

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037108.D
 Acq On : 2 Jun 2021 19:13
 Operator : SY/AP
 Sample : M2548-11
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-19A

Manual Integrations
 APPROVED

MMDadoda
 6/7/2021 3:01:05 PM

Quant Time: Jun 06 20:13:46 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	1326872	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3950603	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3559391	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2588631	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	137267	0.610	ppbv	98
3) Chlorodifluoromethane	2.98	51	73471m	0.302	ppbv	
4) Chloromethane	3.13	50	43215m	0.522	ppbv	
9) Propene	3.01	41	72898	0.837	ppbv #	71
11) Trichlorofluoromethane	3.94	101	69861m	0.335	ppbv	
13) Ethanol	3.59	45	3327220	286.486	ppbv	94
15) Acetone	3.84	43	1462093	10.758	ppbv	94
19) Isopropyl Alcohol	3.96	45	681405	9.327	ppbv #	38
20) Methylene Chloride	4.33	84	102193	1.403	ppbv	96
26) Hexane	5.67	57	199886	1.198	ppbv #	49
29) Chloroform	5.74	83	52000	0.221	ppbv	97
34) 2-Butanone	5.24	43	62108	0.432	ppbv #	87
35) Carbon Tetrachloride	7.01	117	12754	0.049	ppbv #	75
36) Benzene	6.88	78	33468m	0.098	ppbv	
53) Toluene	9.79	91	150412	0.371	ppbv	97
59) m/p-Xylene	12.96	91	42519m	0.102	ppbv	

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

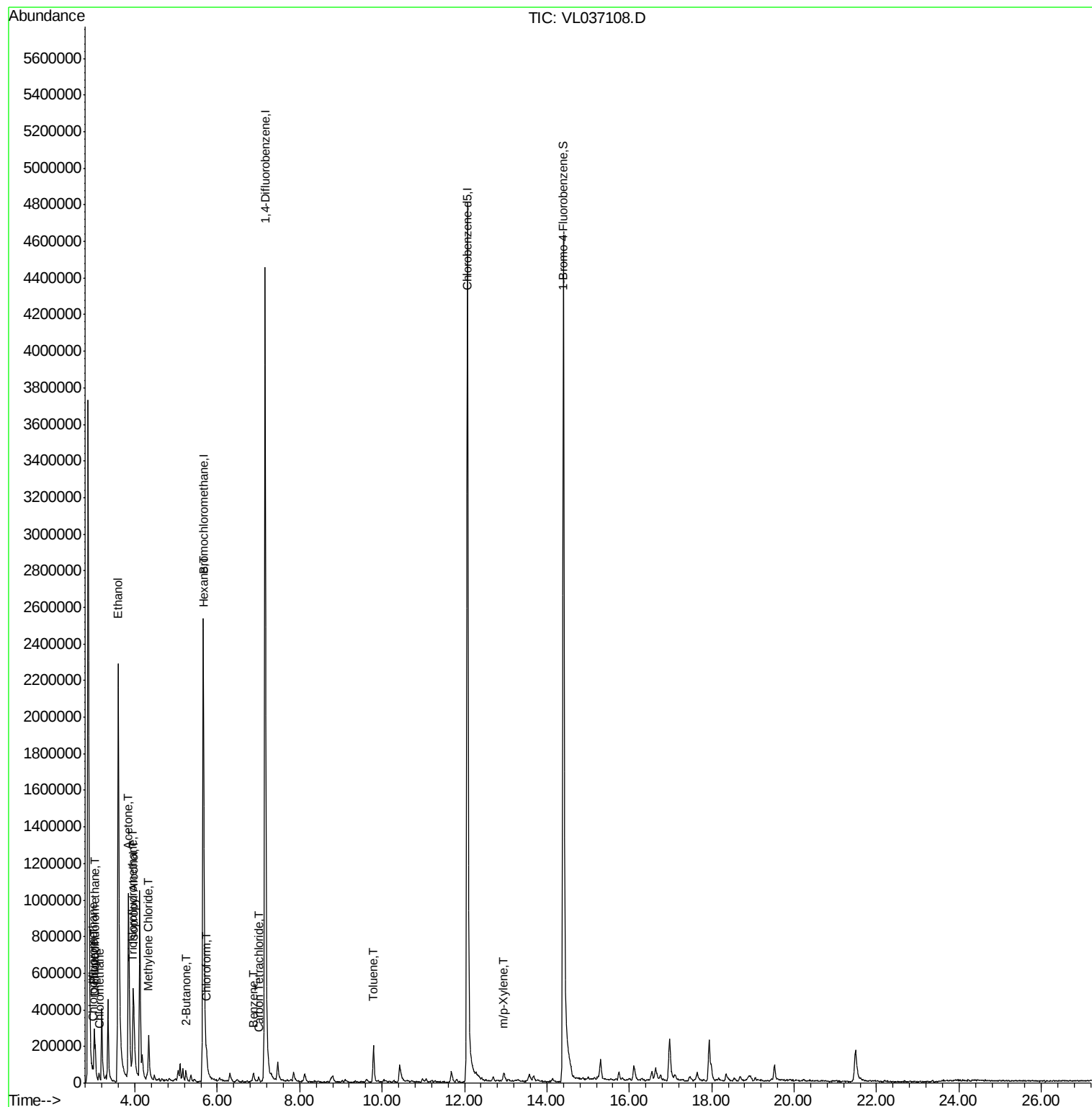
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060221\
Data File : VL037108.D
Acq On : 2 Jun 2021 19:13
Operator : SY/AP
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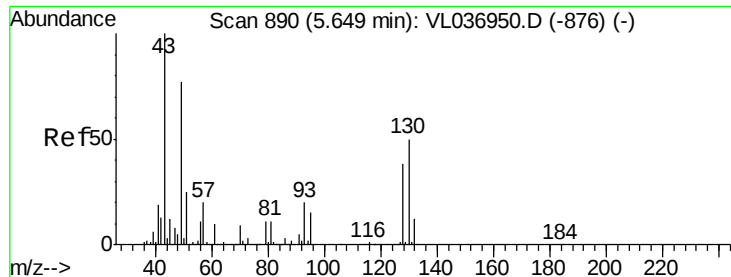
Instrument :
MSVOA_L
ClientSampleId :
IA-19A

Manual Integrations
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Quant Time: Jun 06 20:13:46 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# 891

Delta R.T. 0.00 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Instrument :

MSVOA_L

ClientSampleId :

IA-19A

Tot Ion: 49 Resp: 1326872

Ion Ratio Lower Upper

49 100

128 57.7 26.9 80.7

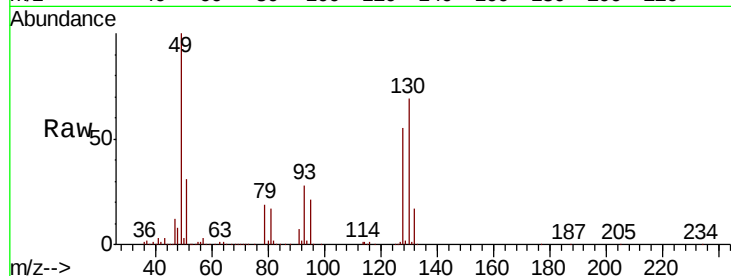
130 74.8 33.8 101.4

Manual Integrations

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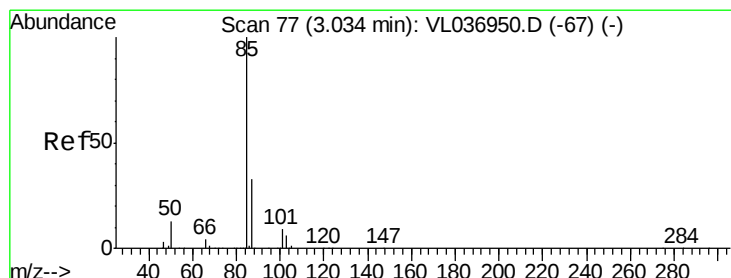
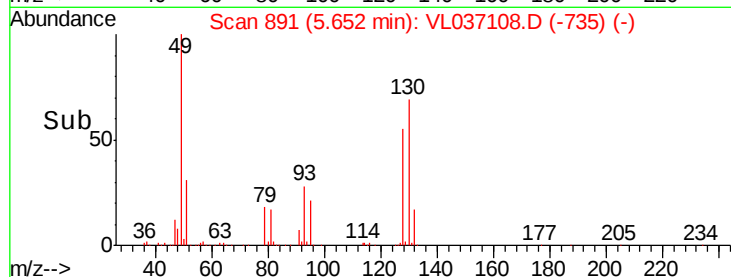
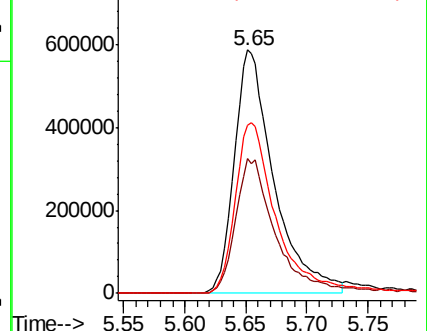
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.610 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL037108.D

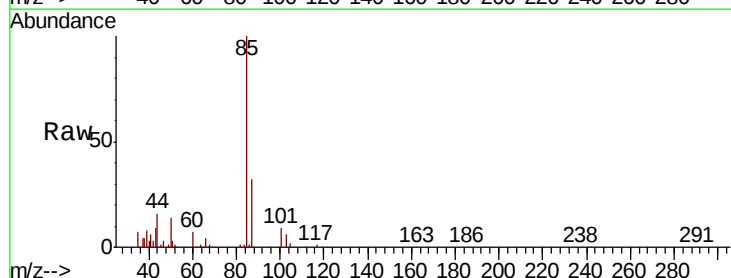
Acq: 2 Jun 2021 19:13

Tgt Ion: 85 Resp: 137267

Ion Ratio Lower Upper

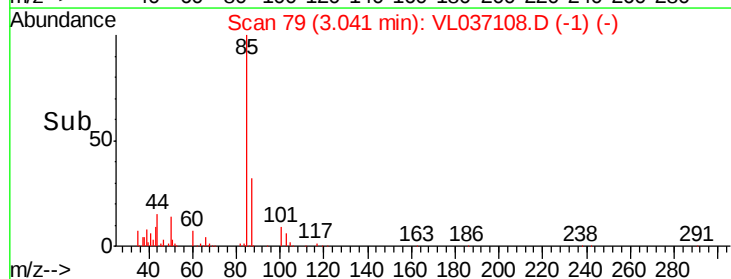
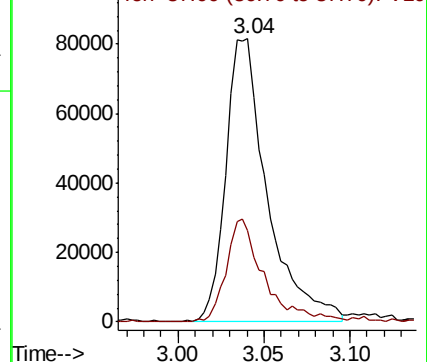
85 100

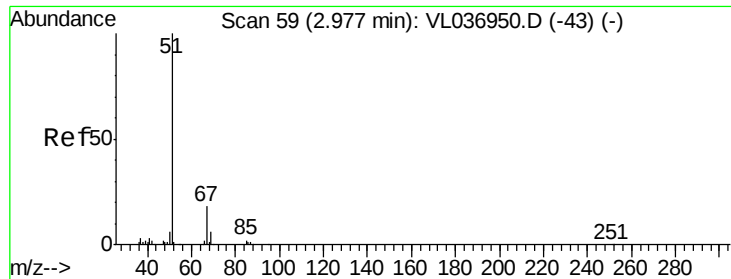
87 32.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.302 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Instrument :

MSVOA_L

ClientSampled :

IA-19A

Tot Ion: 51 Resp: 73471

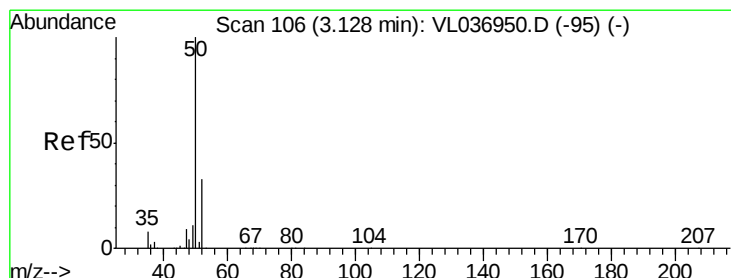
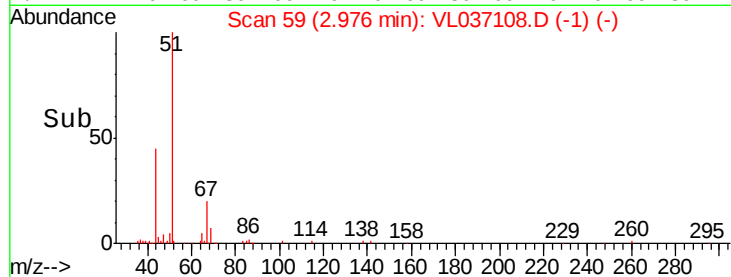
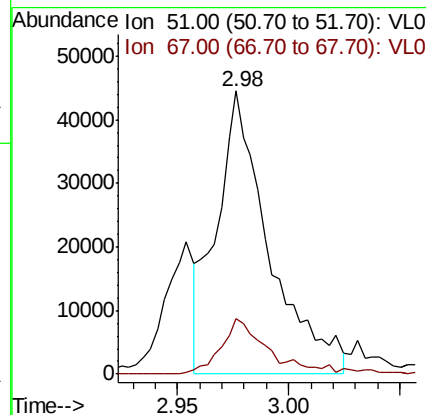
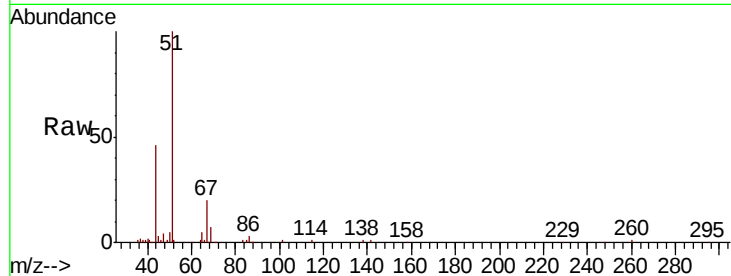
Ion Ratio Lower Upper

51 100

67 18.7 14.6 21.8

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#4

Chloromethane

Concen: 0.522 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037108.D

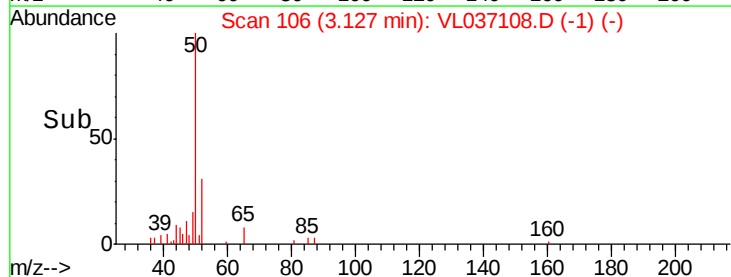
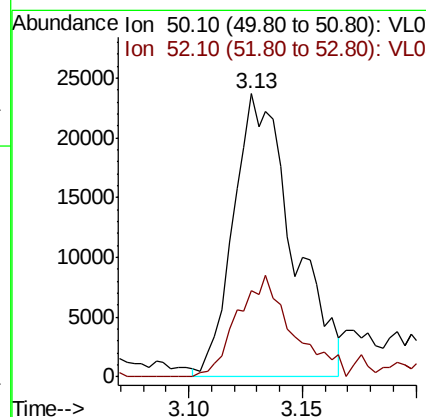
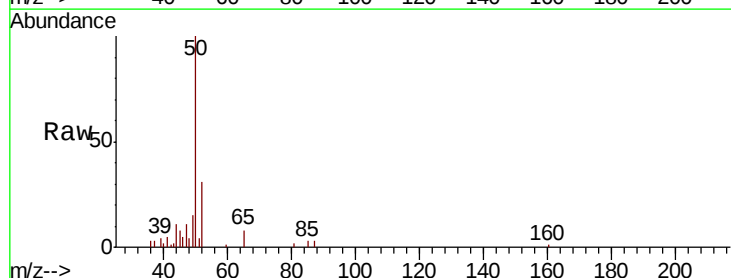
Acq: 2 Jun 2021 19:13

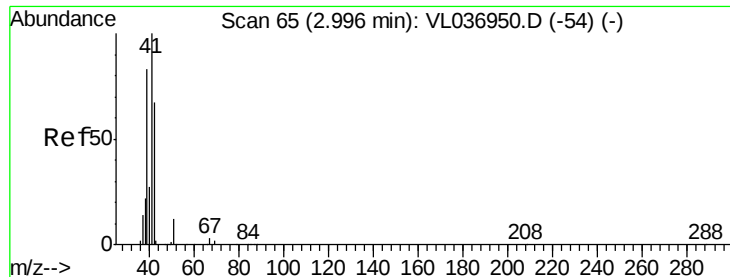
Tgt Ion: 50 Resp: 43215

Ion Ratio Lower Upper

50 100

52 30.6 26.1 39.1





#9

Propene

Concen: 0.837 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Instrument :

MSVOA_L

ClientSampleId :

IA-19A

Tot Ion: 41 Resp: 72898

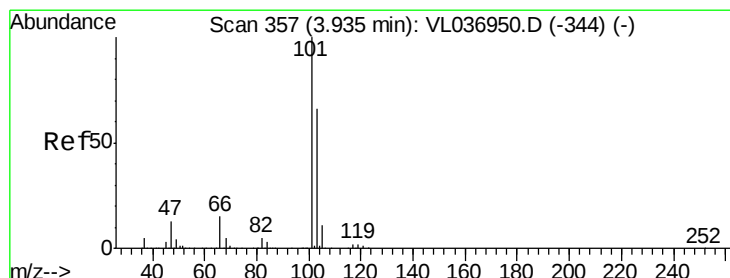
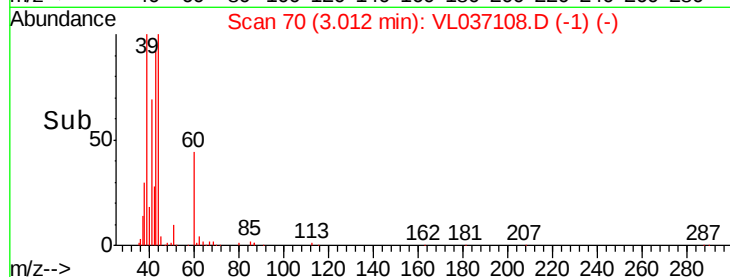
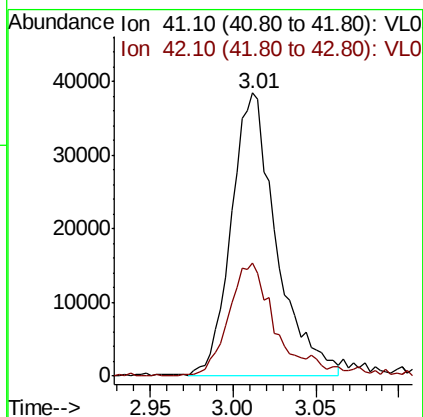
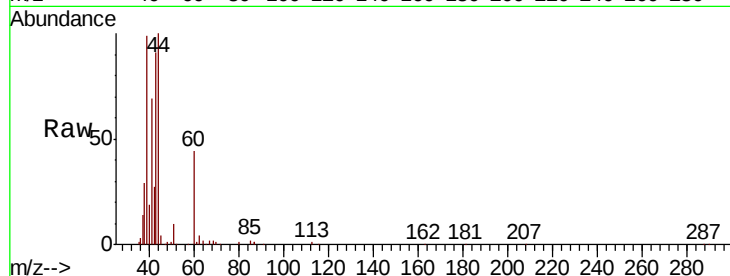
Ion Ratio Lower Upper

41 100

42 43.9 53.9 80.9#

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.335 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL037108.D

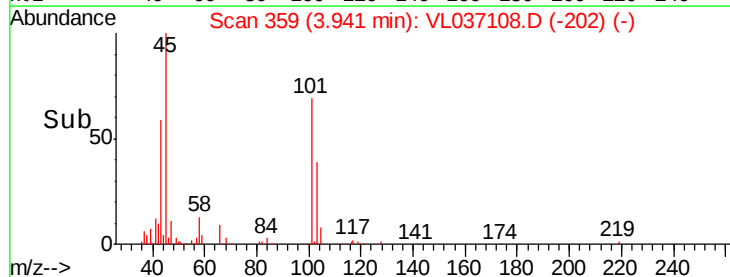
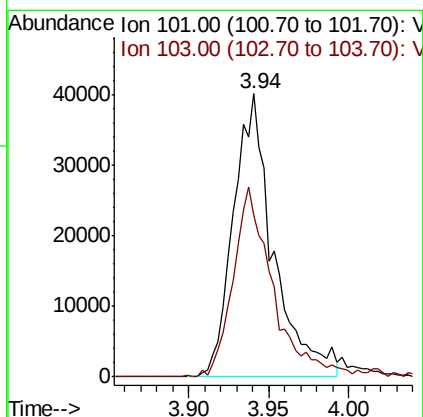
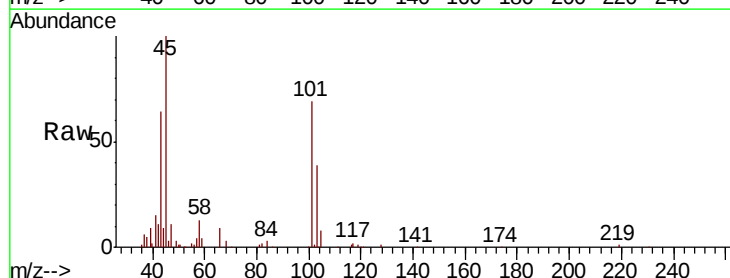
Acq: 2 Jun 2021 19:13

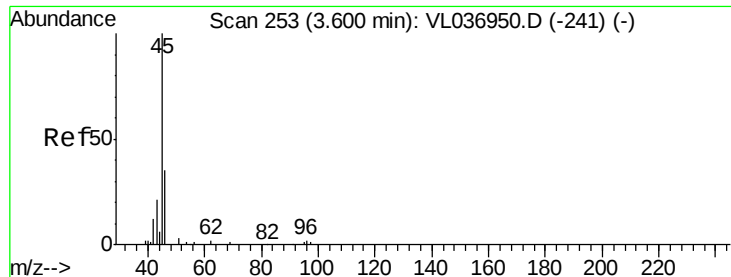
Tgt Ion: 101 Resp: 69861

Ion Ratio Lower Upper

101 100

103 57.2 52.6 79.0





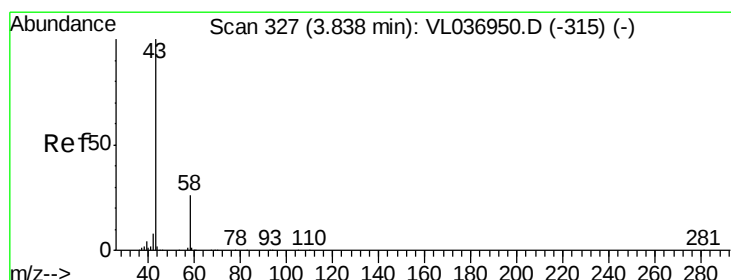
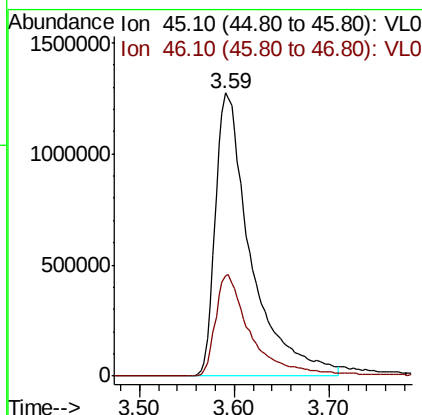
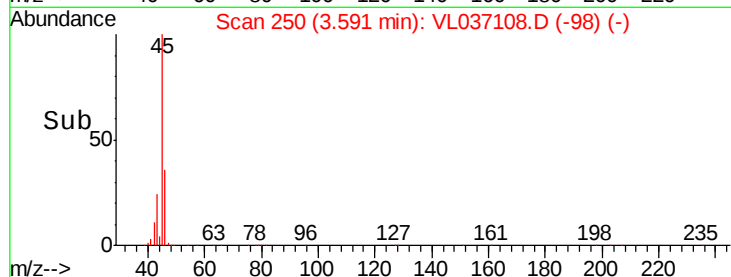
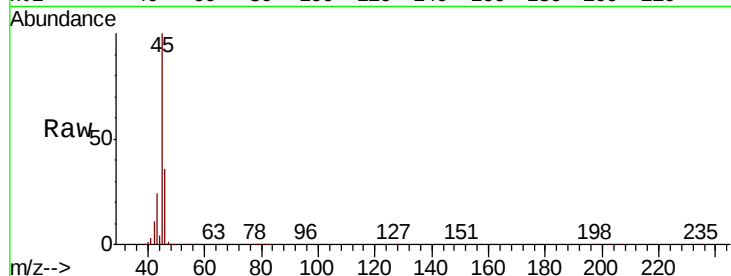
#13
Ethanol
Concen: 286.486 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.01 min
Lab File: VL037108.D
Acq: 2 Jun 2021 19:13

Instrument :
MSVOA_L
ClientSampled :
IA-19A

Tot Ion: 45 Resp: 3327220
Ion Ratio Lower Upper
45 100
46 37.1 16.3 65.3

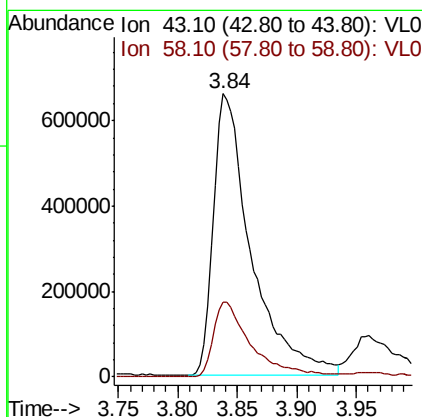
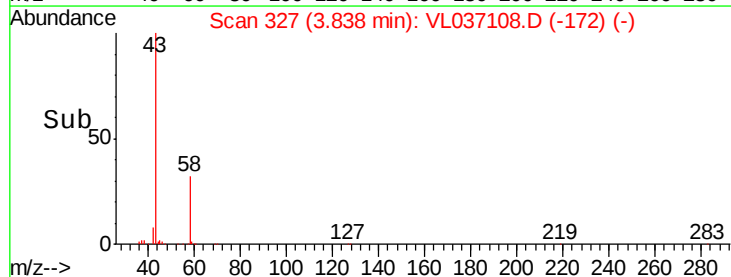
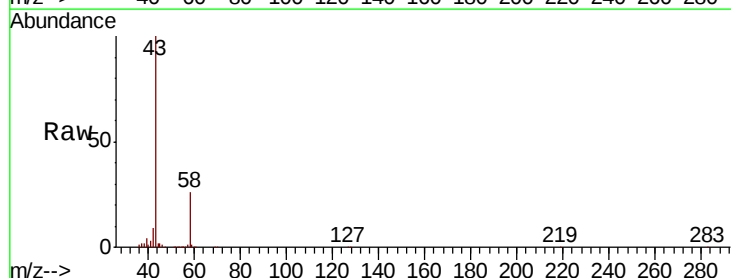
Manual Integrations
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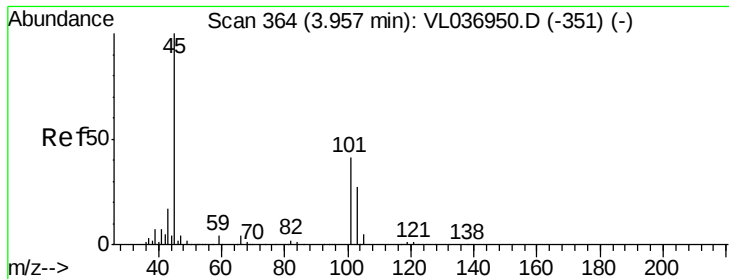
MMDadoda
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#15
Acetone
Concen: 10.758 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL037108.D
Acq: 2 Jun 2021 19:13

Tgt Ion: 43 Resp: 1462093
Ion Ratio Lower Upper
43 100
58 26.7 24.0 36.0





#19

Isopropyl Alcohol

Concen: 9.327 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Instrument :

MSVOA_L

ClientSampleId :

IA-19A

Tot Ion: 45 Resp: 681405

Ion Ratio Lower Upper

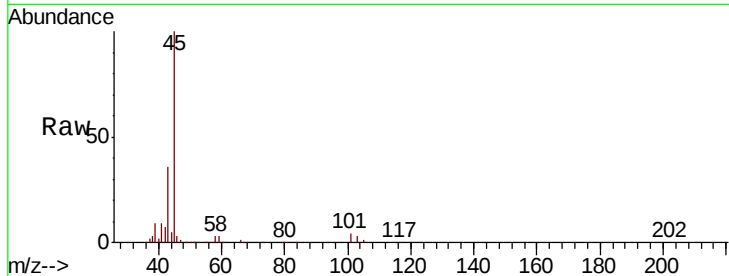
45 100

58 5.5 37.2 55.8#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

250000

200000

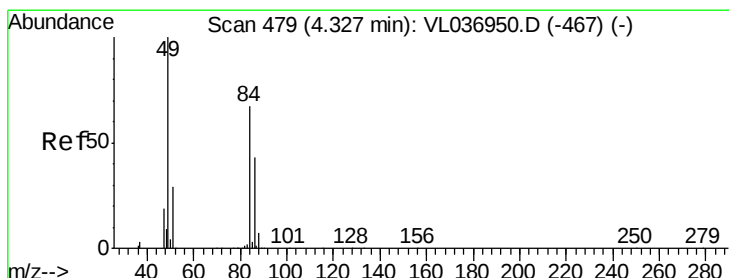
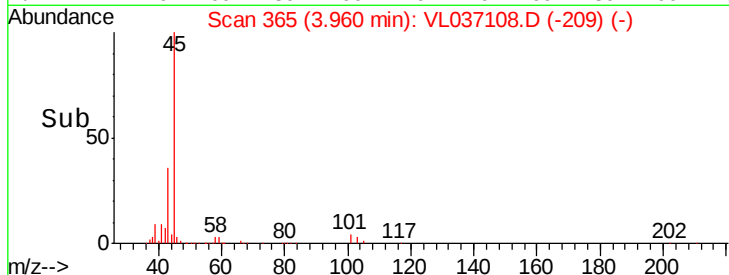
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 1.403 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Tgt Ion: 84 Resp: 102193

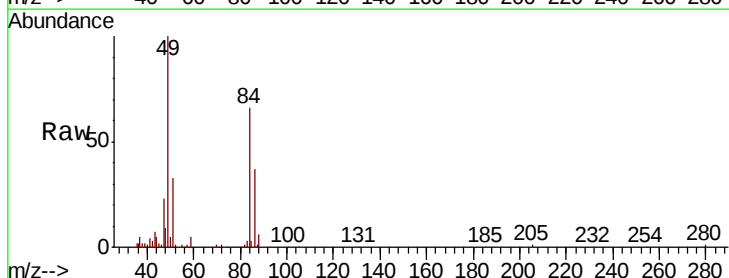
Ion Ratio Lower Upper

84 100

49 149.5 119.8 179.6

51 48.3 35.1 52.7

86 56.5 50.9 76.3



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

120000

100000

80000

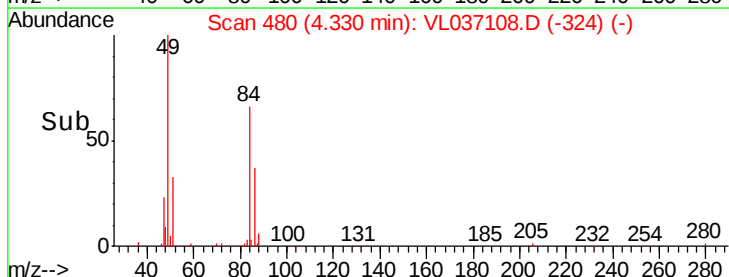
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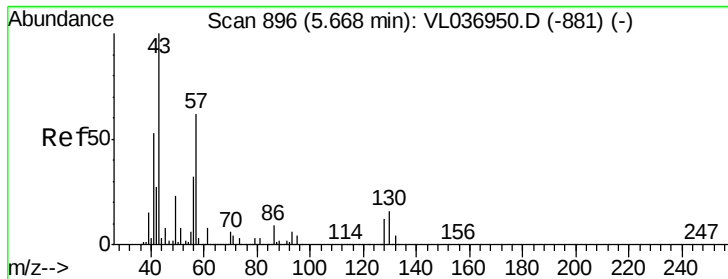
40000

20000

0

Time-->





#26

Hexane

Concen: 1.198 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Instrument :

MSVOA_L

ClientSampled :

IA-19A

Tot Ion: 57 Resp: 199886
Ion Ratio Lower Upper

57 100

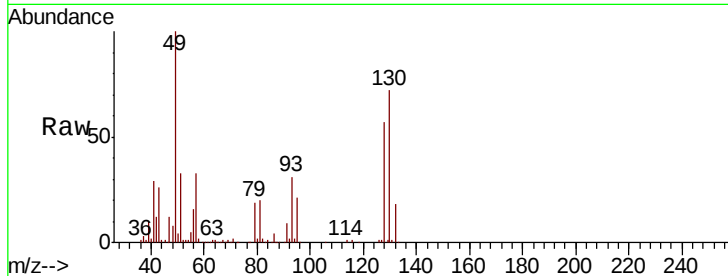
41 95.4 70.5 105.7

43 81.4 165.8 248.8#

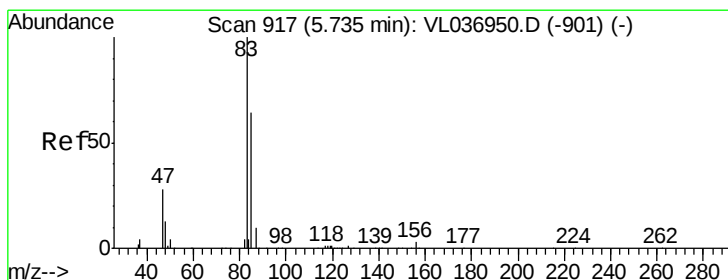
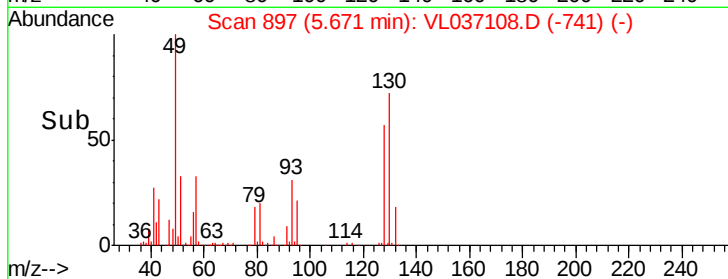
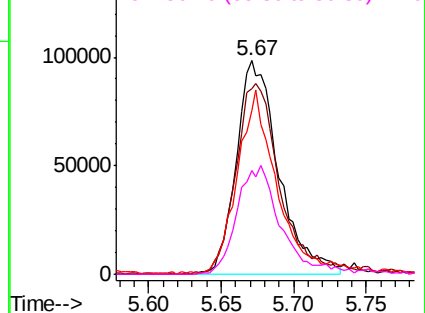
56 53.8 42.2 63.4

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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.221 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.00 min

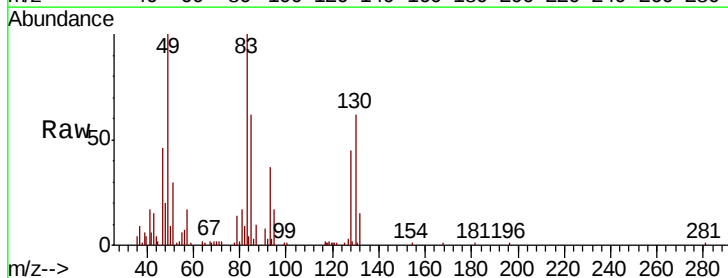
Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

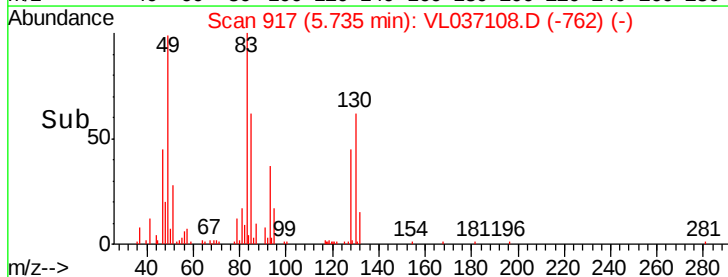
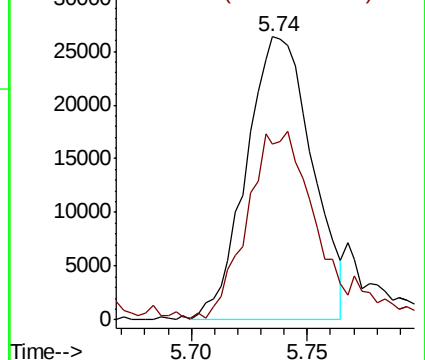
Tgt Ion: 83 Resp: 52000
Ion Ratio Lower Upper

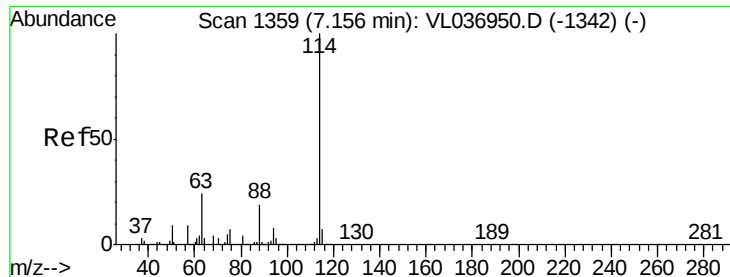
83 100

85 61.3 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





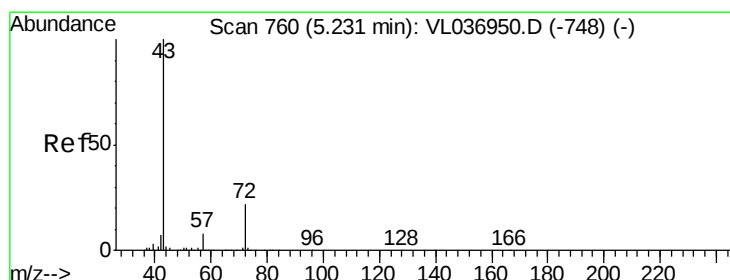
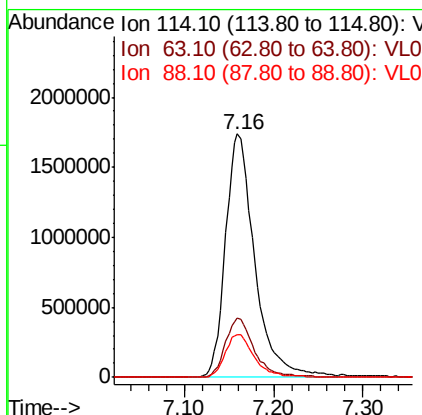
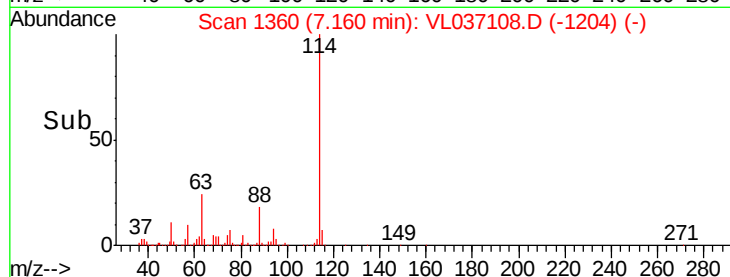
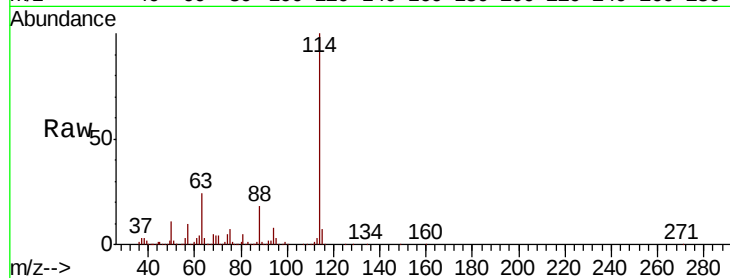
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037108.D
 Acq: 2 Jun 2021 19:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-19A

Tot Ion:114 Resp: 3950603
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.6 29.4
 88 17.9 14.6 21.8

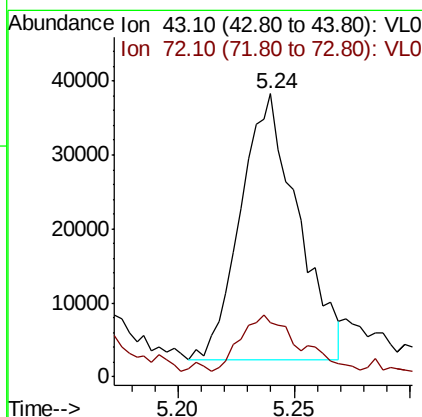
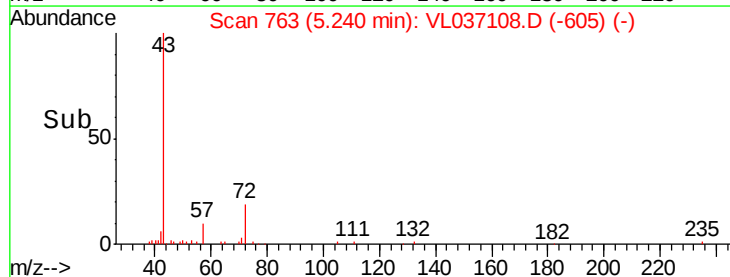
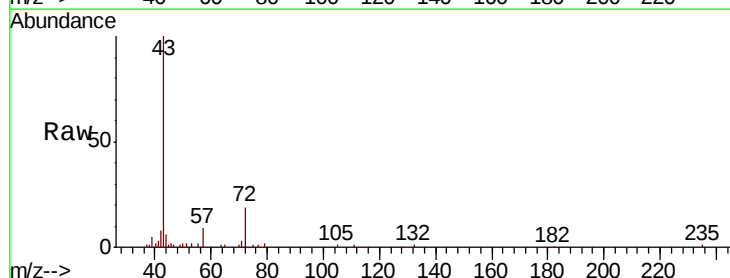
Manual Integrations
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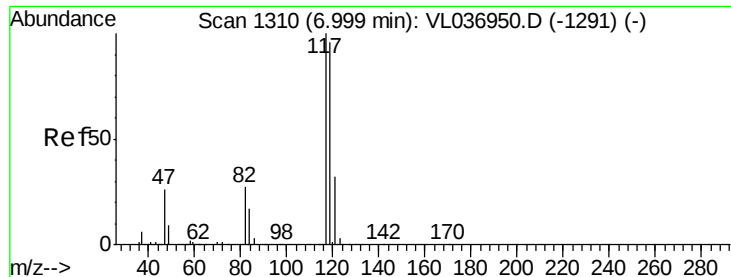
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#34
 2-Butanone
 Concen: 0.432 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL037108.D
 Acq: 2 Jun 2021 19:13

Tgt Ion: 43 Resp: 62108
 Ion Ratio Lower Upper
 43 100
 72 30.1 19.0 28.4#





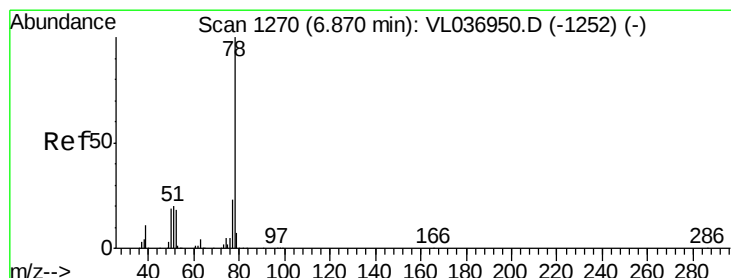
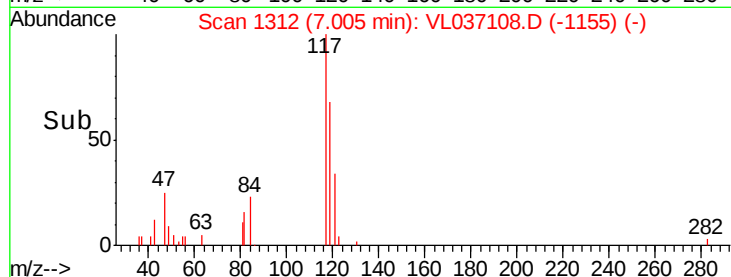
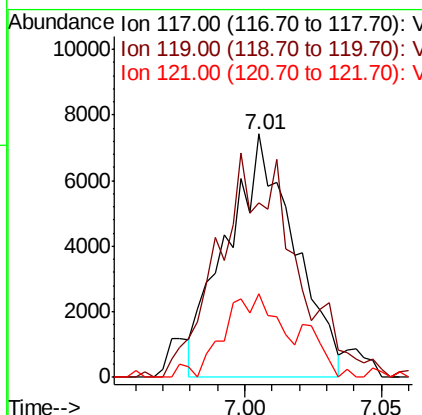
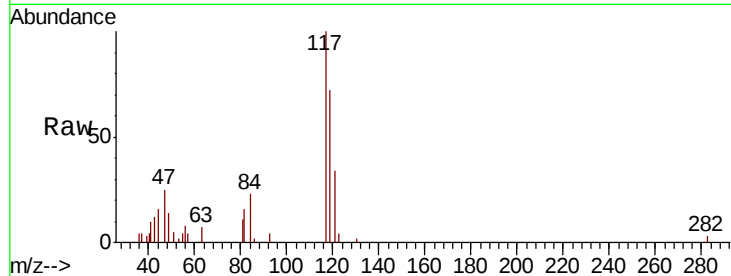
#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 7.01 min Scan# 1312
Delta R.T. 0.01 min
Lab File: VL037108.D
Acq: 2 Jun 2021 19:13

Instrument :
MSVOA_L
ClientSampled :
IA-19A

Tot Ion	Ratio	Lower	Upper
117	100		
119	66.7	76.6	114.8#
121	37.6	25.8	38.6

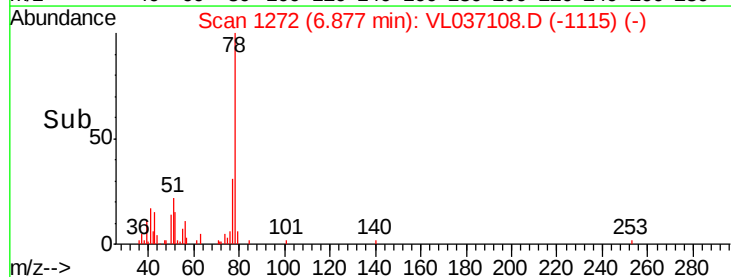
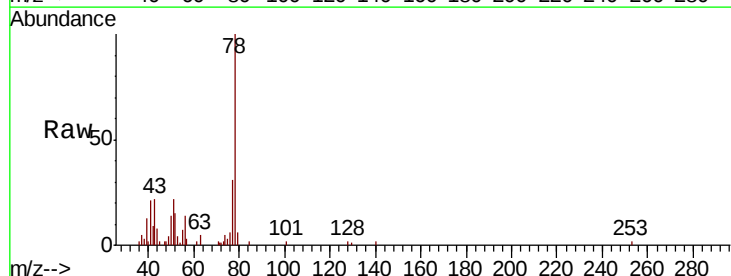
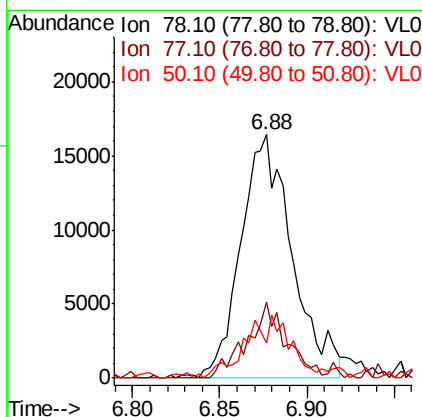
Manual Integrations
APPROVED

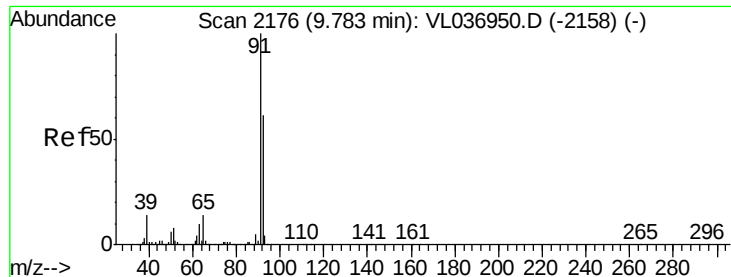
MMDadoda
6/7/2021 3:01:05 PM



#36
Benzene
Concen: 0.098 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037108.D
Acq: 2 Jun 2021 19:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	31.3	18.6	28.0#
50	14.5	15.0	22.4#





#53

Toluene

Concen: 0.371 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

Instrument :

MSVOA_L

ClientSampleId :

IA-19A

Tot Ion: 91 Resp: 150412

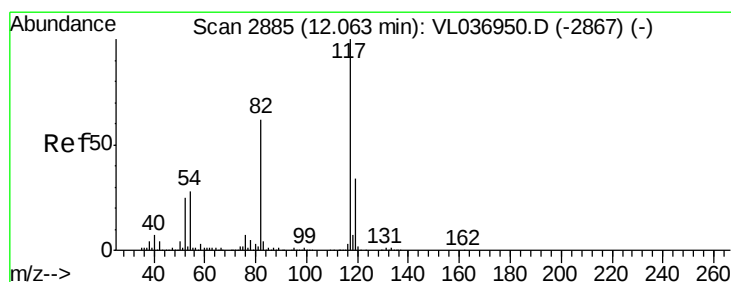
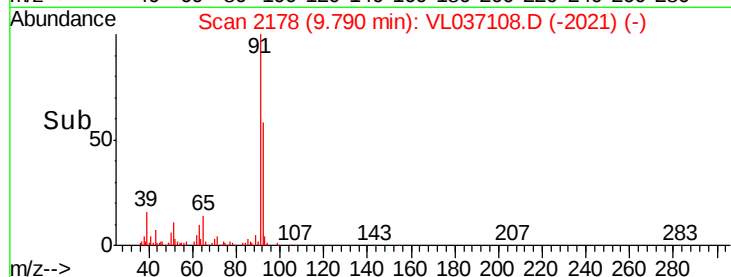
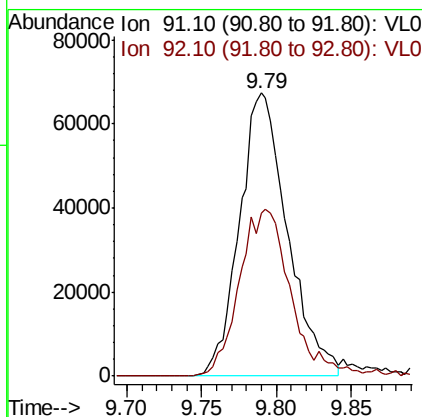
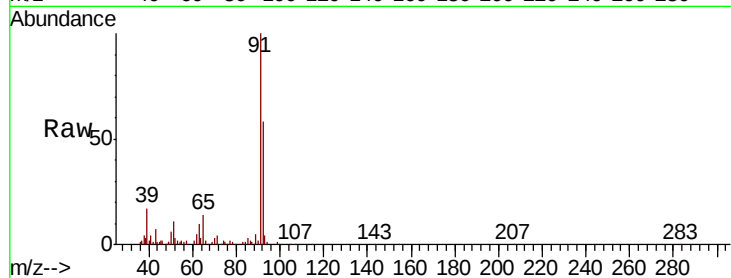
Ion Ratio Lower Upper

91 100

92 64.0 49.5 74.3

Manual Integrations
APPROVED

MMDadoda
6/7/2021 3:01:05 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL037108.D

Acq: 2 Jun 2021 19:13

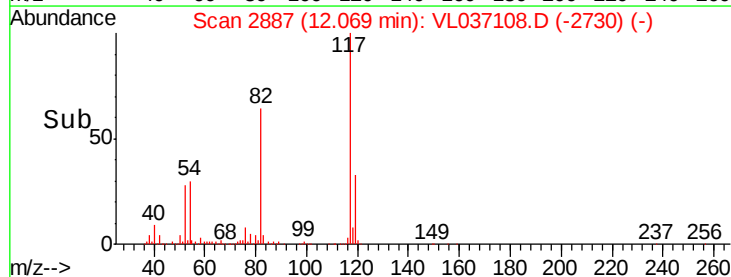
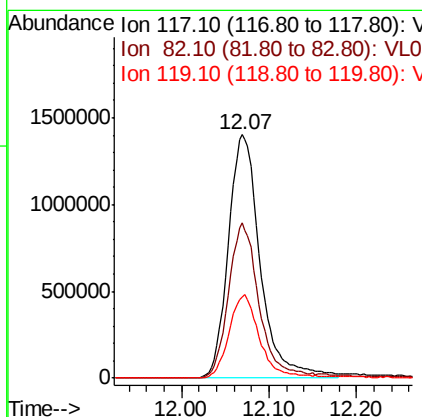
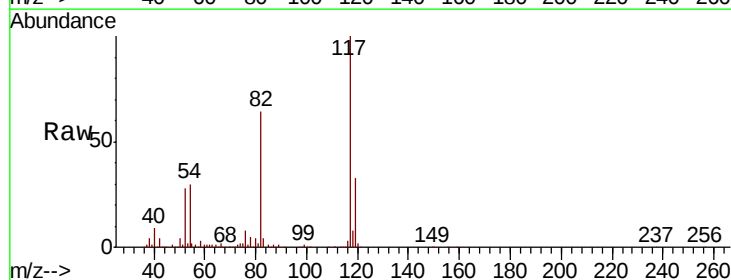
Tgt Ion: 117 Resp: 3559391

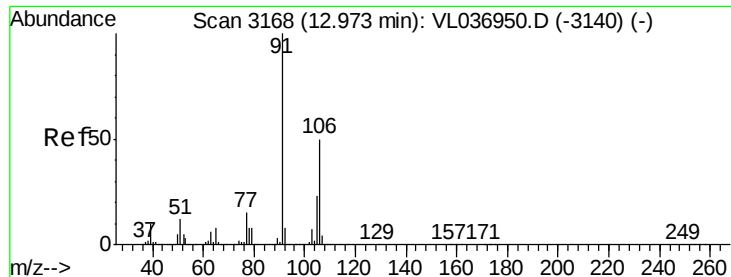
Ion Ratio Lower Upper

117 100

82 63.7 52.6 79.0

119 33.1 46.6 70.0#





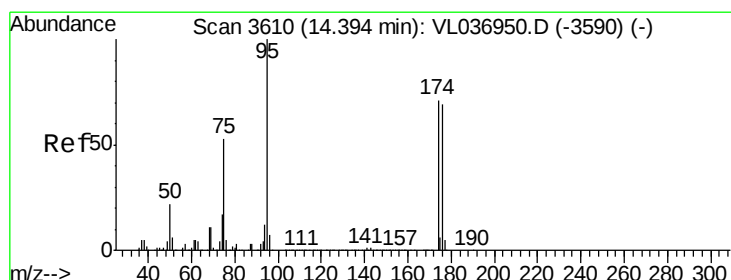
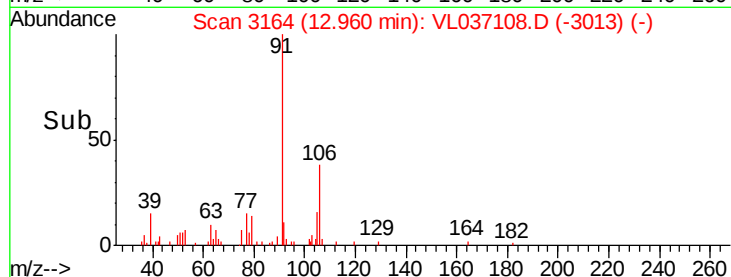
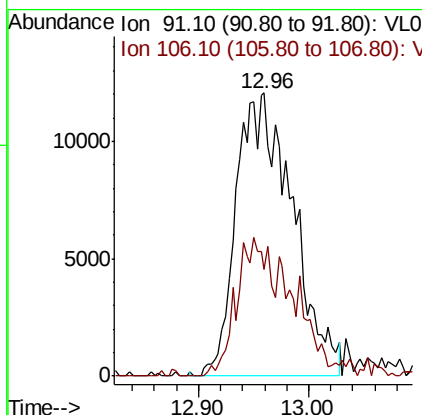
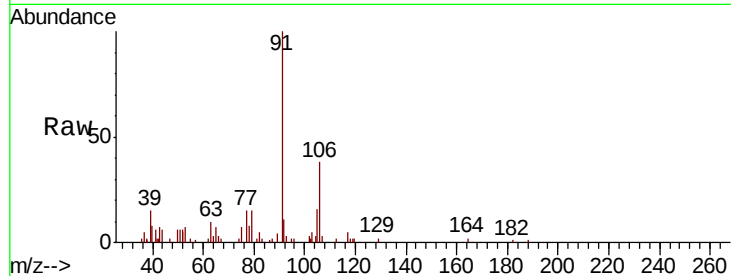
#59
m/p-Xylene
Concen: 0.102 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.01 min
Lab File: VL037108.D
Acq: 2 Jun 2021 19:13

Instrument :
MSVOA_L
ClientSampled :
IA-19A

Tot Ion: 91 Resp: 42519
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

Manual Integrations
APPROVED

MMDadoda
6/7/2021 3:01:05 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.681 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. 0.01 min
Lab File: VL037108.D
Acq: 2 Jun 2021 19:13

Tgt Ion: 95 Resp: 2588631
Ion Ratio Lower Upper
95 100
174 74.7 58.4 87.6
175 5.3 4.4 6.6

