

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037260.D
 Acq On : 29 Jun 2021 22:10
 Operator : SY/AP
 Sample : M2887-03 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 3:38:56 PM

Quant Time: Jun 30 09:59:15 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	1659301	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	4737850	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4326244	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	3341827	10.19	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	4762273	46.162	ppbv	93
10) Heptane	8.12	43	507183	2.030	ppbv	99
13) Ethanol	3.61	45	109384m	6.854	ppbv	
15) Acetone	3.84	43	4249519	22.711	ppbv	100
17) tert-Butyl alcohol	4.31	59	92534	0.535	ppbv #	71
20) Methylene Chloride	4.34	84	762461	6.806	ppbv	98
26) Hexane	5.68	57	992017	4.845	ppbv #	43
27) Carbon Disulfide	4.55	76	52905m	0.264	ppbv	
30) Cyclohexane	7.12	84	77778	0.456	ppbv	91
34) 2-Butanone	5.24	43	2370979	12.868	ppbv	100
36) Benzene	6.88	78	539057	1.407	ppbv	98
51) 2-Hexanone	10.14	43	322297	2.617	ppbv #	97
53) Toluene	9.80	91	751231	1.642	ppbv	97
58) Ethyl Benzene	12.70	91	165718	0.278	ppbv	90
59) m/p-Xylene	12.96	91	378416m	0.750	ppbv	
60) o-Xylene	13.68	91	120351	0.250	ppbv	96
61) Styrene	13.52	104	38772m	0.156	ppbv	
69) p-Isopropyltoluene	17.64	119	281080	0.412	ppbv	96
72) 4-Ethyltoluene	15.83	105	54831	0.100	ppbv #	89
73) 1,3,5-Trimethylbenzene	16.00	105	63660m	0.121	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	174426	0.321	ppbv #	63

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

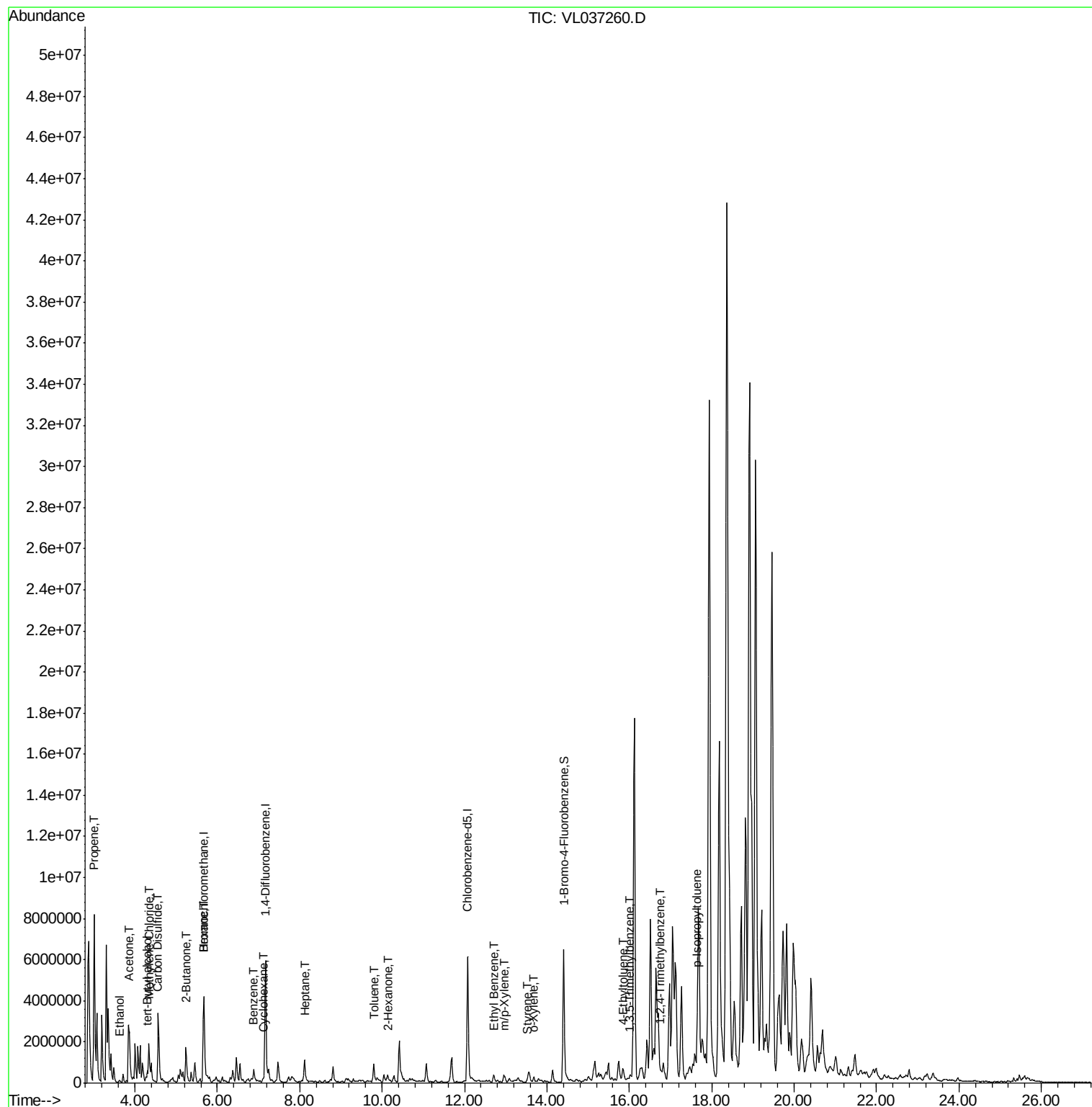
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062921\
Data File : VL037260.D
Acq On : 29 Jun 2021 22:10
Operator : SY/AP
Sample : M2887-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

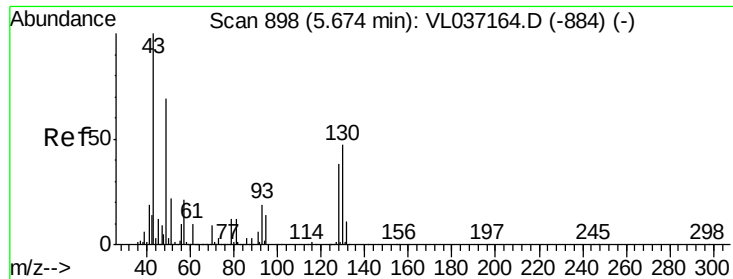
Instrument :
MSVOA_L
ClientSampleId :
SV-3

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:38:56 PM

Quant Time: Jun 30 09:59:15 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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# 894

Delta R.T. -0.01 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Instrument :

MSVOA_L

ClientSampled :

SV-3

Tot Ion: 49 Resp: 1659301

Ion Ratio Lower Upper

49 100

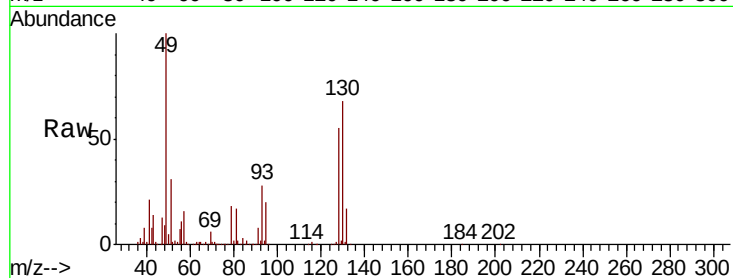
128 54.3 29.3 88.0

130 69.7 35.9 107.8

Manual Integrations
APPROVED

MMDadoda

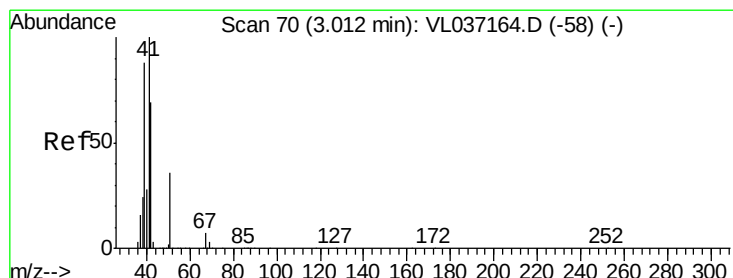
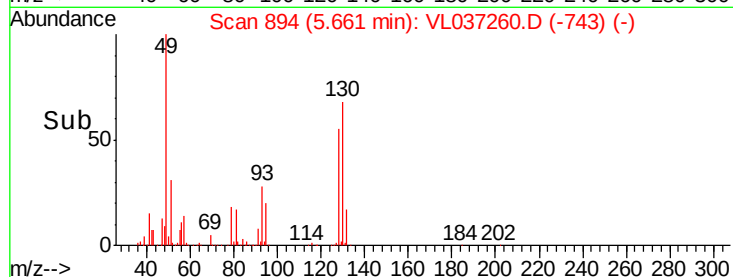
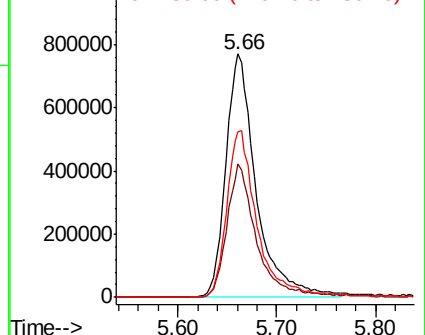
7/5/2021 3:38:56 PM



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



#9

Propene

Concen: 46.162 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037260.D

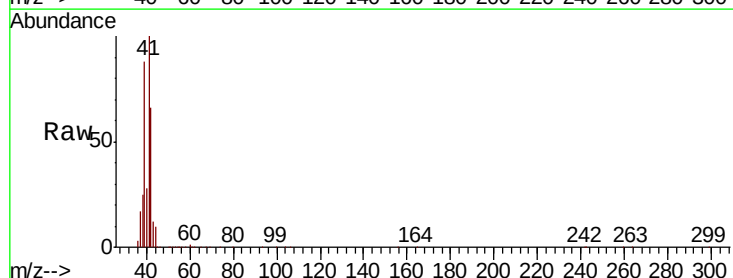
Acq: 29 Jun 2021 22:10

Tgt Ion: 41 Resp: 4762273

Ion Ratio Lower Upper

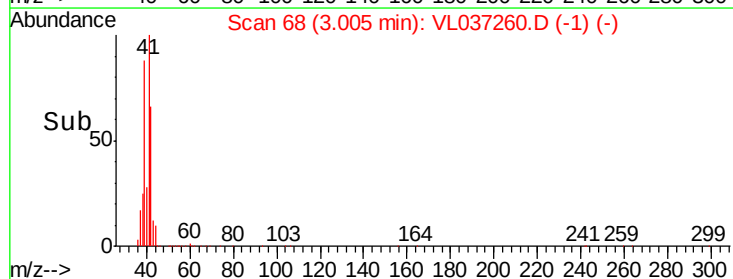
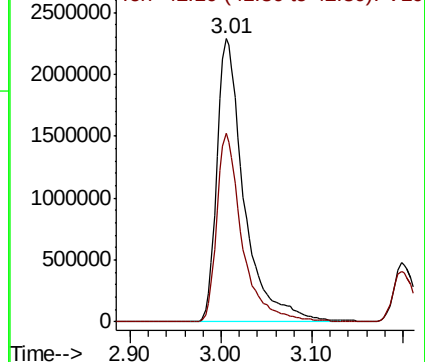
41 100

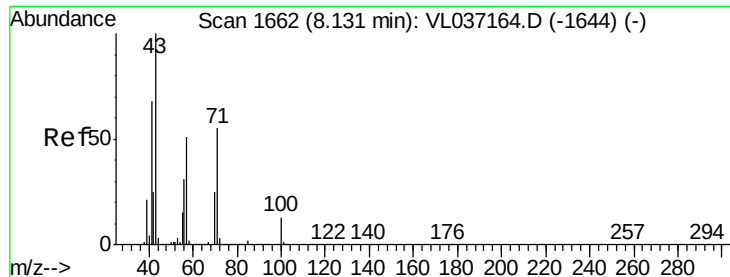
42 62.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





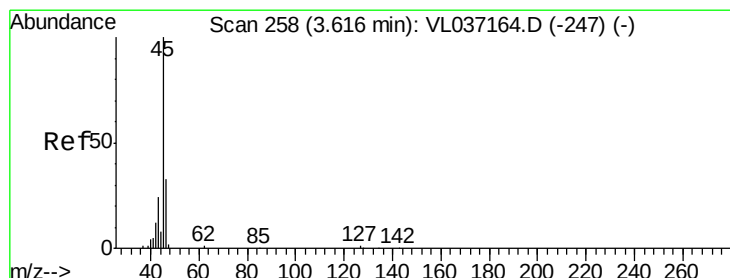
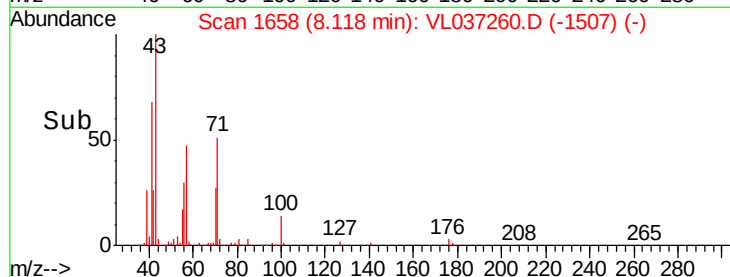
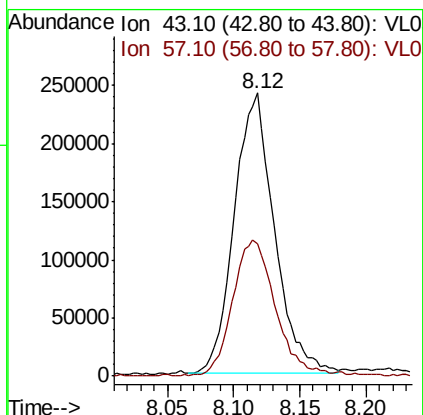
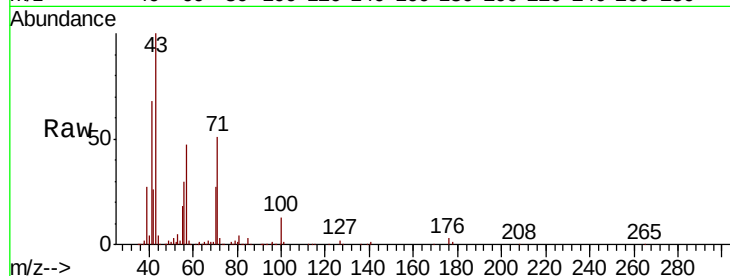
#10
Heptane
Concen: 2.030 ppbv
RT: 8.12 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Instrument :
MSVOA_L
ClientSampled :
SV-3

Tot Ion: 43 Resp: 507183
Ion Ratio Lower Upper
43 100
57 51.5 40.6 61.0

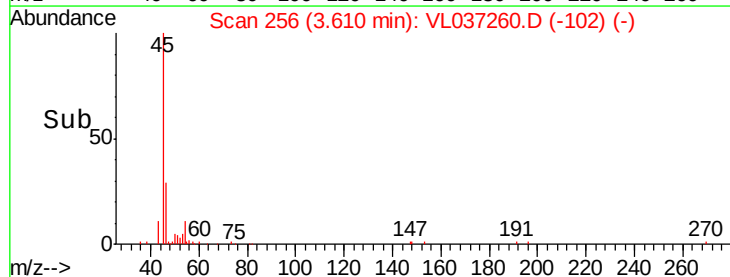
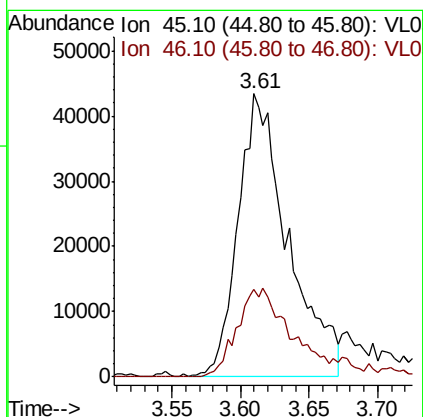
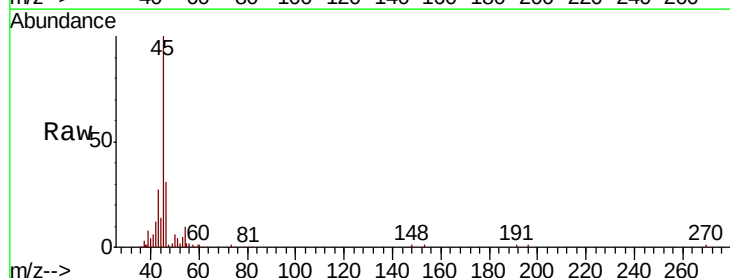
Manual Integrations
APPROVED

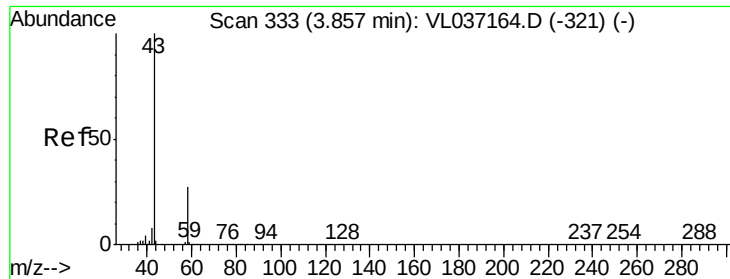
MMDadoda
7/5/2021 3:38:56 PM



#13
Ethanol
Concen: 6.854 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. -0.01 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Tgt Ion: 45 Resp: 109384
Ion Ratio Lower Upper
45 100
46 0.0 34.2 137.0#





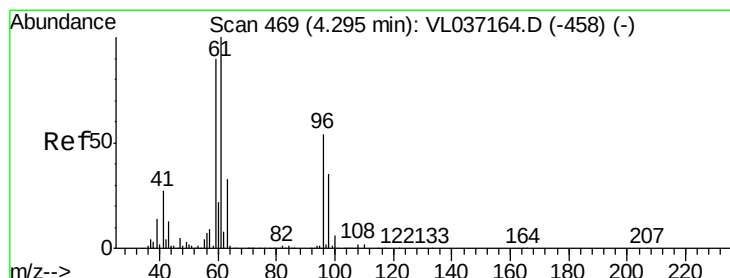
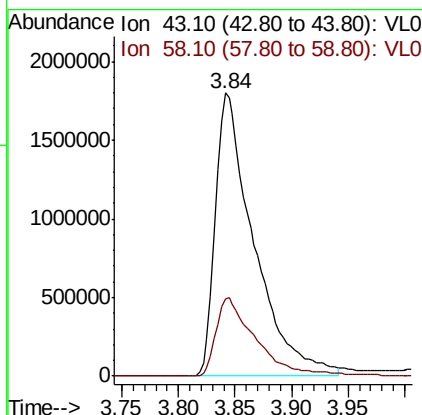
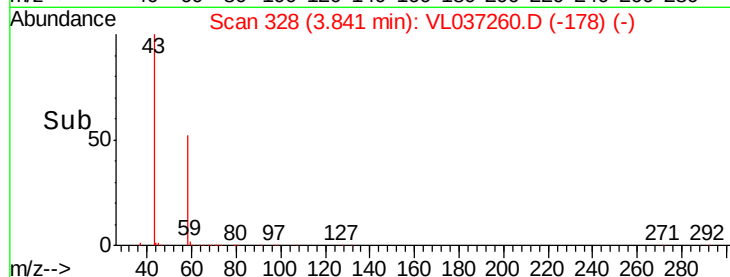
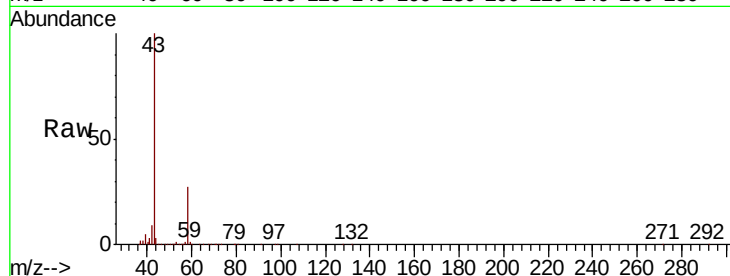
#15
Acetone
Concen: 22.711 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.02 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Instrument :
MSVOA_L
ClientSampleId :
SV-3

Tot Ion: 43 Resp: 4249519
Ion Ratio Lower Upper
43 100
58 29.4 23.7 35.5

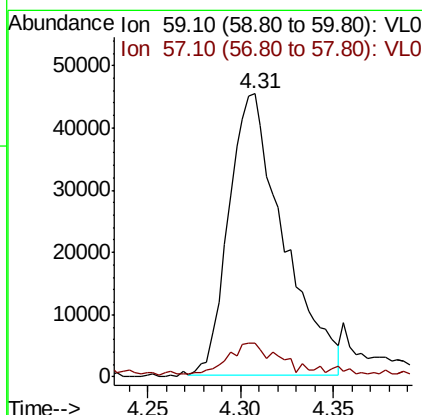
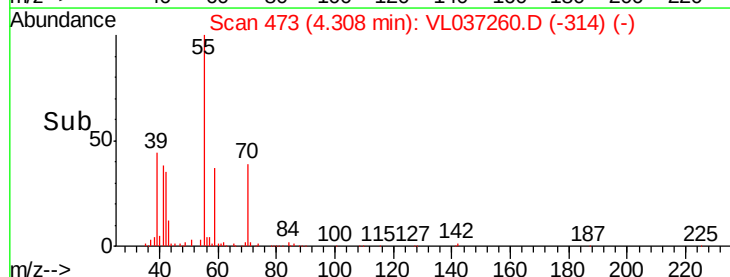
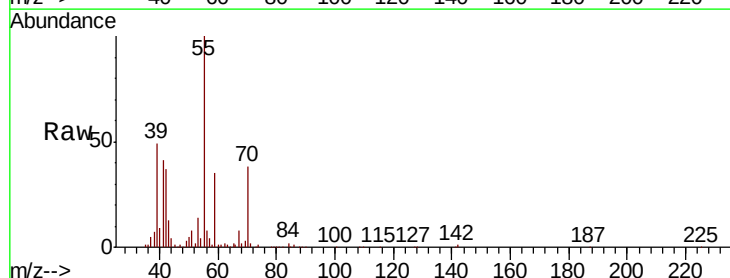
Manual Integrations
APPROVED

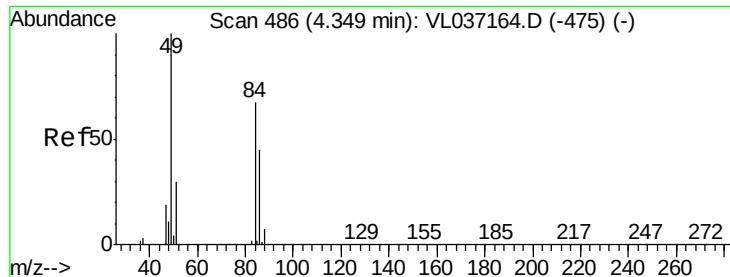
MMDadoda
7/5/2021 3:38:56 PM



#17
tert-Butyl alcohol
Concen: 0.535 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.01 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Tgt Ion: 59 Resp: 92534
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#





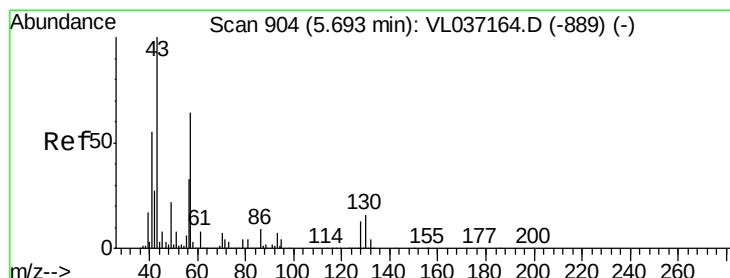
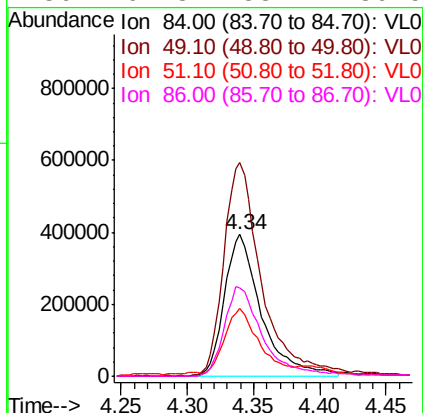
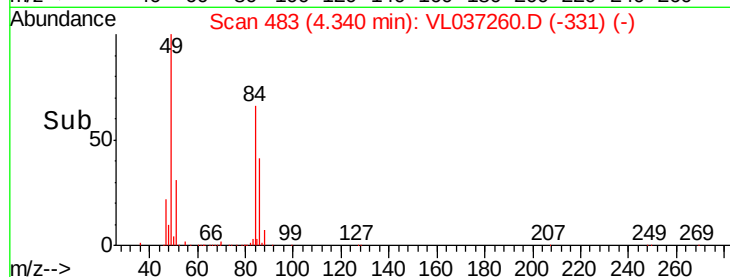
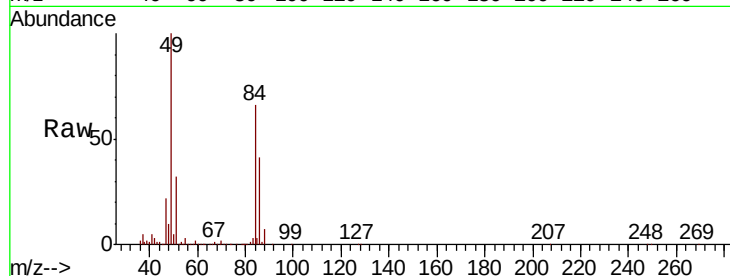
#20
Methvlene Chloride
Concen: 6.806 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Instrument :
MSVOA_L
ClientSampled :
SV-3

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	150.1	119.7	179.5	
51	45.4	36.1	54.1	
86	61.8	53.7	80.5	

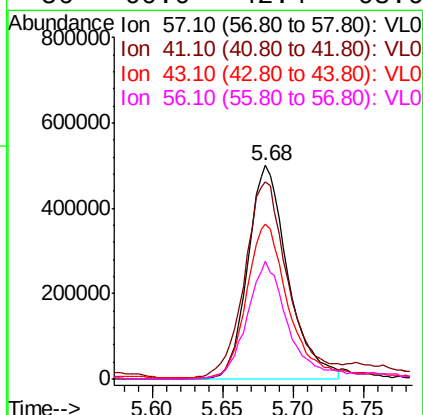
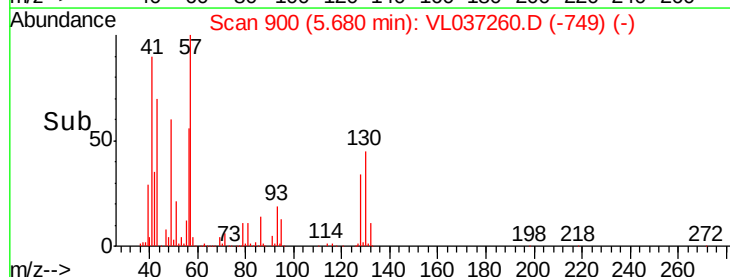
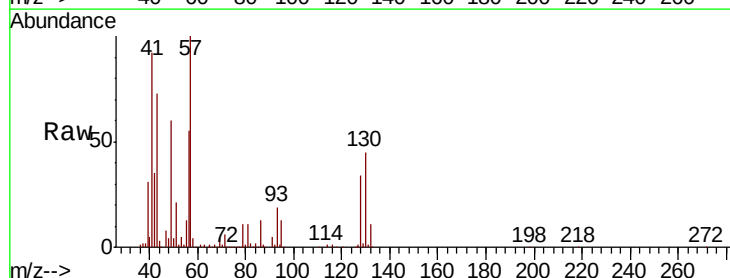
Manual Integrations
APPROVED

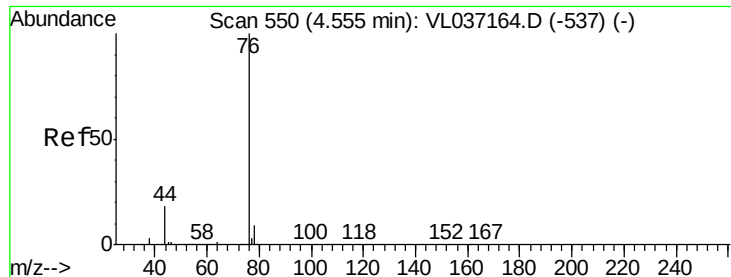
MMDadoda
7/5/2021 3:38:56 PM



#26
Hexane
Concen: 4.845 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	109.6	73.5	110.3	
43	78.2	170.7	256.1	
56	60.0	42.4	63.6	





#27

Carbon Disulfide

Concen: 0.264 ppbv m

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Instrument :

MSVOA_L

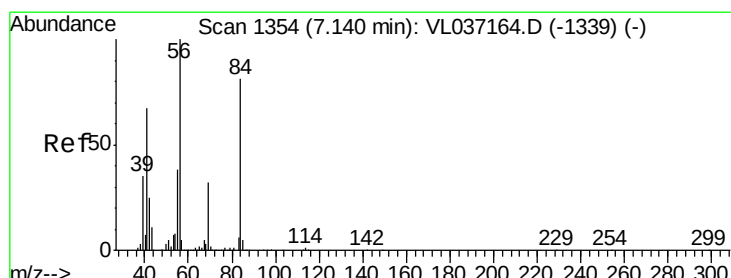
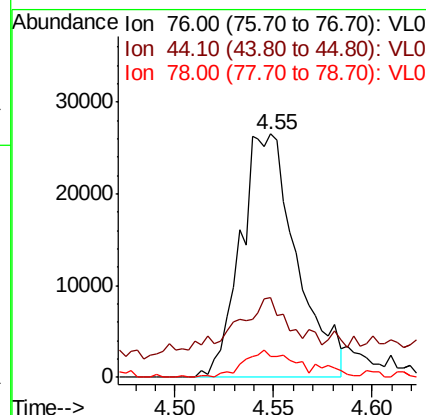
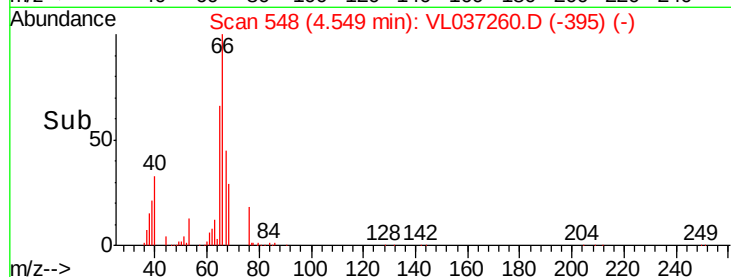
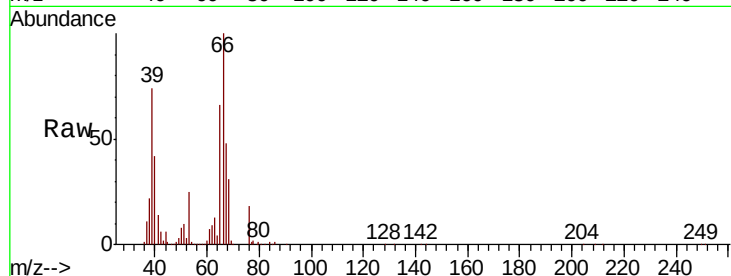
ClientSampleId :

SV-3

Tot Ion:	76	Resp:	52905
Ion	Ratio	Lower	Upper
76	100		
44	30.6	15.4	23.2#
78	12.5	8.0	12.0#

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:38:56 PM



#30

Cyclohexane

Concen: 0.456 ppbv

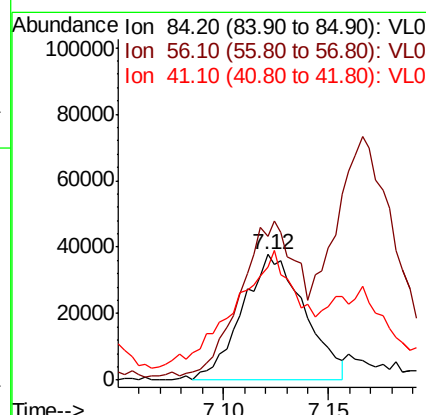
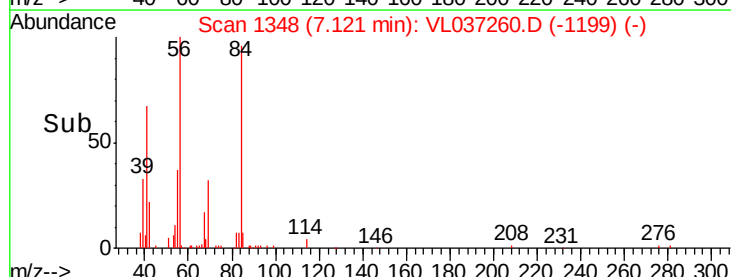
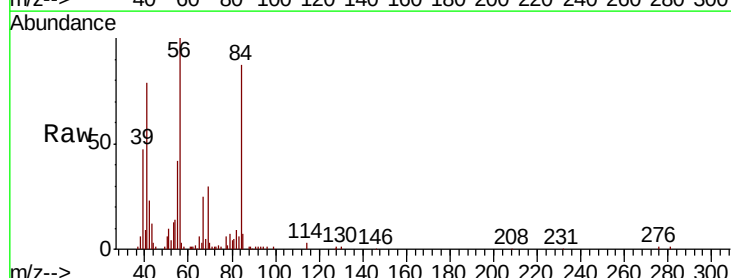
RT: 7.12 min Scan# 1348

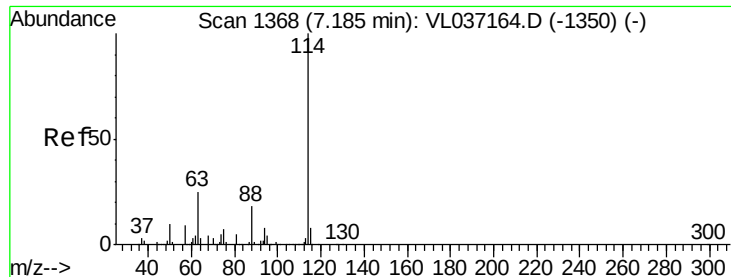
Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Tgt Ion:	84	Resp:	77778
Ion	Ratio	Lower	Upper
84	100		
56	129.0	107.7	161.5
41	101.1	69.0	103.6





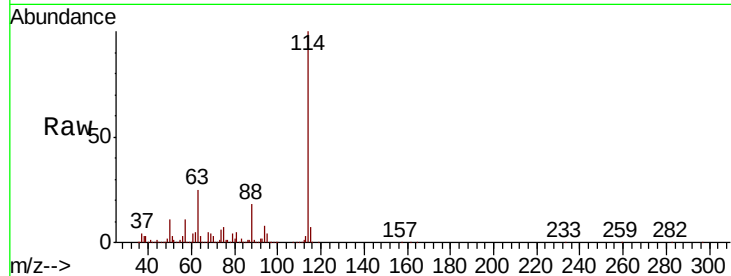
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL037260.D
 Acq: 29 Jun 2021 22:10

Instrument :
 MSVOA_L
 ClientSampled :
 SV-3

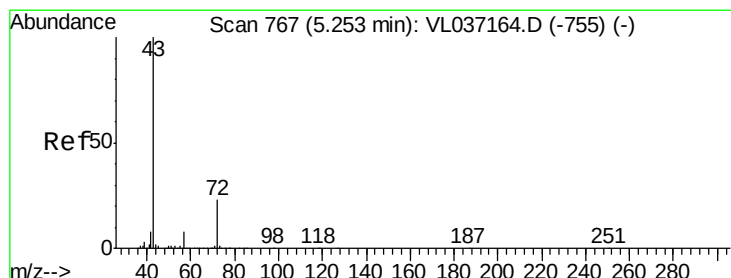
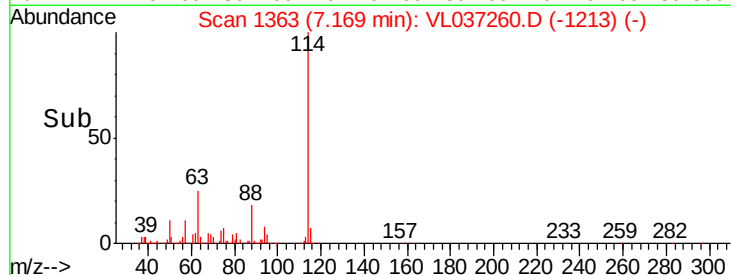
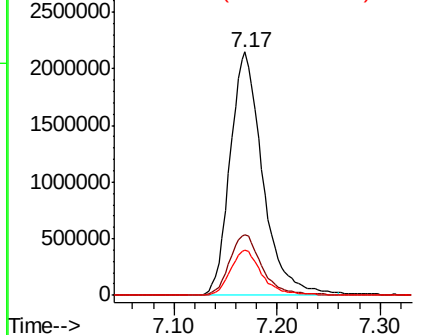
Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.6	29.4
88	18.2	14.2	21.2

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 3:38:56 PM

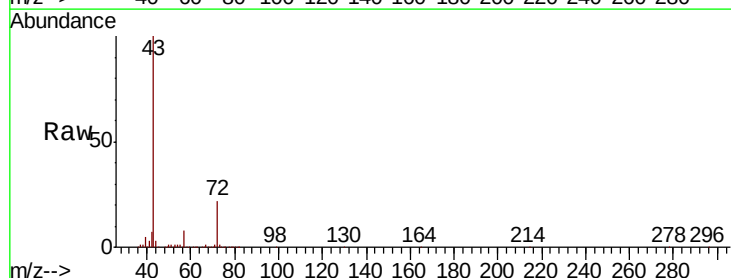


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

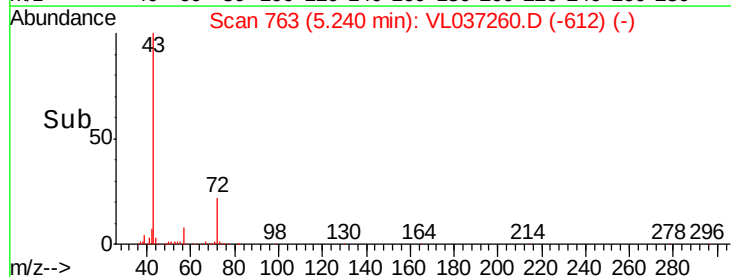
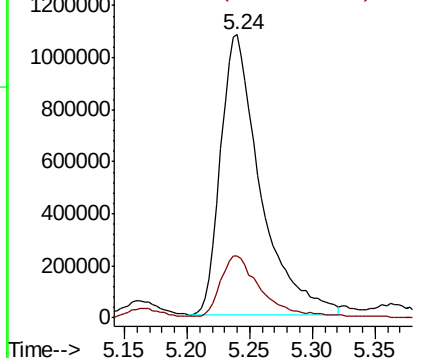


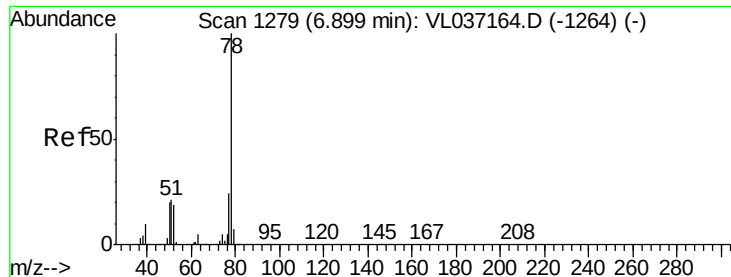
#34
 2-Butanone
 Concen: 12.868 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: VL037260.D
 Acq: 29 Jun 2021 22:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.9	28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





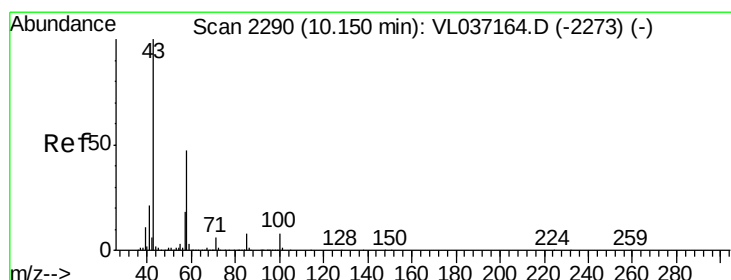
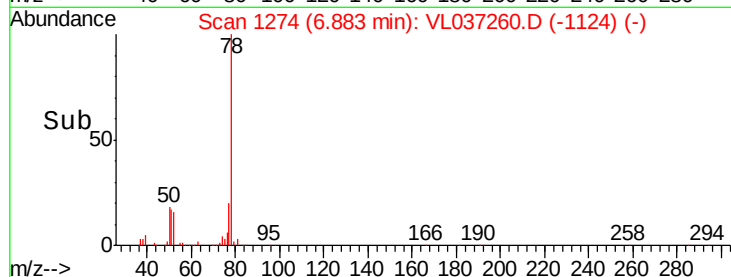
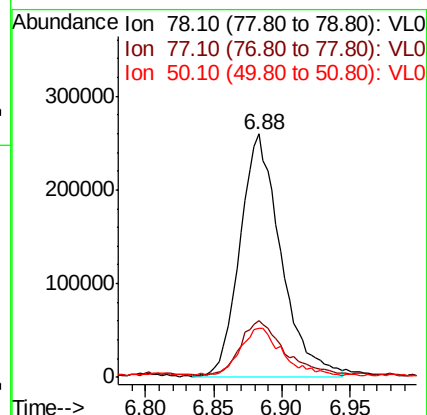
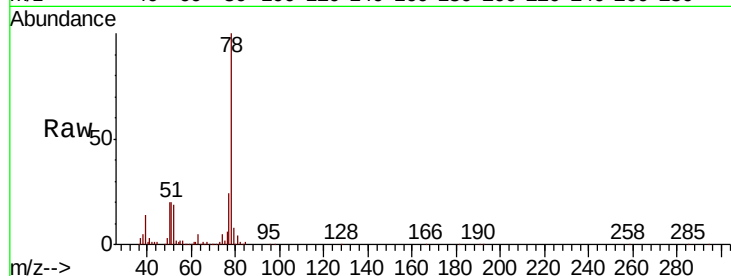
#36
Benzene
Concen: 1.407 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.02 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Instrument :
MSVOA_L
ClientSampled :
SV-3

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.0	28.6
50	19.3	15.7	23.5

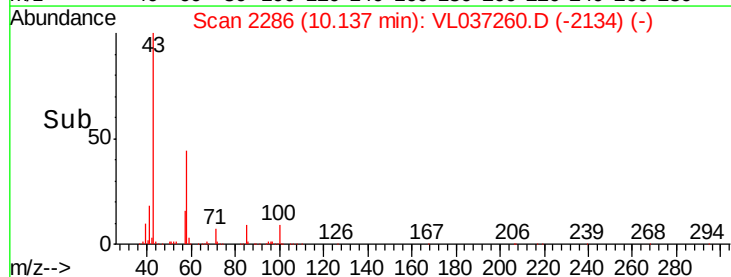
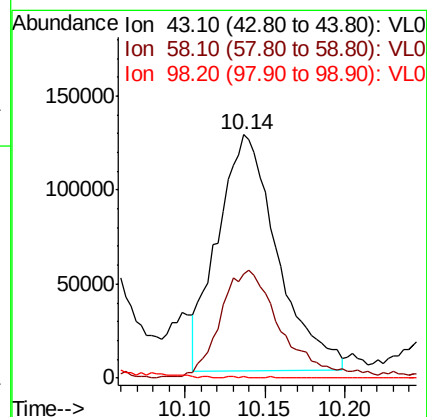
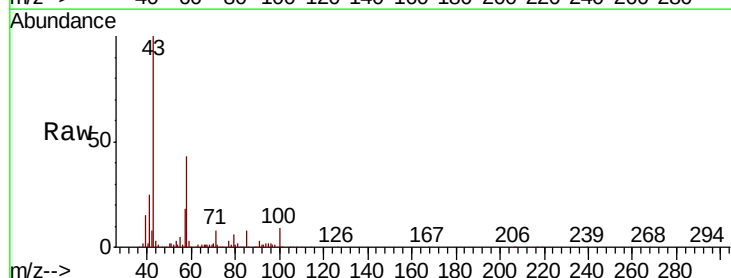
Manual Integrations
APPROVED

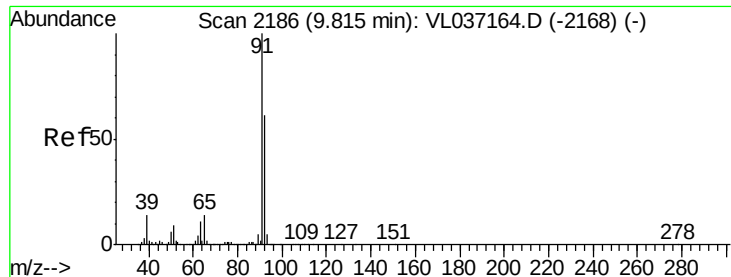
MMDadoda
7/5/2021 3:38:56 PM



#51
2-Hexanone
Concen: 2.617 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. -0.01 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.1	38.4	57.6
98	0.0	0.3	0.5





#53

Toluene

Concen: 1.642 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Instrument :

MSVOA_L

ClientSampleId :

SV-3

Tot Ion: 91 Resp: 751231

Ion Ratio Lower Upper

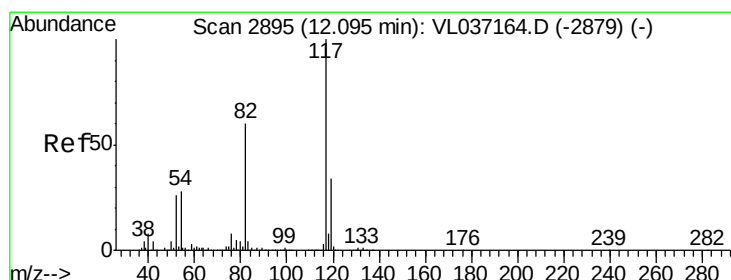
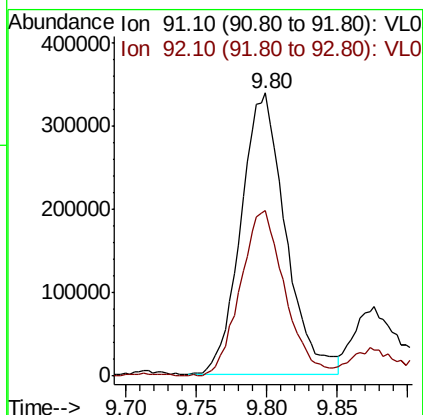
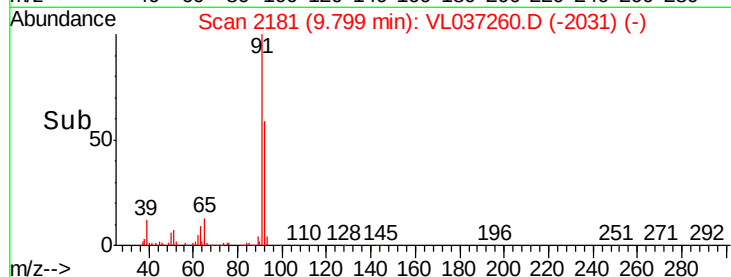
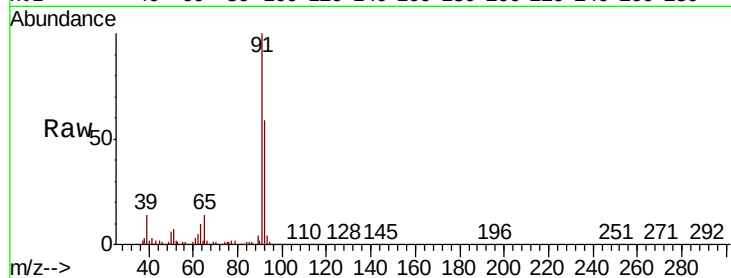
91 100

92 58.0 48.3 72.5

Manual Integrations
APPROVED

MMDadoda

7/5/2021 3:38:56 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

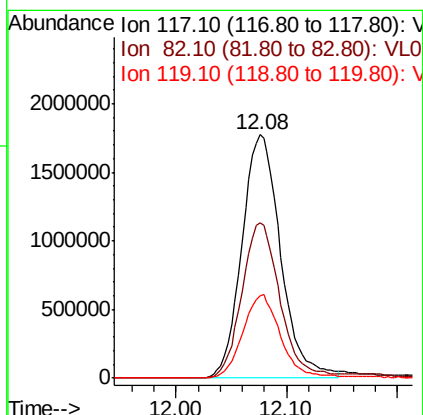
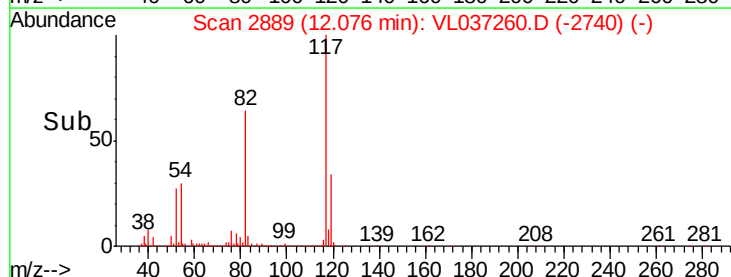
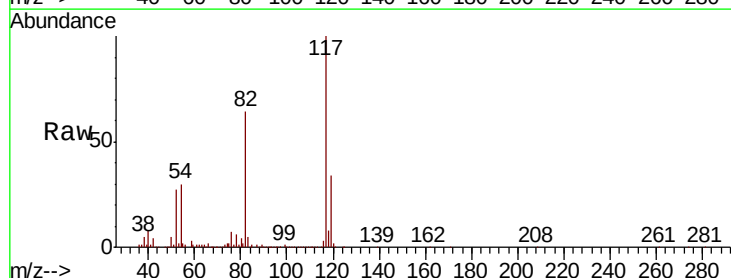
Tgt Ion: 117 Resp: 4326244

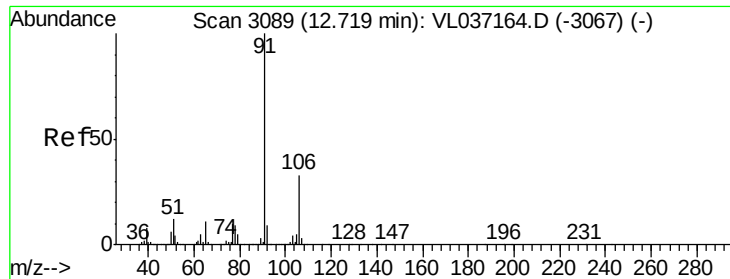
Ion Ratio Lower Upper

117 100

82 63.4 51.7 77.5

119 34.1 47.6 71.4#





#58

Ethyl Benzene

Concen: 0.278 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Instrument :

MSVOA_L

ClientSampled :

SV-3

Tot Ion: 91 Resp: 165718

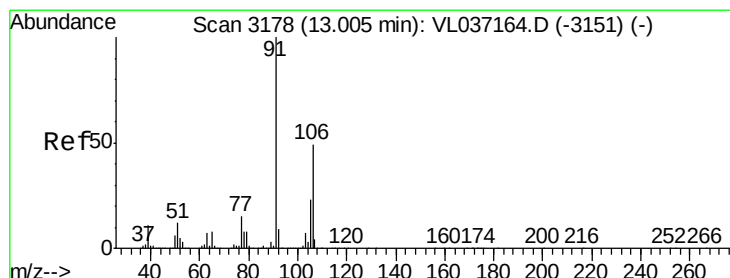
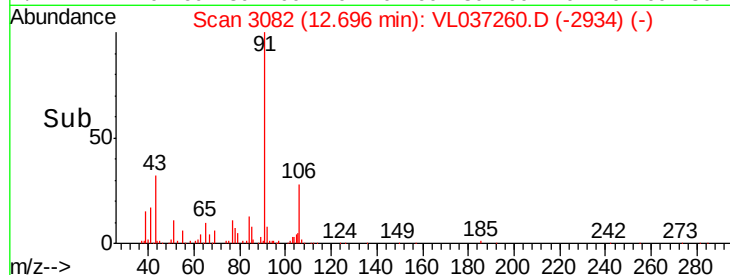
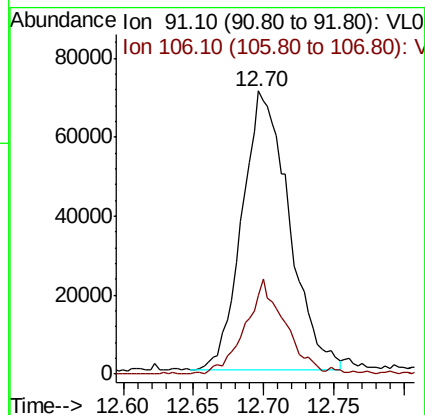
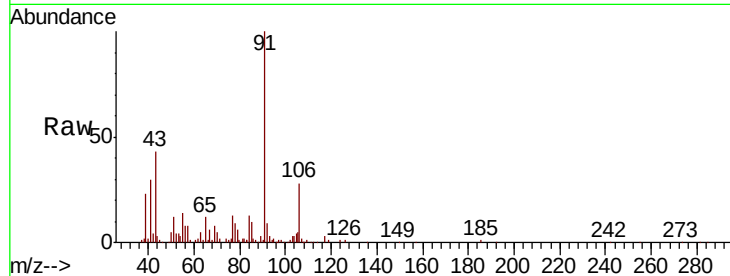
Ion Ratio Lower Upper

91 100

106 27.5 26.3 39.5

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:38:56 PM



#59

m/p-Xylene

Concen: 0.750 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.05 min

Lab File: VL037260.D

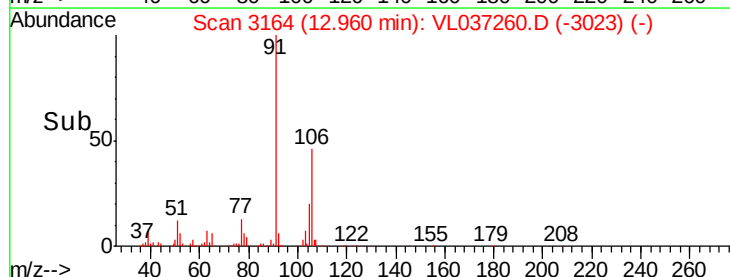
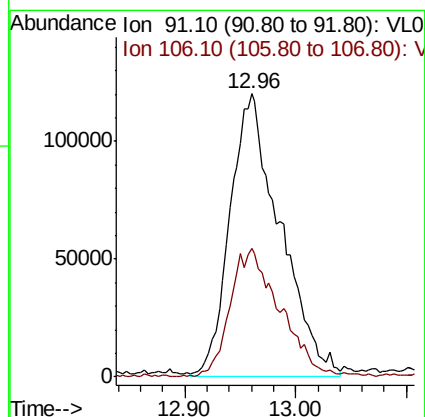
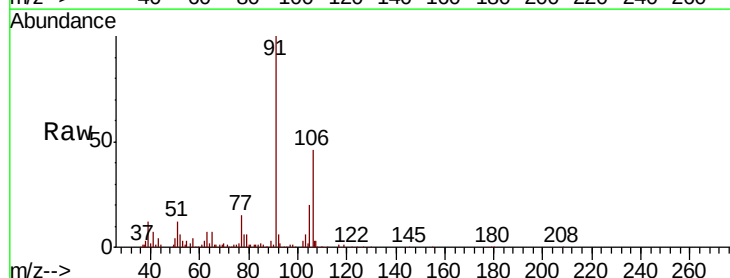
Acq: 29 Jun 2021 22:10

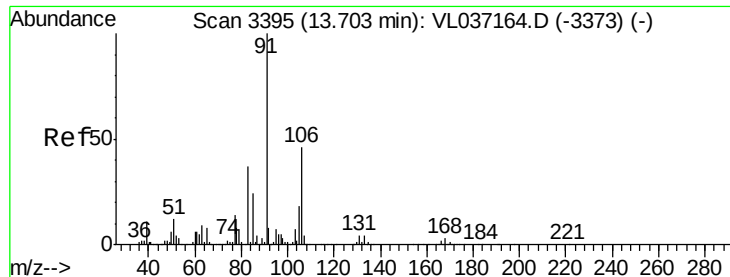
Tgt Ion: 91 Resp: 378416

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.4#





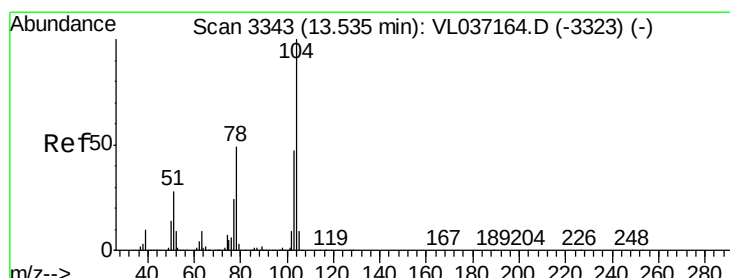
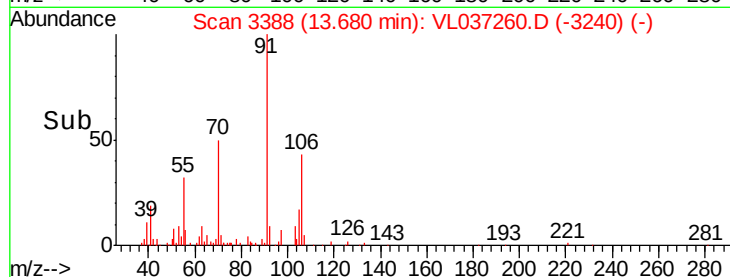
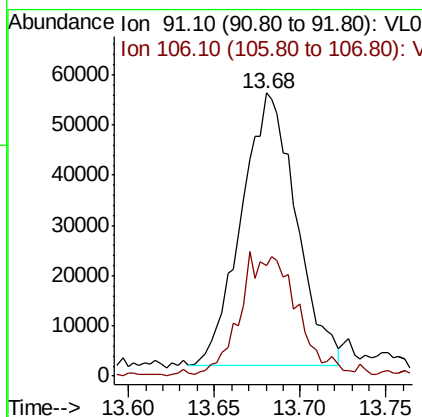
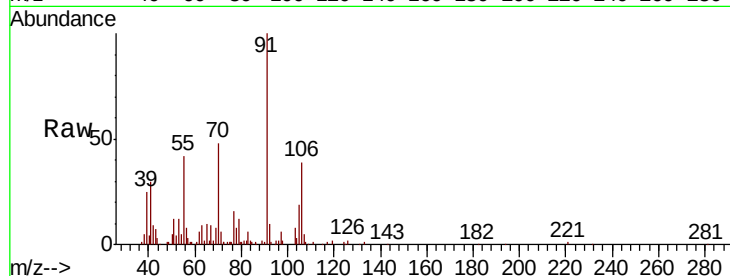
#60
o-Xylene
Concen: 0.250 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.02 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Instrument :
MSVOA_L
ClientSampled :
SV-3

Tot Ion	Ratio	Lower	Upper
91	100		
106	48.4	23.0	69.0

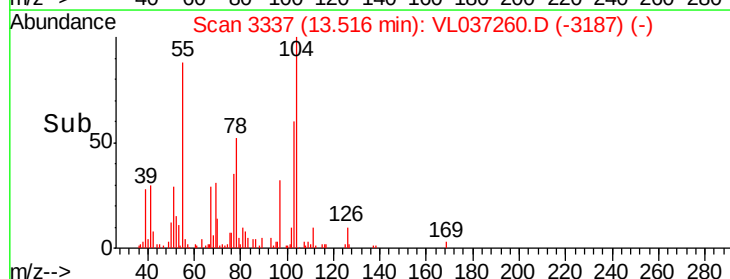
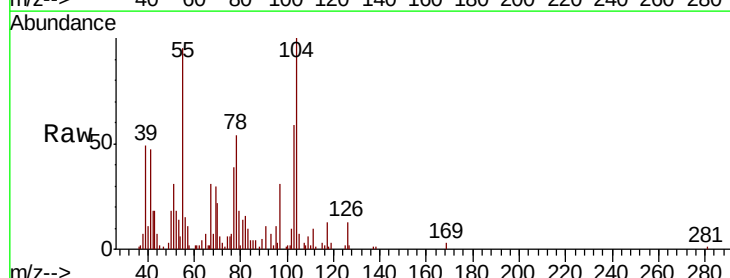
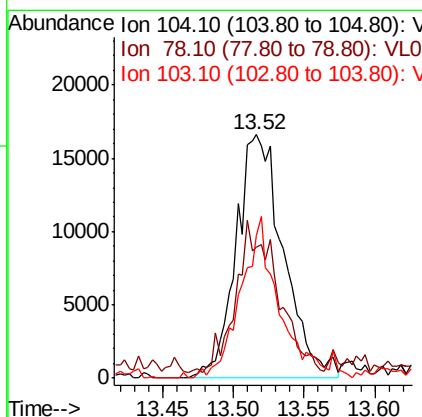
Manual Integrations
APPROVED

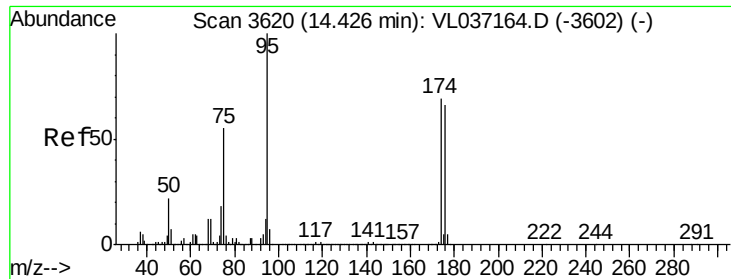
MMDadoda
7/5/2021 3:38:56 PM



#61
Styrene
Concen: 0.156 ppbv m
RT: 13.52 min Scan# 3337
Delta R.T. -0.02 min
Lab File: VL037260.D
Acq: 29 Jun 2021 22:10

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.3	39.7	59.5
103	54.8	37.6	56.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.194 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Instrument :

MSVOA_L

ClientSampleId :

SV-3

Tot Ion: 95 Resp: 3341827

Ion Ratio Lower Upper

95 100

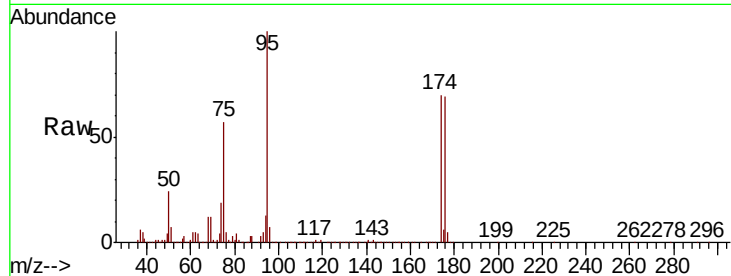
174 72.9 57.0 85.4

175 5.3 4.4 6.6

Manual Integrations
APPROVED

MMDadoda

7/5/2021 3:38:56 PM

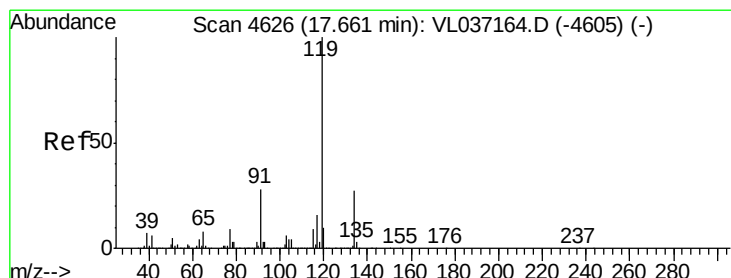
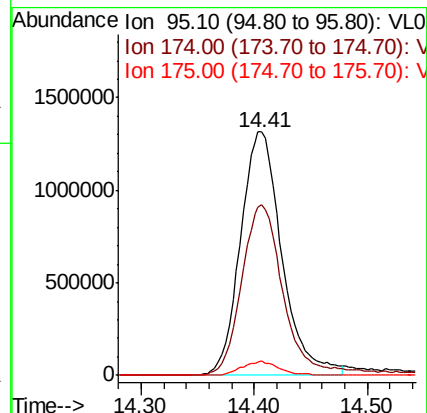
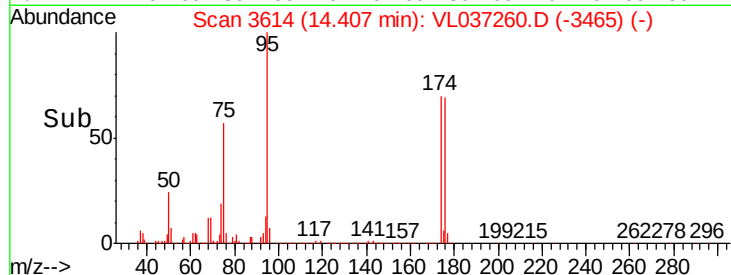


Abundance Ion 95.10 (94.80 to 95.80): VL037164.D (-3602) (-)

Ion 174.00 (173.70 to 174.70): VL037164.D (-3602) (-)

Ion 175.00 (174.70 to 175.70): VL037164.D (-3602) (-)

Time-->



#69

p-Isopropyltoluene

Concen: 0.412 ppbv

RT: 17.64 min Scan# 4619

Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

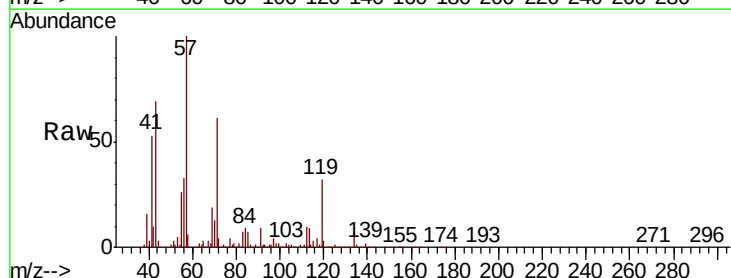
Tgt Ion: 119 Resp: 281080

Ion Ratio Lower Upper

119 100

134 25.9 20.9 31.3

91 32.6 22.6 34.0

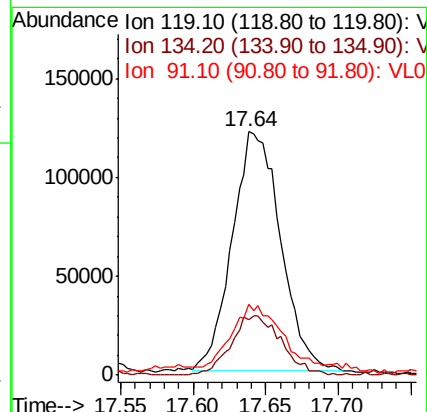
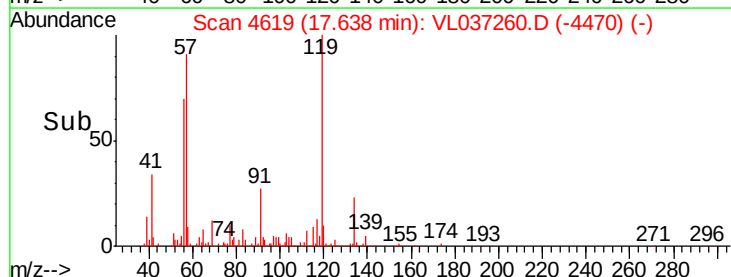


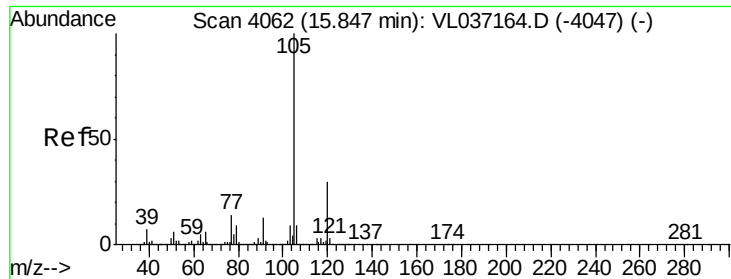
Abundance Ion 119.10 (118.80 to 119.80): VL037164.D (-4605) (-)

Ion 134.20 (133.90 to 134.90): VL037164.D (-4605) (-)

Ion 91.10 (90.80 to 91.80): VL037164.D (-4605) (-)

Time-->





#72

4-Ethyltoluene

Concen: 0.100 ppbv

RT: 15.83 min Scan# 4056

Delta R.T. -0.02 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Instrument :

MSVOA_L

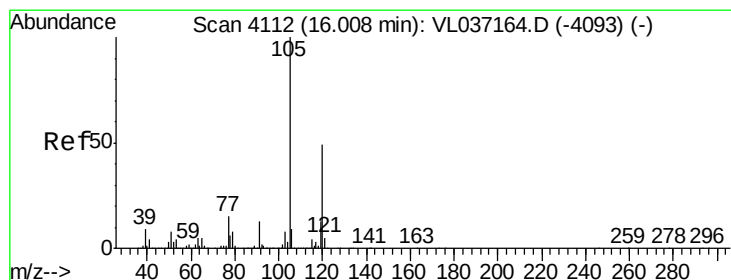
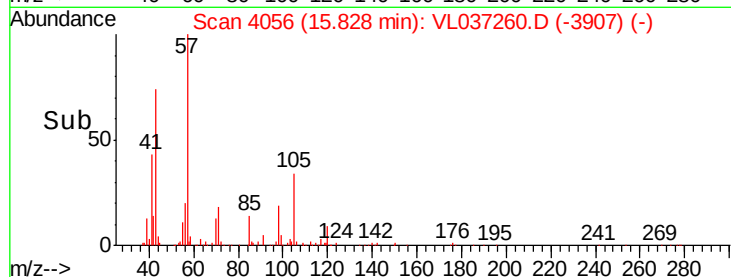
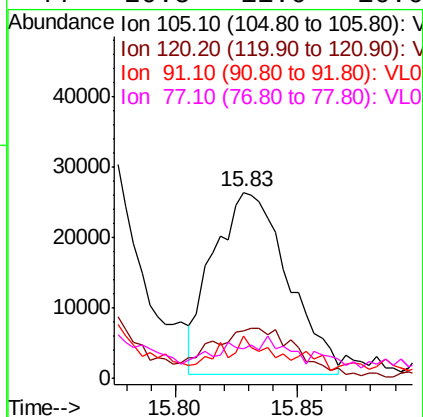
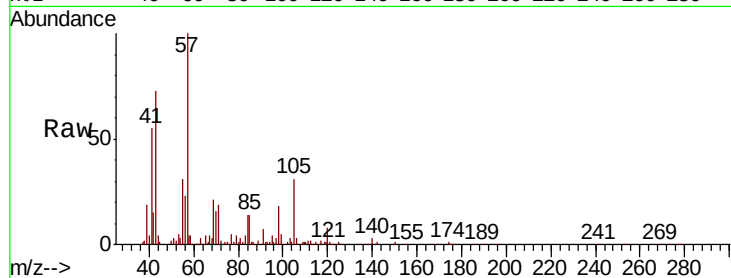
ClientSampleId :

SV-3

Tot Ion	Ratio	Lower	Upper
105	100		
120	35.6	24.7	37.1
91	16.4	10.2	15.4
77	20.5	11.0	16.6

Manual Integrations
APPROVED

MMDadoda
7/5/2021 3:38:56 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.121 ppbv m

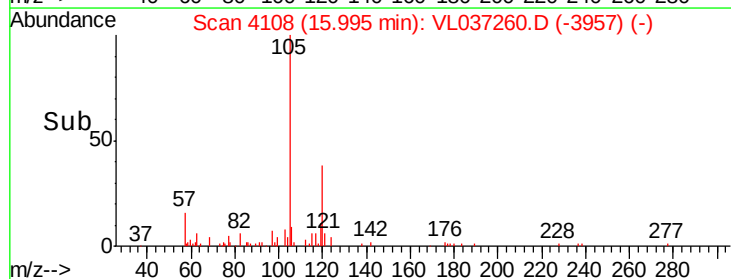
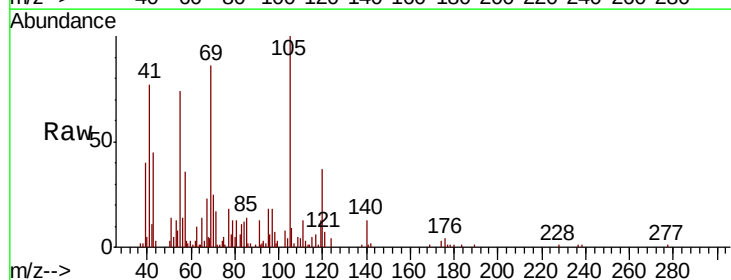
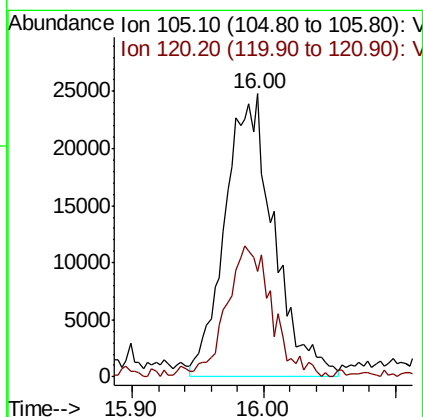
RT: 16.00 min Scan# 4108

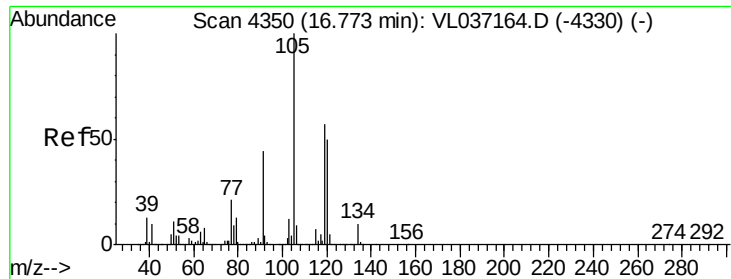
Delta R.T. -0.01 min

Lab File: VL037260.D

Acq: 29 Jun 2021 22:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.1	39.4	59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.321 ppbv
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.02 min
 Lab File: VL037260.D
 Acq: 29 Jun 2021 22:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	32.7	39.8	59.8#
91	10.1	37.0	55.4#
77	9.5	17.0	25.4#

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 3:38:56 PM

