

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037689.D
 Acq On : 27 Sep 2021 20:37
 Operator : SY/AP
 Sample : M3948-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:20 AM

Quant Time: Sep 28 20:37:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1580603	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4638726	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	4040524	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2959567	10.14	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.14	50	11346m	0.103	ppbv	
9) Propene	3.02	41	64692m	0.615	ppbv	
13) Ethanol	3.62	45	57732m	5.612	ppbv	
15) Acetone	3.85	43	9195132	55.992	ppbv	100
17) tert-Butyl alcohol	4.32	59	48820m	0.351	ppbv	
20) Methylene Chloride	4.35	84	42495m	0.542	ppbv	
29) Chloroform	5.76	83	265924	0.964	ppbv	95
34) 2-Butanone	5.25	43	647330	3.434	ppbv	91
51) 2-Hexanone	10.15	43	170483m	1.615	ppbv	
52) Tetrachloroethene	11.23	164	136518	0.919	ppbv	95
53) Toluene	9.82	91	102490m	0.238	ppbv	
58) Ethyl Benzene	12.72	91	55556m	0.104	ppbv	
59) m/p-Xylene	12.97	91	184858m	0.395	ppbv	
60) o-Xylene	13.69	91	116543m	0.262	ppbv	
72) 4-Ethyltoluene	15.85	105	66195m	0.130	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	85142m	0.179	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	332903	0.664	ppbv #	72

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

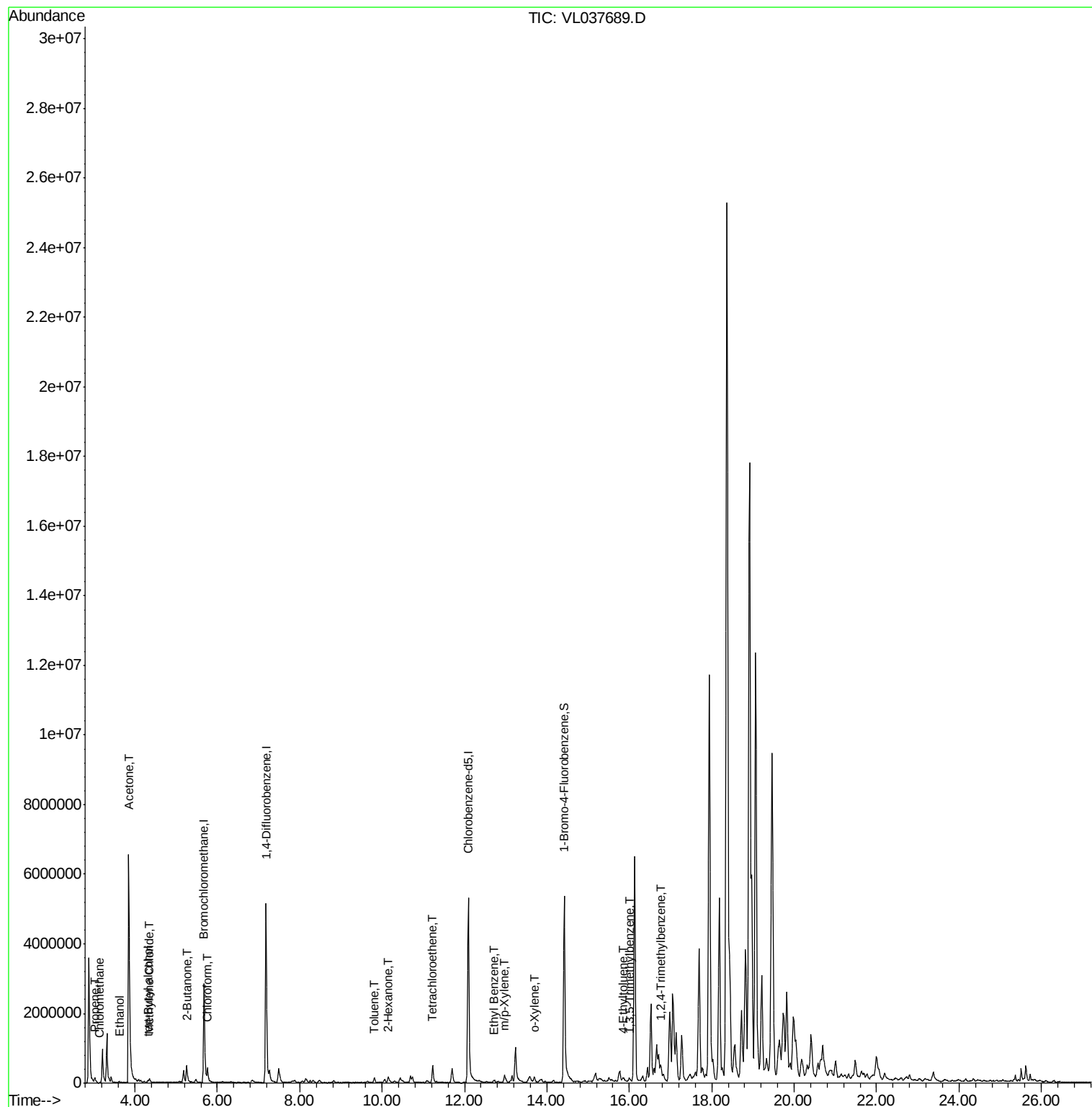
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037689.D
Acq On : 27 Sep 2021 20:37
Operator : SY/AP
Sample : M3948-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

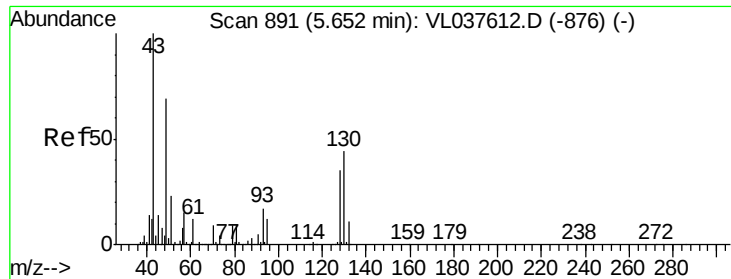
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:20 AM

Quant Time: Sep 28 20:37:31 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

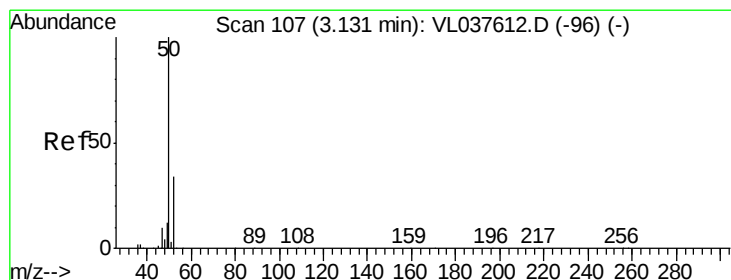
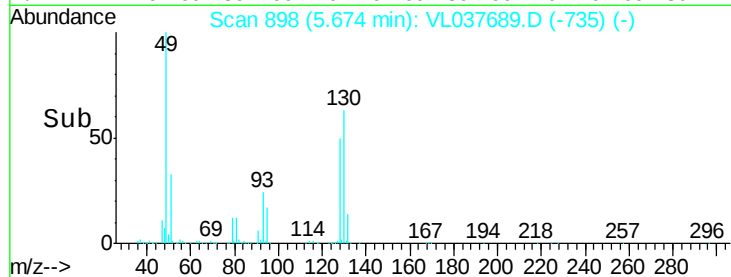
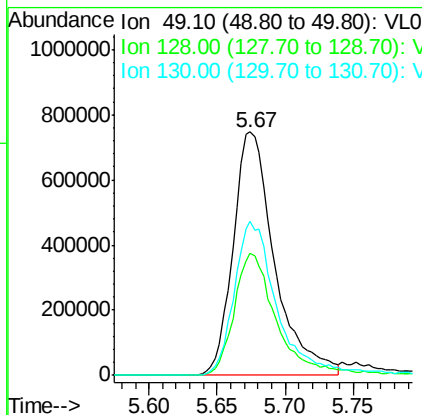
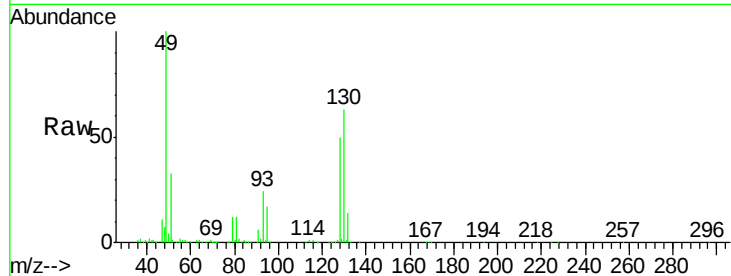
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. 0.02 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tgt Ion: 49 Resp: 1580603
 Ion Ratio Lower Upper
 49 100
 128 52.6 27.9 83.6
 130 66.2 33.9 101.7

Manual Integrations
 APPROVED

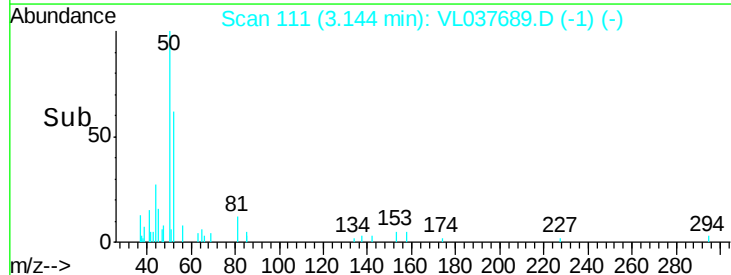
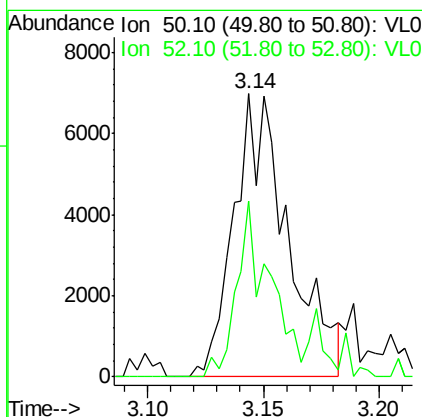
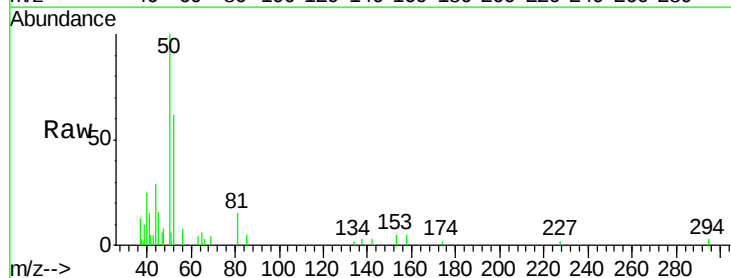
MMDadoda
 10/1/2021 11:05:20 AM

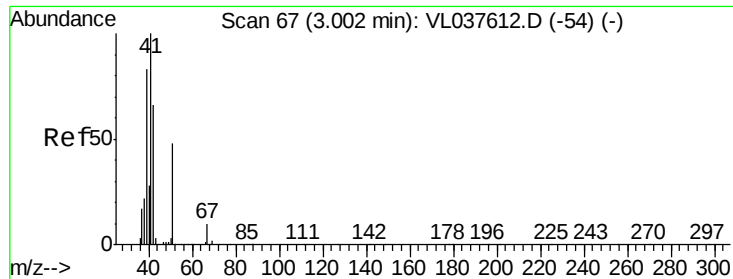


#4

Chloromethane
 Concen: 0.103 ppbv m
 RT: 3.14 min Scan# 111
 Delta R.T. 0.01 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Tgt Ion: 50 Resp: 11346
 Ion Ratio Lower Upper
 50 100
 52 62.3 27.1 40.7#





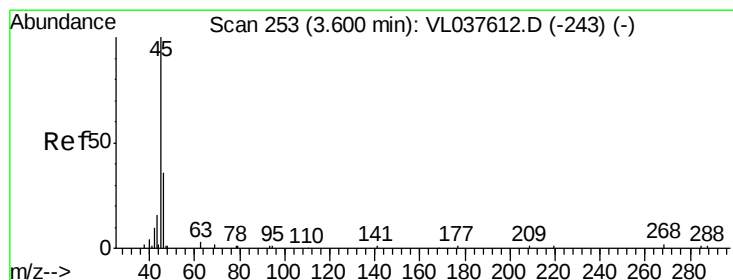
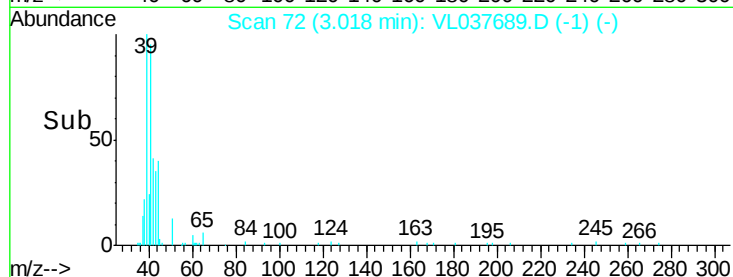
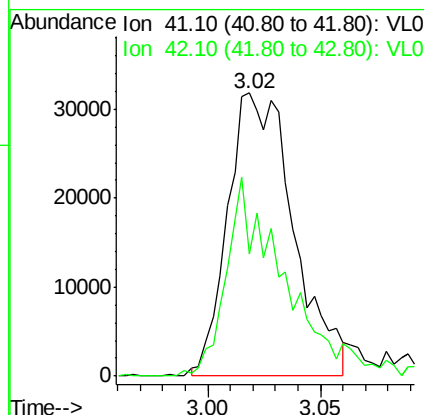
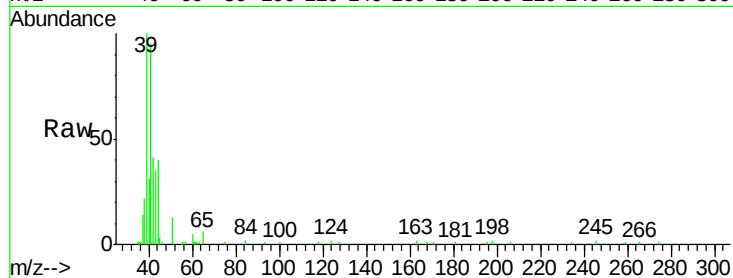
#9
 Propene
 Concen: 0.615 ppbv m
 RT: 3.02 min Scan# 72
 Delta R.T. 0.02 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 64692
 Ion Ratio Lower Upper
 41 100
 42 64.1 57.2 85.8

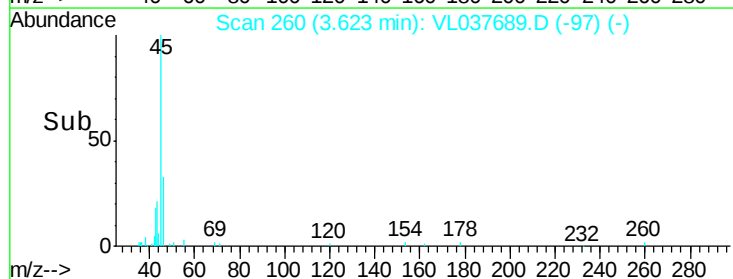
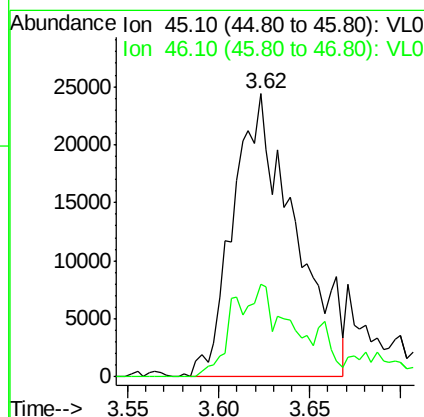
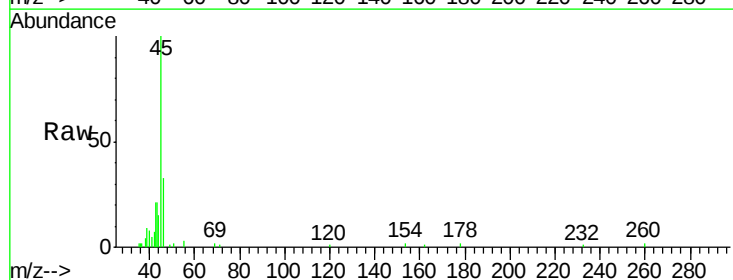
Manual Integrations
 APPROVED

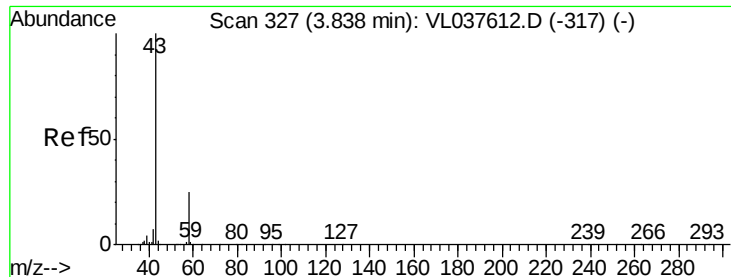
MMDadoda
 10/1/2021 11:05:20 AM



#13
 Ethanol
 Concen: 5.612 ppbv m
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Tgt Ion: 45 Resp: 57732
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.2 68.8#





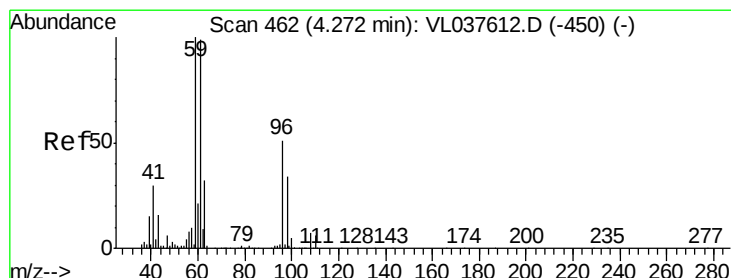
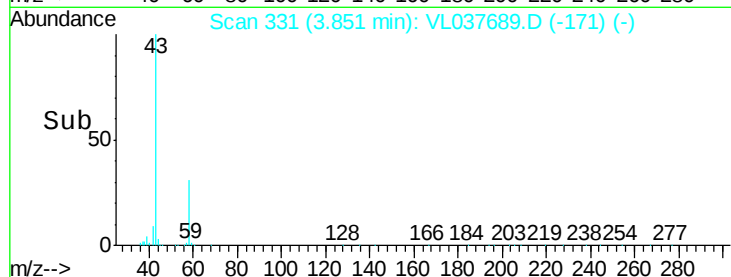
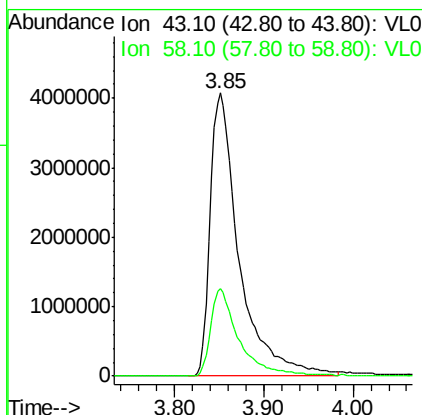
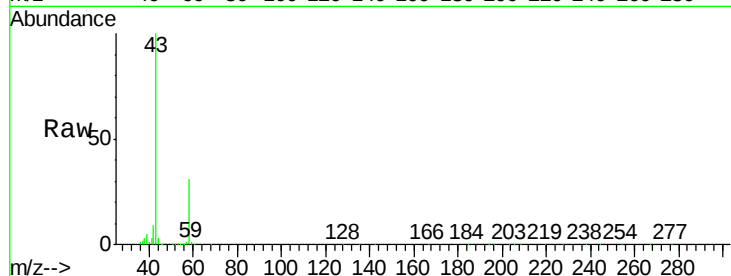
#15
Acetone
Concen: 55.992 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion: 43 Resp: 9195132
Ion Ratio Lower Upper
43 100
58 30.8 24.9 37.3

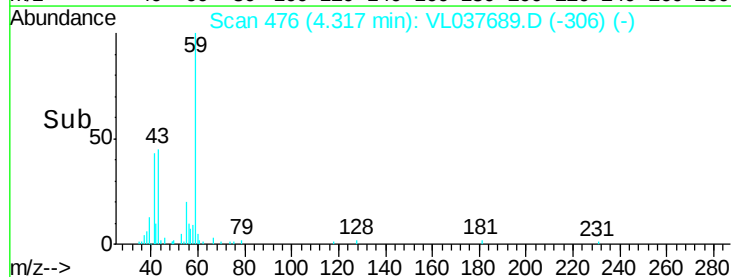
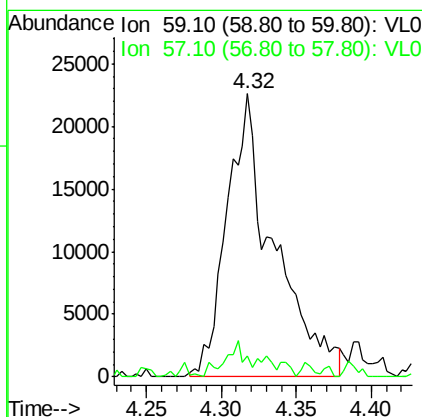
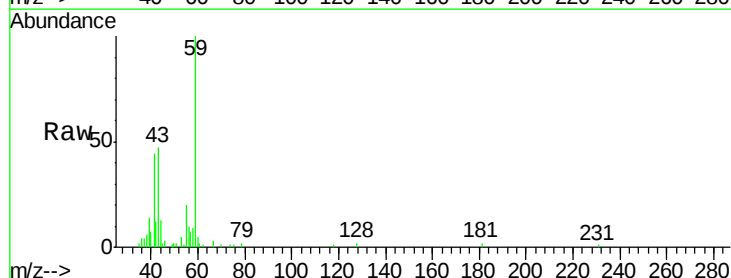
Manual Integrations
APPROVED

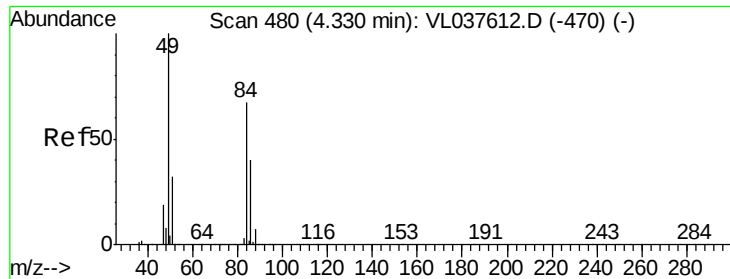
MMDadoda
10/1/2021 11:05:20 AM



#17
tert-Butyl alcohol
Concen: 0.351 ppbv m
RT: 4.32 min Scan# 476
Delta R.T. 0.05 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Tgt Ion: 59 Resp: 48820
Ion Ratio Lower Upper
59 100
57 11.7 8.4 12.6





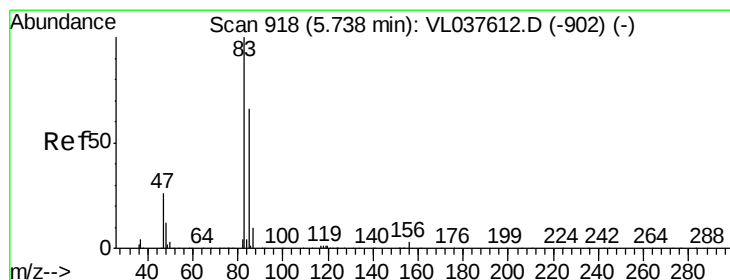
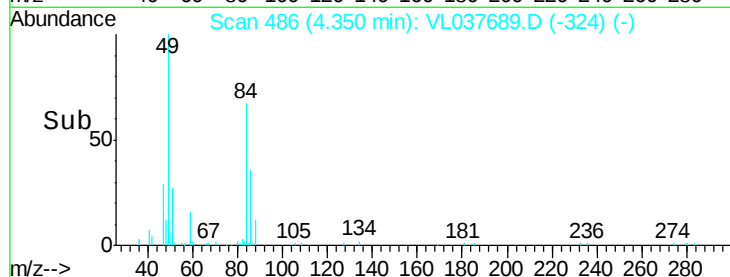
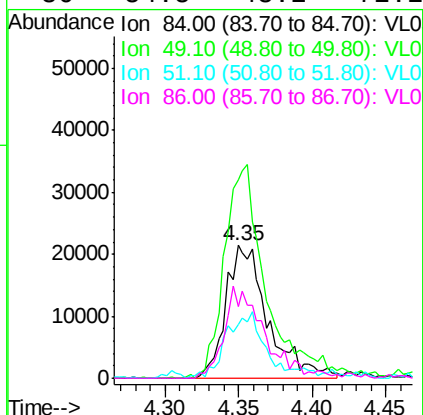
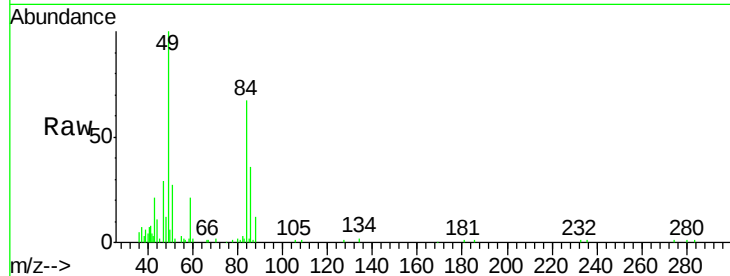
#20
Methylene Chloride
Concen: 0.542 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.02 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion	Ratio	Lower	Upper
84	100		
49	149.5	120.0	180.0
51	41.0	38.0	57.0
86	54.5	48.2	72.2

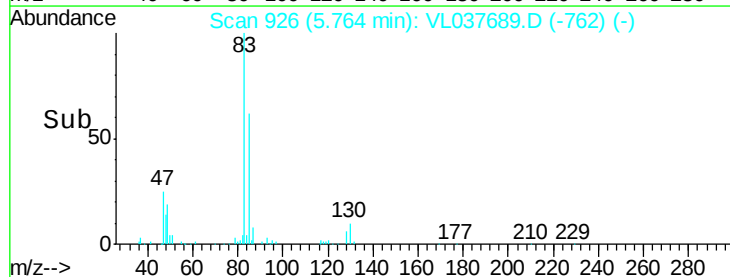
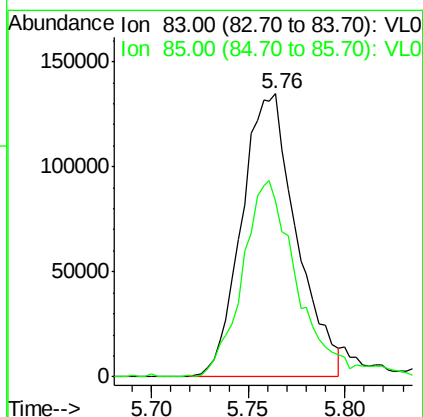
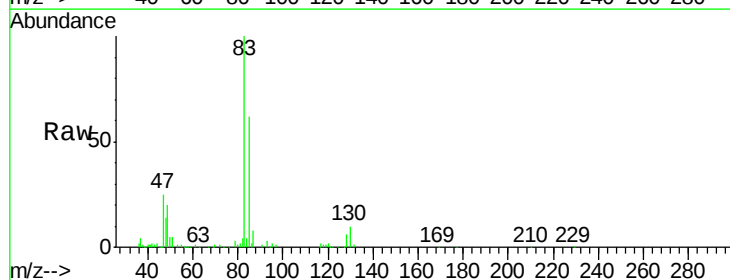
Manual Integrations
APPROVED

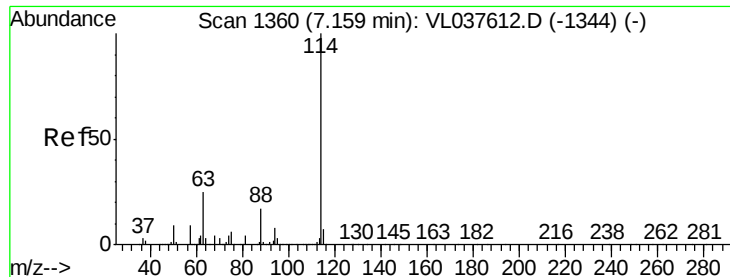
MMDadoda
10/1/2021 11:05:20 AM



#29
Chloroform
Concen: 0.964 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.03 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.4	52.6	79.0





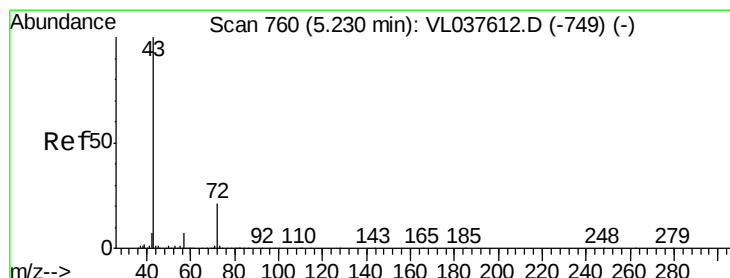
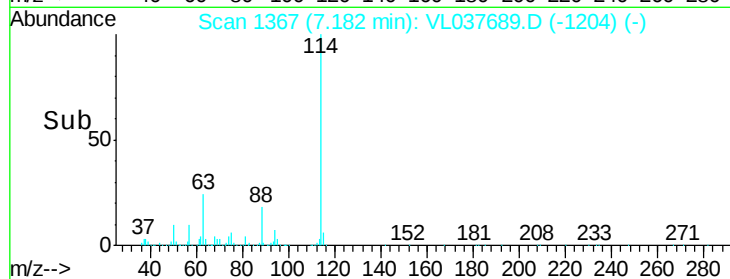
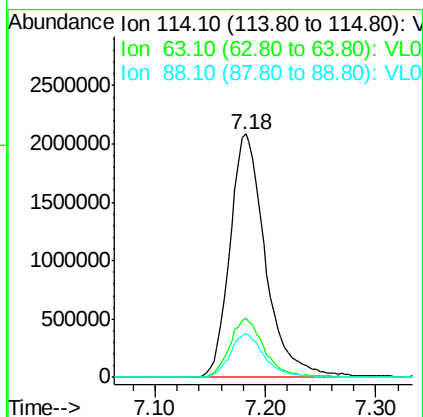
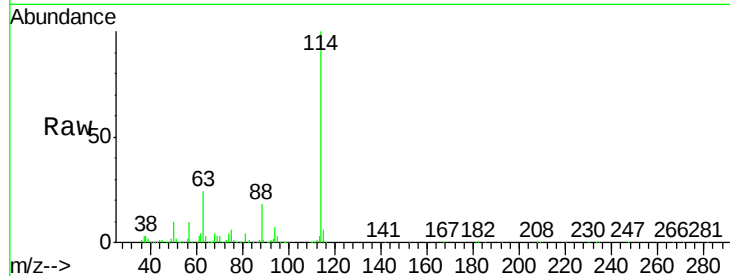
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.02 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 114 Resp: 4638726
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.6 29.4
 88 17.9 14.2 21.4

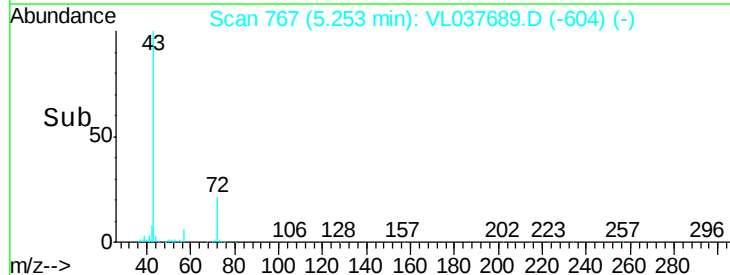
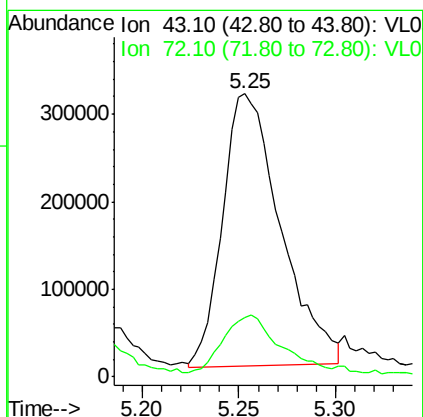
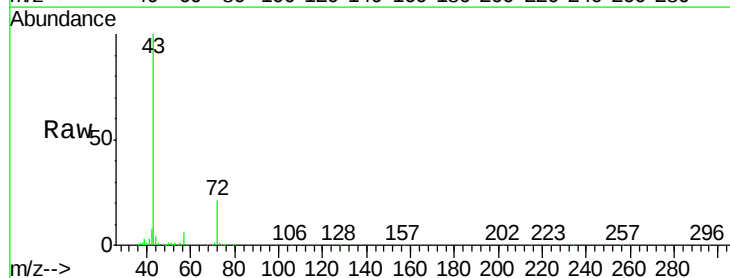
Manual Integrations
 APPROVED

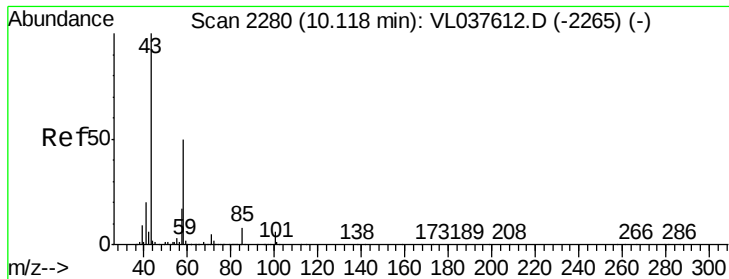
MMDadoda
 10/1/2021 11:05:20 AM



#34
 2-Butanone
 Concen: 3.434 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Tgt Ion: 43 Resp: 647330
 Ion Ratio Lower Upper
 43 100
 72 27.2 18.4 27.6





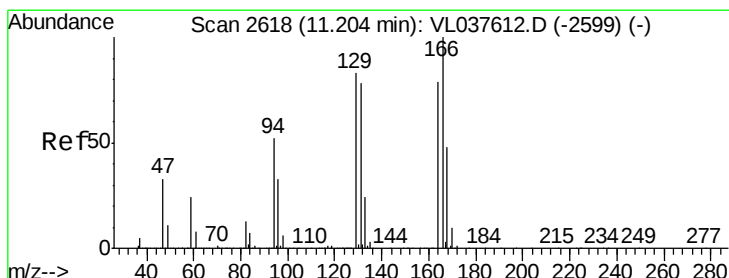
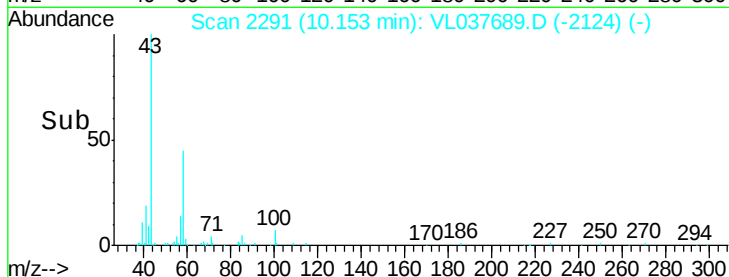
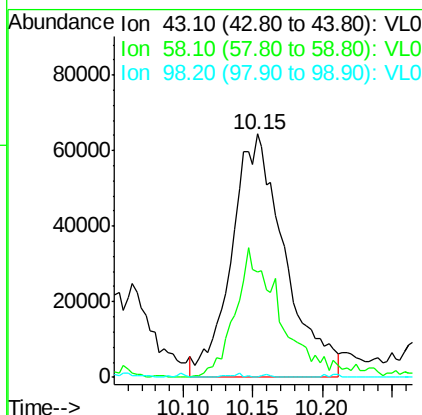
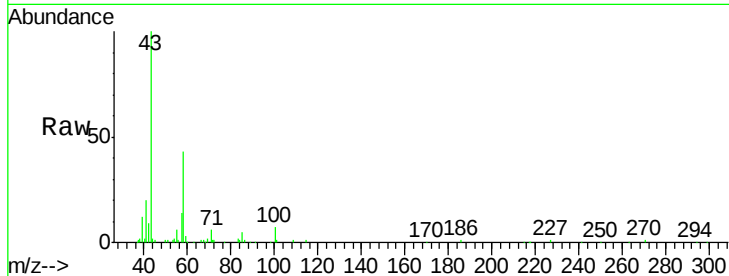
#51
2-Hexanone
Concen: 1.615 ppbv m
RT: 10.15 min Scan# 2291
Delta R.T. 0.04 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.3	58.9#
98	0.0	0.4	0.6#

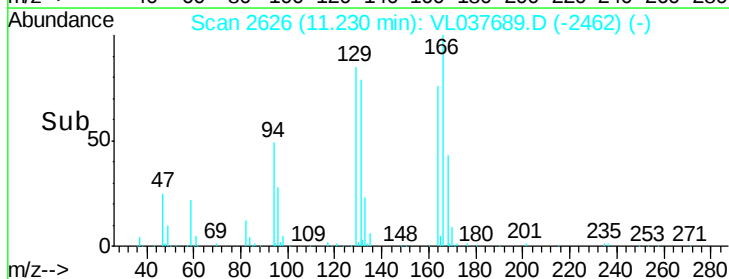
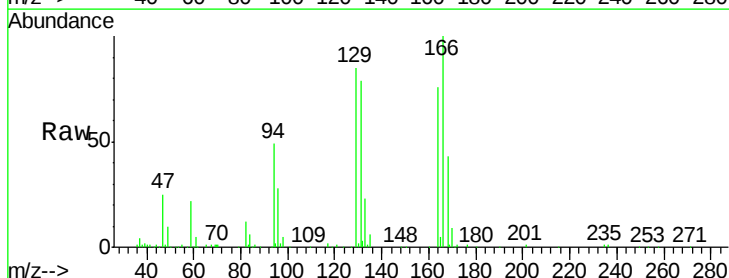
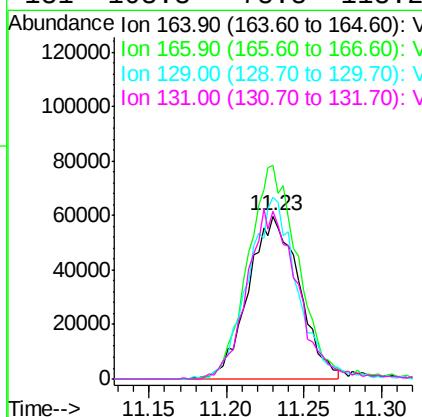
Manual Integrations
APPROVED

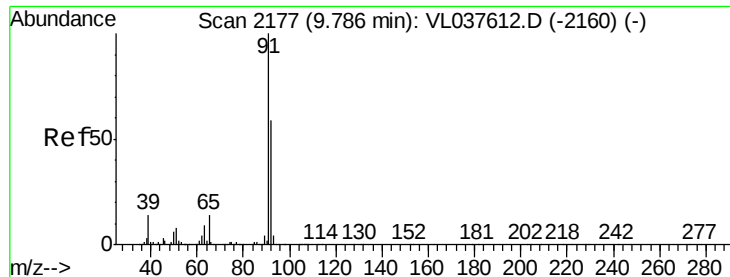
MMDadoda
10/1/2021 11:05:20 AM



#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. 0.03 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.3	101.2	151.8
129	111.2	84.0	126.0
131	103.3	78.8	118.2





#53

Toluene

Concen: 0.238 ppbv m

RT: 9.82 min Scan# 2186

Delta R.T. 0.03 min

Lab File: VL037689.D

Acq: 27 Sep 2021 20:37

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 102490

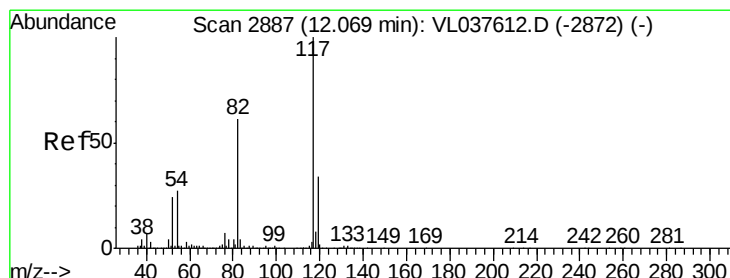
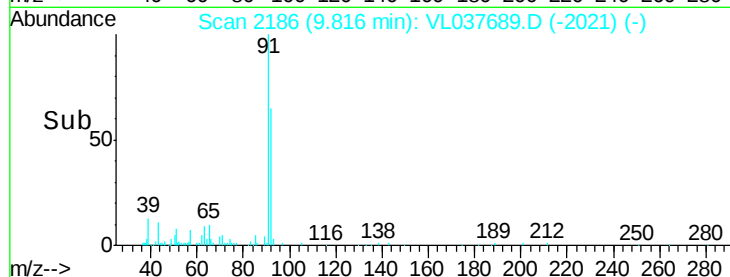
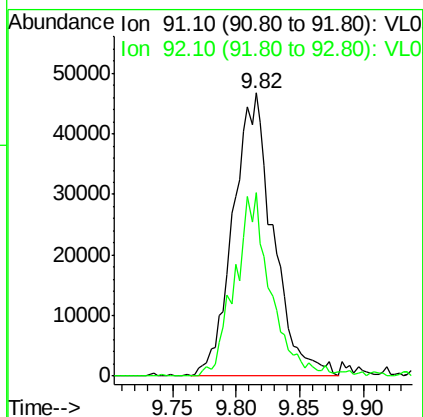
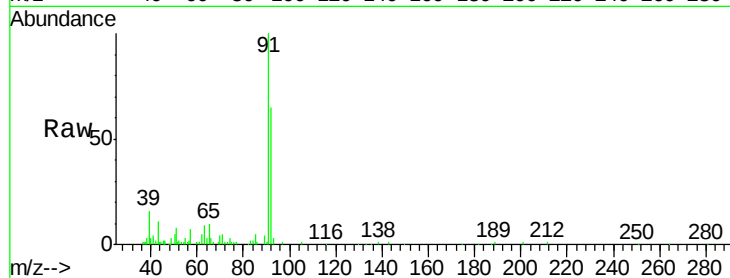
Ion Ratio Lower Upper

91 100

92 58.9 48.9 73.3

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:20 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.02 min

Lab File: VL037689.D

Acq: 27 Sep 2021 20:37

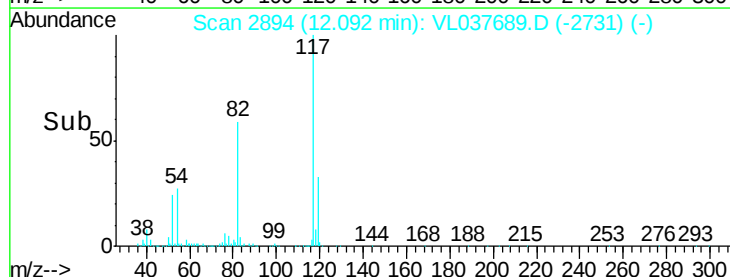
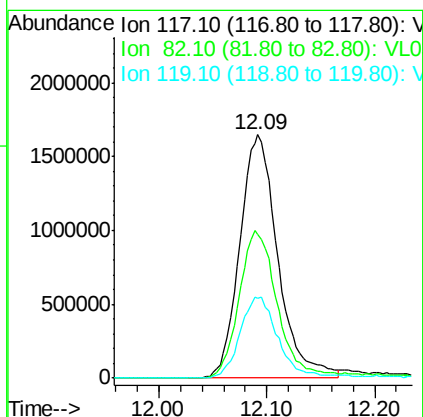
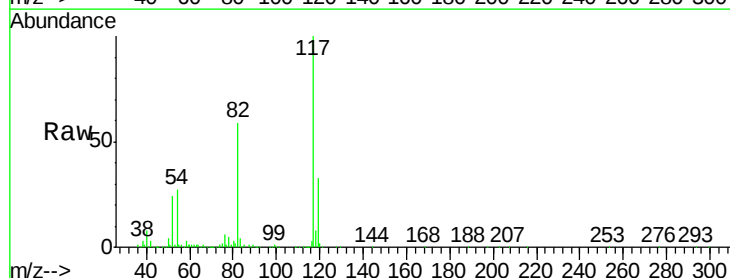
Tgt Ion: 117 Resp: 4040524

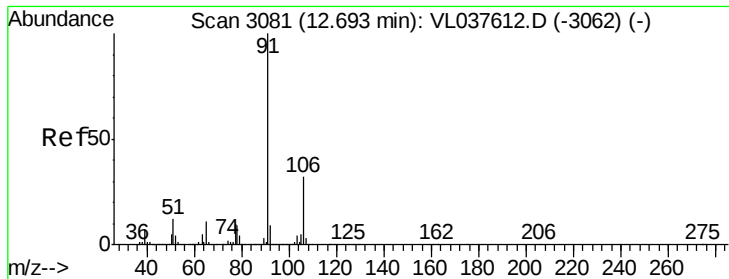
Ion Ratio Lower Upper

117 100

82 64.3 50.6 75.8

119 34.6 26.2 39.2





#58

Ethyl Benzene

Concen: 0.104 ppbv m

RT: 12.72 min Scan# 3088

Delta R.T. 0.02 min

Lab File: VL037689.D

Acq: 27 Sep 2021 20:37

Instrument :

MSVOA_L

ClientSampled :

SV1

Tgt Ion: 91 Resp: 55556

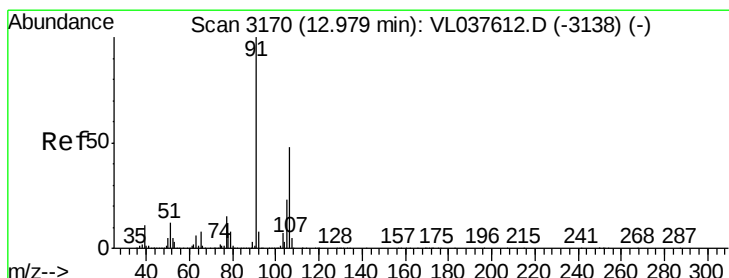
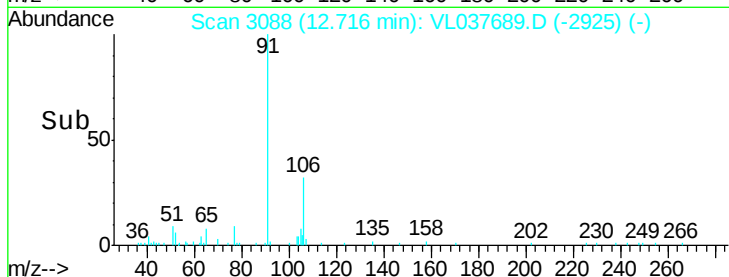
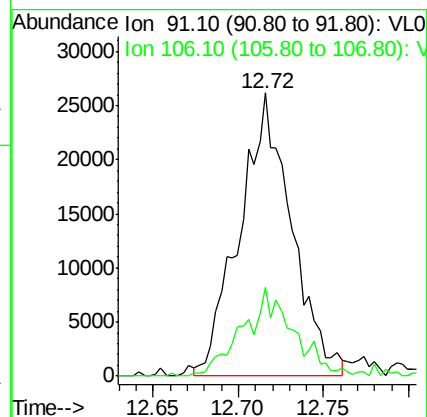
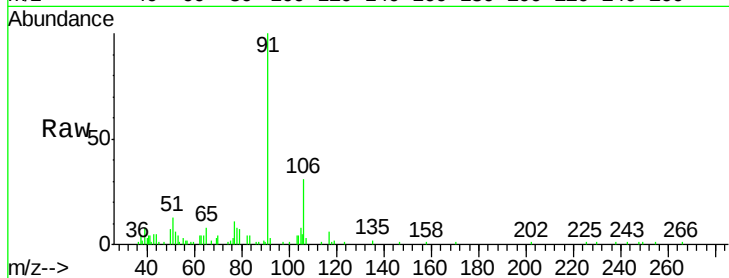
Ion Ratio Lower Upper

91 100

106 31.2 25.3 37.9

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:20 AM



#59

m/p-Xylene

Concen: 0.395 ppbv m

RT: 12.97 min Scan# 3167

Delta R.T. -0.01 min

Lab File: VL037689.D

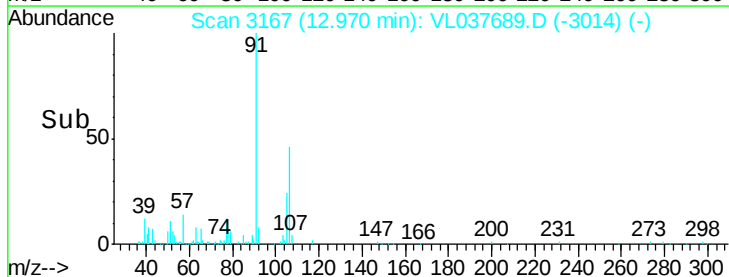
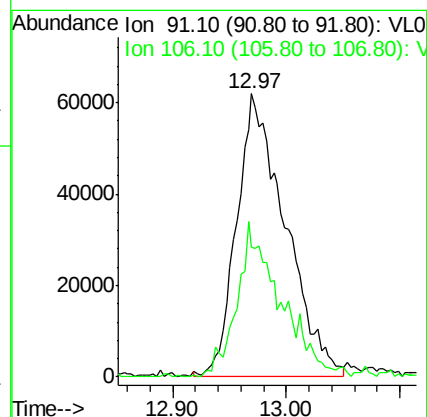
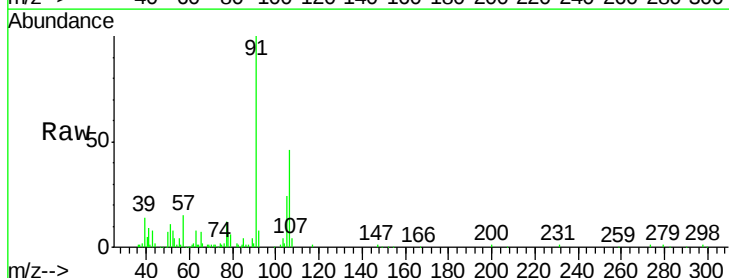
Acq: 27 Sep 2021 20:37

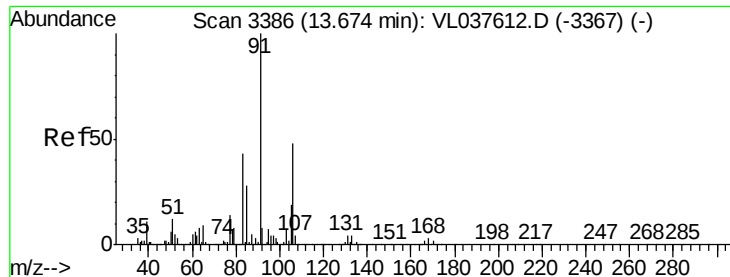
Tgt Ion: 91 Resp: 184858

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





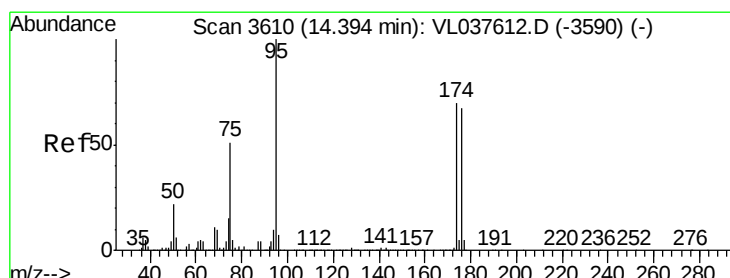
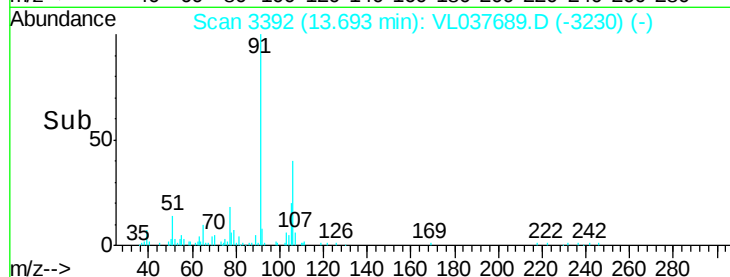
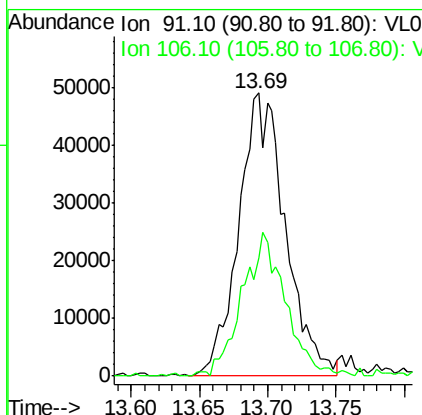
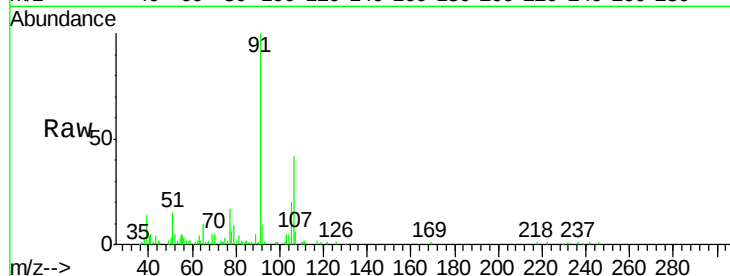
#60
o-Xylene
Concen: 0.262 ppbv m
RT: 13.69 min Scan# 3392
Delta R.T. 0.02 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Instrument :
MSVOA_L
ClientSampled :
SV1

Tgt Ion: 91 Resp: 116543
Ion Ratio Lower Upper
91 100
106 48.1 23.0 69.0

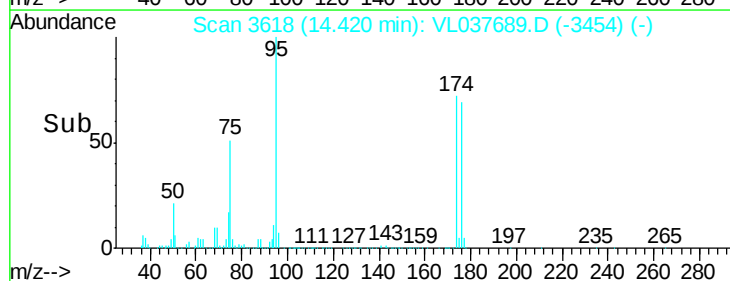
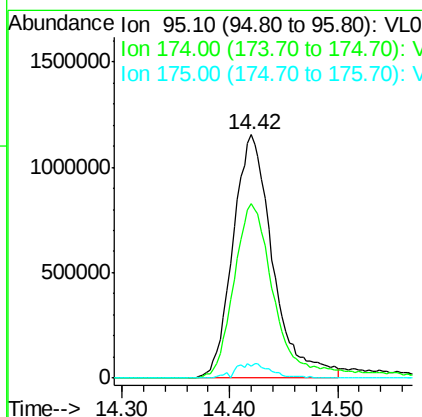
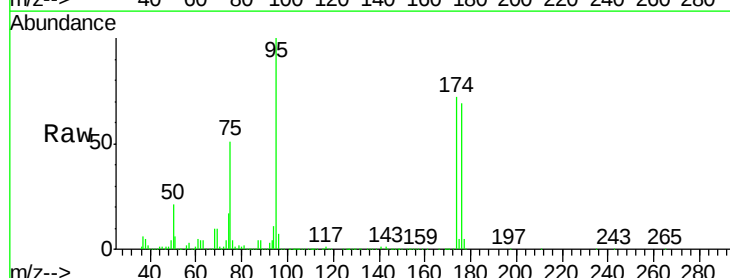
Manual Integrations
APPROVED

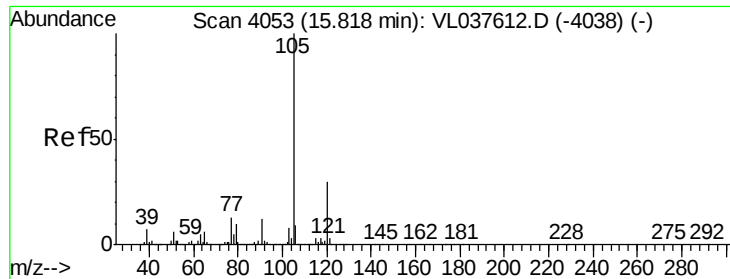
MMDadoda
10/1/2021 11:05:20 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.135 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.03 min
Lab File: VL037689.D
Acq: 27 Sep 2021 20:37

Tgt Ion: 95 Resp: 2959567
Ion Ratio Lower Upper
95 100
174 76.2 56.3 84.5
175 5.8 4.4 6.6





#72

4-Ethyltoluene

Concen: 0.130 ppbv m

RT: 15.85 min Scan# 4062

Delta R.T. 0.03 min

Lab File: VL037689.D

Acq: 27 Sep 2021 20:37

Instrument :

MSVOA_L

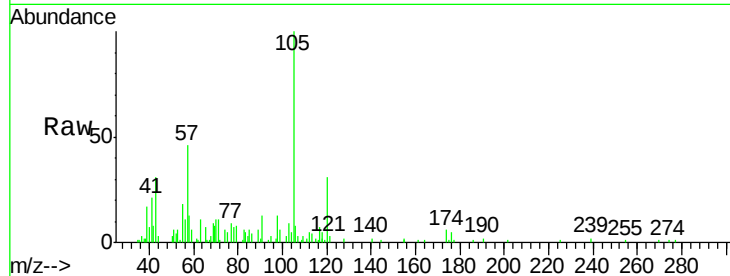
ClientSampled :

SV1

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	66195		
120	27.5	24.7	37.1	
91	0.0	9.9	14.9	
77	14.3	10.5	15.7	

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:20 AM

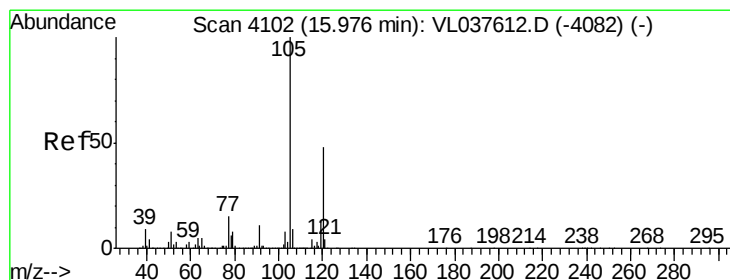
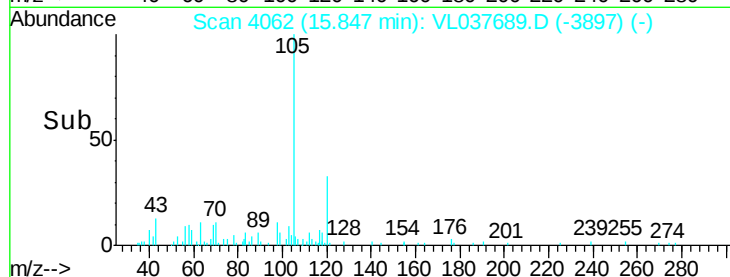
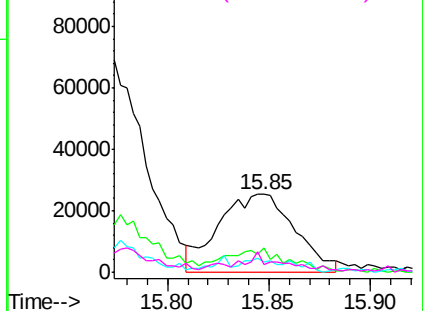


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.179 ppbv m

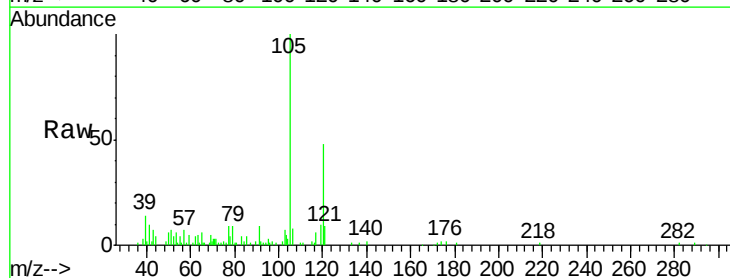
RT: 16.00 min Scan# 4109

Delta R.T. 0.02 min

Lab File: VL037689.D

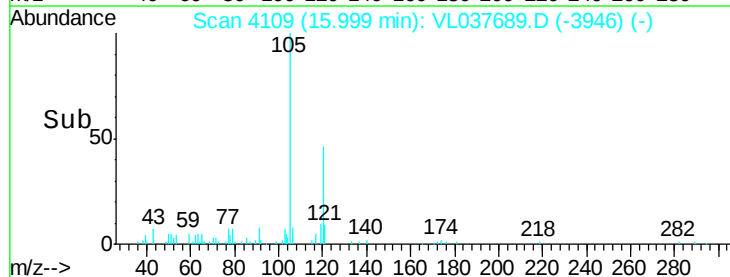
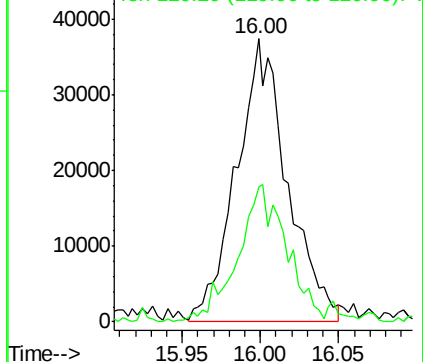
Acq: 27 Sep 2021 20:37

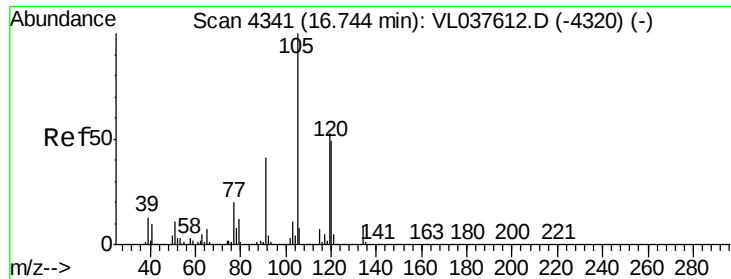
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	85142		
120	47.6	38.3	57.5	



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.664 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.02 min
 Lab File: VL037689.D
 Acq: 27 Sep 2021 20:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	39.0	39.4	59.0#
91	12.7	33.3	49.9#
77	9.2	15.7	23.5#

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:20 AM

