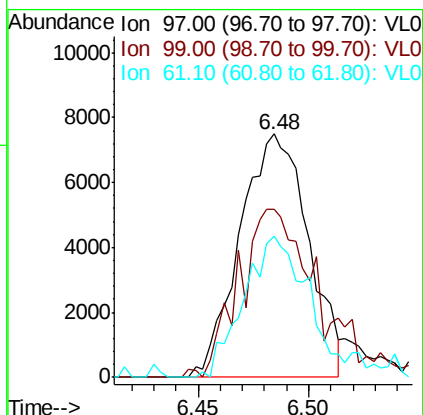
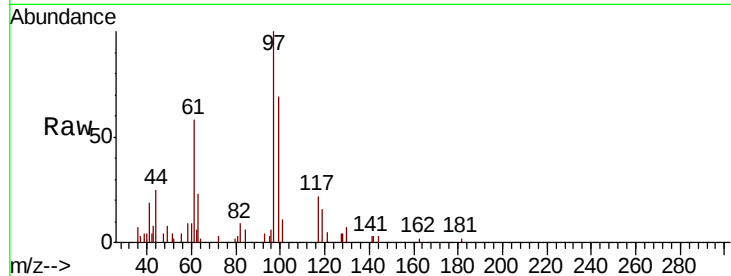
ClientSampleId :

QC051121 CAN 10604

Tot Ion:	97	Resp:	16103
Ion Ratio	Lower	Upper	
97	100		
99	81.1	51.9	77.9#
61	60.0	37.6	56.4#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

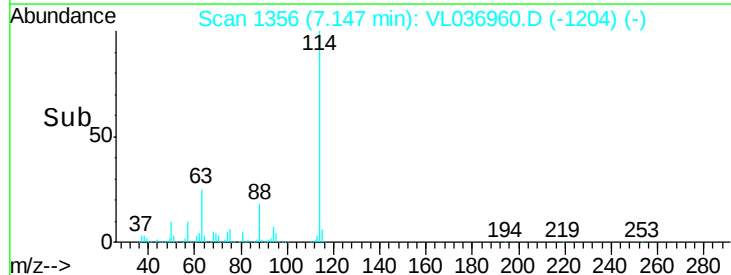
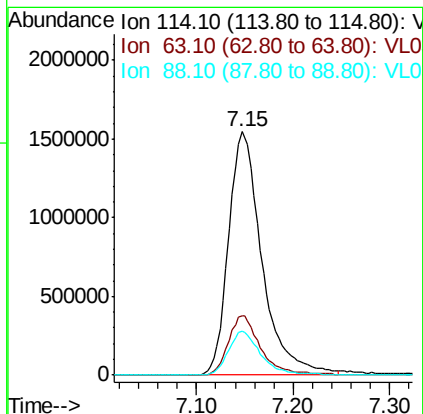
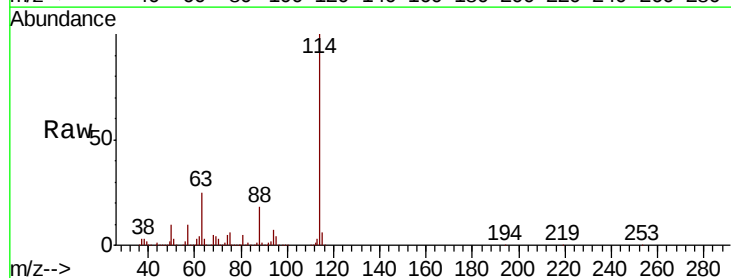
RT: 7.15 min Scan# 1356

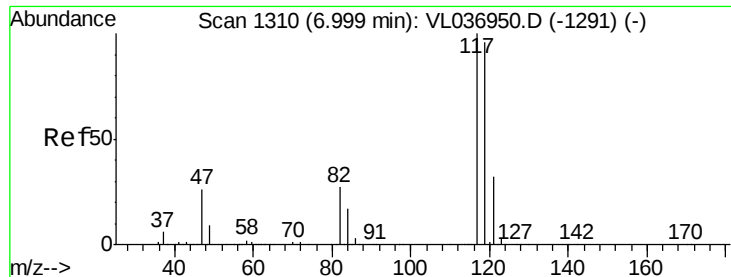
Delta R.T. -0.01 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Tgt Ion:	114	Resp:	3725098
Ion Ratio	Lower	Upper	
114	100		
63	24.2	19.6	29.4
88	18.0	14.6	21.8





#35

Carbon Tetrachloride

Concen: 0.058 ppbv

RT: 6.99 min Scan# 1307

Delta R.T. -0.01 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

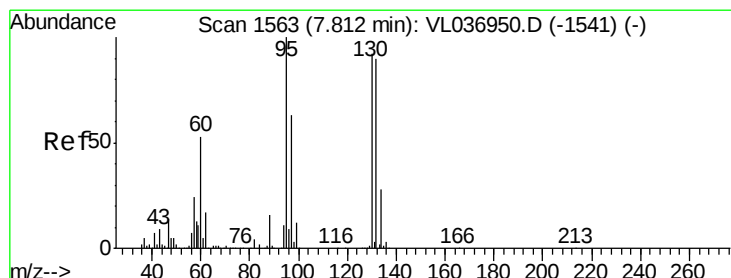
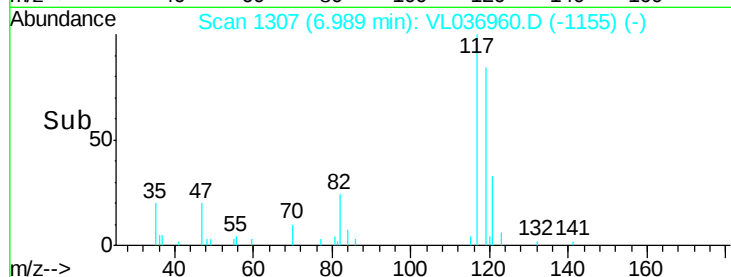
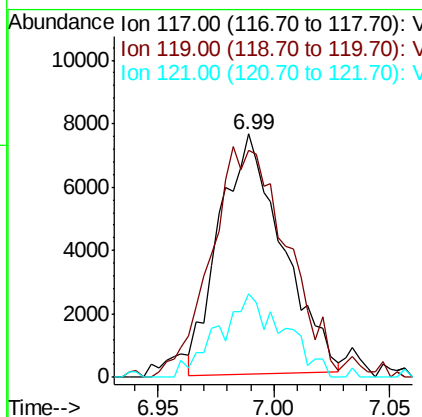
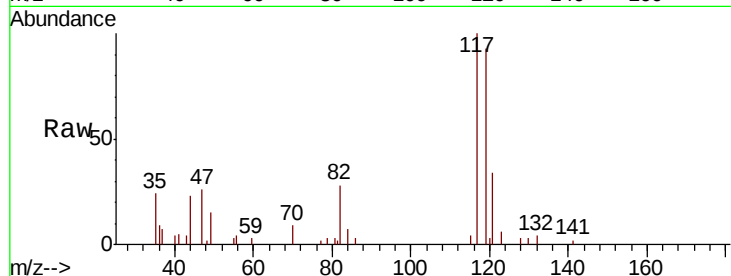
ClientSampleId :

QC051121 CAN 10604

Tot Ion:	117	Resp:	14476
Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.6	114.8
121	36.2	25.8	38.6

Manual Integrations
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#38

Trichloroethene

Concen: 0.079 ppbv m

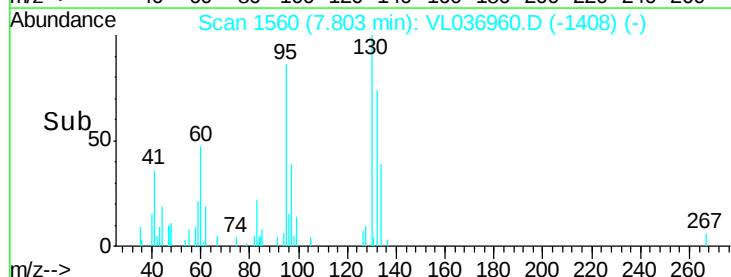
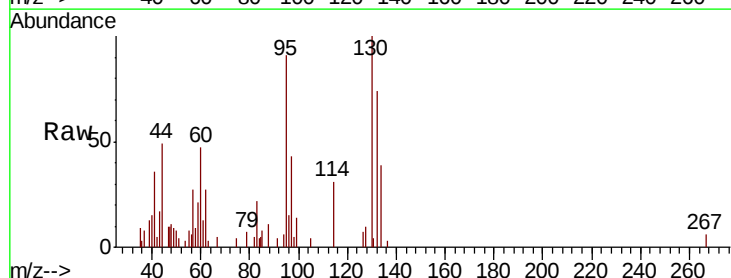
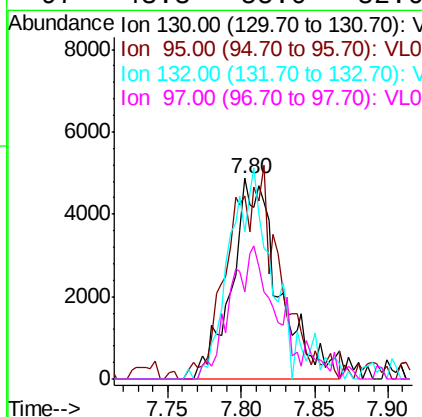
RT: 7.80 min Scan# 1560

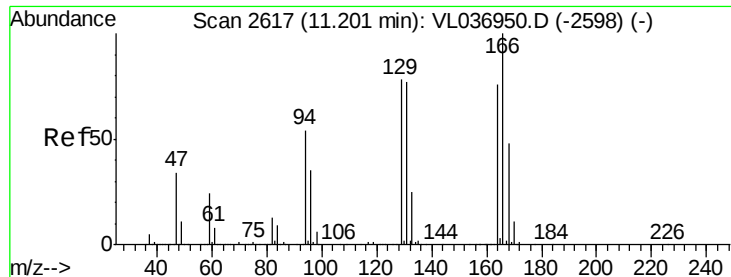
Delta R.T. -0.01 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Tgt Ion:	130	Resp:	10883
Ion	Ratio	Lower	Upper
130	100		
95	91.2	86.9	130.3
132	73.6	78.4	117.6#
97	43.3	55.0	82.6#





#52

Tetrachloroethene

Concen: 0.093 ppbv m

RT: 11.20 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

ClientSampleId :

QC051121 CAN 10604

Tot Ion:164 Resp: 11810

Ion Ratio Lower Upper

164 100

166 116.5 105.5 158.3

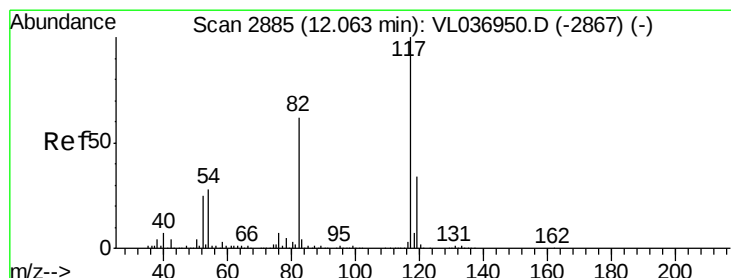
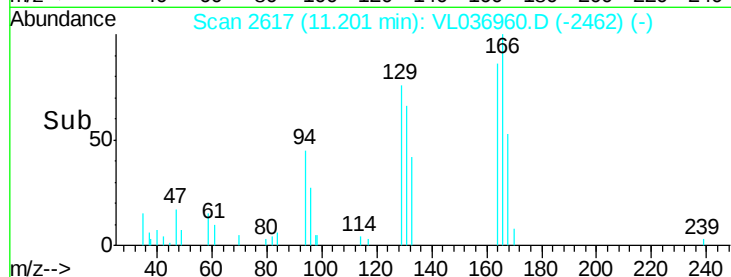
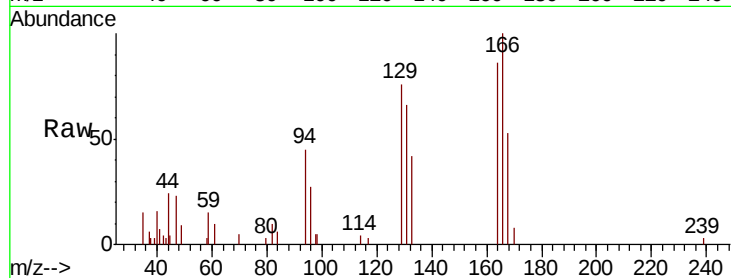
129 87.9 81.8 122.8

131 77.2 81.2 121.8#

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.01 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

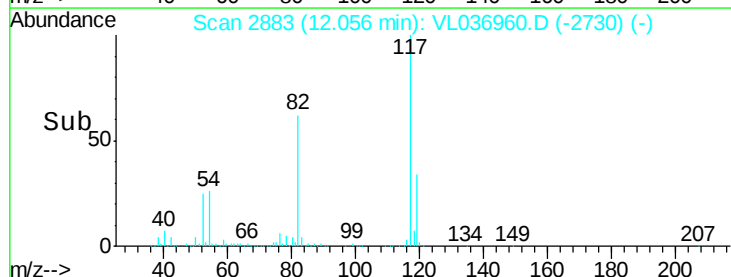
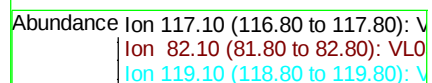
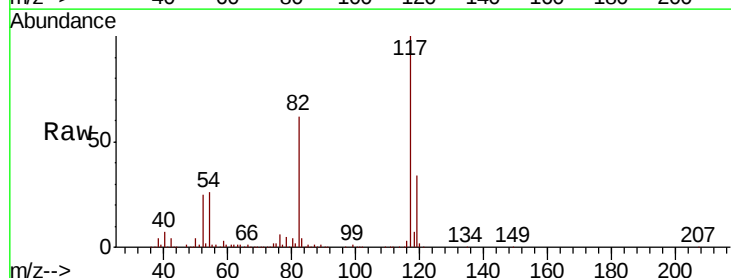
Tgt Ion:117 Resp: 3411276

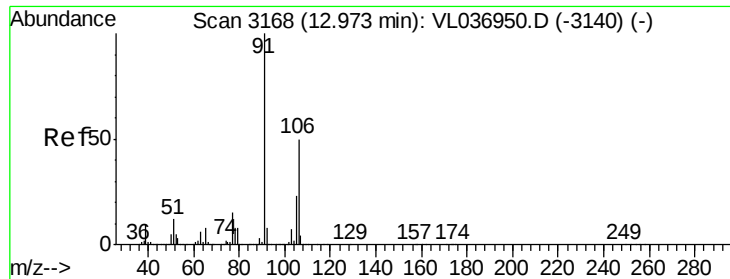
Ion Ratio Lower Upper

117 100

82 64.4 52.6 79.0

119 34.1 46.6 70.0#





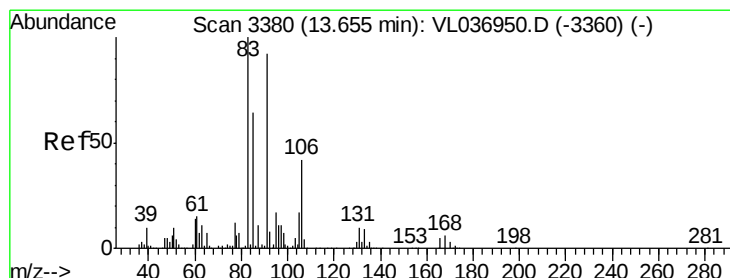
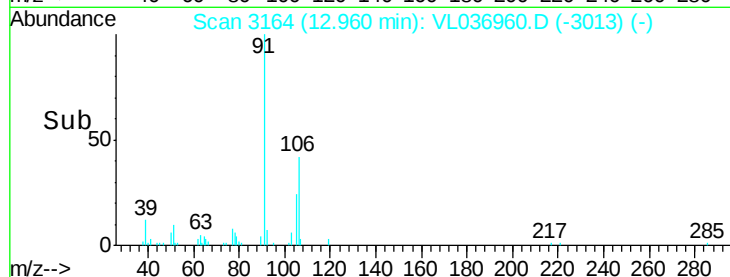
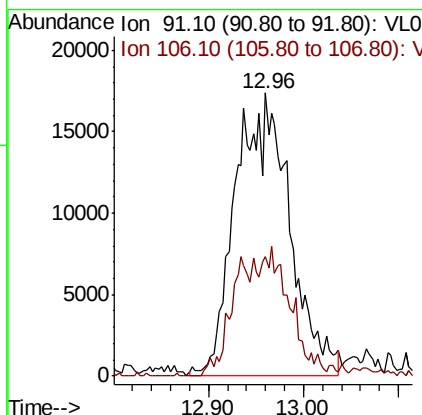
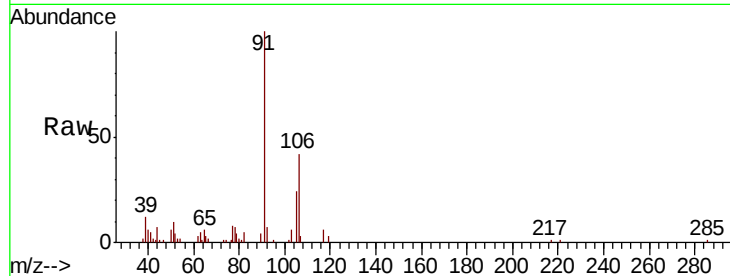
#59
m/p-Xylene
Concen: 0.173 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.01 min
Lab File: VL036960.D
Acq: 18 May 2021 9:33

Instrument :
MSVOA_L
ClientSampleId :
QC051121 CAN 10604

Tot Ion: 91 Resp: 69020
Ion Ratio Lower Upper
91 100
106 44.9 37.4 56.2

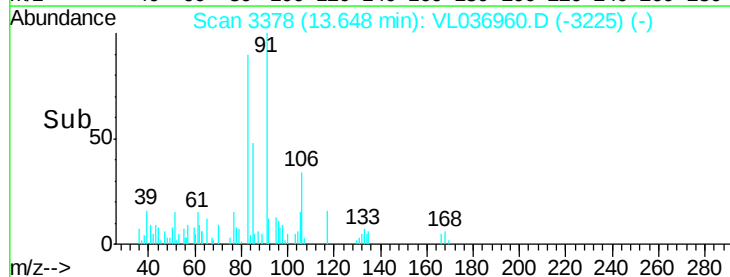
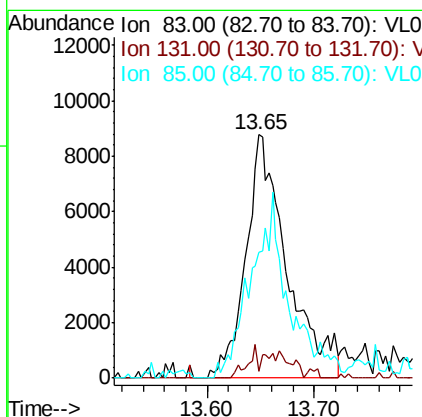
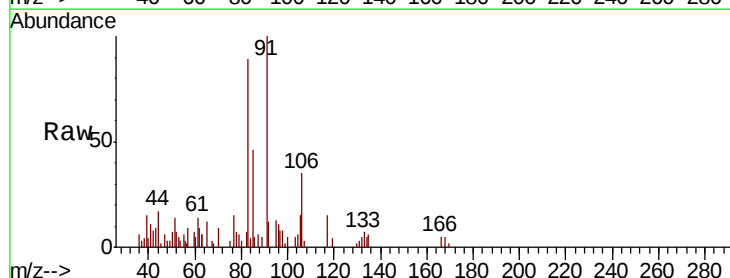
Manual Integrations
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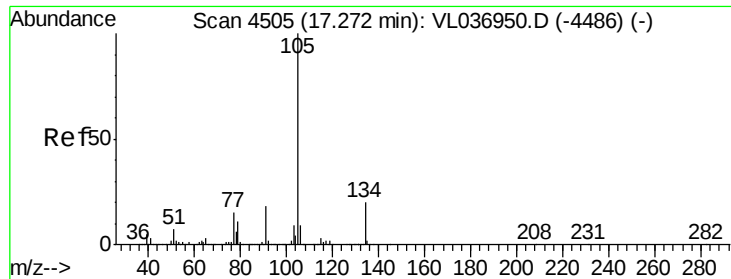
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5/20/2021 5:54:32 PM



#63
1,1,2,2-Tetrachloroethane
Concen: 0.083 ppbv m
RT: 13.65 min Scan# 3378
Delta R.T. -0.01 min
Lab File: VL036960.D
Acq: 18 May 2021 9:33

Tgt Ion: 83 Resp: 23434
Ion Ratio Lower Upper
83 100
131 11.0 5.0 15.0
85 0.0 32.9 98.6#





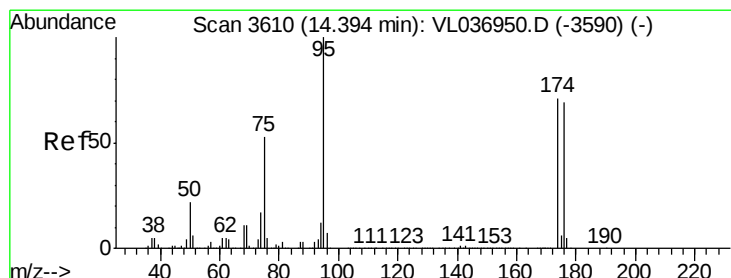
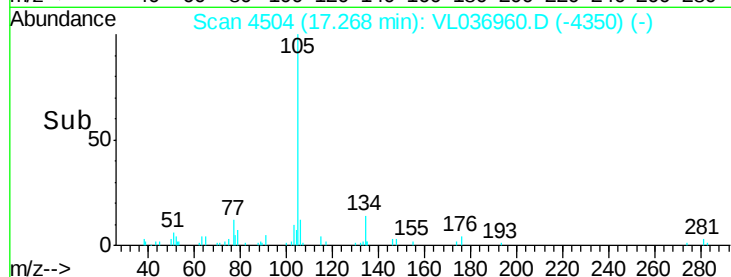
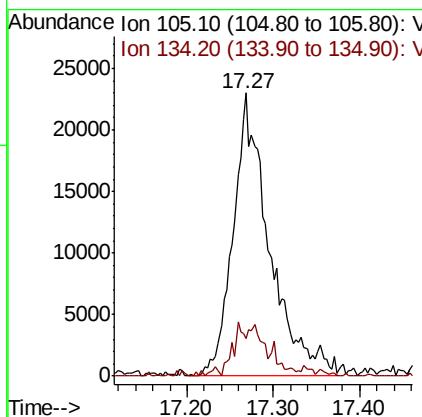
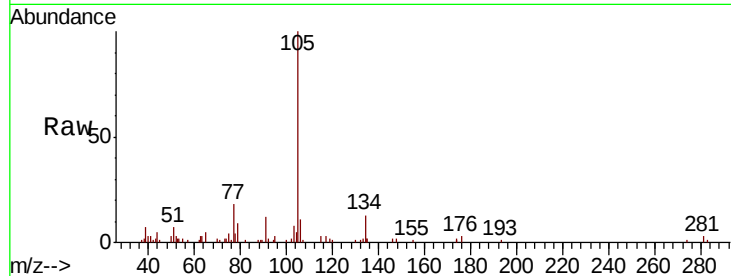
#67
 sec-Butylbenzene
 Concen: 0.100 ppbv m
 RT: 17.27 min Scan# 4504
 Delta R.T. -0.00 min
 Lab File: VL036960.D
 Acq: 18 May 2021 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051121 CAN 10604

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.1	15.6	23.4

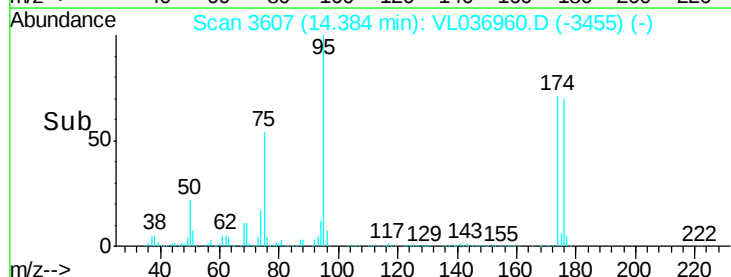
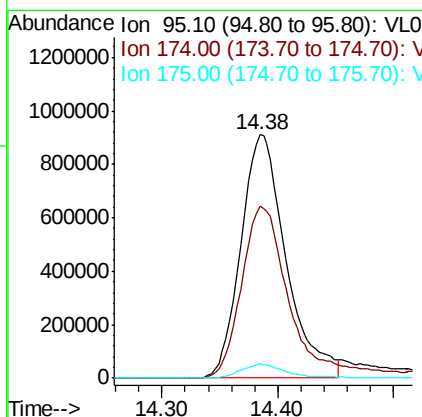
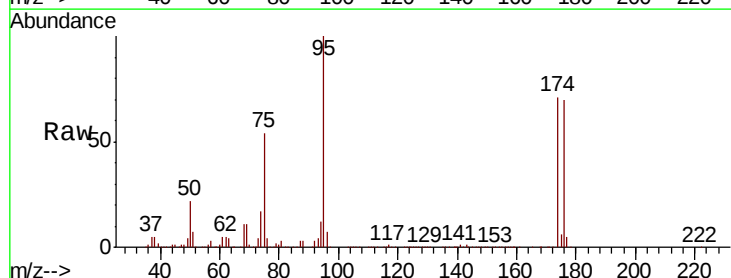
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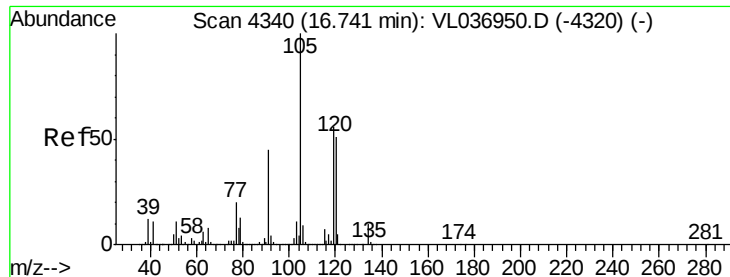
MMDadoda
 5/20/2021 5:54:32 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.622 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.01 min
 Lab File: VL036960.D
 Acq: 18 May 2021 9:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.3	58.4	87.6
175	5.9	4.4	6.6





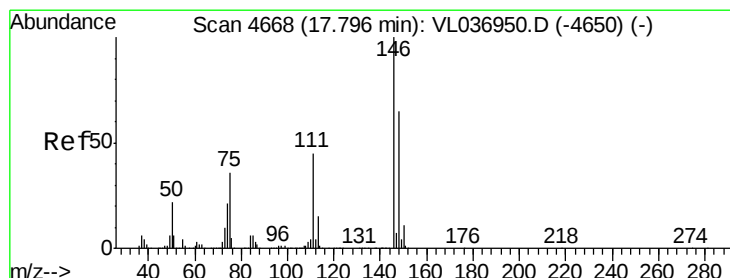
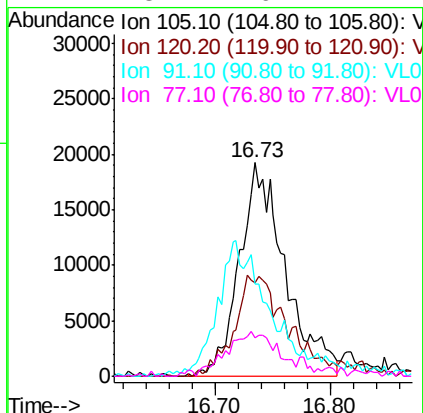
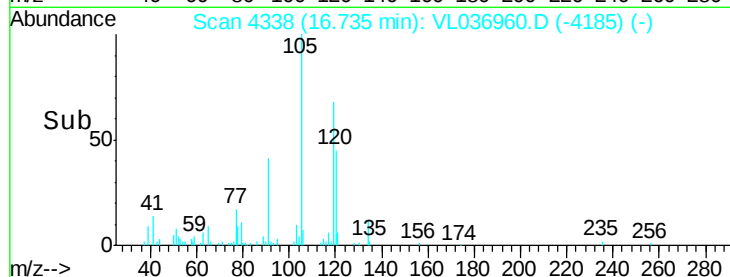
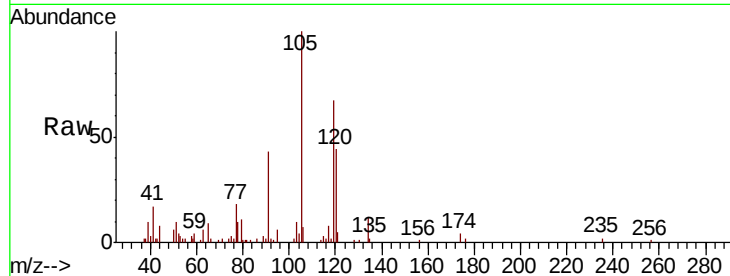
#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv m
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL036960.D
 Acq: 18 May 2021 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051121 CAN 10604

Tot Ion:	105	Resp:	52882
Ion Ratio	Lower	Upper	
105	100		
120	43.6	40.6	61.0
91	43.2	37.4	56.0
77	18.2	16.2	24.4

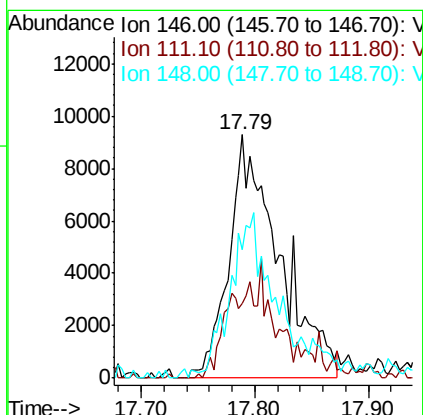
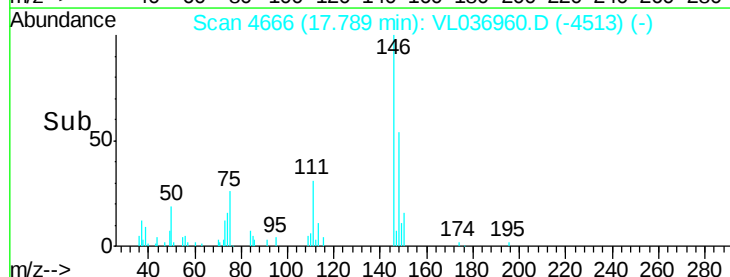
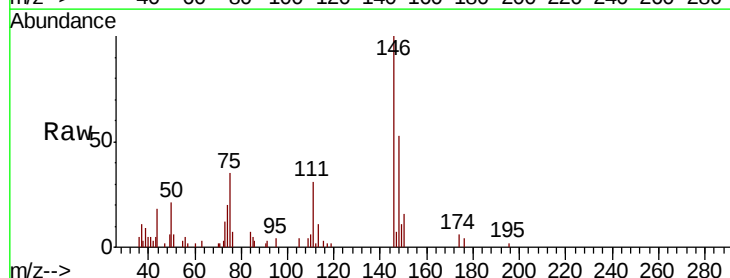
Manual Integrations
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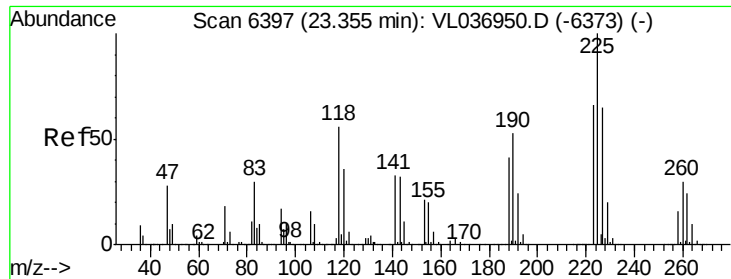
MMDadoda
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#77
 1,2-Dichlorobenzene
 Concen: 0.106 ppbv m
 RT: 17.79 min Scan# 4666
 Delta R.T. -0.01 min
 Lab File: VL036960.D
 Acq: 18 May 2021 9:33

Tgt Ion:	146	Resp:	28455
Ion Ratio	Lower	Upper	
146	100		
111	0.0	23.1	69.2#
148	0.0	32.5	97.4#





#78

Hexachloro-1,3-Butadiene

Concen: 0.187 ppbv m

RT: 23.35 min Scan# 6396

Delta R.T. -0.00 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

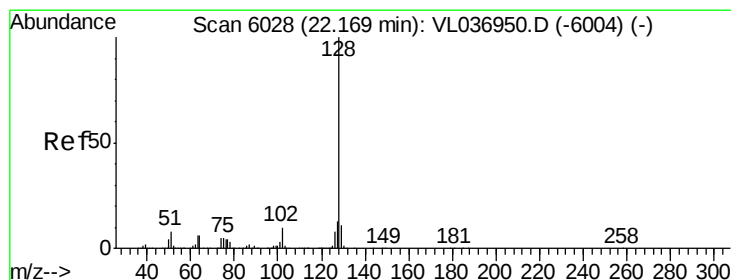
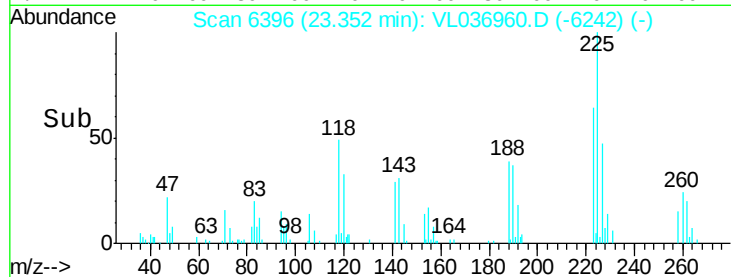
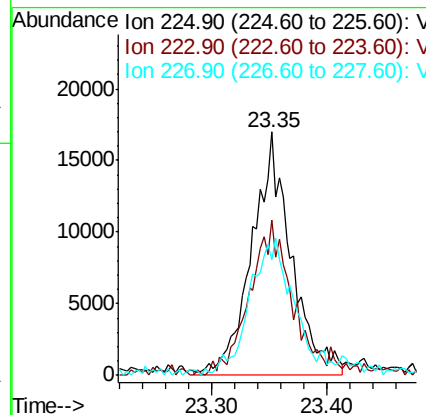
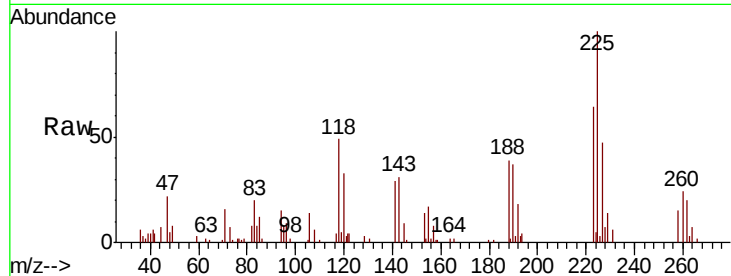
ClientSampleId :

QC051121 CAN 10604

Tot Ion:	225	Resp:	40253
Ion Ratio		Lower	Upper
225	100		
223	0.0	51.9	77.9#
227	0.0	51.8	77.6#

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#79

Naphthalene

Concen: 0.116 ppbv m

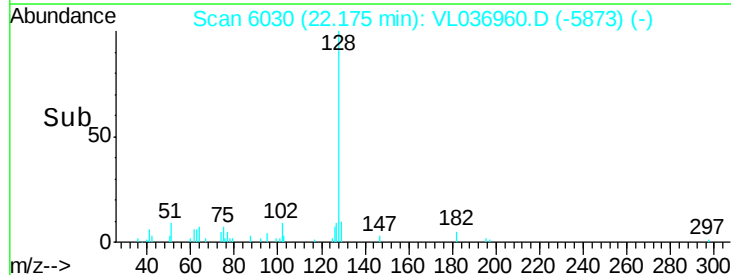
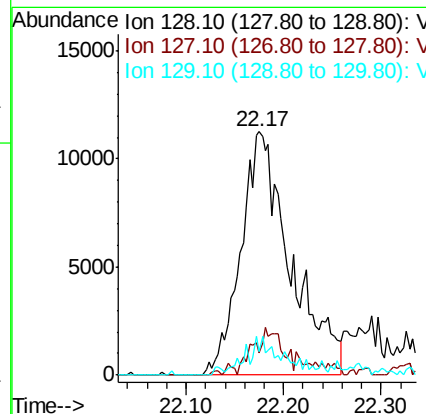
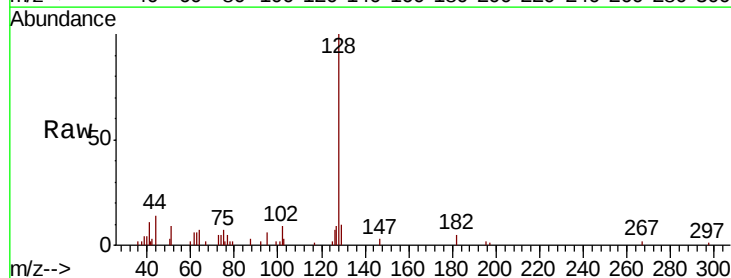
RT: 22.17 min Scan# 6030

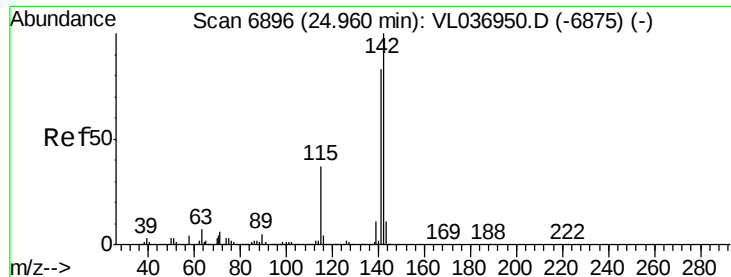
Delta R.T. 0.01 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Tgt Ion:	128	Resp:	39745
Ion Ratio		Lower	Upper
128	100		
127	8.9	10.4	15.6#
129	9.8	9.0	13.6





#80

Naphthalene, 2-methyl-

Concen: 0.529 ppbv m

RT: 25.01 min Scan# 6912

Delta R.T. 0.05 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Instrument :

MSVOA_L

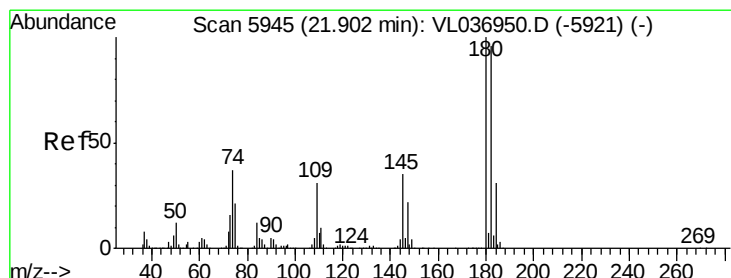
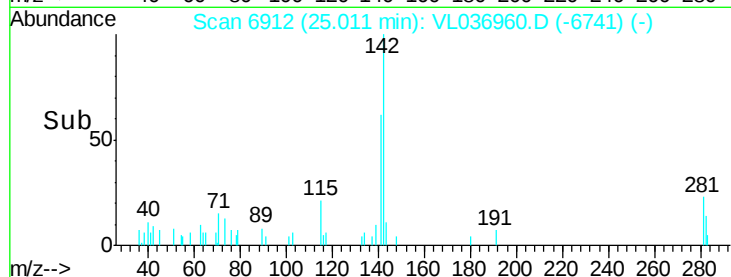
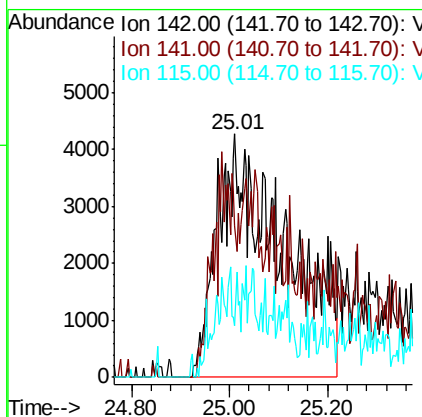
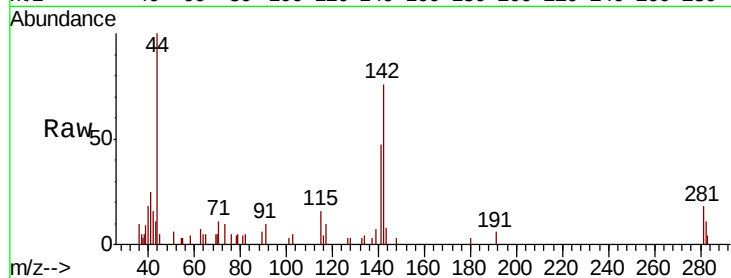
ClientSampleId :

QC051121 CAN 10604

Tot Ion:	142	Resp:	39514
Ion Ratio	Lower	Upper	
142	100		
141	2.6	69.3	103.9#
115	1.0	29.1	43.7#

Manual Integrations
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#81

1,2,4-Trichlorobenzene

Concen: 0.117 ppbv m

RT: 21.90 min Scan# 5945

Delta R.T. -0.00 min

Lab File: VL036960.D

Acq: 18 May 2021 9:33

Tgt Ion:	180	Resp:	24397
Ion Ratio	Lower	Upper	
180	100		
182	0.0	81.7	122.5#
184	30.5	24.9	37.3

