

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037234.D
 Acq On : 23 Jun 2021 5:33
 Operator : SY/AP
 Sample : M2797-01DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

MMDadoda
 6/25/2021 2:21:28 PM

Quant Time: Jun 24 09:51:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1663134	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4795405	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4209902	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3145614	9.86	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	963188	2.978	ppbv	100
9) Propene	3.01	41	1030437	9.965	ppbv	95
10) Heptane	8.11	43	69433m	0.277	ppbv	
13) Ethanol	3.60	45	135800m	8.490	ppbv	
15) Acetone	3.84	43	5062424	26.993	ppbv	94
17) tert-Butyl alcohol	4.30	59	71291m	0.411	ppbv	
27) Carbon Disulfide	4.55	76	130837	0.651	ppbv	96
34) 2-Butanone	5.23	43	7907429	42.399	ppbv	99
36) Benzene	6.88	78	4198510	10.827	ppbv	99
41) Tetrahydrofuran	6.06	42	21598m	0.249	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	96079m	0.375	ppbv	
51) 2-Hexanone	10.13	43	610931	4.902	ppbv #	92
52) Tetrachloroethene	11.21	164	154899	0.860	ppbv	93
53) Toluene	9.79	91	1578016	3.407	ppbv	99
58) Ethyl Benzene	12.70	91	146406	0.253	ppbv	97
59) m/p-Xylene	12.96	91	258836m	0.527	ppbv	
60) o-Xylene	13.68	91	73072	0.156	ppbv	95
74) 1,2,4-Trimethylbenzene	16.75	105	81142	0.153	ppbv #	73

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

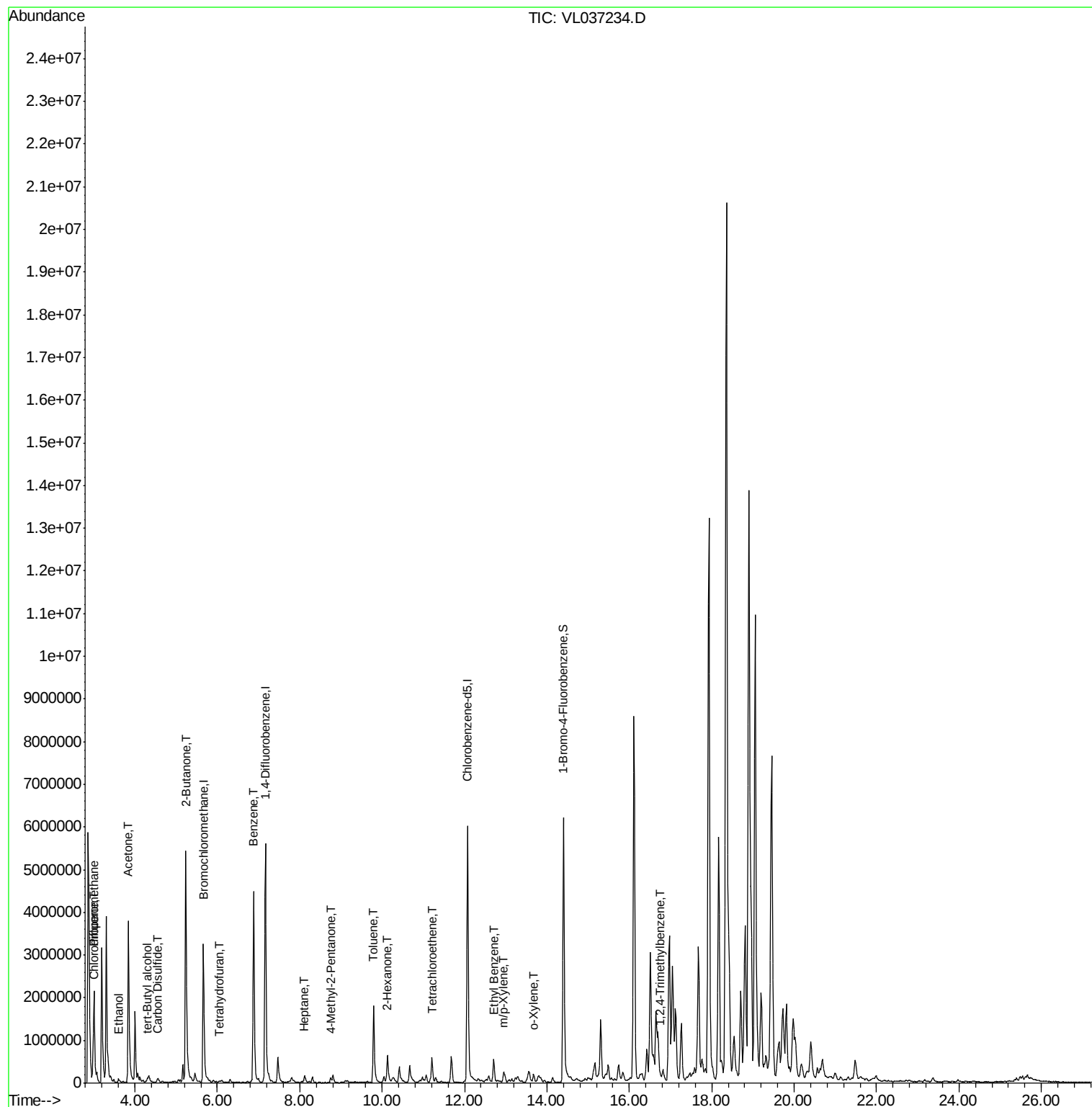
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062221\
Data File : VL037234.D
Acq On : 23 Jun 2021 5:33
Operator : SY/AP
Sample : M2797-01DL 40X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

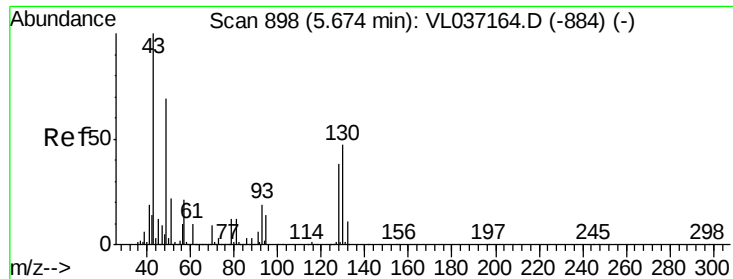
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

MMDadoda
6/25/2021 2:21:28 PM

Quant Time: Jun 24 09:51:09 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

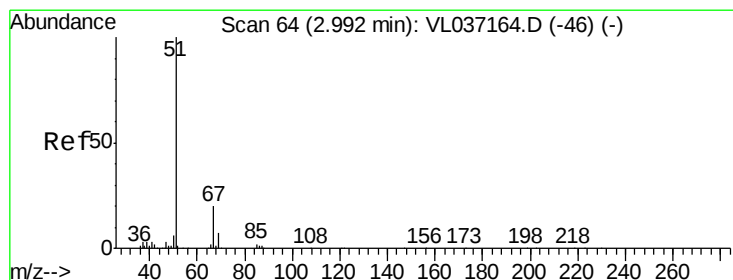
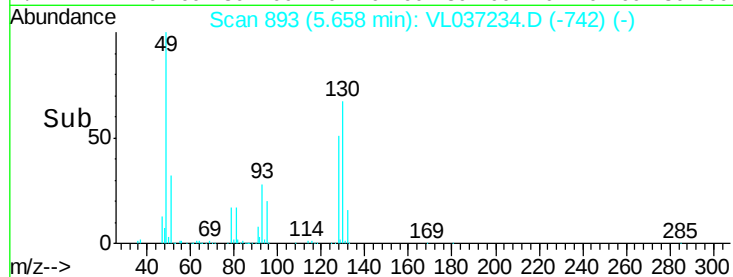
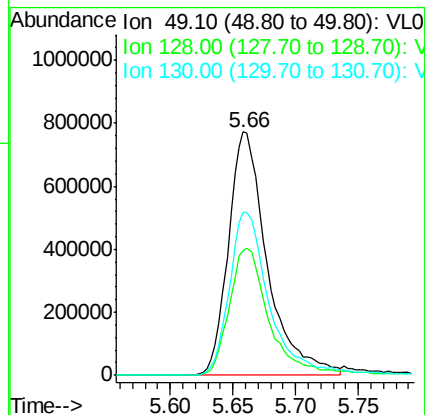
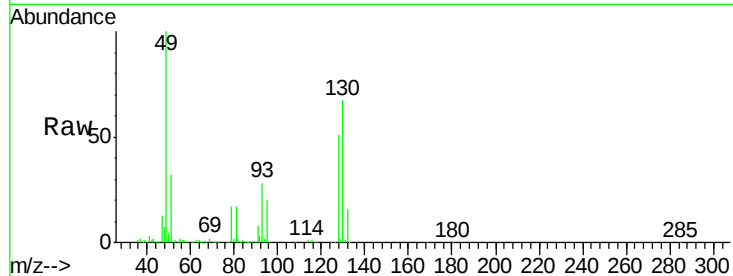
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.02 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion: 49 Resp: 1663134
 Ion Ratio Lower Upper
 49 100
 128 54.9 29.3 88.0
 130 70.4 35.9 107.8

Manual Integrations
 APPROVED

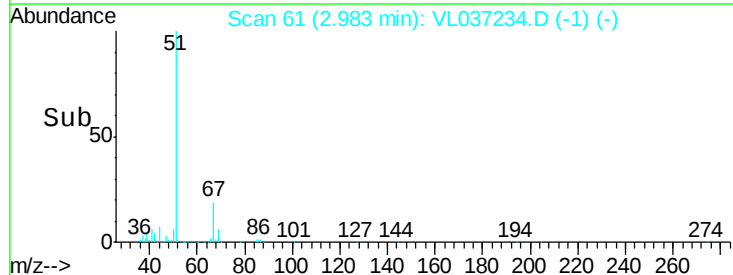
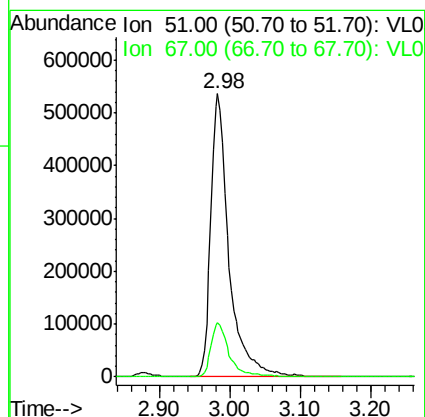
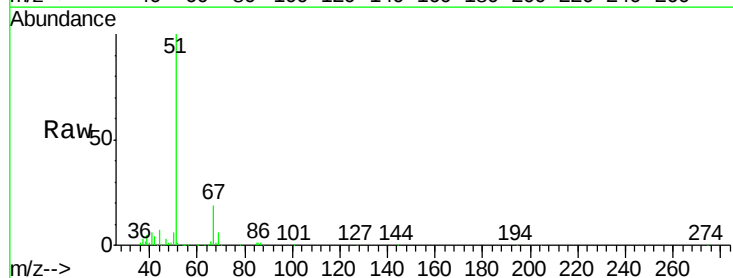
MMDadoda
 6/25/2021 2:21:28 PM

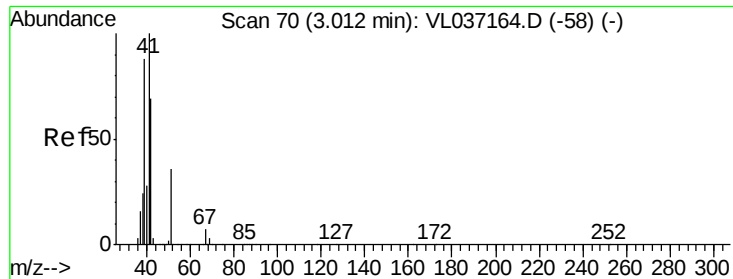


#3

Chlorodifluoromethane
 Concen: 2.978 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. -0.01 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Tgt Ion: 51 Resp: 963188
 Ion Ratio Lower Upper
 51 100
 67 19.5 15.8 23.6





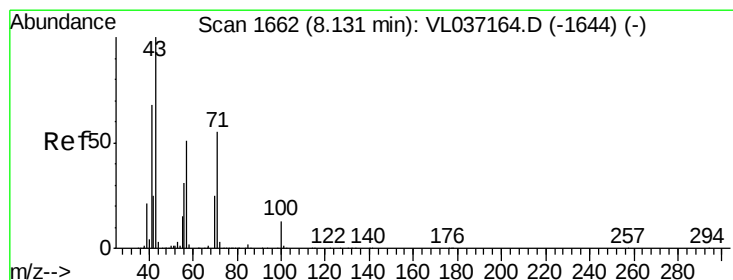
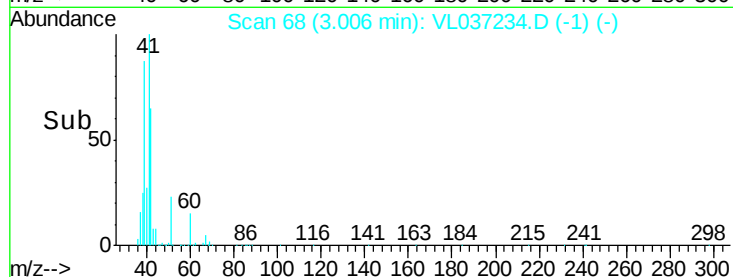
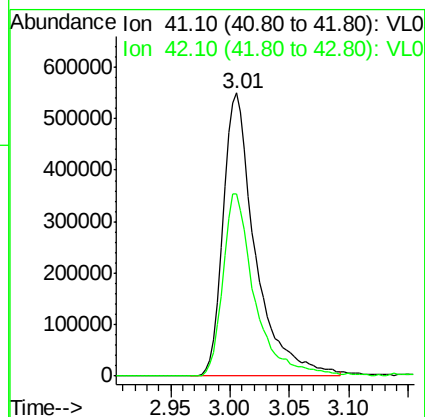
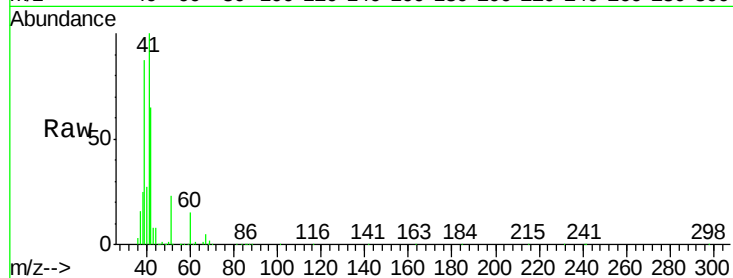
#9
 Propene
 Concen: 9.965 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. -0.01 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion: 41 Resp: 1030437
 Ion Ratio Lower Upper
 41 100
 42 63.9 54.5 81.7

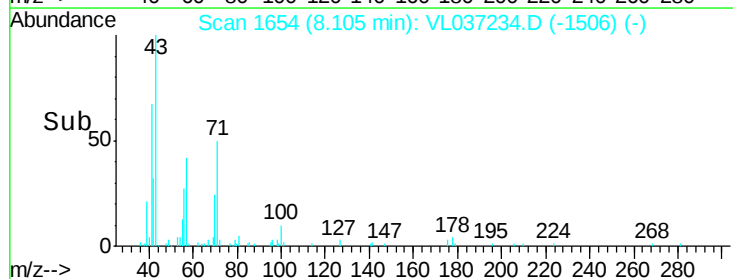
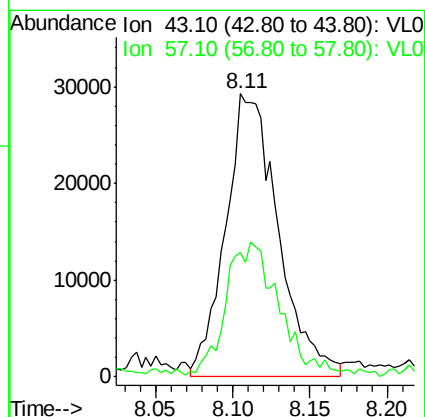
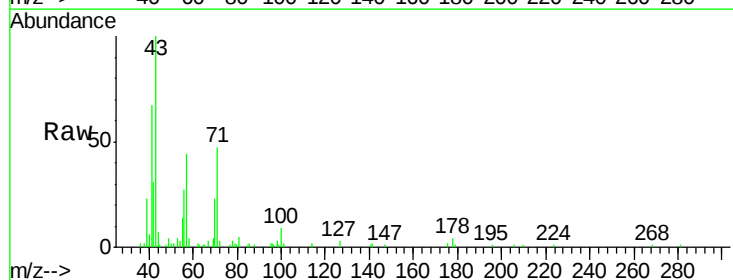
Manual Integrations
 APPROVED

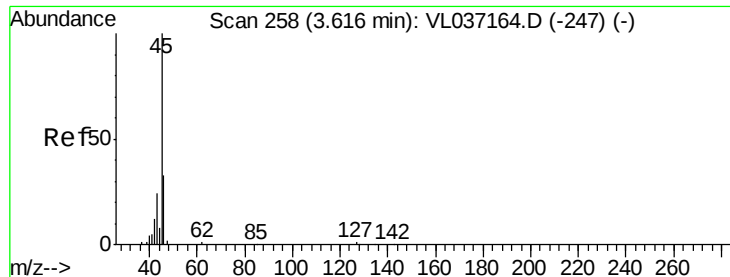
MMDadoda
 6/25/2021 2:21:28 PM



#10
 Heptane
 Concen: 0.277 ppbv m
 RT: 8.11 min Scan# 1654
 Delta R.T. -0.03 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Tgt Ion: 43 Resp: 69433
 Ion Ratio Lower Upper
 43 100
 57 47.3 40.6 61.0





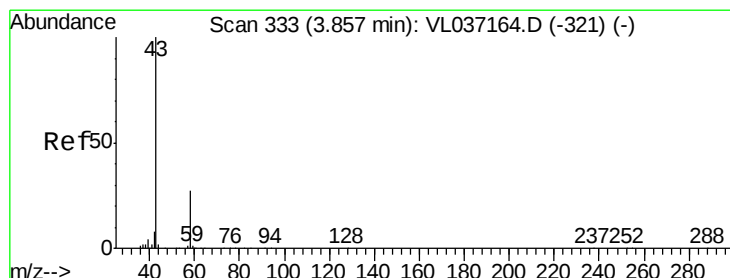
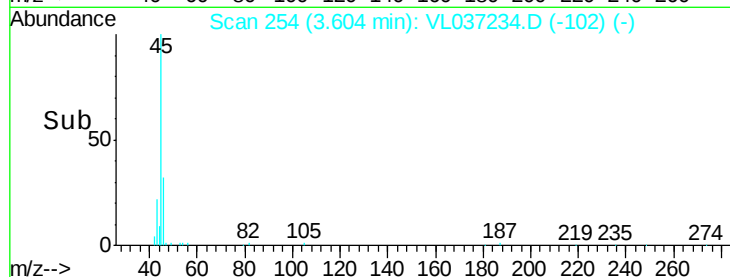
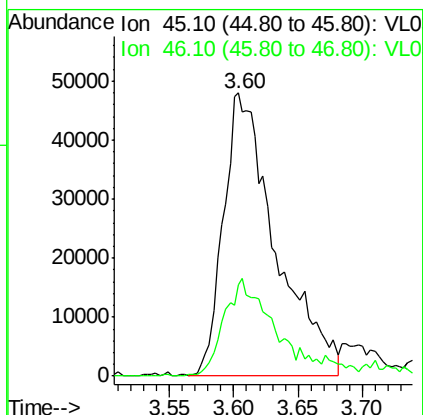
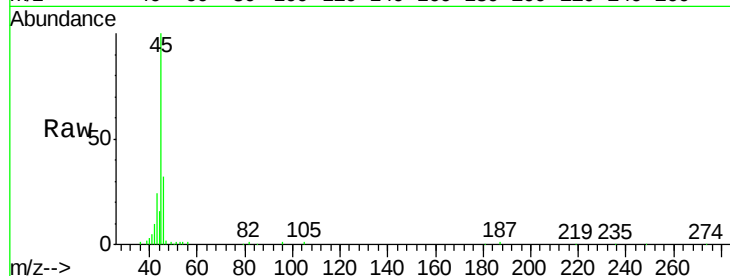
#13
Ethanol
Concen: 8.490 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	45	Resp	135800
Ion Ratio	100	Lower	Upper
46	35.2	34.2	137.0

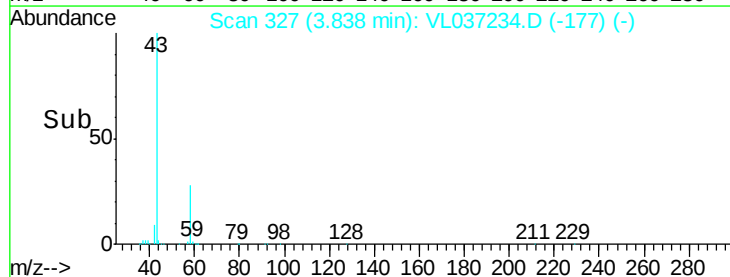
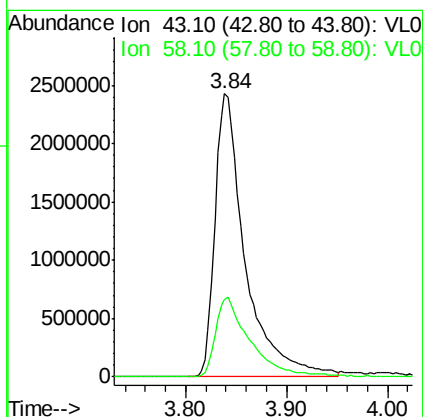
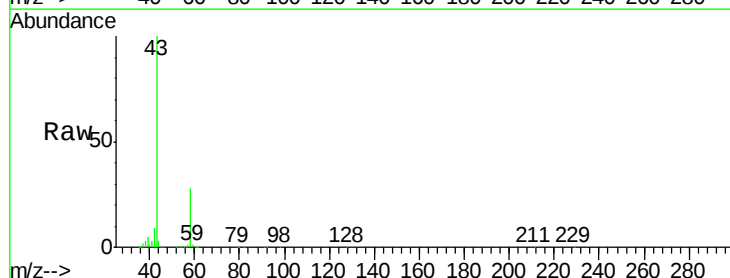
Manual Integrations
APPROVED

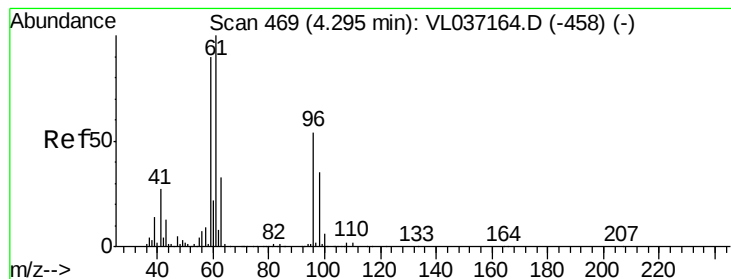
MMDadoda
6/25/2021 2:21:28 PM



#15
Acetone
Concen: 26.993 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Tgt Ion	43	Resp	5062424
Ion Ratio	100	Lower	Upper
58	32.7	23.7	35.5





#17

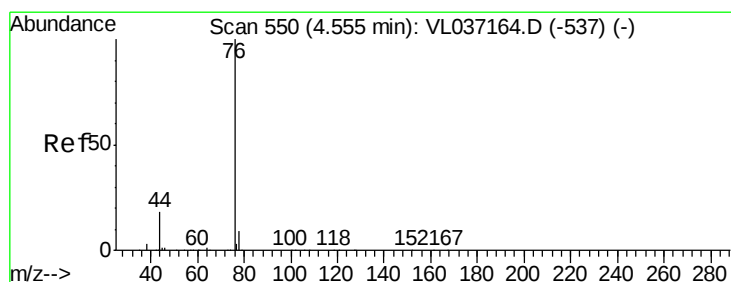
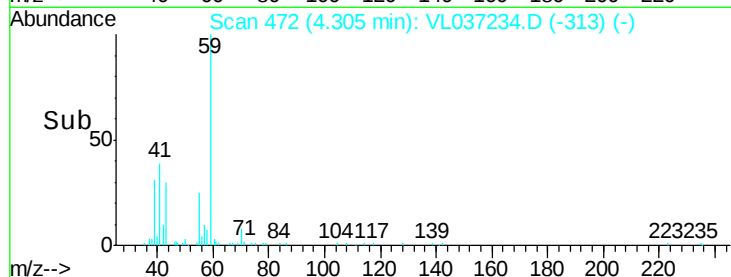
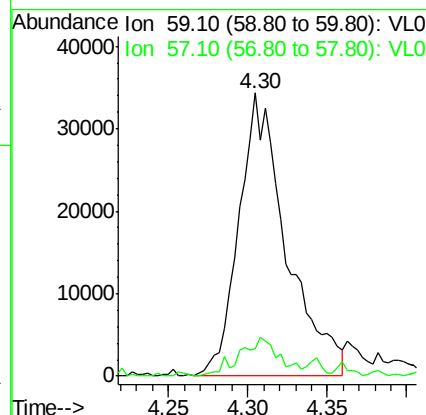
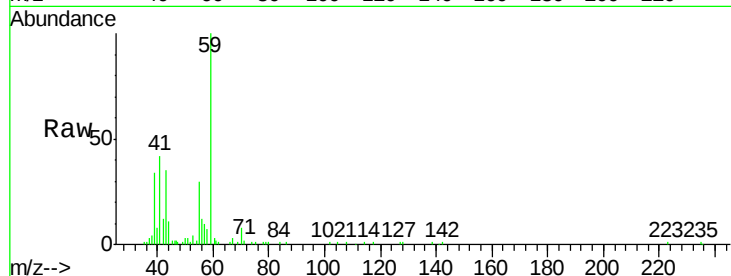
tert-Butyl alcohol
 Concen: 0.411 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.01 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Instrument :
 MSVOA_L
 ClientSampleID :
 SV1DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

Manual Integrations
 APPROVED

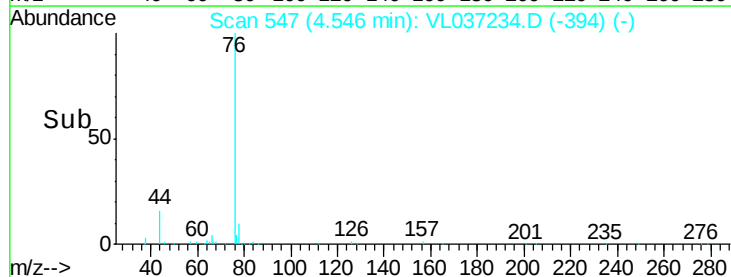
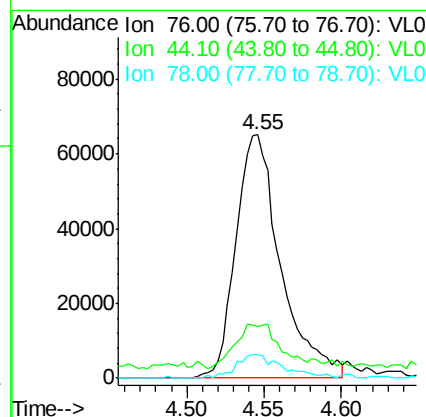
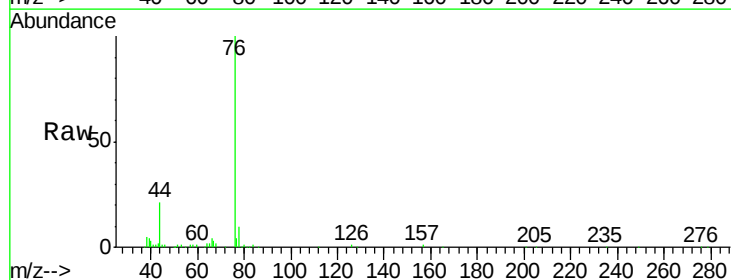
MMDadoda
 6/25/2021 2:21:28 PM

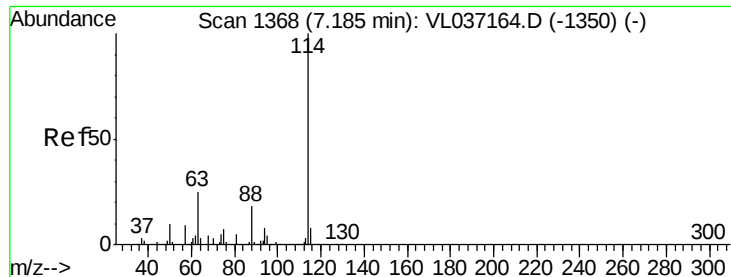


#27

Carbon Disulfide
 Concen: 0.651 ppbv
 RT: 4.55 min Scan# 547
 Delta R.T. -0.01 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Tgt Ion	Ratio	Lower	Upper
76	100		
44	22.4	15.4	23.2
78	10.0	8.0	12.0





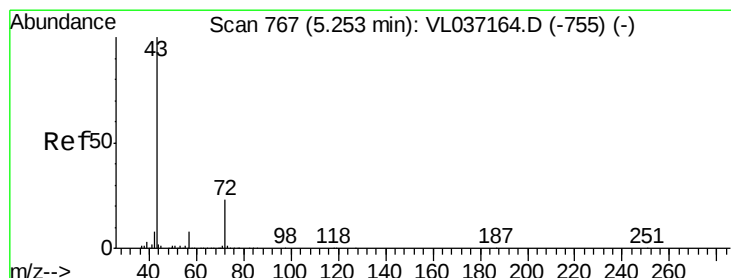
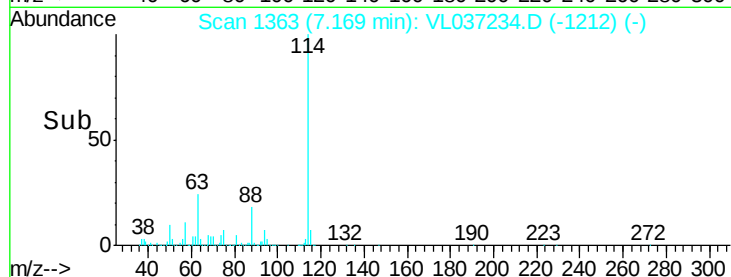
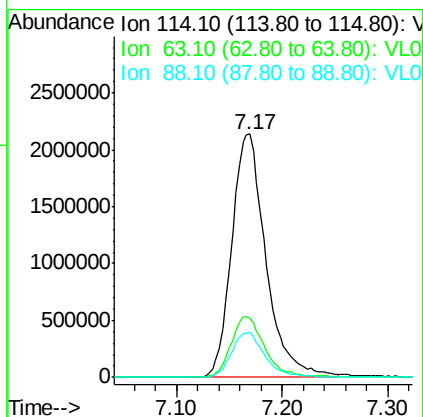
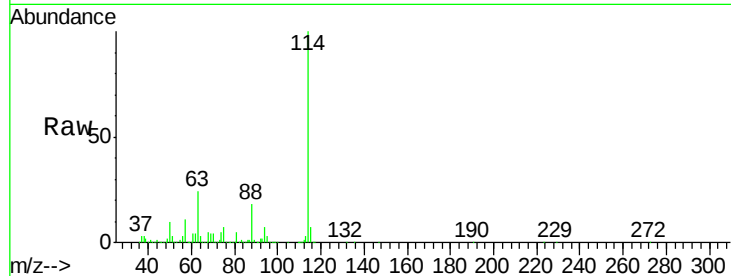
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	18.0	14.2	21.2

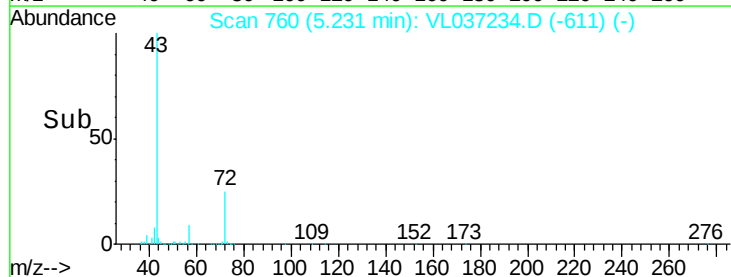
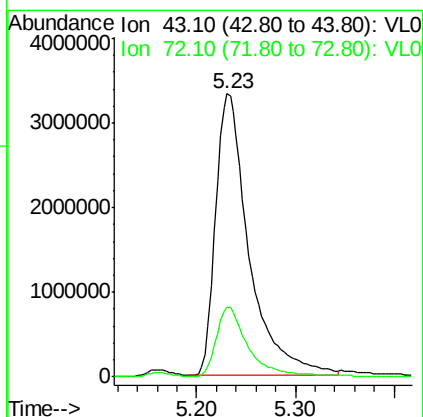
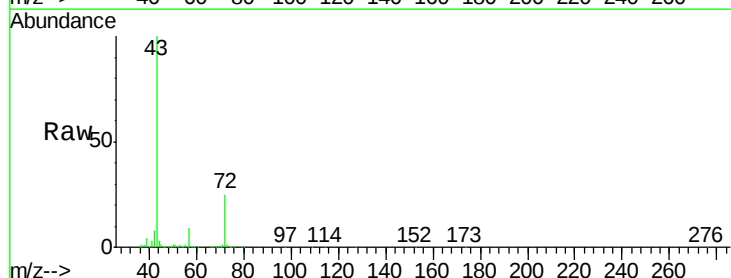
Manual Integrations
 APPROVED

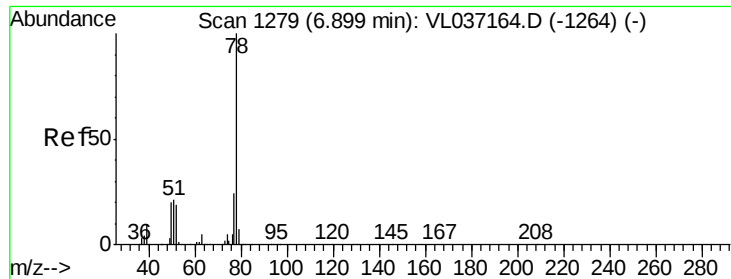
MMDadoda
 6/25/2021 2:21:28 PM



#34
 2-Butanone
 Concen: 42.399 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.9	28.3





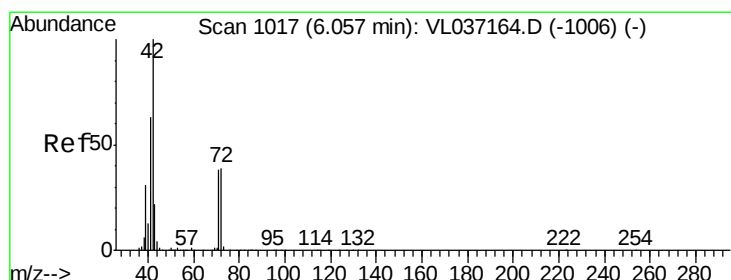
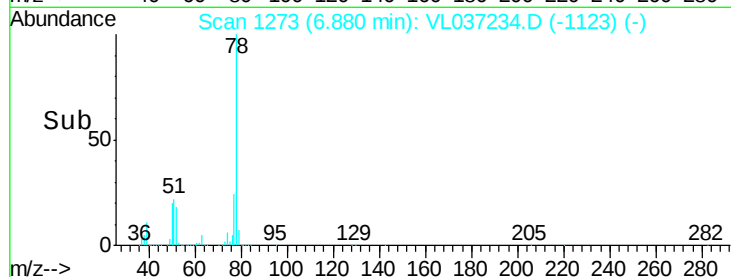
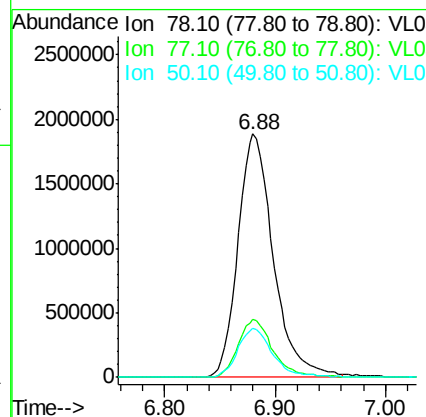
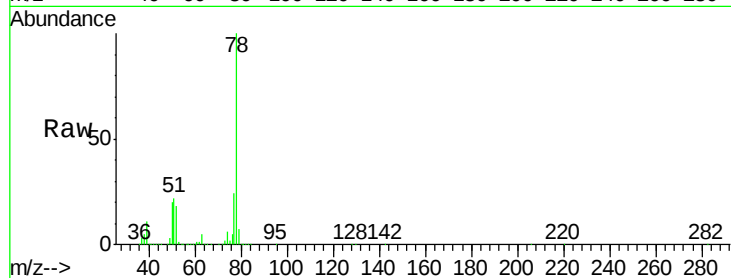
#36
Benzene
Concen: 10.827 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Instrument :
MSVOA_L
ClientSampled :
SV1DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6
50	20.0	15.7	23.5

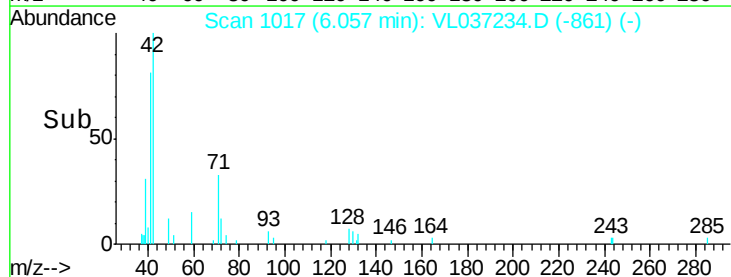
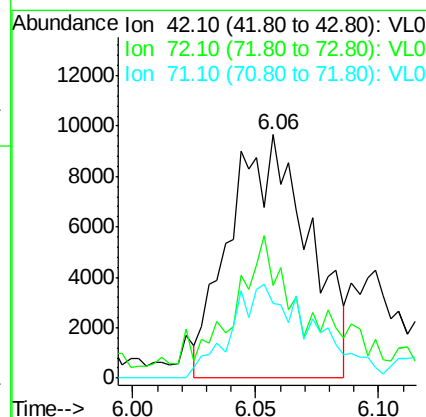
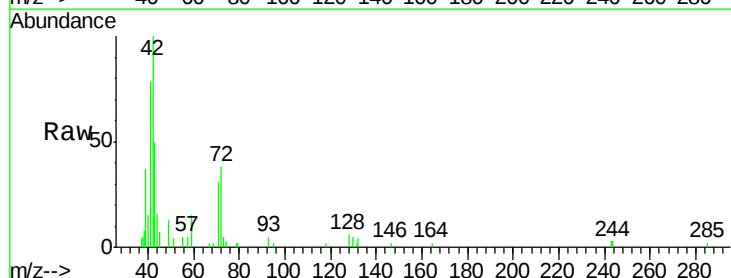
Manual Integrations
APPROVED

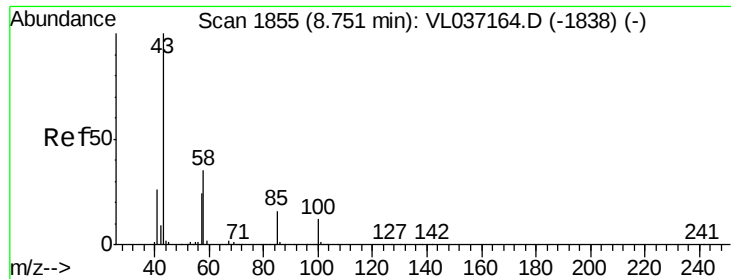
MMDadoda
6/25/2021 2:21:28 PM



#41
Tetrahydrofuran
Concen: 0.249 ppbv m
RT: 6.06 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.0	49.4#
71	0.0	31.0	46.6#





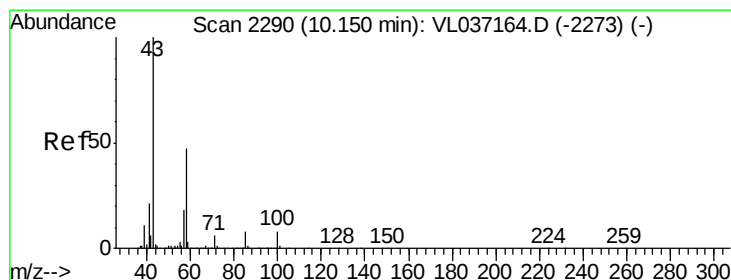
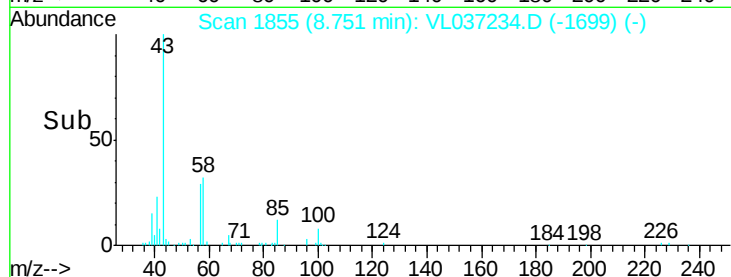
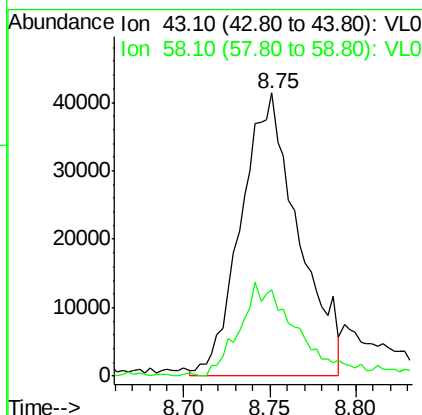
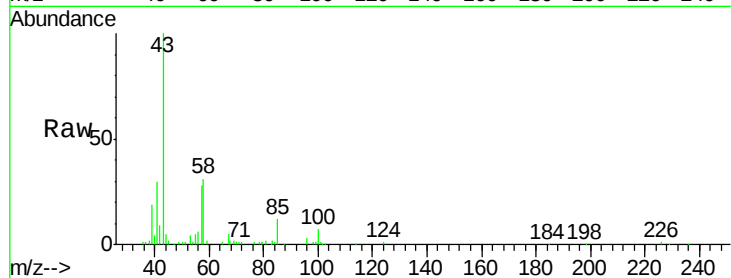
#50
4-Methyl-2-Pentanone
Concen: 0.375 ppbv m
RT: 8.75 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.4	42.6

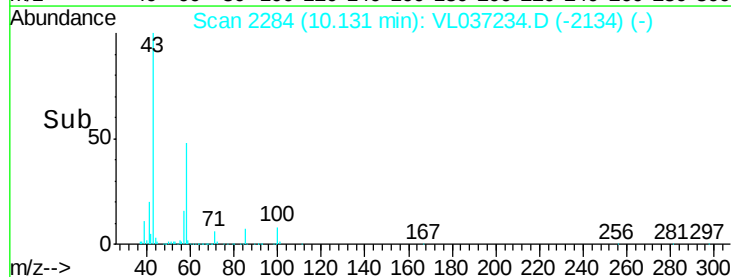
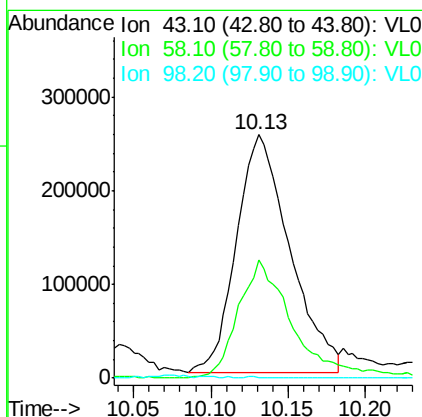
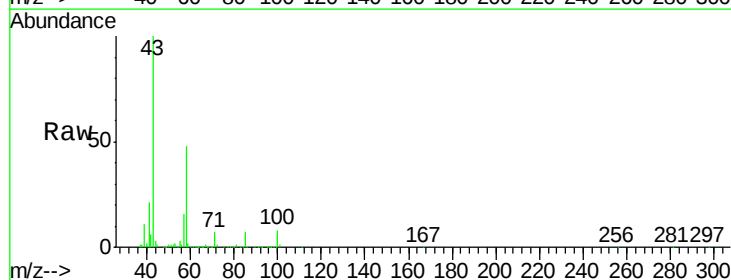
Manual Integrations
APPROVED

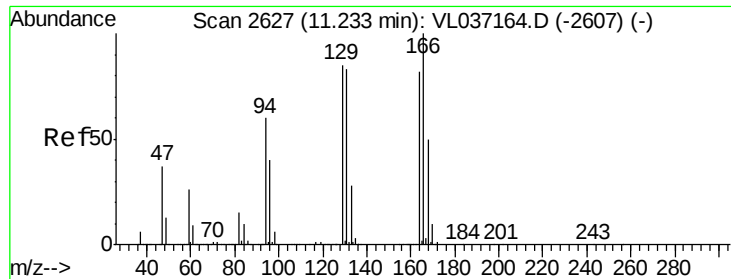
MMDadoda
6/25/2021 2:21:28 PM



#51
2-Hexanone
Concen: 4.902 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	53.3	38.4	57.6
98	0.2	0.3	0.5#





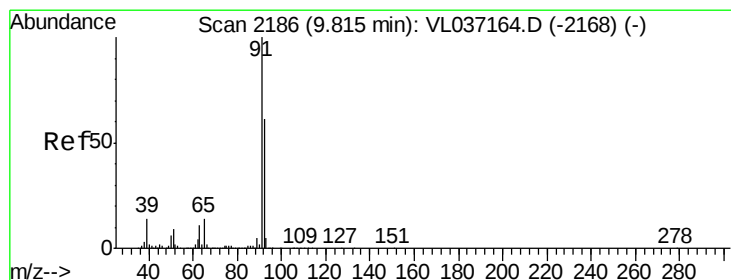
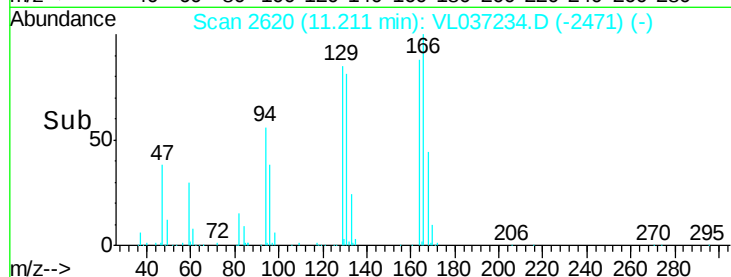
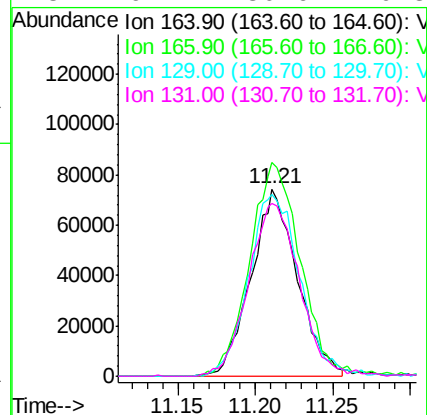
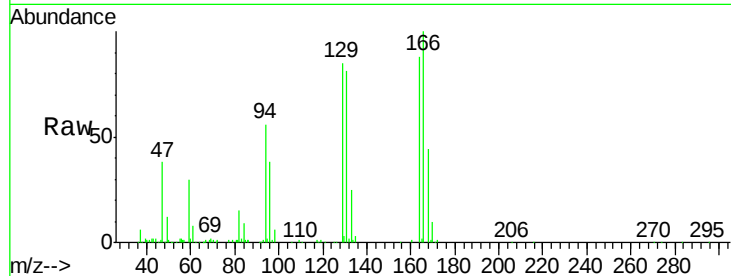
#52
Tetrachloroethene
Concen: 0.860 ppbv
RT: 11.21 min Scan# 2620
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	113.9	97.6	146.4
129	96.9	82.9	124.3
131	92.4	80.6	120.8

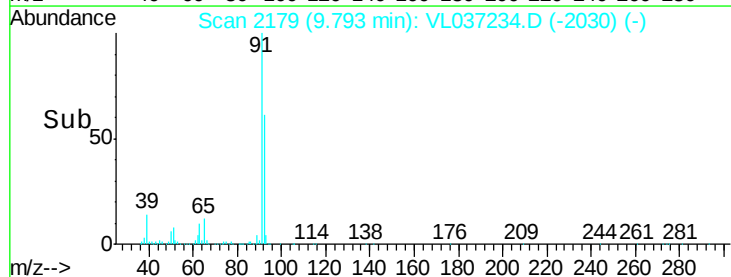
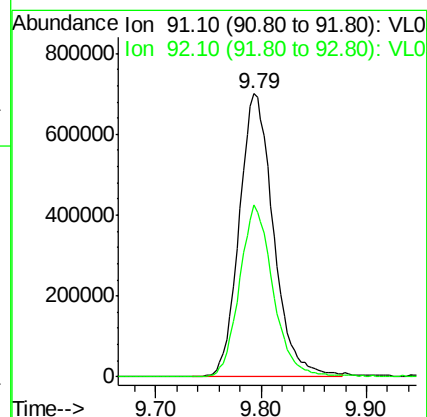
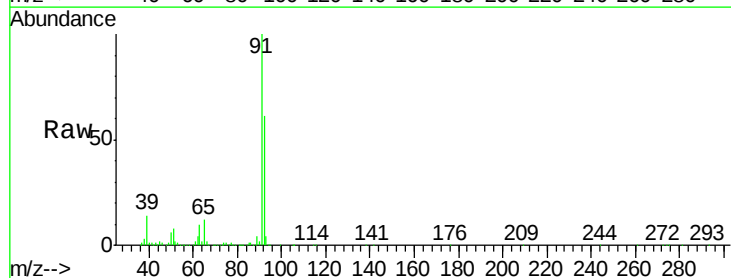
Manual Integrations
APPROVED

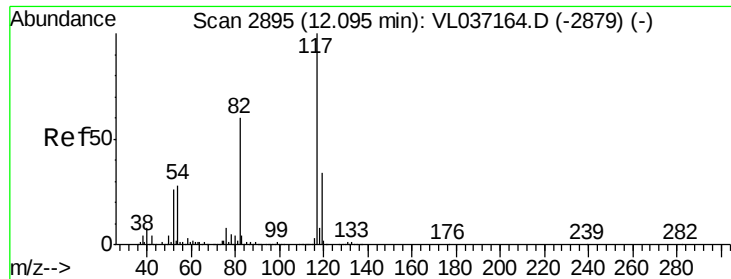
MMDadoda
6/25/2021 2:21:28 PM



#53
Toluene
Concen: 3.407 ppbv
RT: 9.79 min Scan# 2179
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.3	72.5





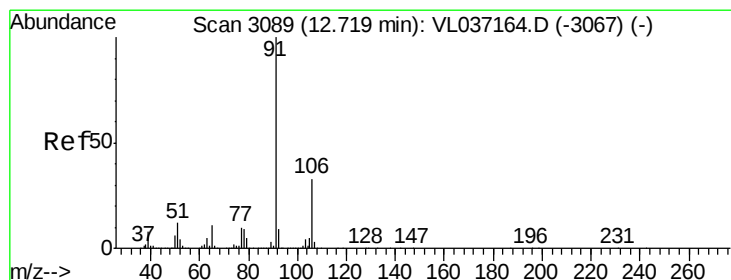
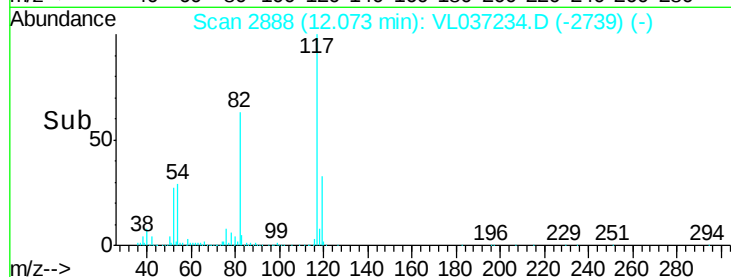
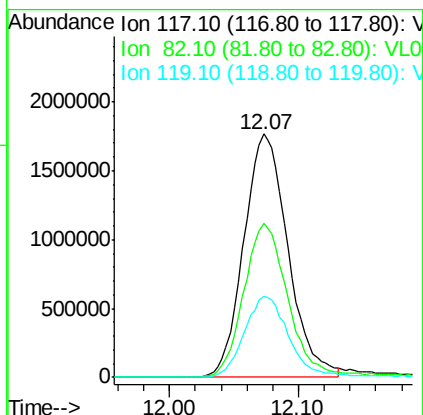
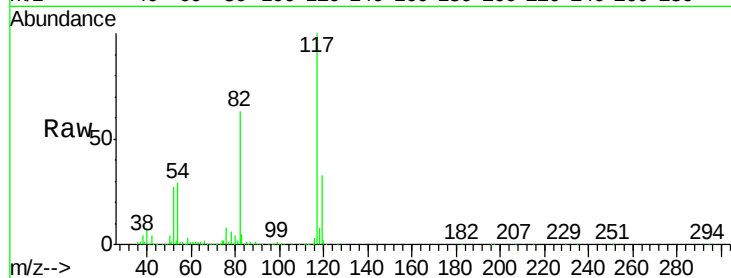
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion:117 Resp: 4209902
Ion Ratio Lower Upper
117 100
82 65.5 51.7 77.5
119 34.2 47.6 71.4#

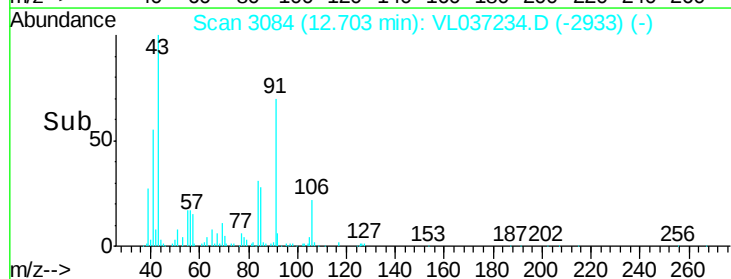
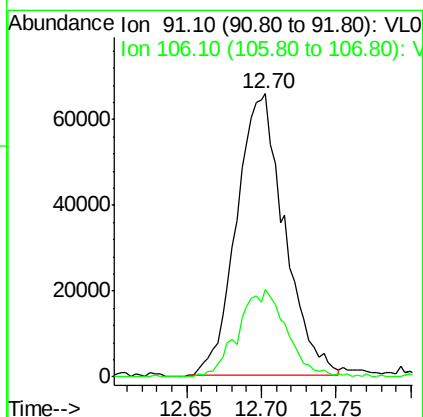
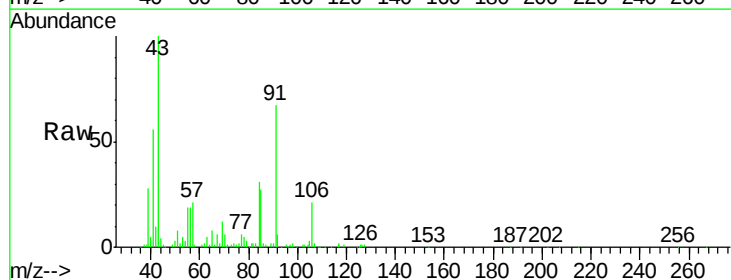
Manual Integrations
APPROVED

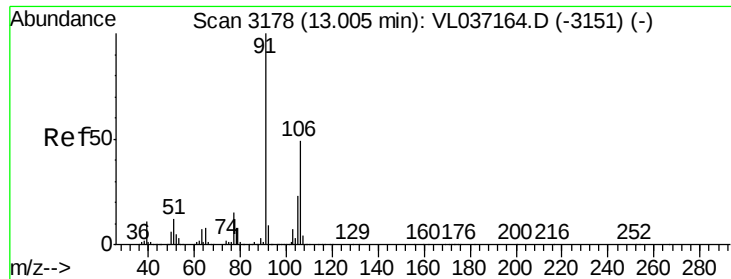
MMDadoda
6/25/2021 2:21:28 PM



#58
Ethyl Benzene
Concen: 0.253 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.02 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Tgt Ion: 91 Resp: 146406
Ion Ratio Lower Upper
91 100
106 31.3 26.3 39.5





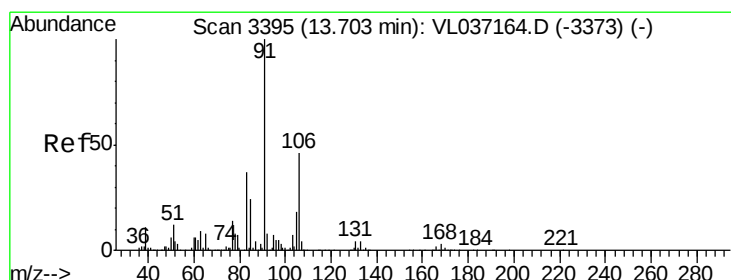
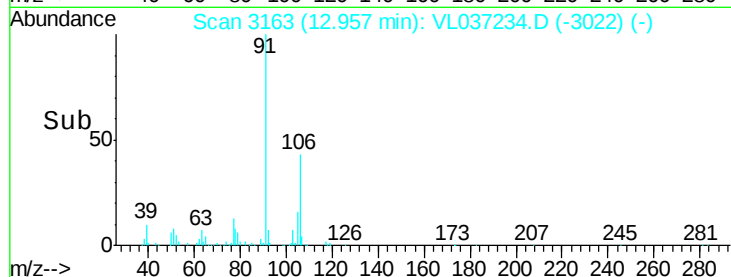
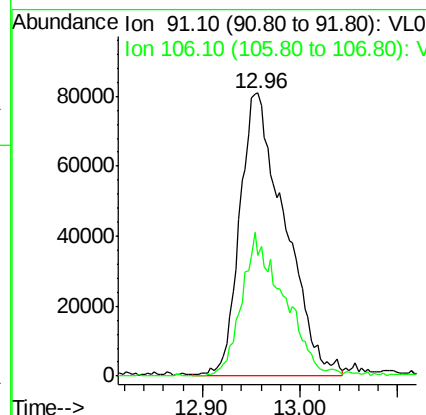
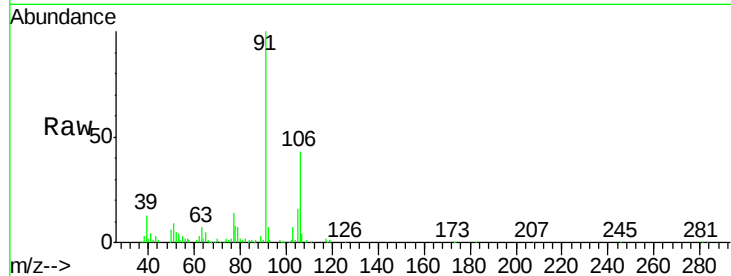
#59
m/p-Xylene
Concen: 0.527 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.05 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion: 91 Resp: 258836
Ion Ratio Lower Upper
91 100
106 47.9 37.0 55.4

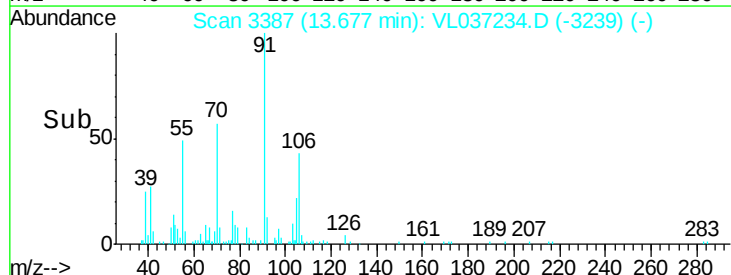
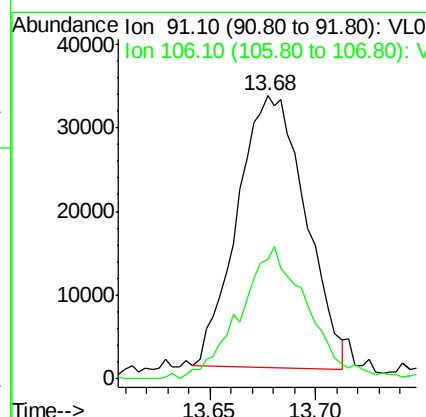
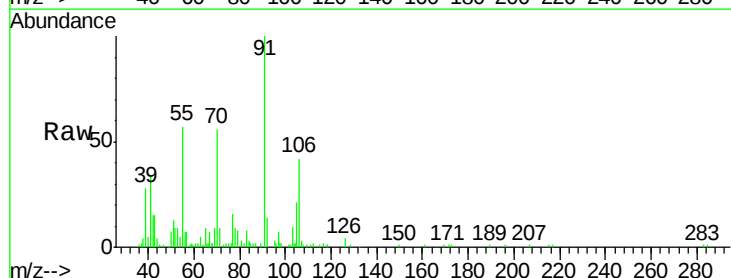
Manual Integrations
APPROVED

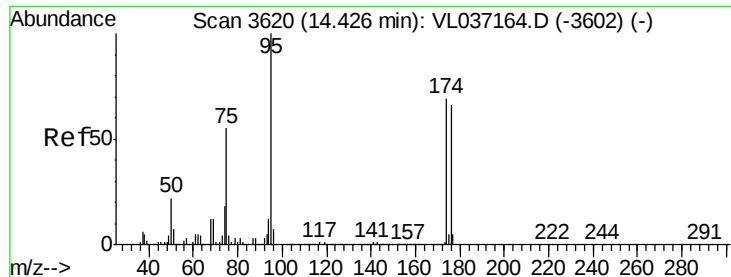
MMDadoda
6/25/2021 2:21:28 PM



#60
o-Xylene
Concen: 0.156 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.03 min
Lab File: VL037234.D
Acq: 23 Jun 2021 5:33

Tgt Ion: 91 Resp: 73072
Ion Ratio Lower Upper
91 100
106 49.0 23.0 69.0





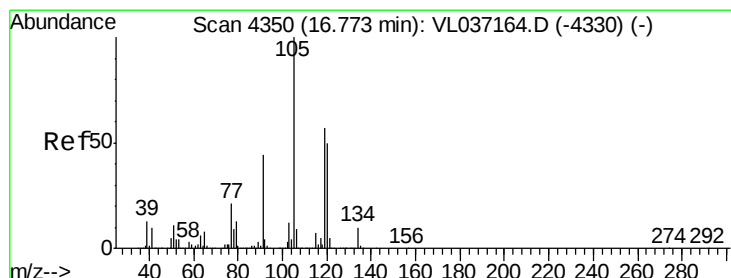
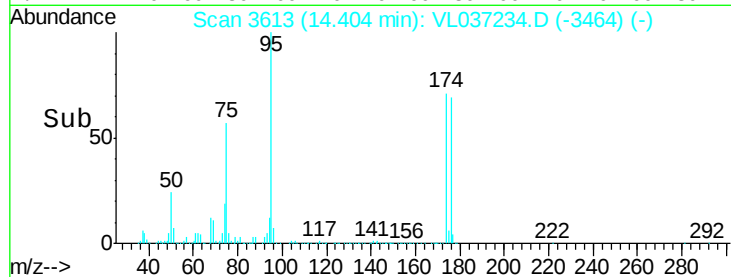
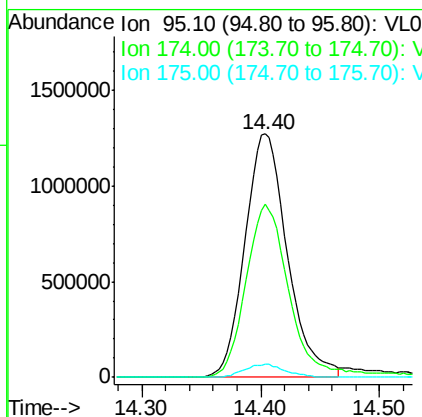
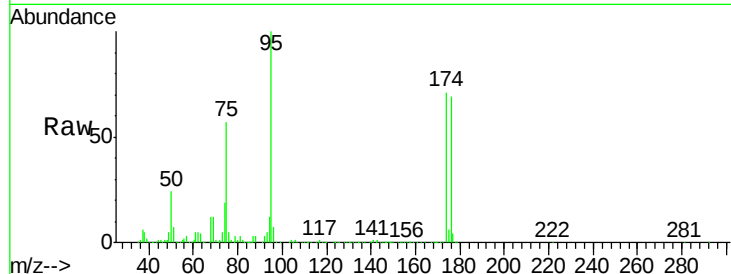
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.861 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.02 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion: 95 Resp: 3145614
 Ion Ratio Lower Upper
 95 100
 174 75.4 57.0 85.4
 175 5.6 4.4 6.6

Manual Integrations
 APPROVED

MMDadoda
 6/25/2021 2:21:28 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.153 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.03 min
 Lab File: VL037234.D
 Acq: 23 Jun 2021 5:33

Tgt Ion: 105 Resp: 81142
 Ion Ratio Lower Upper
 105 100
 120 44.6 39.8 59.8
 91 10.1 37.0 55.4#
 77 14.5 17.0 25.4#

