

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036081.D
 Acq On : 8 Dec 2020 1:47
 Operator : SY/AP
 Sample : L4948-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 5:45:20 PM

Quant Time: Dec 08 21:23:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1155090	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2556647	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2303711	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1872275	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	42732m	0.317	ppbv	
3) Chlorodifluoromethane	3.00	51	47743	0.362	ppbv	93
4) Chloromethane	3.15	50	39552m	0.611	ppbv	
9) Propene	3.02	41	41312	0.626	ppbv	86
11) Trichlorofluoromethane	3.96	101	41754m	0.264	ppbv	
13) Ethanol	3.62	45	401110m	44.073	ppbv	
15) Acetone	3.87	43	221624m	1.596	ppbv	
20) Methylene Chloride	4.36	84	166024m	2.918	ppbv	
26) Hexane	5.70	57	162115m	1.299	ppbv	
30) Cyclohexane	7.15	84	20483m	0.223	ppbv	
35) Carbon Tetrachloride	7.03	117	10327m	0.069	ppbv	
36) Benzene	6.92	78	41326	0.191	ppbv	96
53) Toluene	9.83	91	65594	0.270	ppbv	95
59) m/p-Xylene	13.00	91	69738m	0.262	ppbv	

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

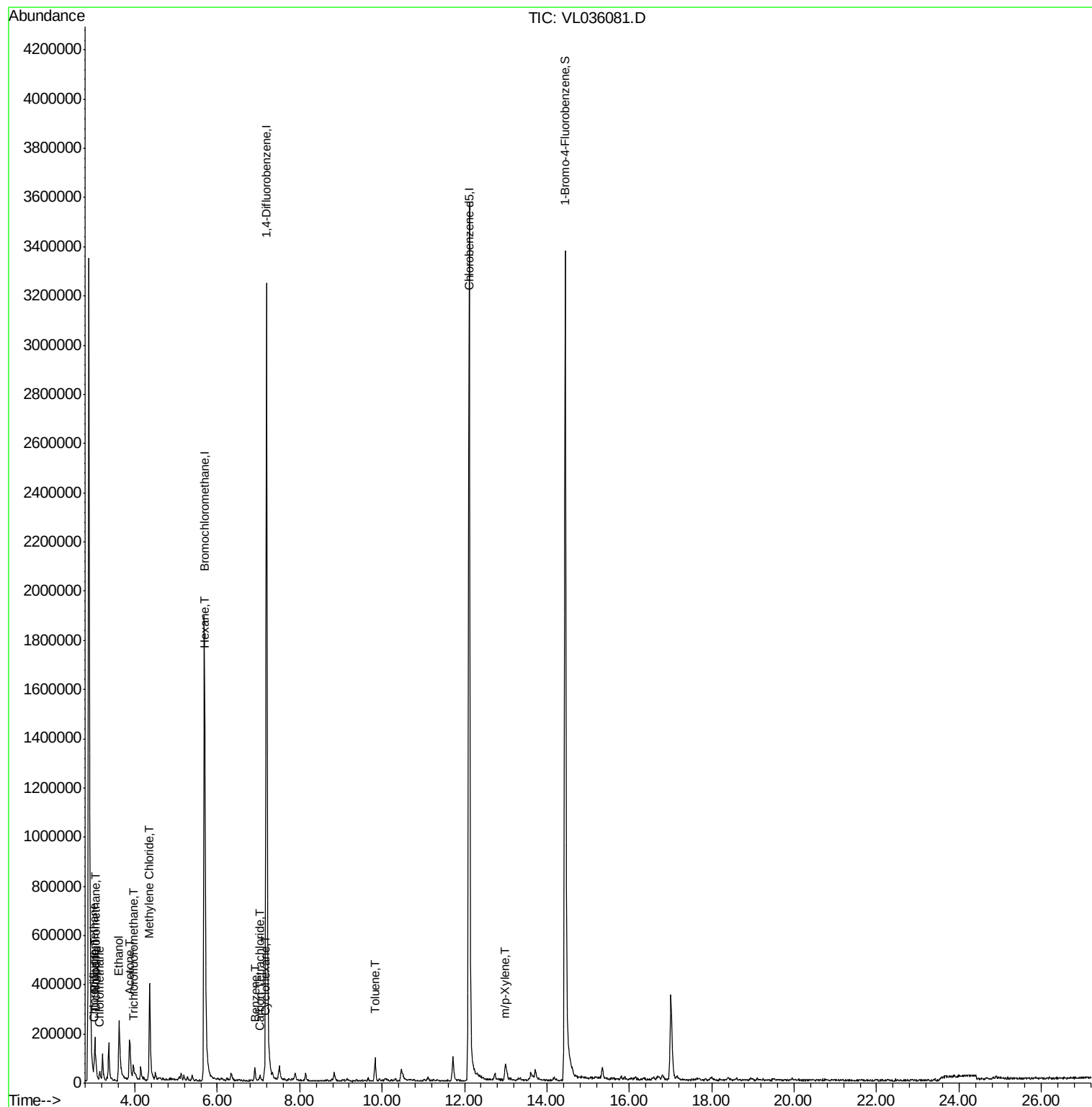
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120720\
Data File : VL036081.D
Acq On : 8 Dec 2020 1:47
Operator : SY/AP
Sample : L4948-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

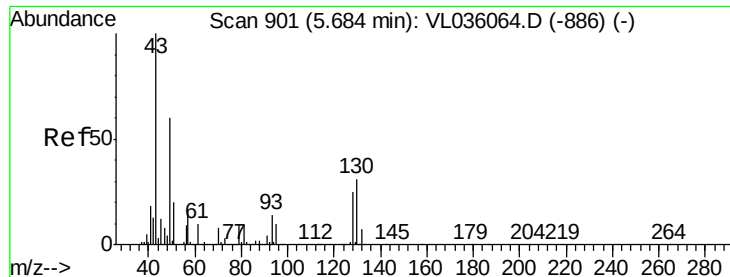
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
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Quant Time: Dec 08 21:23:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 49 Resp: 1155090

Ion Ratio Lower Upper

49 100

128 39.2 21.1 63.1

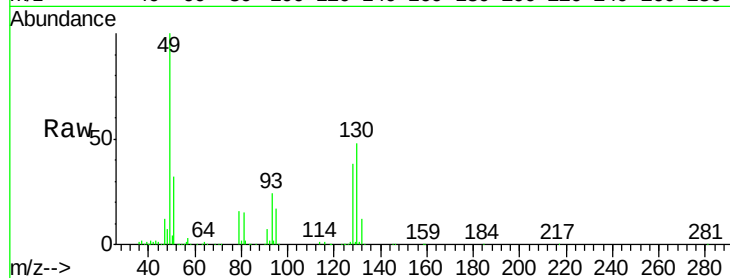
130 50.4 27.1 81.3

Manual Integrations

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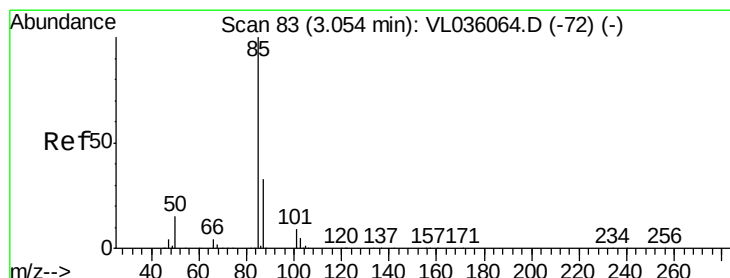
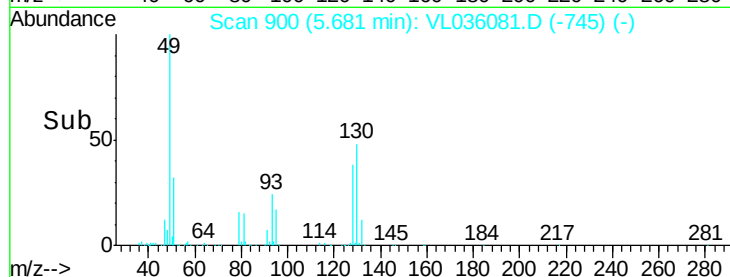
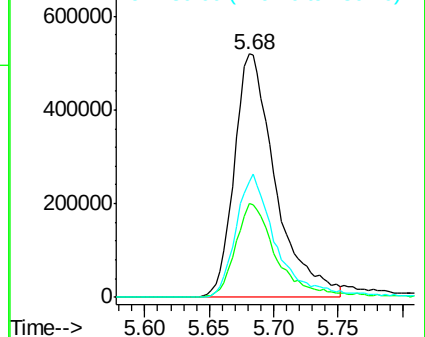
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.317 ppbv m

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL036081.D

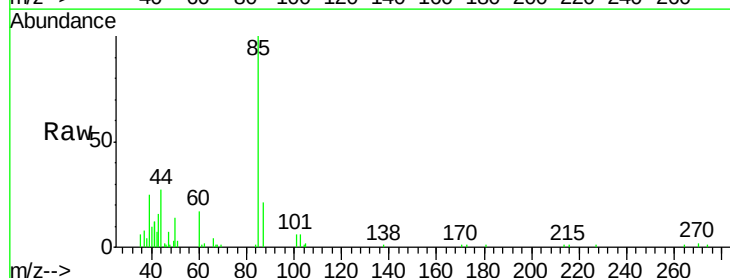
Acq: 8 Dec 2020 1:47

Tgt Ion: 85 Resp: 42732

Ion Ratio Lower Upper

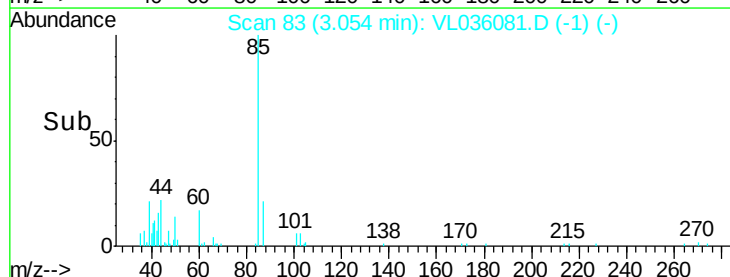
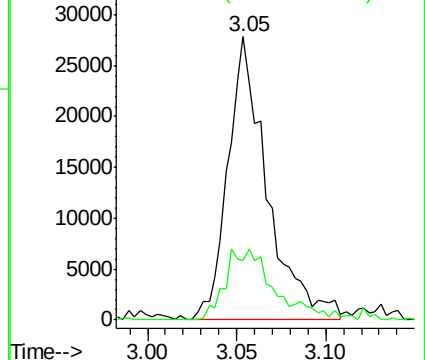
85 100

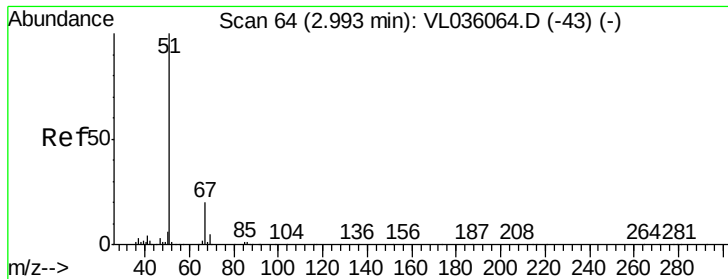
87 21.2 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.362 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 51 Resp: 47743

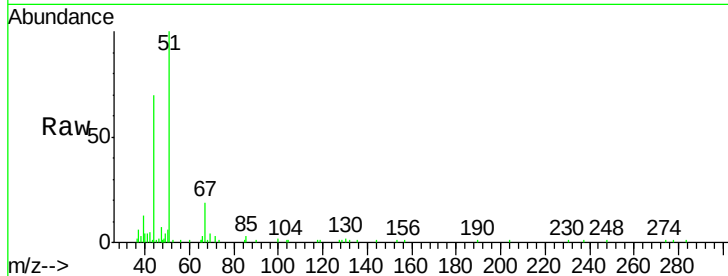
Ion Ratio Lower Upper

51 100

67 14.9 14.3 21.5

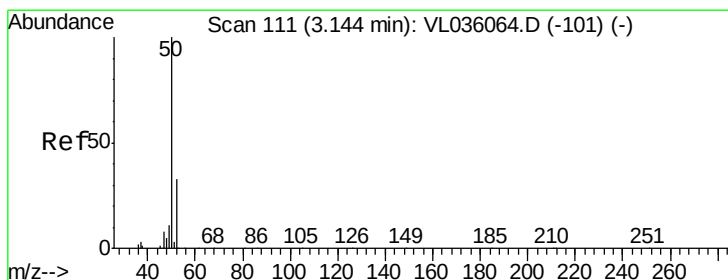
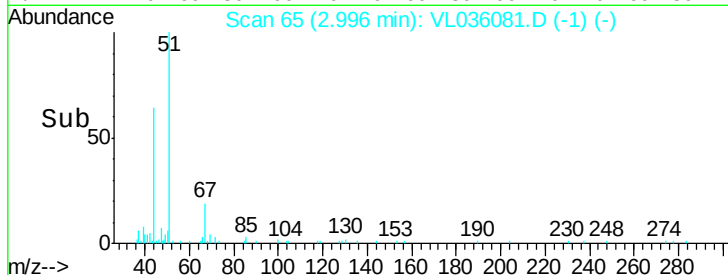
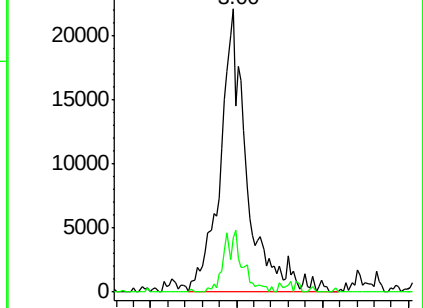
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.611 ppbv m

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL036081.D

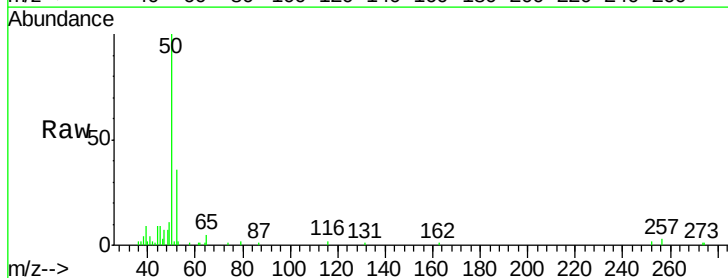
Acq: 8 Dec 2020 1:47

Tgt Ion: 50 Resp: 39552

Ion Ratio Lower Upper

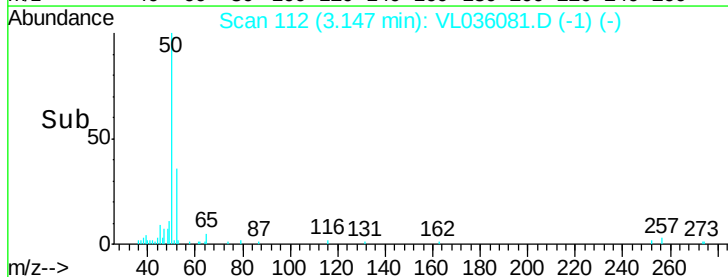
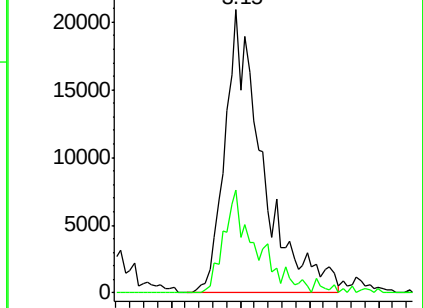
50 100

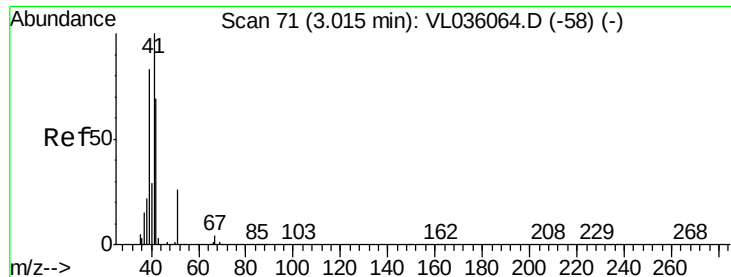
52 36.2 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.626 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 41 Resp: 41312

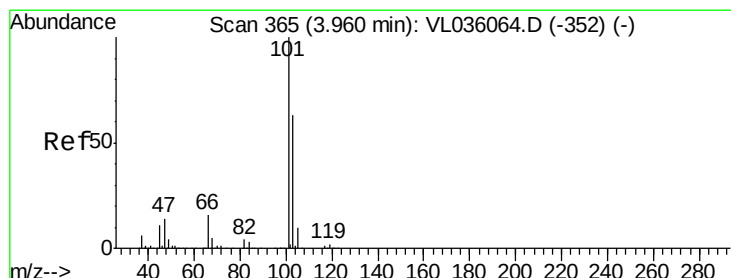
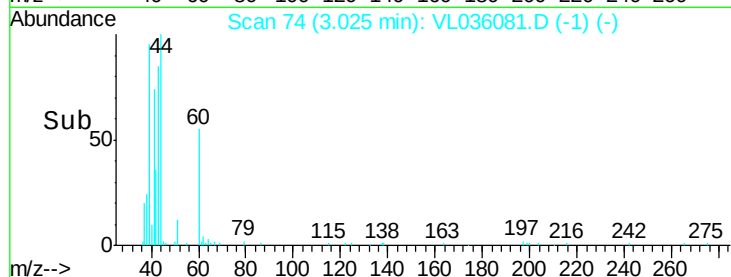
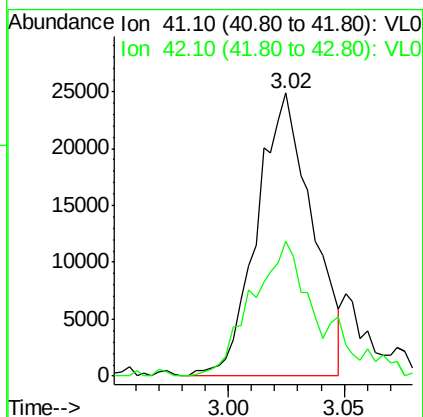
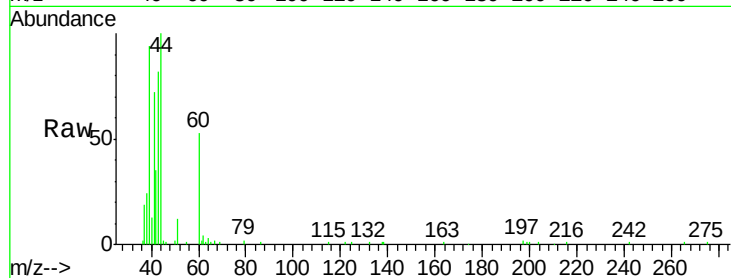
Ion Ratio Lower Upper

41 100

42 59.8 57.0 85.6

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#11

Trichlorofluoromethane

Concen: 0.264 ppbv m

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL036081.D

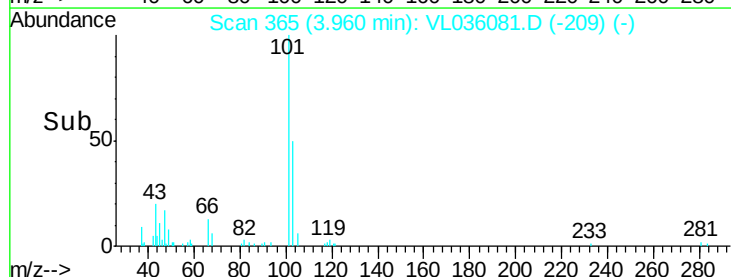
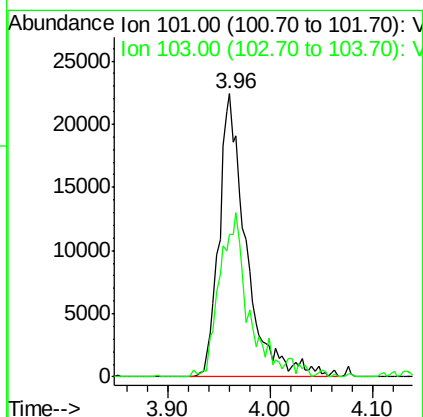
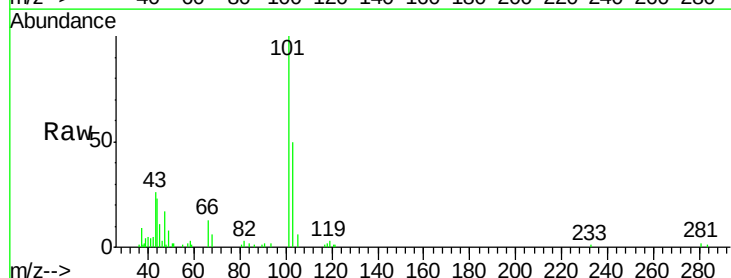
Acq: 8 Dec 2020 1:47

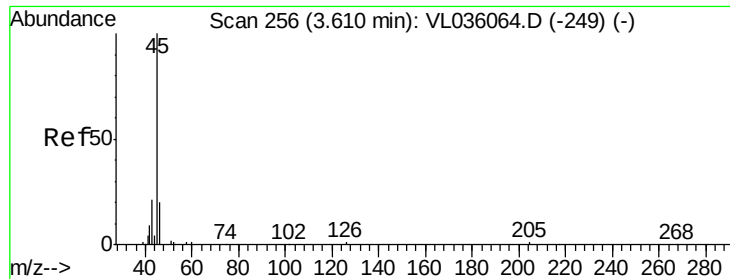
Tgt Ion:101 Resp: 41754

Ion Ratio Lower Upper

101 100

103 50.2 50.3 75.5#





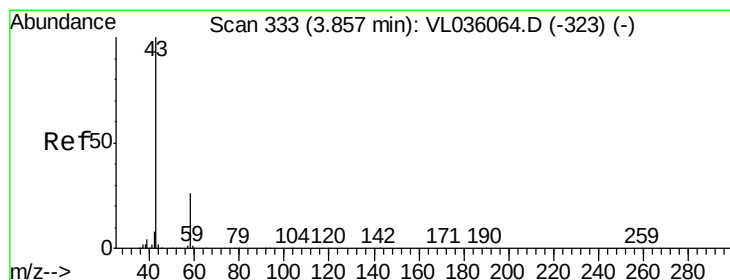
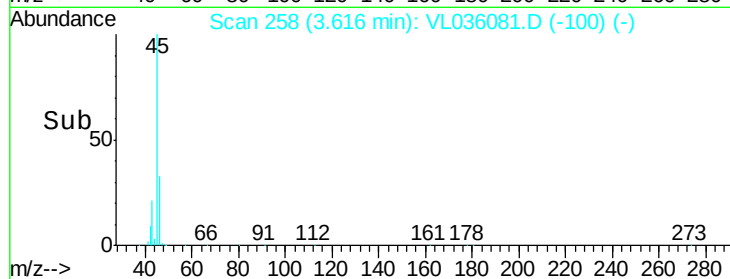
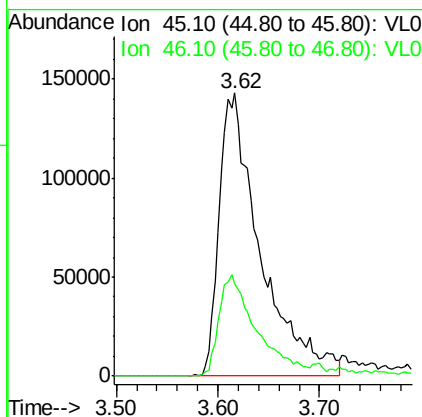
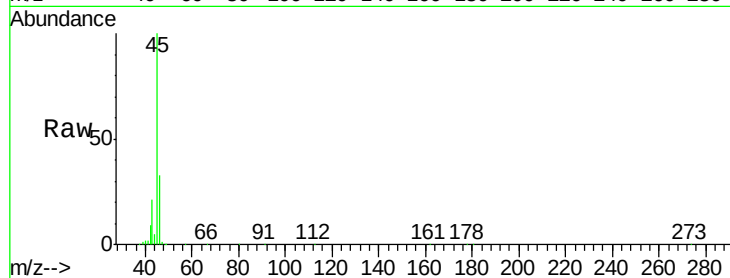
#13
Ethanol
Concen: 44.073 ppbv m
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 45 Resp: 401110
Ion Ratio Lower Upper
45 100
46 37.2 19.0 75.8

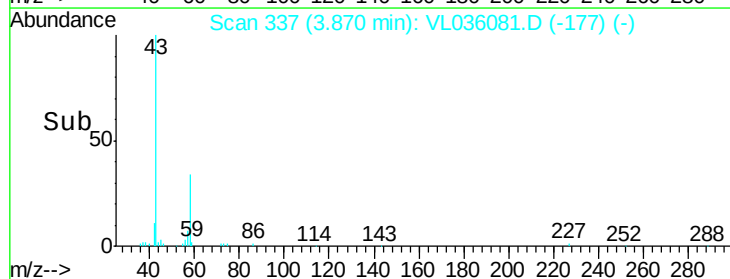
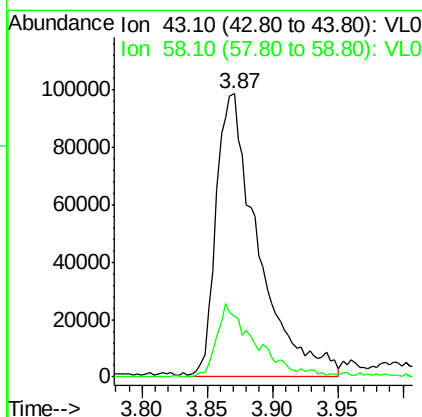
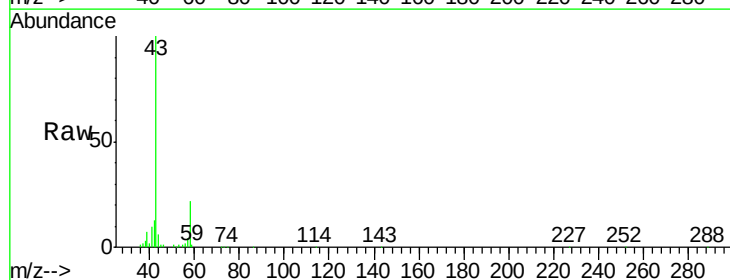
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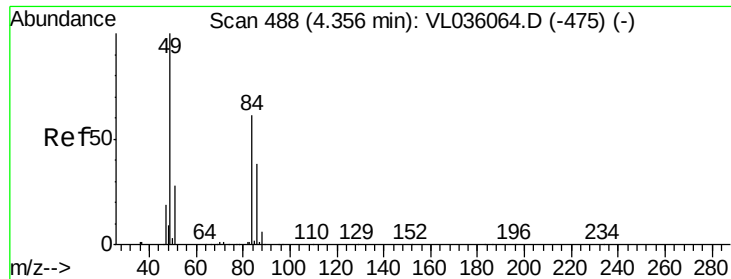
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#15
Acetone
Concen: 1.596 ppbv m
RT: 3.87 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion: 43 Resp: 221624
Ion Ratio Lower Upper
43 100
58 24.7 20.9 31.3





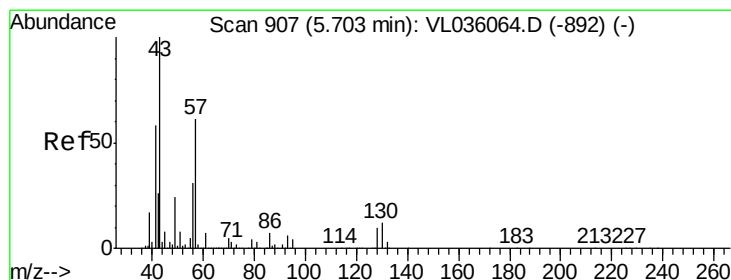
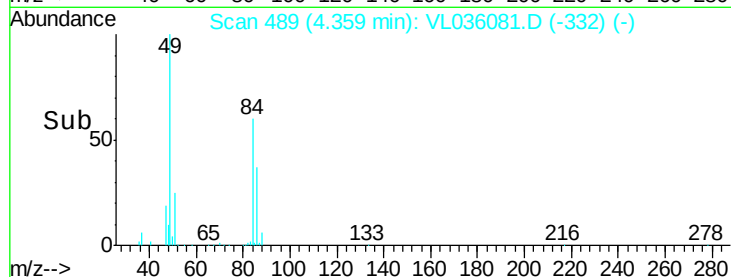
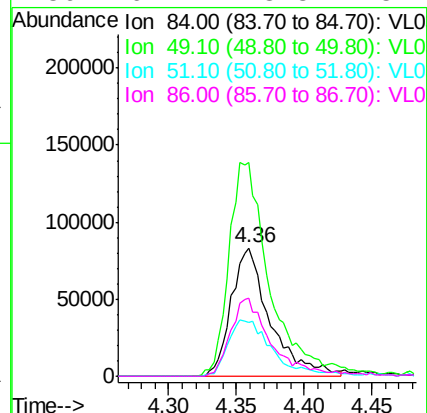
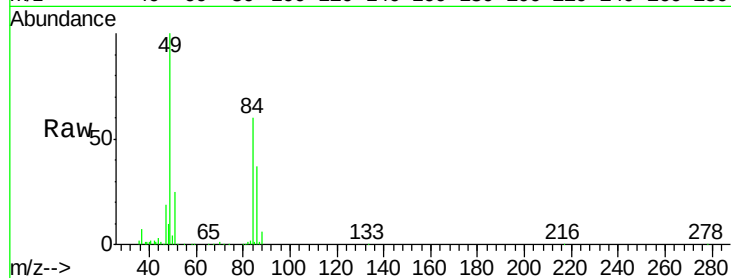
#20
Methvlene Chloride
Concen: 2.918 ppbv m
RT: 4.36 min Scan# 489
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion:	84	Resp:	166024
Ion Ratio	Lower	Upper	
84	100		
49	166.0	133.0	199.4
51	42.1	38.9	58.3
86	61.1	48.8	73.2

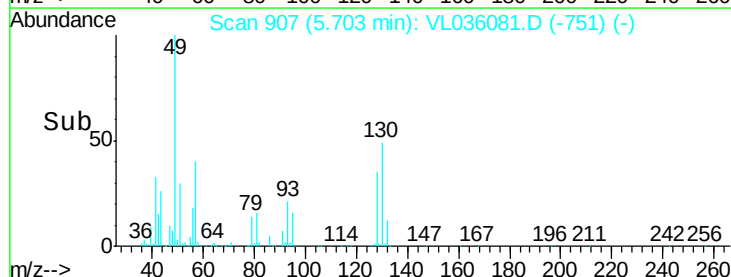
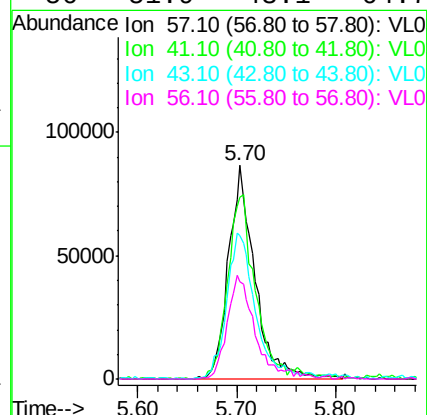
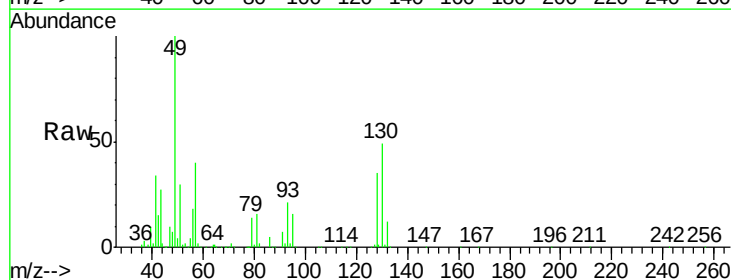
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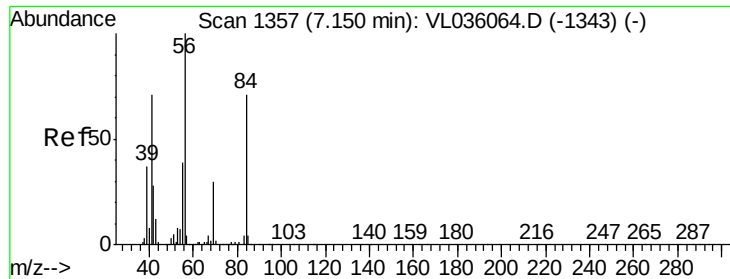
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#26
Hexane
Concen: 1.299 ppbv m
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion:	57	Resp:	162115
Ion Ratio	Lower	Upper	
57	100		
41	93.5	82.9	124.3
43	74.9	199.9	299.9#
56	51.9	43.1	64.7





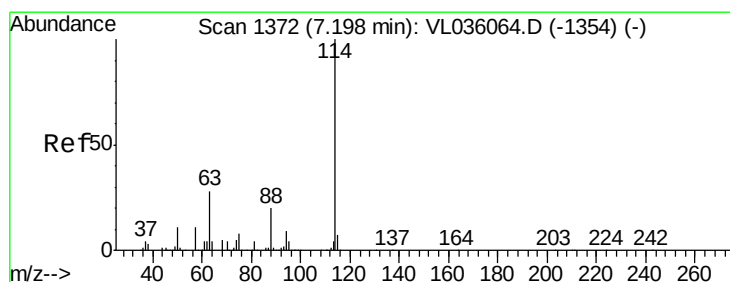
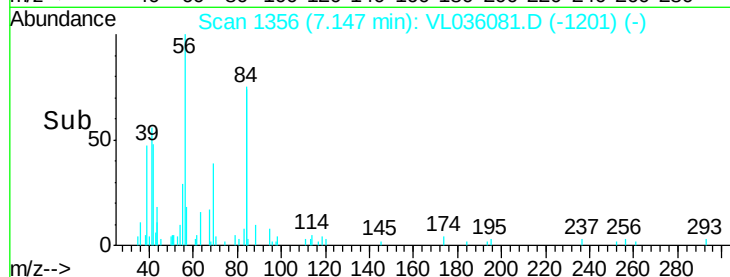
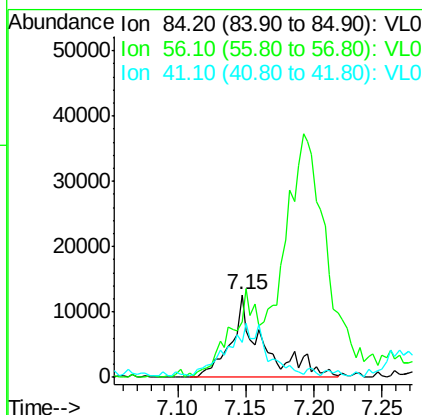
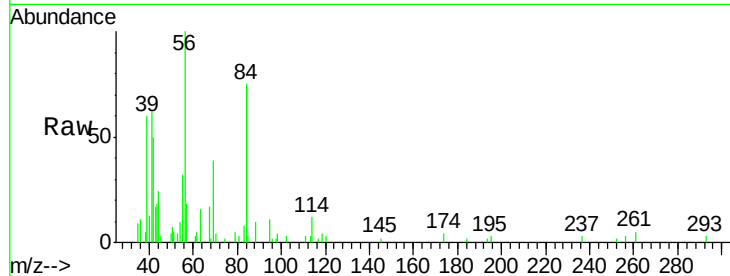
#30
Cyclohexane
Concen: 0.223 ppbv m
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	128.0	192.0#
41	84.3	81.3	121.9

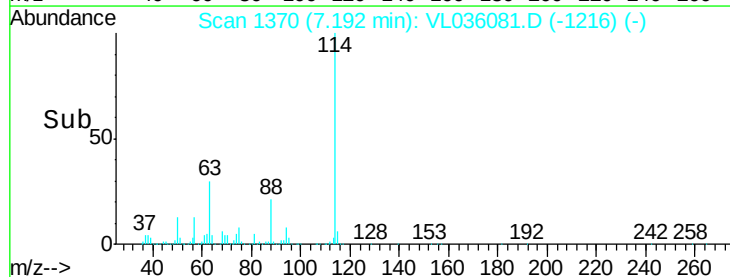
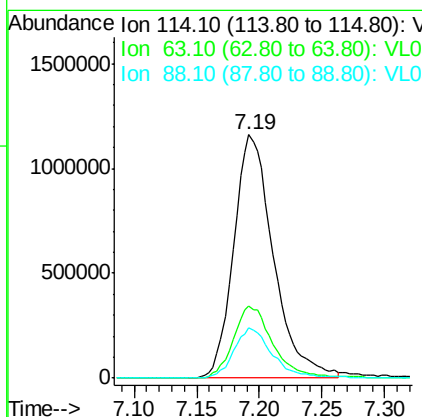
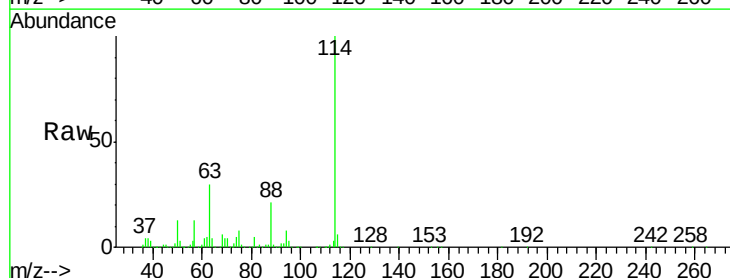
Manual Integrations
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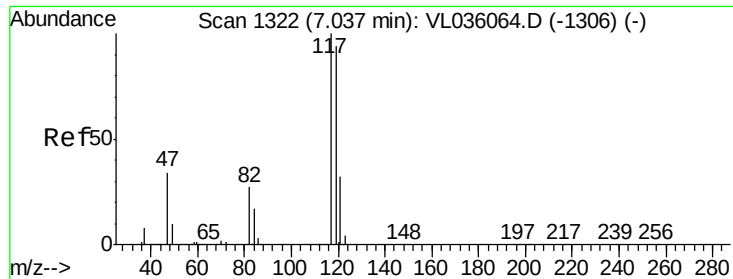
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.3	23.6	35.4
88	20.4	15.8	23.6





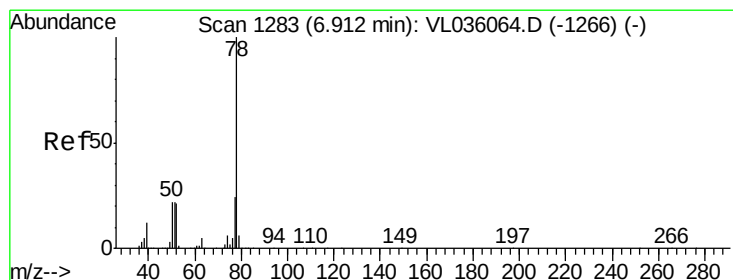
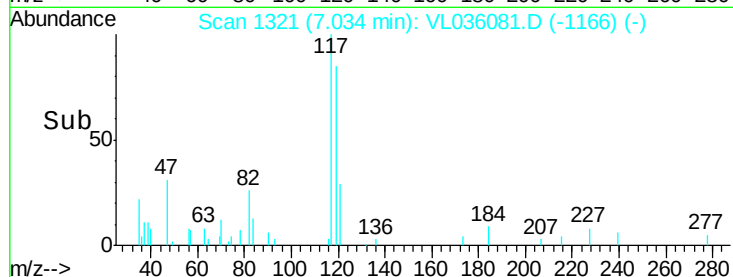
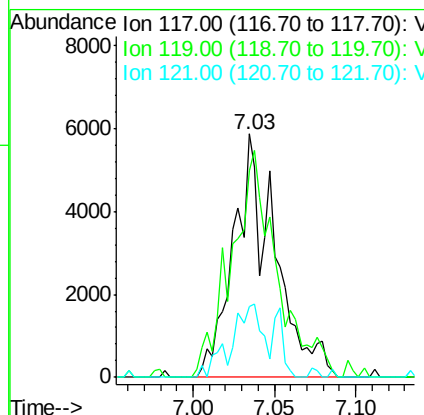
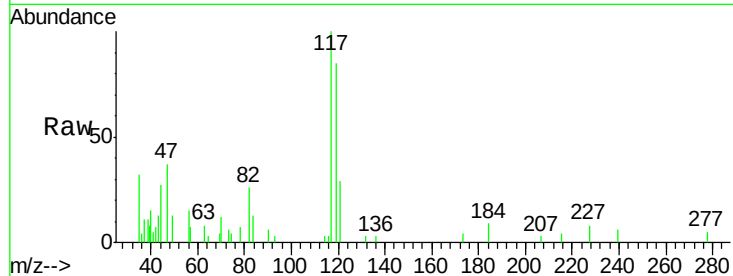
#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. -0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	84.6	75.1	112.7
121	29.2	25.6	38.4

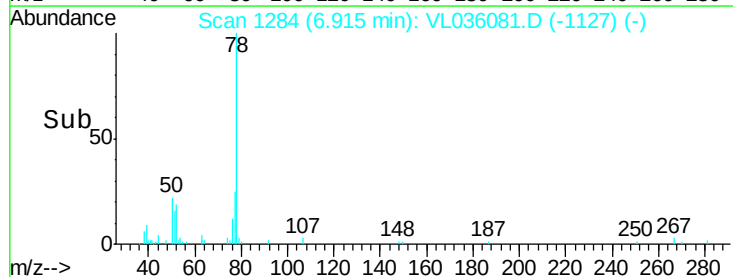
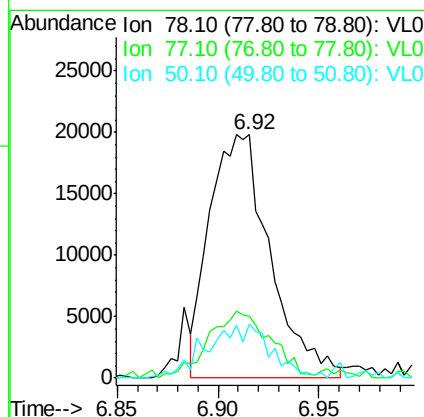
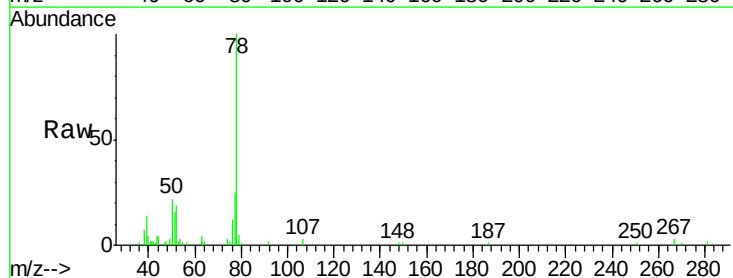
Manual Integrations
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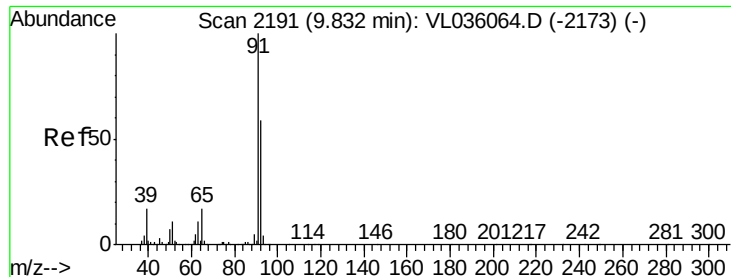
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#36
Benzene
Concen: 0.191 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.4	29.2
50	19.9	17.8	26.8





#53

Toluene

Concen: 0.270 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tot Ion: 91 Resp: 65594

Ion Ratio Lower Upper

91 100

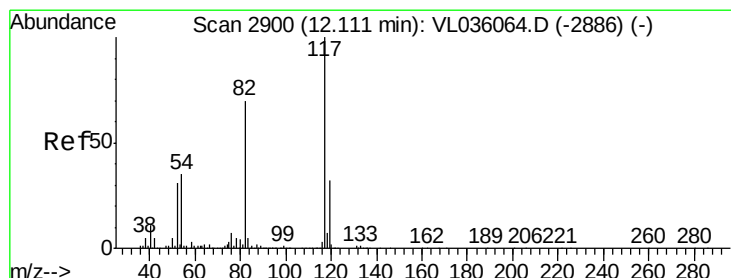
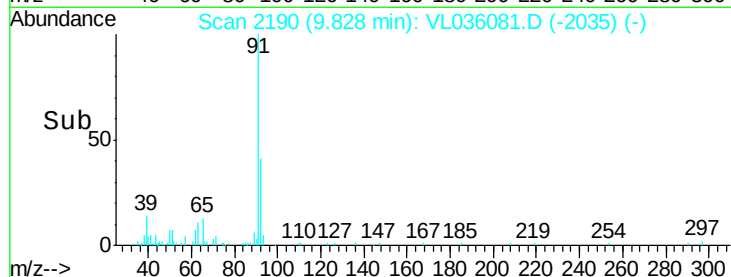
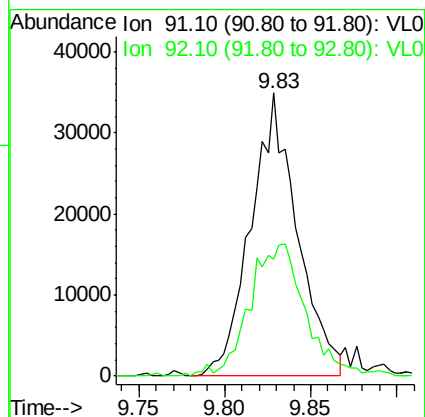
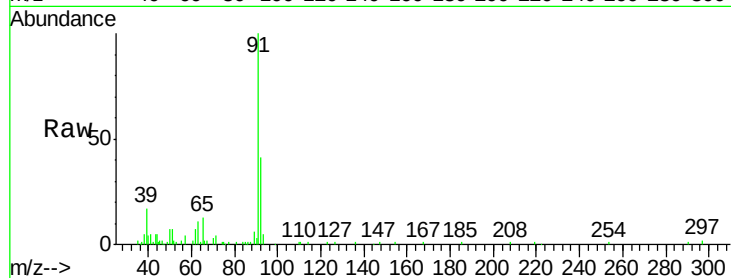
92 56.5 48.2 72.2

Manual Integrations

APPROVED

MMDadoda

12/11/2020 5:45:20 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL036081.D

Acq: 8 Dec 2020 1:47

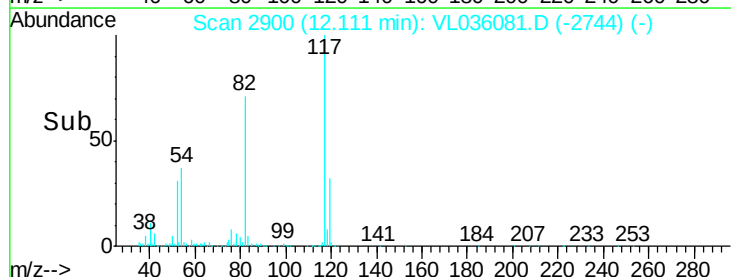
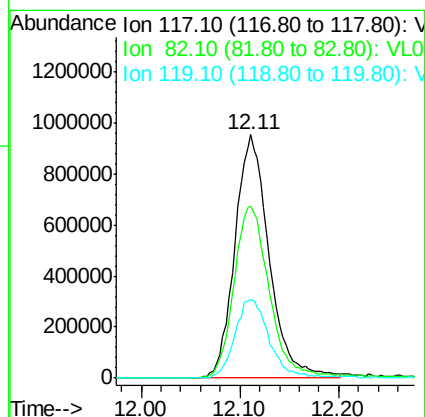
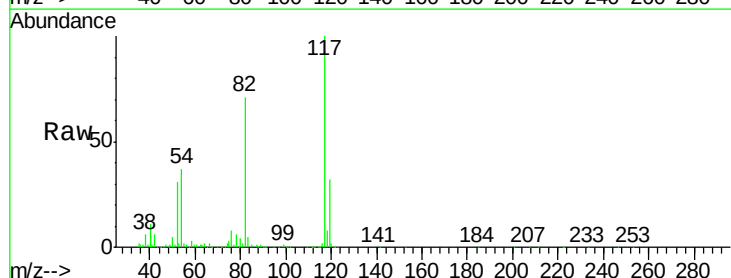
Tgt Ion: 117 Resp: 2303711

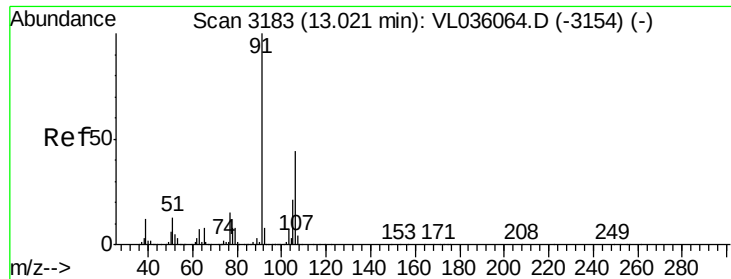
Ion Ratio Lower Upper

117 100

82 74.4 0.0 0.0#

119 32.9 0.0 0.0#





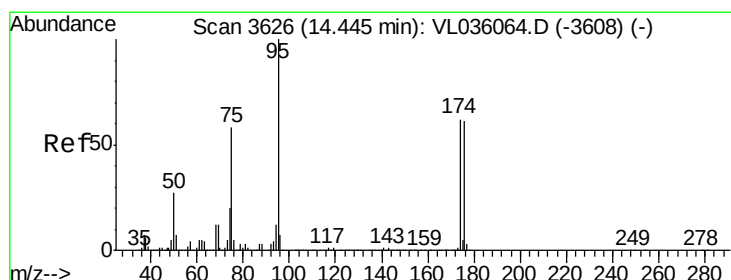
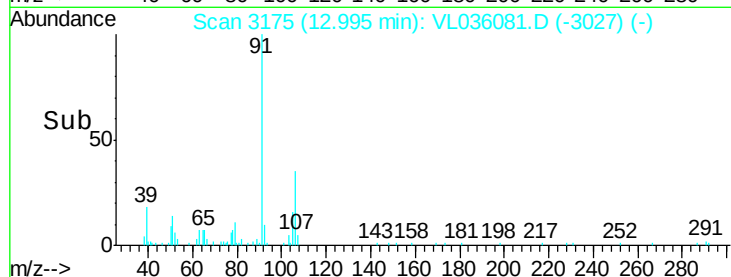
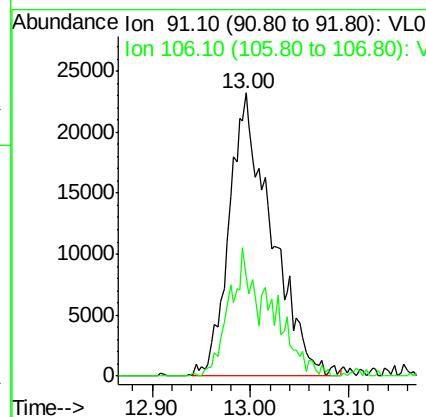
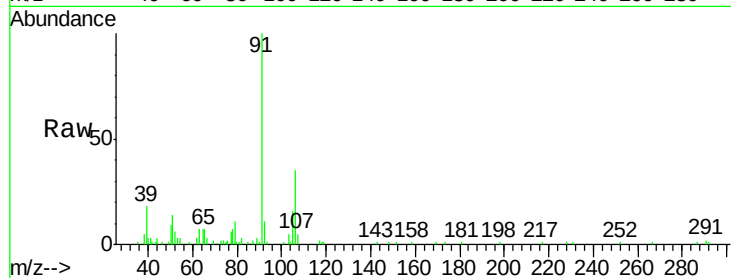
#59
m/p-Xylene
Concen: 0.262 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 91 Resp: 69738
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#

Manual Integrations
APPROVED

MMDadoda
12/11/2020 5:45:20 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.235 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.00 min
Lab File: VL036081.D
Acq: 8 Dec 2020 1:47

Tgt Ion: 95 Resp: 1872275
Ion Ratio Lower Upper
95 100
174 61.6 50.7 76.1
175 4.5 4.0 6.0

