Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062220\
Data File : VL035107.D
Acq On : 22 Jun 2020 12:14
Operator : SY/AP
Sample : L3075-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 12:51:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LSat Jun 2
QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration

Instrument : MSVOA_L
ClientSampleId : CARBON-01

Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.66	49	1210765	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.18	114	2803049	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.11	117	2724455	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.45	95	2311926	10.22	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.01	85	23370	0.143	ppbv		95
3) Chlorodifluoromethane	2.94	51	50156	0.375	ppbv		94
4) Chloromethane	3.10	50	42231	0.563	ppbv		95
9) Propene	2.97	41	58604	1.107	ppbv		87
11) Trichlorofluoromethane	3.92	101	43364	0.248	ppbv		93
13) Ethanol	3.57	45	617492	30.862	ppbv		100
15) Acetone	3.82	43	2376595	16.235	ppbv		98
17) tert-Butyl alcohol	4.27	59	155016	1.195	ppbv		96
19) Isopropyl Alcohol	3.94	45	1457350	15.333	ppbv		100
20) Methylene Chloride	4.32	84	1021712	17.245	ppbv		91
26) Hexane	5.68	57	197188	1.656	ppbv	#	46
27) Carbon Disulfide	4.53	76	16452736	133.478	ppbv	#	49
34) 2-Butanone	5.23	43	86243	0.536	ppbv		97
36) Benzene	6.89	78	79193	0.365	ppbv	#	90
41) Tetrahydrofuran	6.06	42	22806m	0.277	ppbv		
53) Toluene	9.82	91	97028m	0.419	ppbv		
58) Ethyl Benzene	12.73	91	125194	0.409	ppbv		90
59) m/p-Xylene	12.99	91	726749	2.679	ppbv		99
60) o-Xylene	13.72	91	706615	2.616	ppbv		97
61) Styrene	13.56	104	152104	0.895	ppbv		96
72) 4-Ethyltoluene	16.03	105	37500m	0.125	ppbv		
73) 1,3,5-Trimethylbenzene	16.03	105	37736m	0.133	ppbv		
74) 1,2,4-Trimethylbenzene	16.80	105	106819	0.337	ppbv	#	64
79) Naphthalene	22.26	128	31900m	0.115	ppbv		
80) Naphthalene,2-methyl-	25.02	142	10864	0.102	ppbv	#	80

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

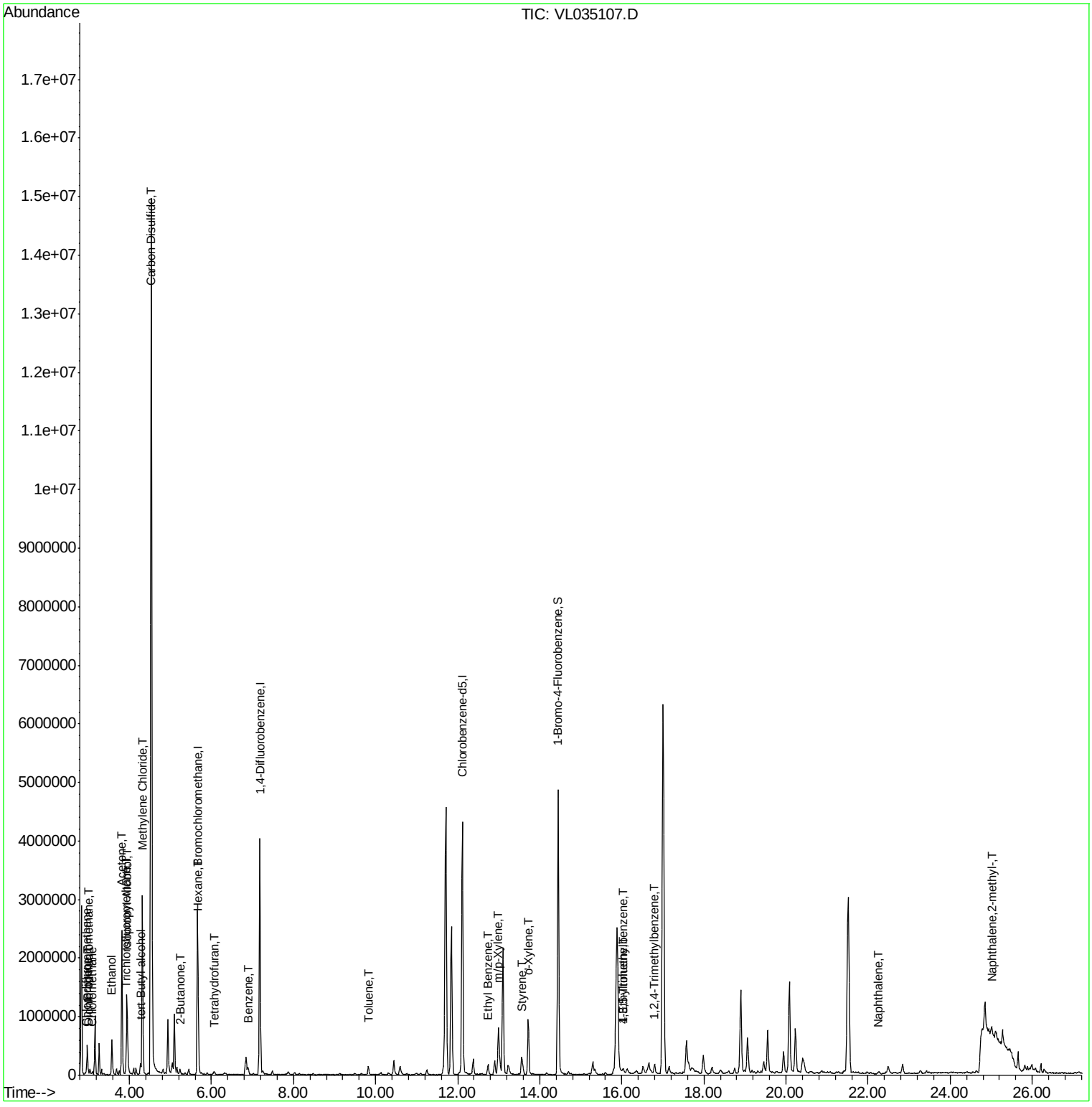
Quantitation Report (QT Reviewed)

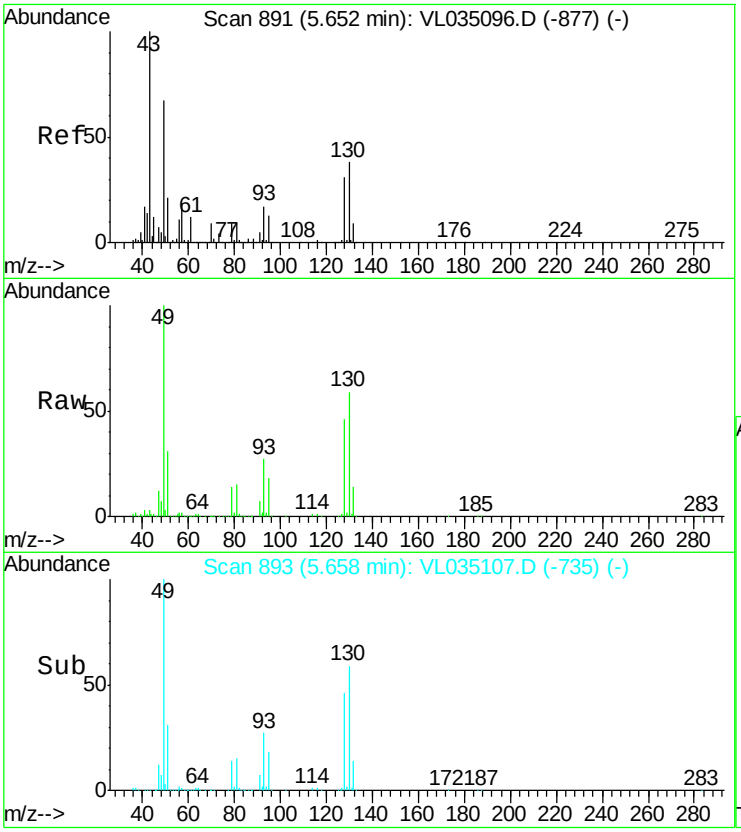
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062220\
Data File : VL035107.D
Acq On : 22 Jun 2020 12:14
Operator : SY/AP
Sample : L3075-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 12:51:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LSat Jun
QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

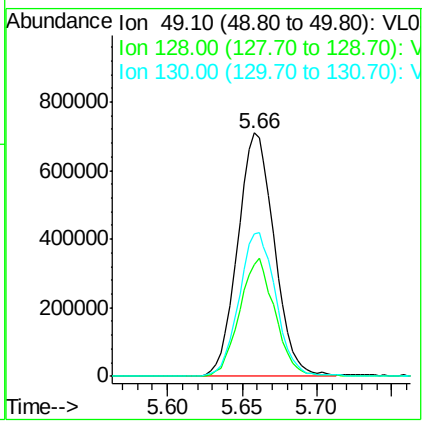




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

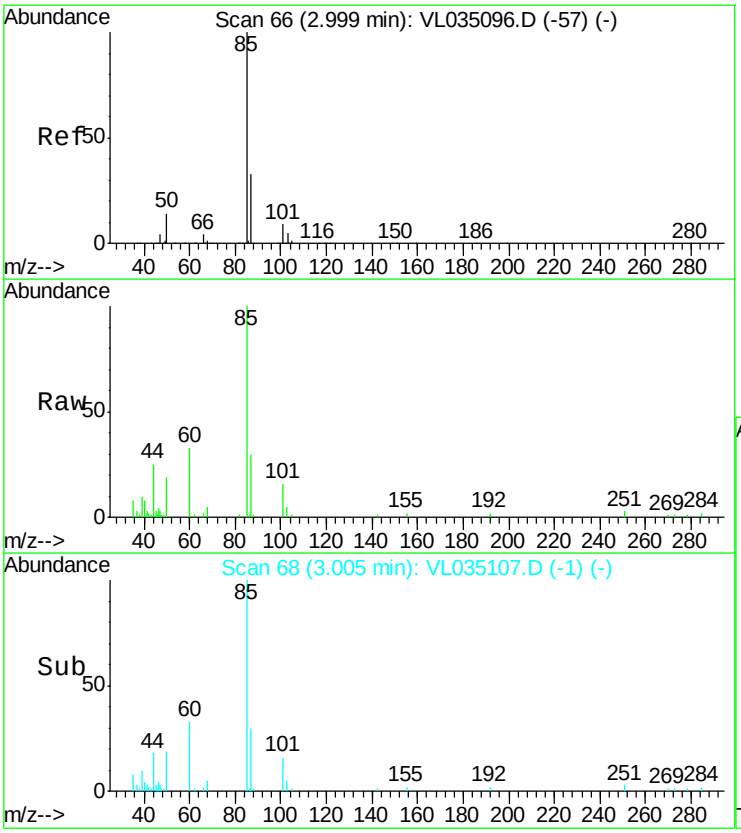
Tgt Ion: 49 Resp: 1210765

Ion	Ratio	Lower	Upper
49	100		
128	47.0	22.9	68.5
130	59.7	29.0	87.0



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

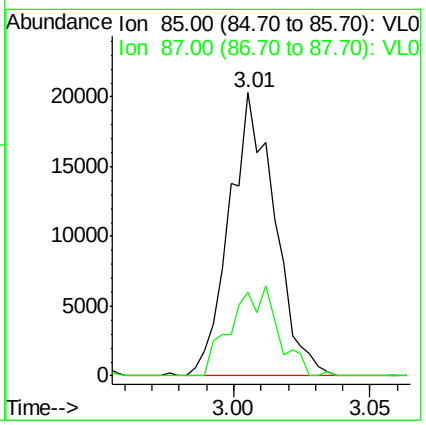
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

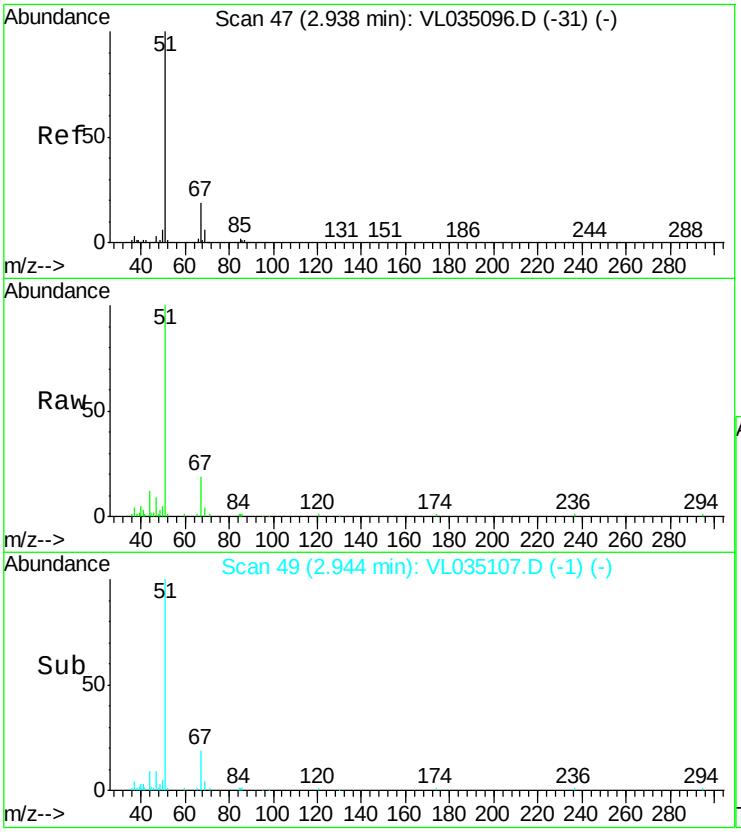


#2
Dichlorodifluoromethane
Concen: 0.143 ppbv
RT: 3.01 min Scan# 68
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 85 Resp: 23370

Ion	Ratio	Lower	Upper
85	100		
87	29.7	26.1	39.1

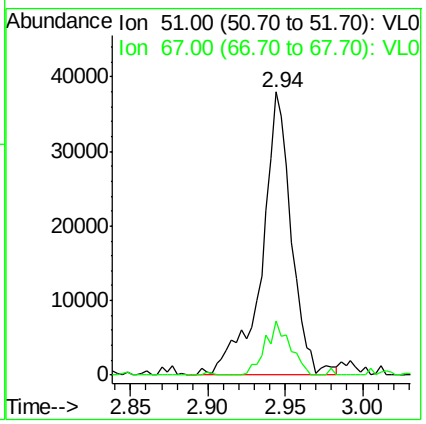




#3
Chlorodifluoromethane
Concen: 0.375 ppbv
RT: 2.94 min Scan# 49
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

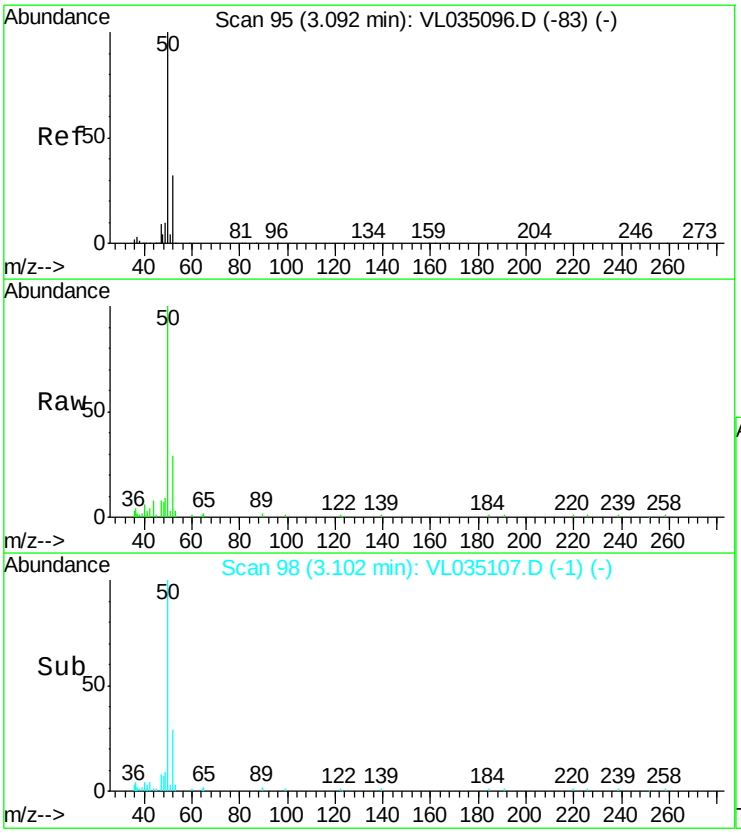
Tgt Ion: 51 Resp: 50156

Ion	Ratio	Lower	Upper
51	100		
67	16.5	15.2	22.8



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

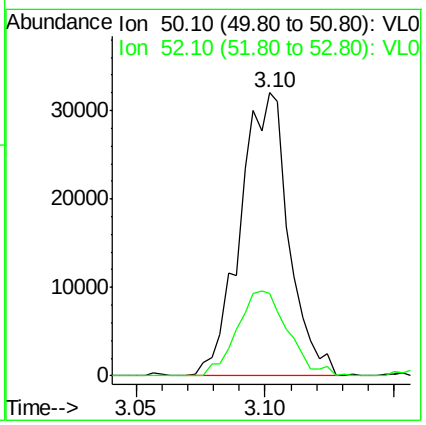
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

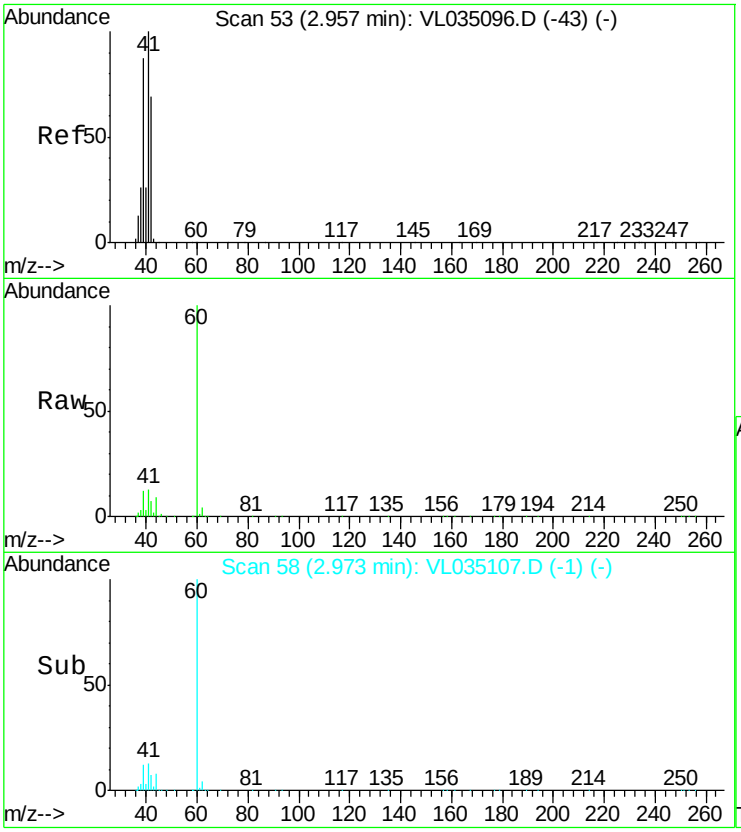


#4
Chloromethane
Concen: 0.563 ppbv
RT: 3.10 min Scan# 98
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 50 Resp: 42231

Ion	Ratio	Lower	Upper
50	100		
52	29.0	25.4	38.0

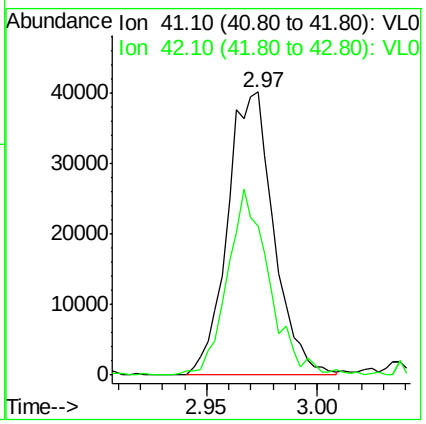




#9
Propene
Concen: 1.107 ppbv
RT: 2.97 min Scan# 58
Delta R.T. 0.02 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

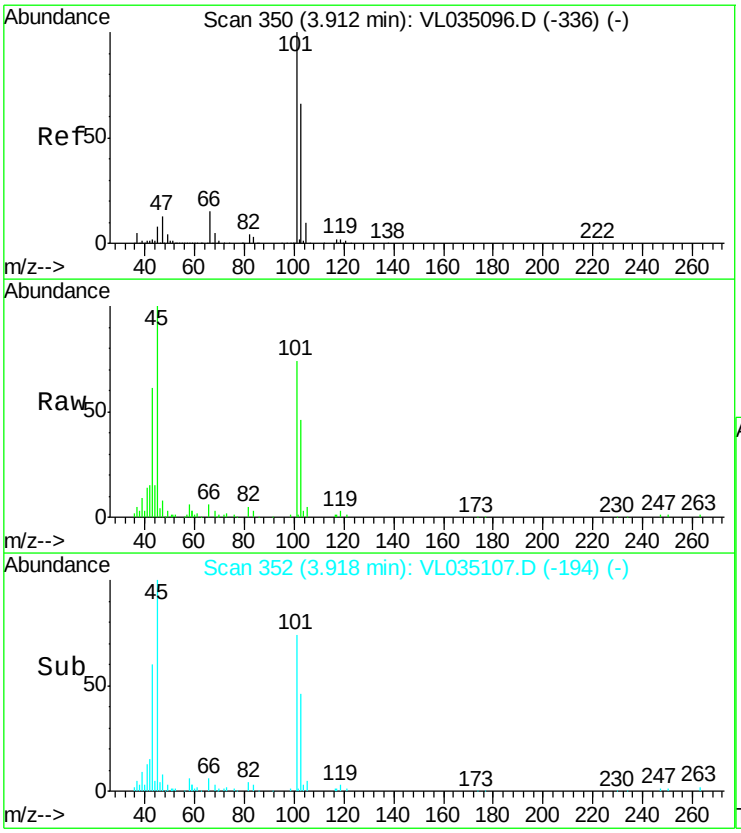
Tgt Ion: 41 Resp: 58604

Ion	Ratio	Lower	Upper
41	100		
42	59.2	55.8	83.6



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

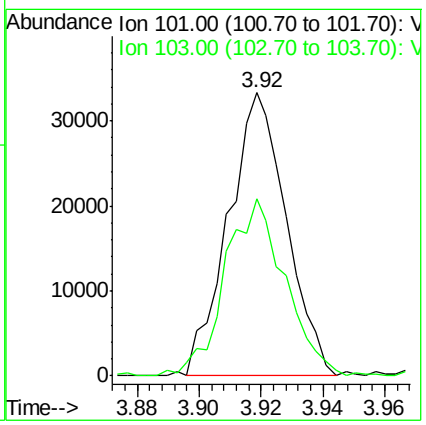
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

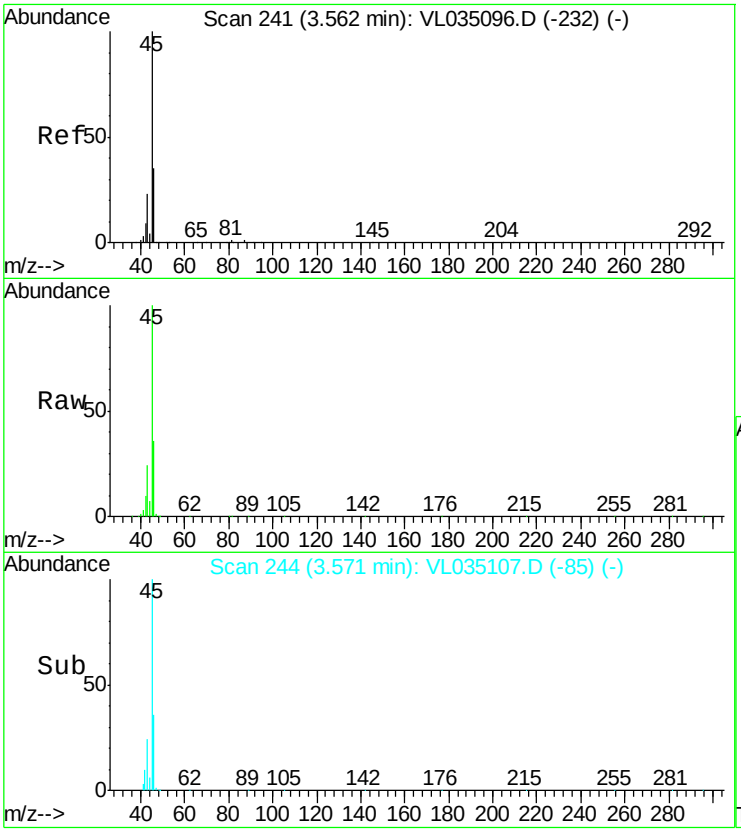


#11
Trichlorofluoromethane
Concen: 0.248 ppbv
RT: 3.92 min Scan# 352
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion:101 Resp: 43364

Ion	Ratio	Lower	Upper
101	100		
103	60.3	52.6	79.0

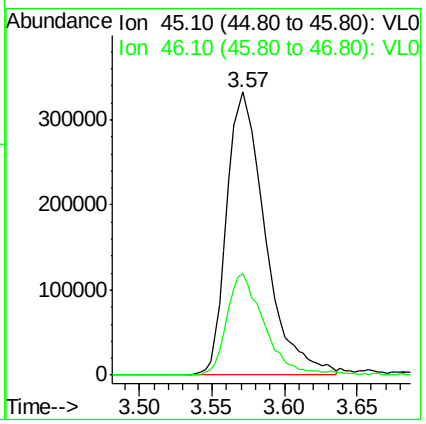




#13
Ethanol
Concen: 30.862 ppbv
RT: 3.57 min Scan# 244
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

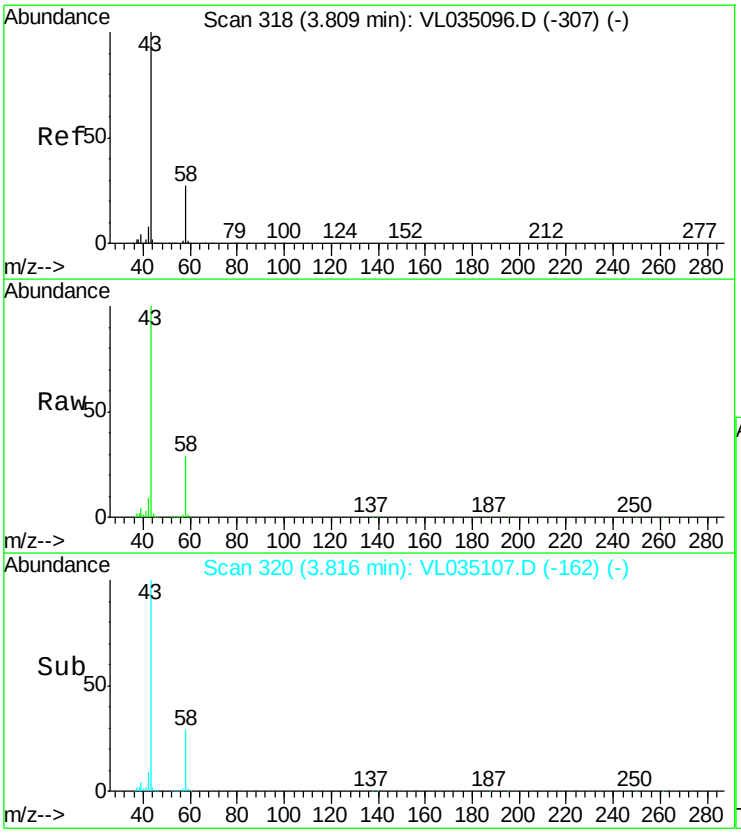
Tgt Ion: 45 Resp: 617492

Ion	Ratio	Lower	Upper
45	100		
46	35.6	14.2	57.0



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

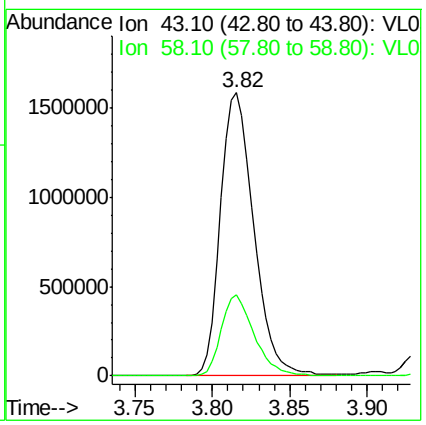
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

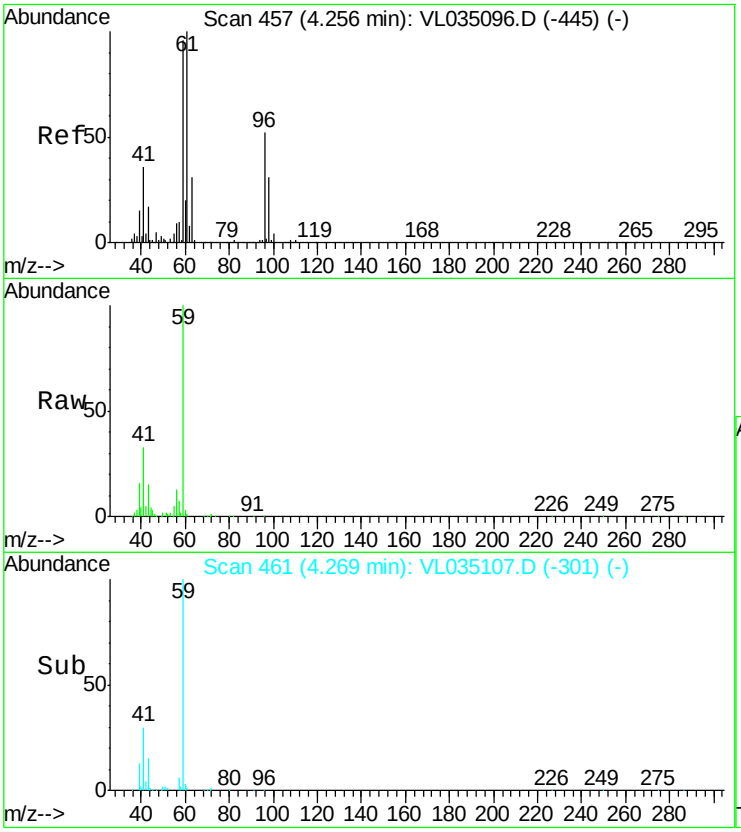


#15
Acetone
Concen: 16.235 ppbv
RT: 3.82 min Scan# 320
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 43 Resp: 2376595

Ion	Ratio	Lower	Upper
43	100		
58	28.3	21.8	32.6

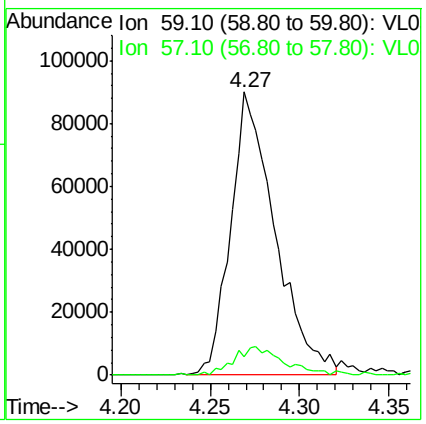




#17
tert-Butyl alcohol
Concen: 1.195 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

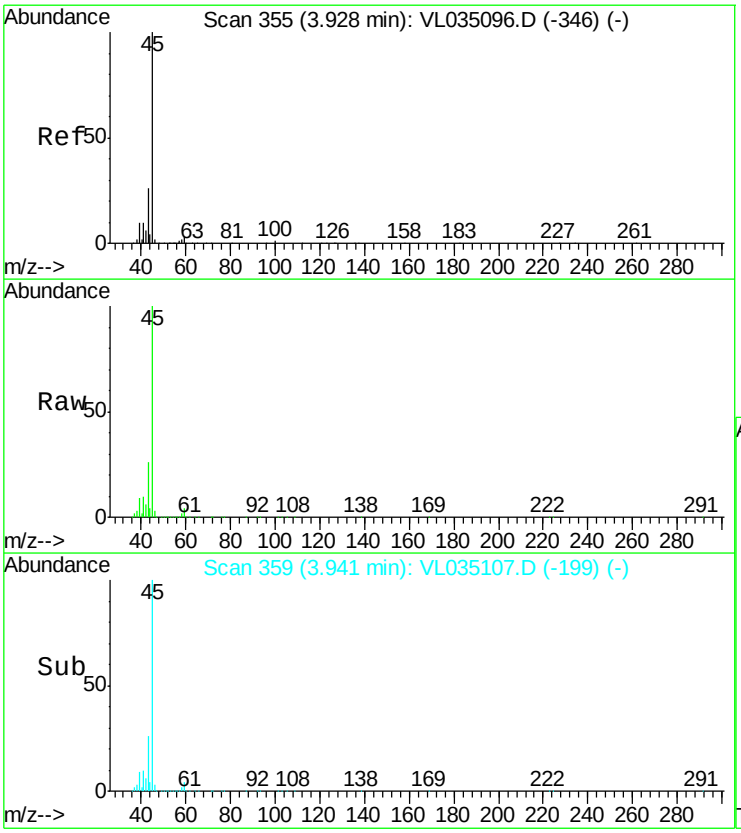
Tgt Ion: 59 Resp: 155016

Ion	Ratio	Lower	Upper
59	100		
57	12.1	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

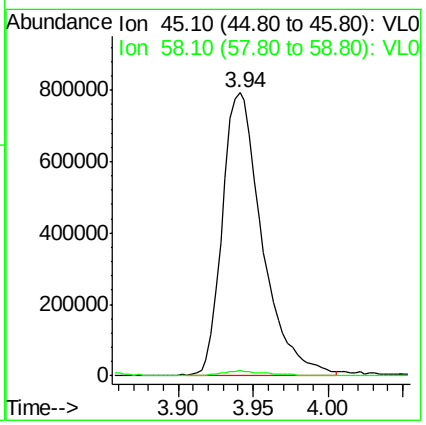
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

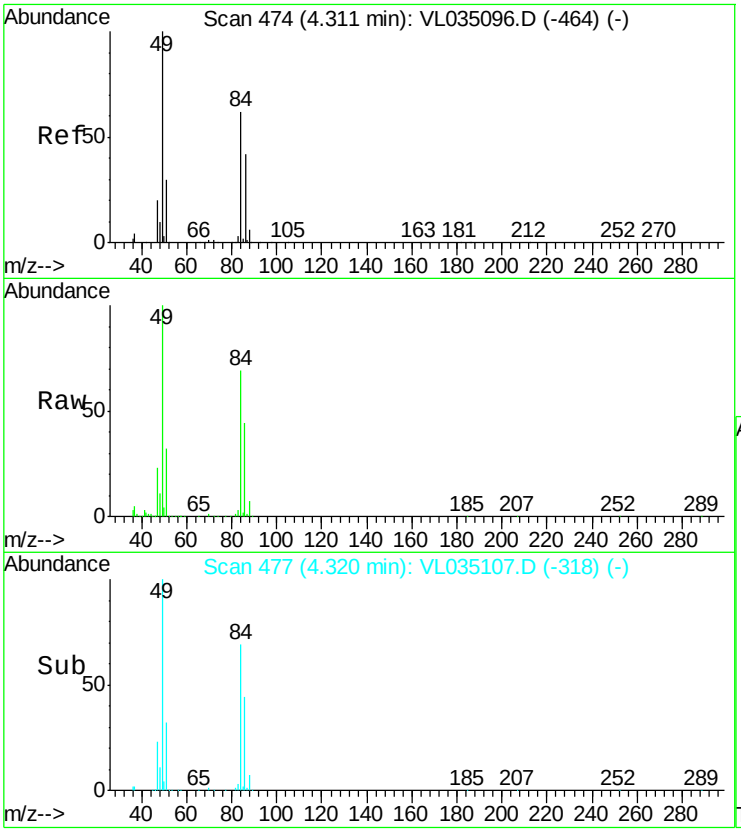


#19
Isopropyl Alcohol
Concen: 15.333 ppbv
RT: 3.94 min Scan# 359
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 45 Resp: 1457350

Ion	Ratio	Lower	Upper
45	100		
58	2.3	1.8	2.8

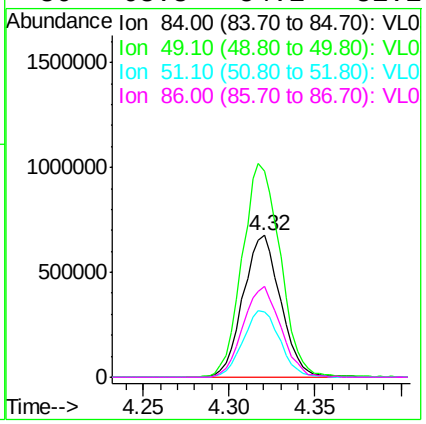




#20
Methylene Chloride
Concen: 17.245 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

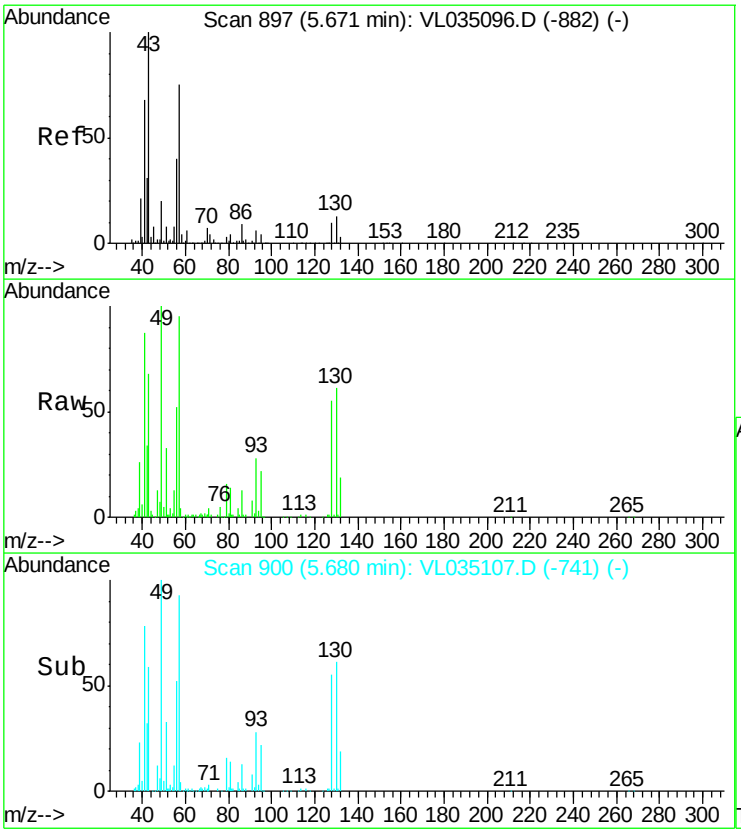
Tgt Ion: 84 Resp: 1021712

Ion	Ratio	Lower	Upper
84	100		
49	145.5	128.8	193.2
51	46.1	38.7	58.1
86	63.8	54.1	81.1



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

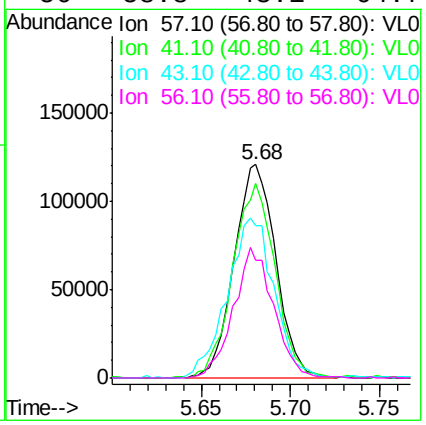
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

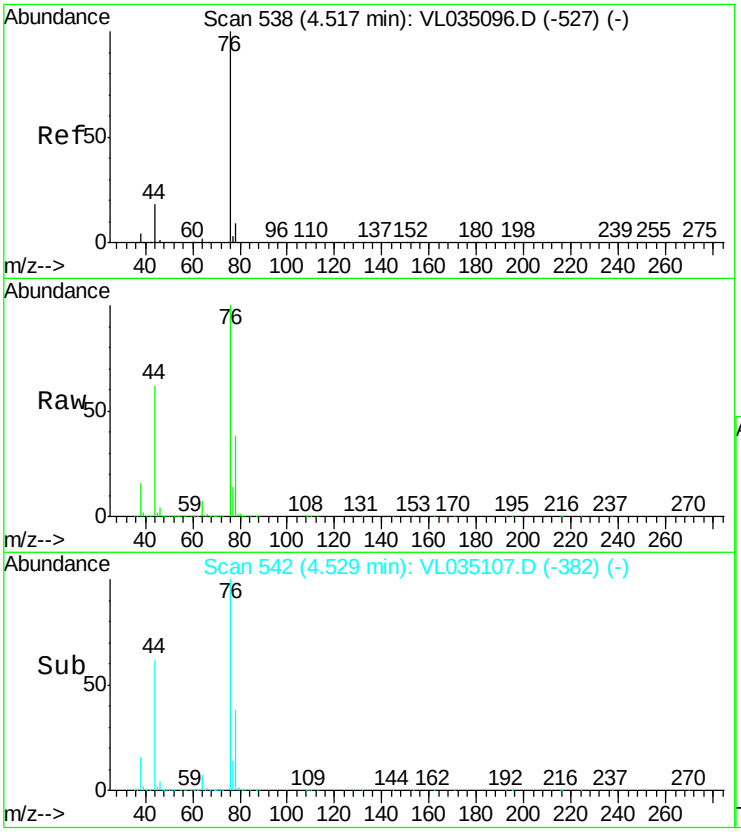


#26
Hexane
Concen: 1.656 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 57 Resp: 197188

Ion	Ratio	Lower	Upper
57	100		
41	92.9	72.9	109.3
43	85.8	181.3	271.9#
56	58.8	43.1	64.7

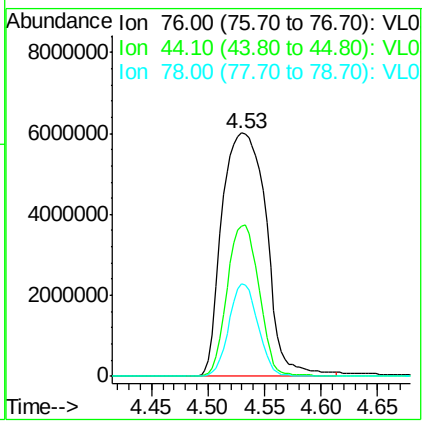




#27
Carbon Disulfide
Concen: 133.478 ppbv
RT: 4.53 min Scan# 542
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

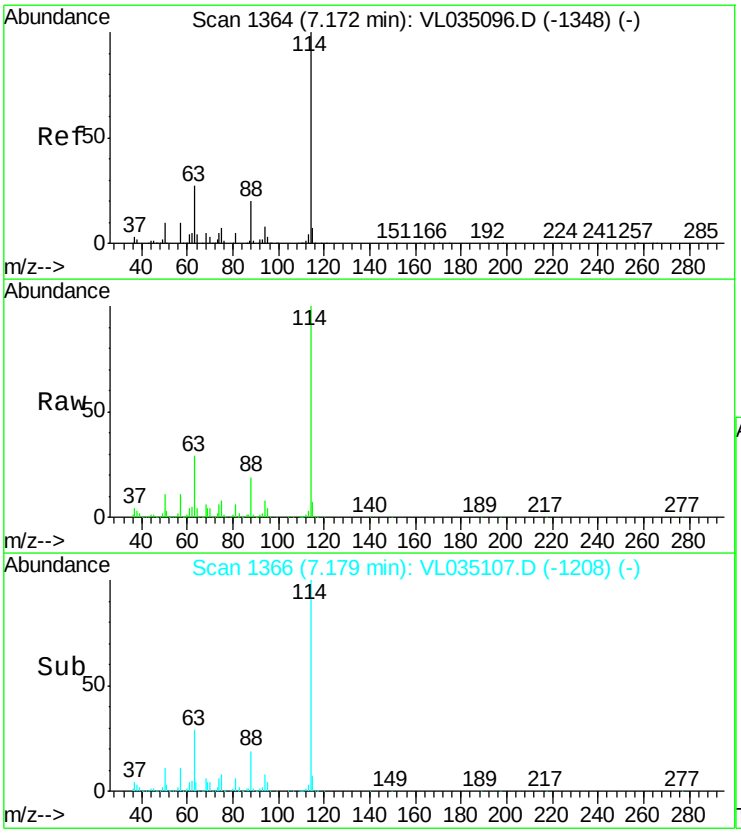
Tgt Ion: 76 Resp:16452736

Ion	Ratio	Lower	Upper
76	100		
44	45.1	15.8	23.8#
78	25.1	7.6	11.4#



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

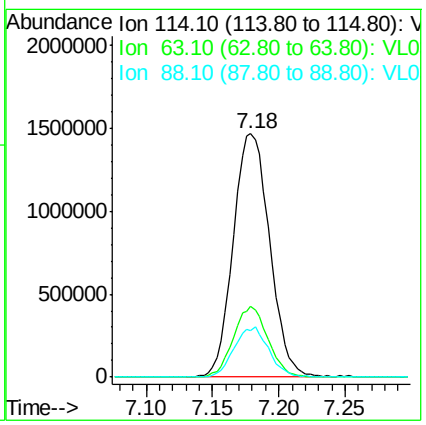
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

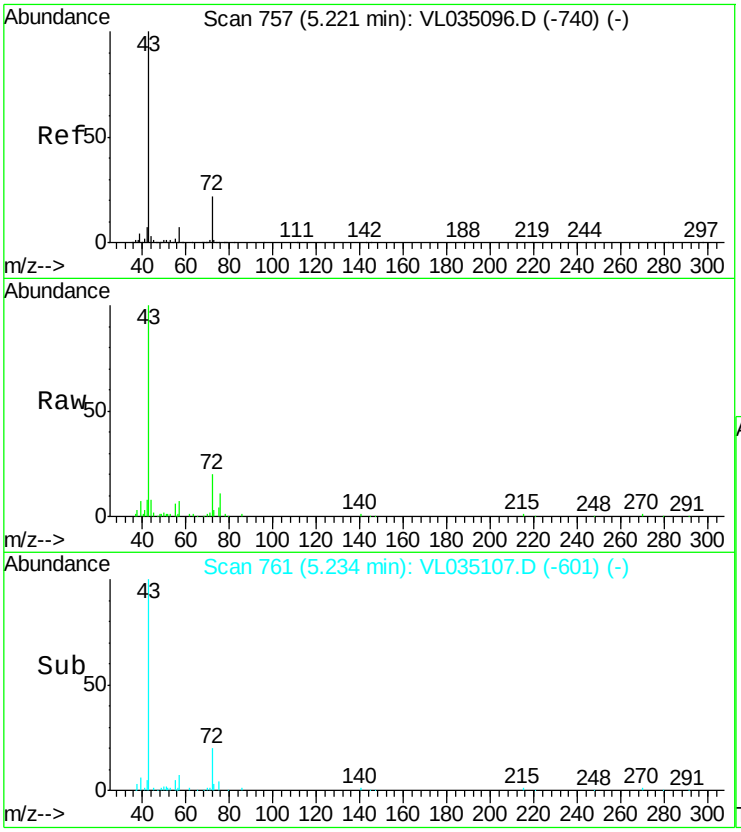


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion:114 Resp: 2803049

Ion	Ratio	Lower	Upper
114	100		
63	27.6	21.9	32.9
88	19.6	15.6	23.4

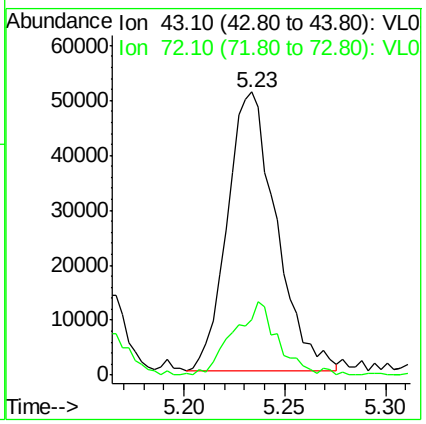




#34
2-Butanone
Concen: 0.536 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

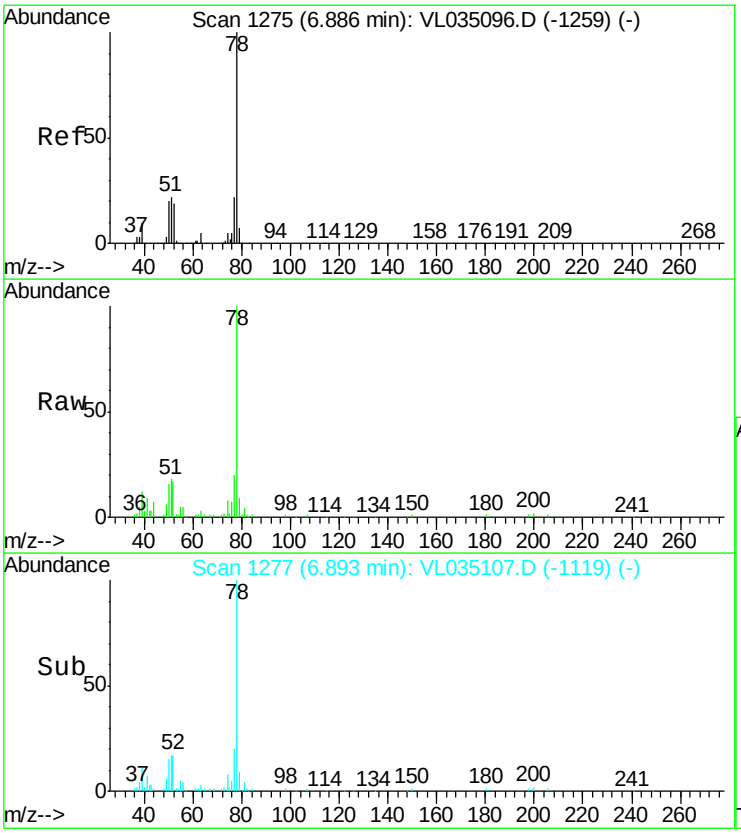
Tgt Ion: 43 Resp: 86243

Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.3	27.5



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

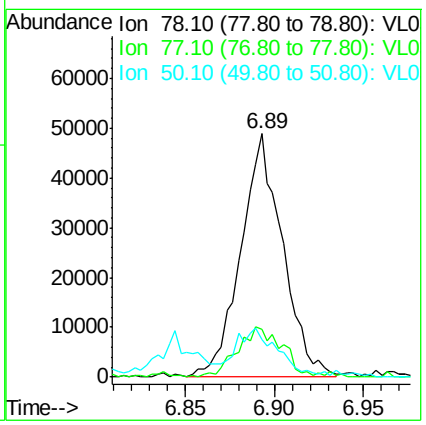
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

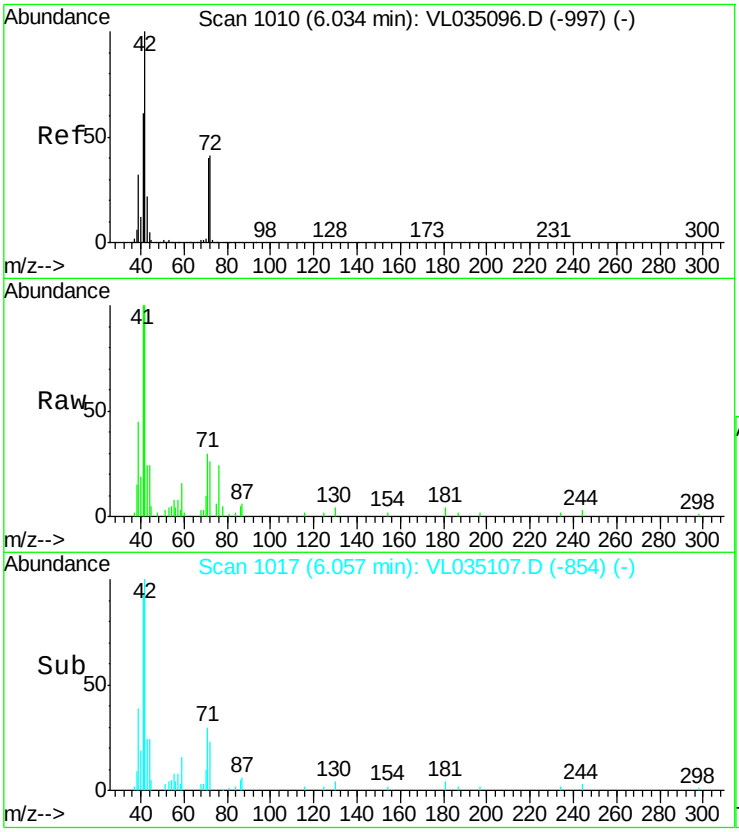


#36
Benzene
Concen: 0.365 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 78 Resp: 79193

Ion	Ratio	Lower	Upper
78	100		
77	19.8	17.8	26.6
50	13.0	16.2	24.2#

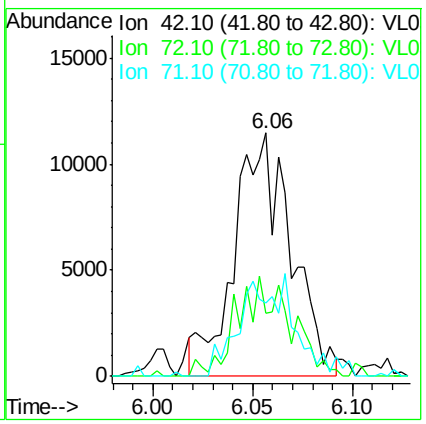




#41
Tetrahydrofuran
Concen: 0.277 ppbv m
RT: 6.06 min Scan# 1017
Delta R.T. 0.02 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

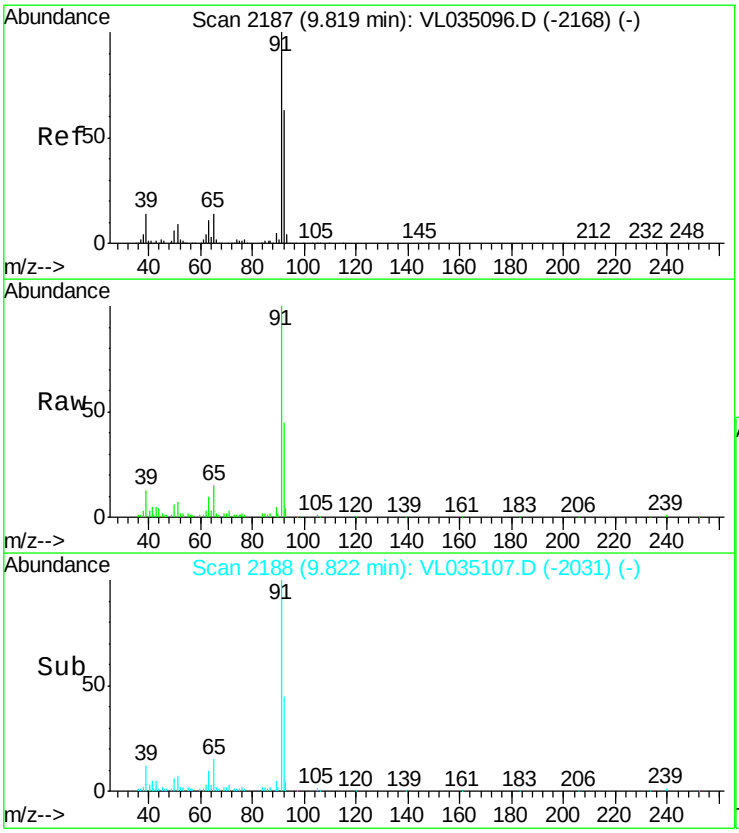
Tgt Ion: 42 Resp: 22806

Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.4	50.2#
71	0.0	31.8	47.6#



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

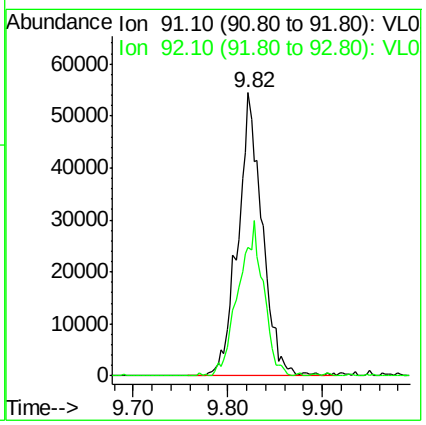
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

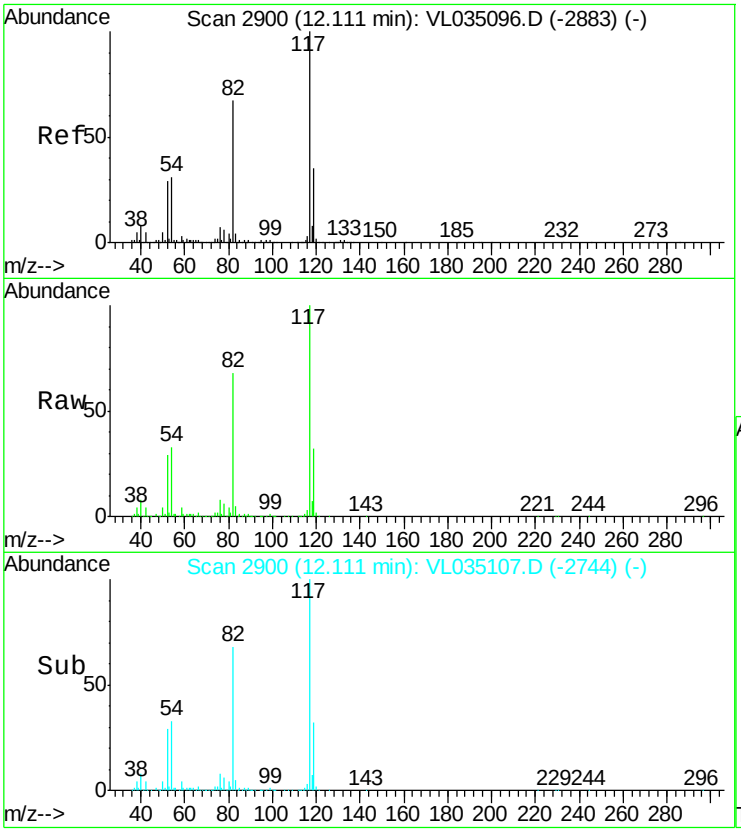


#53
Toluene
Concen: 0.419 ppbv m
RT: 9.82 min Scan# 2188
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 91 Resp: 97028

Ion	Ratio	Lower	Upper
91	100		
92	57.0	49.0	73.6

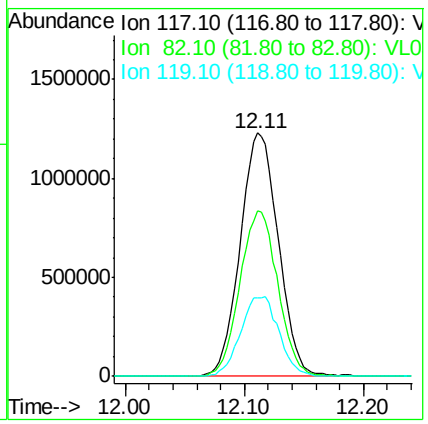




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

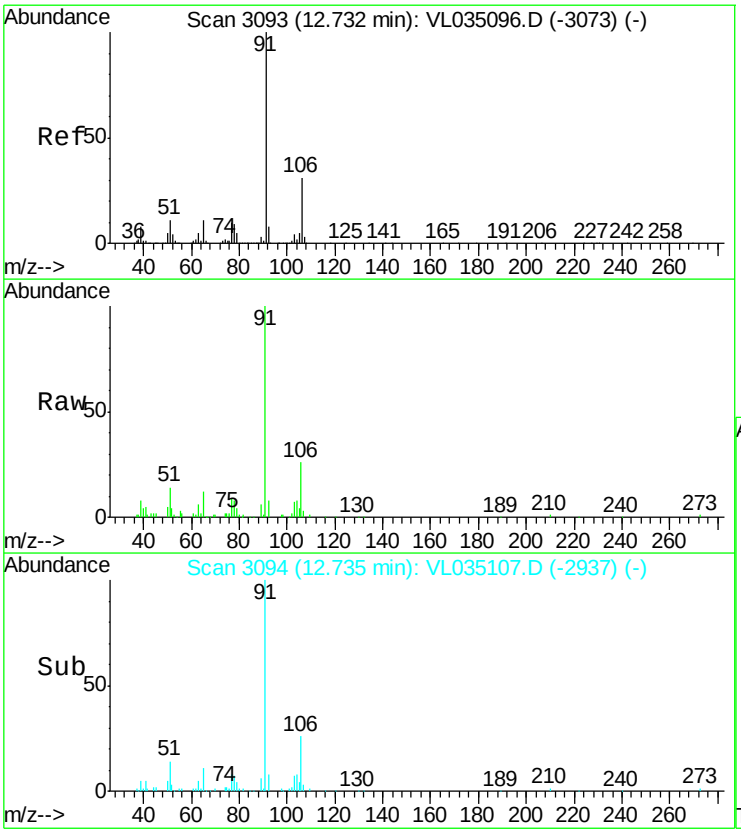
Tgt Ion:117 Resp: 2724455

Ion	Ratio	Lower	Upper
117	100		
82	68.1	50.4	75.6
119	33.2	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

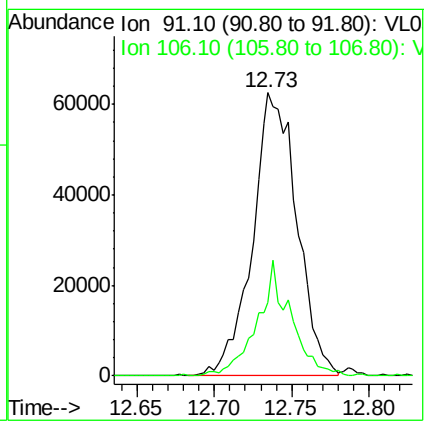
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

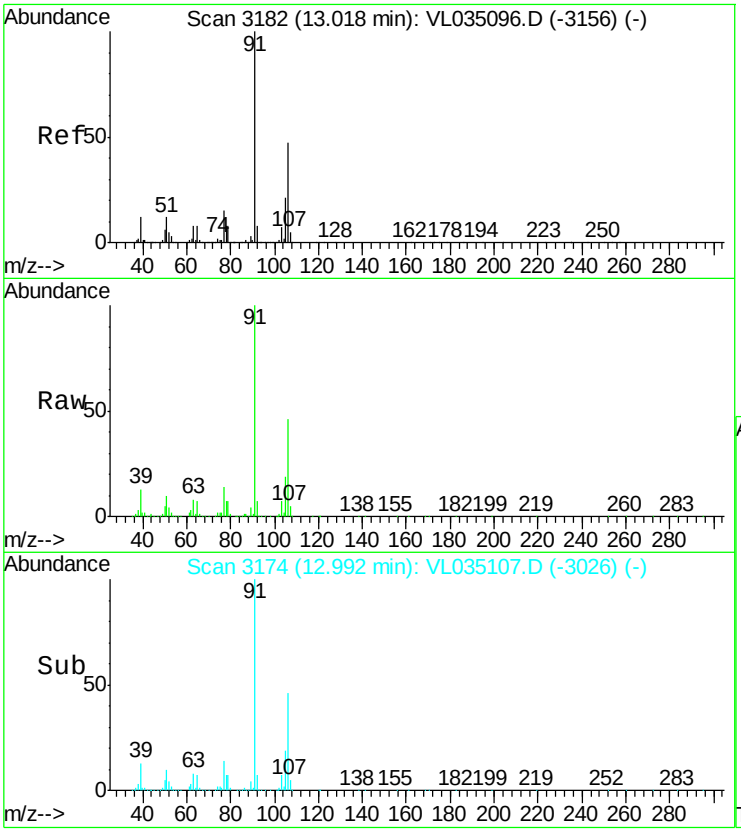


#58
Ethyl Benzene
Concen: 0.409 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 91 Resp: 125194

Ion	Ratio	Lower	Upper
91	100		
106	25.9	25.0	37.6





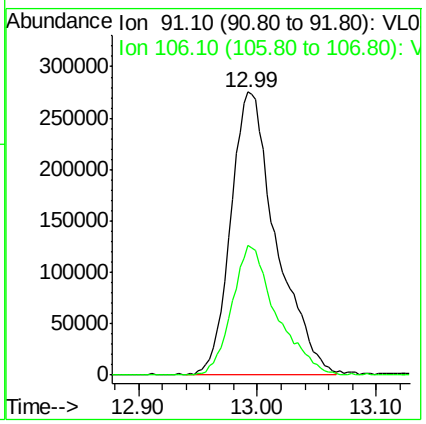
#59
m/p-Xylene
Concen: 2.679 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

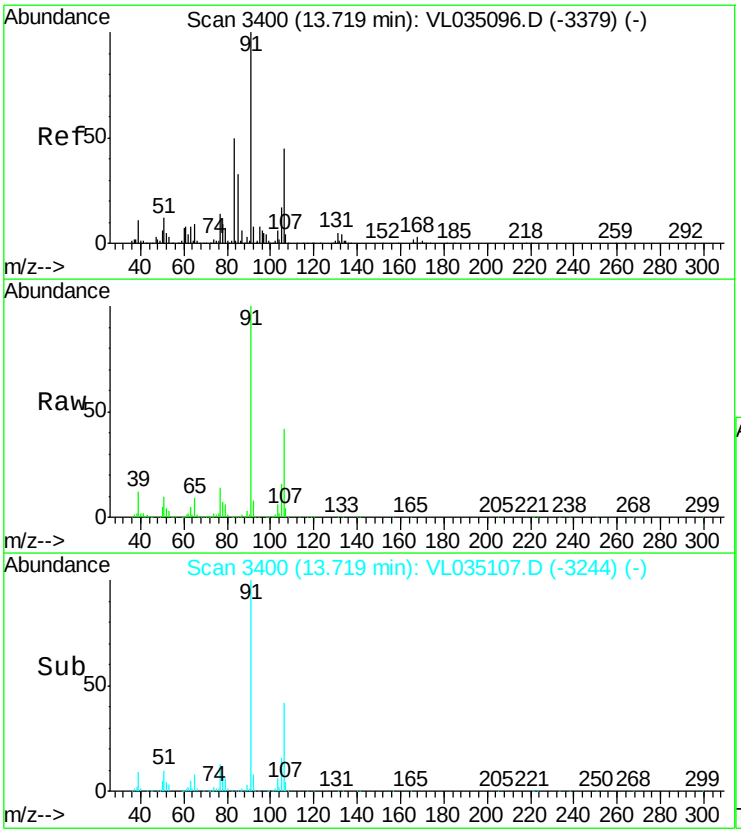
Tgt Ion: 91 Resp: 726749

Ion	Ratio	Lower	Upper
91	100		
106	45.1	36.5	54.7

Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

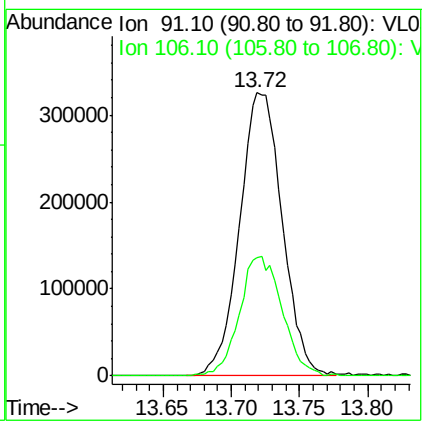


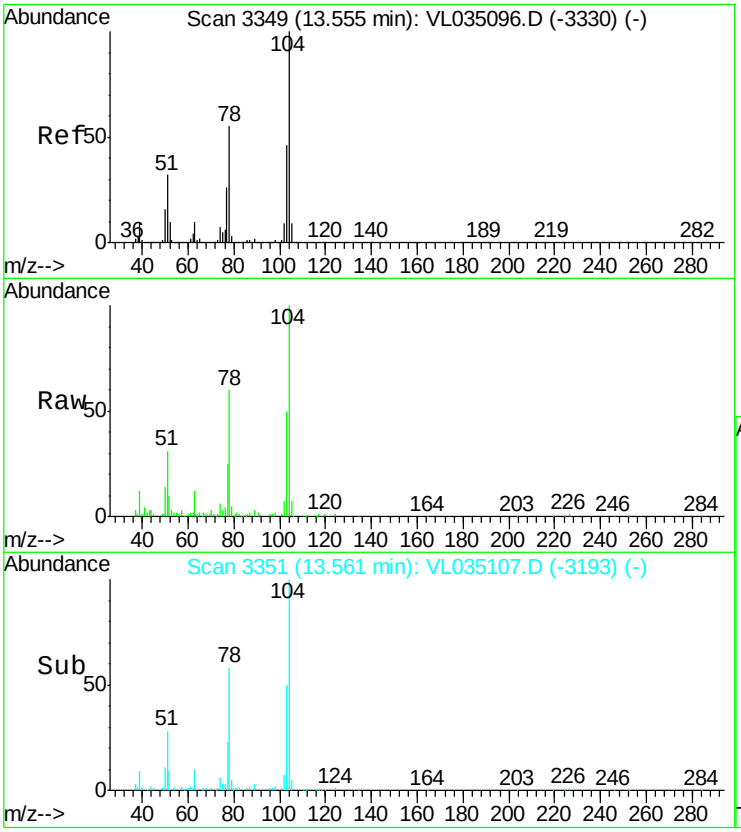


#60
o-Xylene
Concen: 2.616 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 91 Resp: 706615

Ion	Ratio	Lower	Upper
91	100		
106	42.3	22.1	66.5

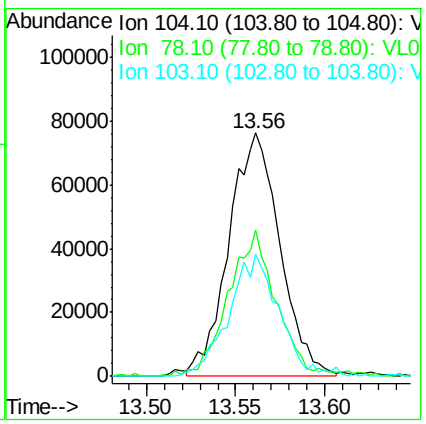




#61
Stvrene
Concen: 0.895 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

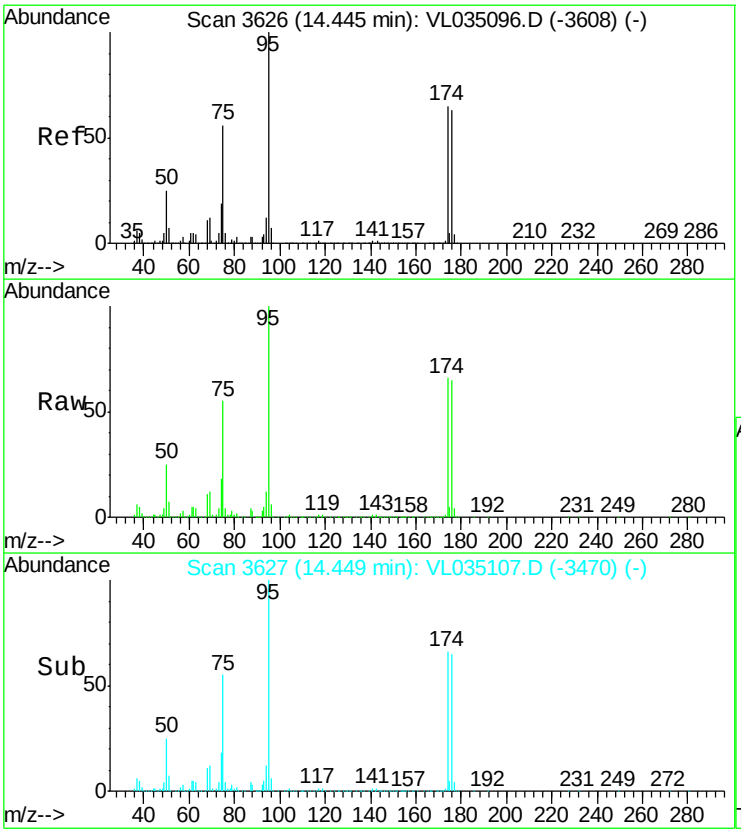
Tgt Ion:104 Resp: 152104

Ion	Ratio	Lower	Upper
104	100		
78	57.7	43.4	65.0
103	49.5	38.3	57.5



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

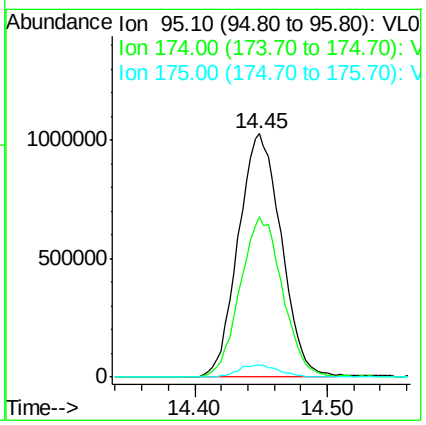
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

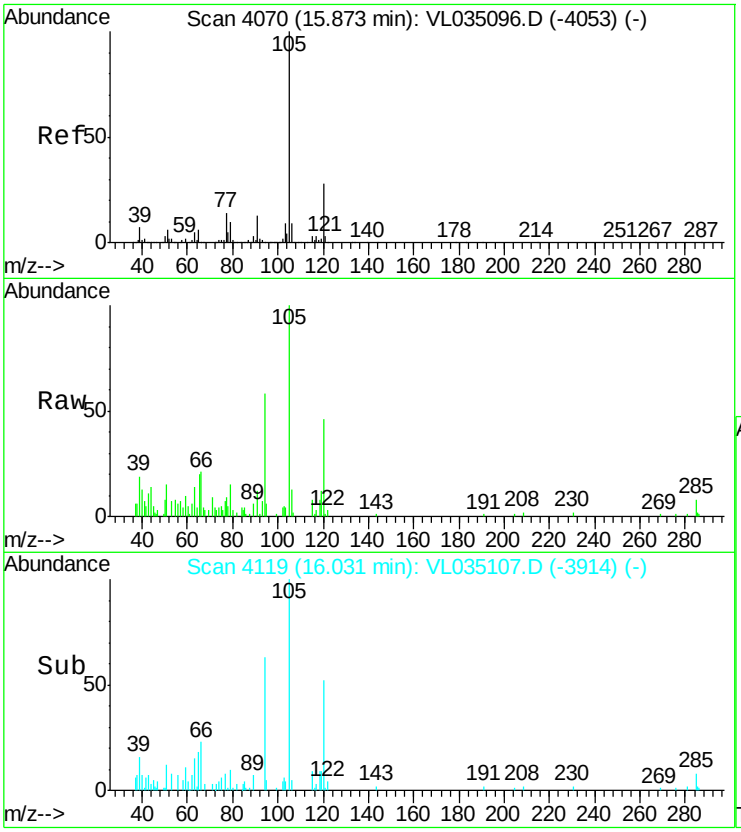


#68
1-Bromo-4-Fluorobenzene
Concen: 10.215 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion: 95 Resp: 2311926

Ion	Ratio	Lower	Upper
95	100		
174	65.5	52.2	78.2
175	4.8	4.0	6.0

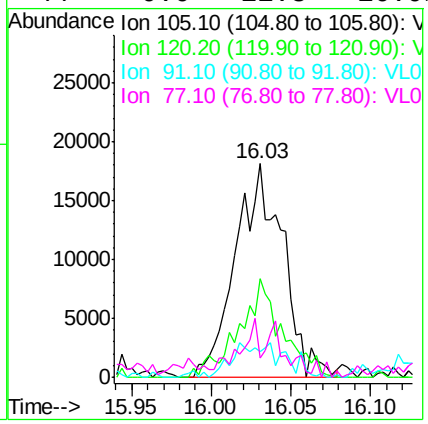




#72
4-Ethyltoluene
Concen: 0.125 ppbv m
RT: 16.03 min Scan# 4119
Delta R.T. 0.16 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

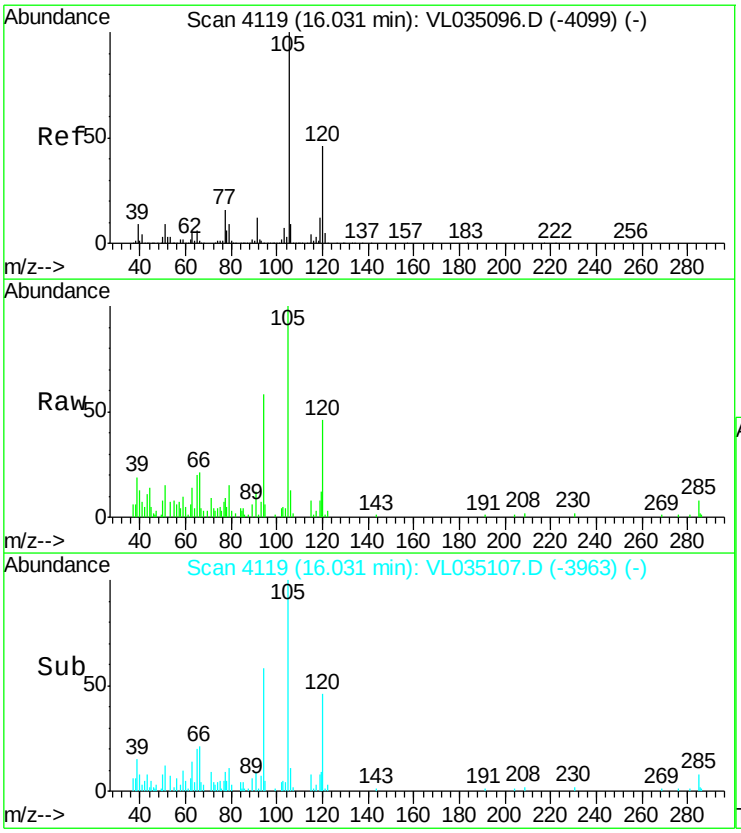
Tgt Ion:105 Resp: 37500

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.6	16.0#
77	0.0	11.3	16.9#



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

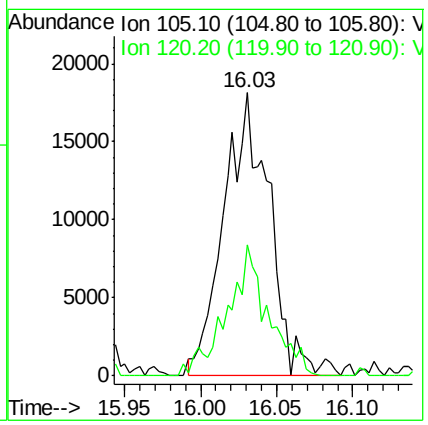
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

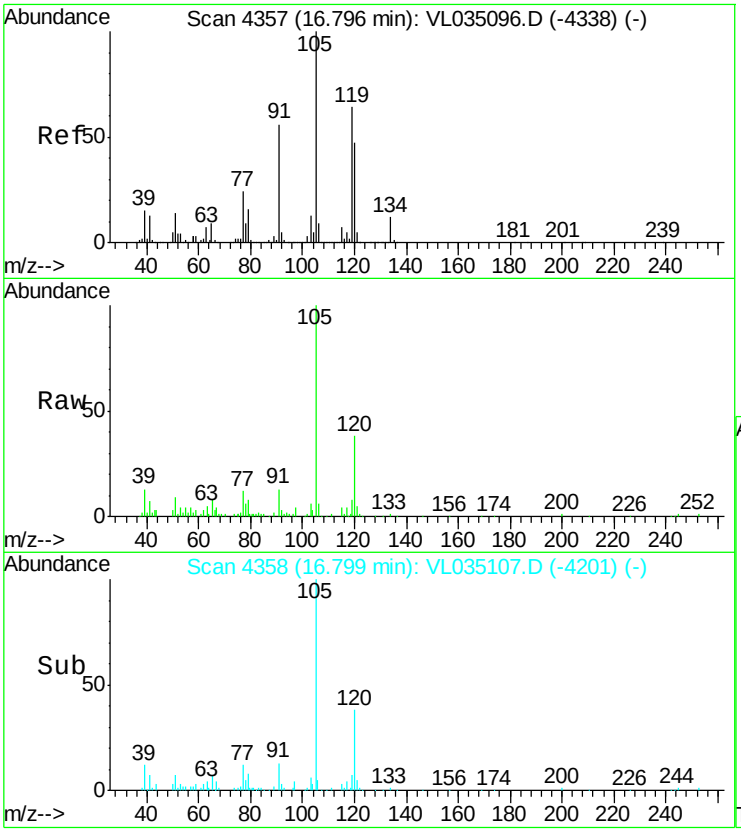


#73
1,3,5-Trimethylbenzene
Concen: 0.133 ppbv m
RT: 16.03 min Scan# 4119
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion:105 Resp: 37736

Ion	Ratio	Lower	Upper
105	100		
120	46.4	37.0	55.6

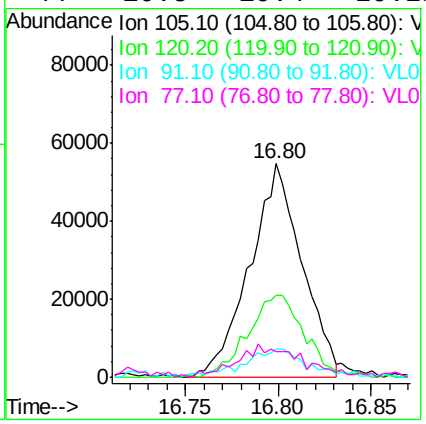




#74
1,2,4-Trimethylbenzene
Concen: 0.337 ppbv
RT: 16.80 min Scan# 4358
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

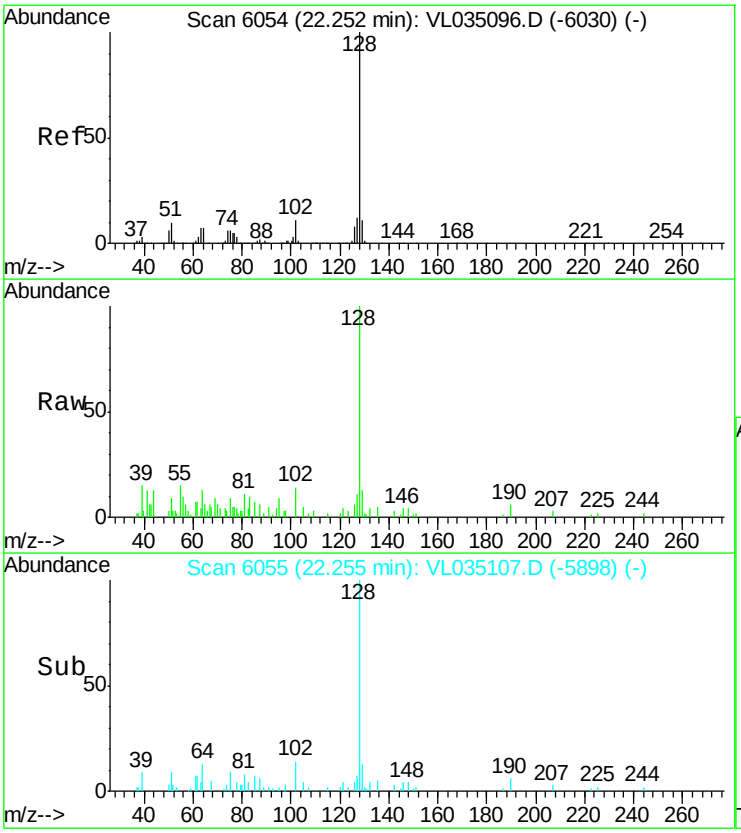
Tgt Ion:105 Resp: 106819

Ion	Ratio	Lower	Upper
105	100		
120	37.0	37.9	56.9#
91	15.2	46.0	69.0#
77	10.5	19.4	29.2#



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

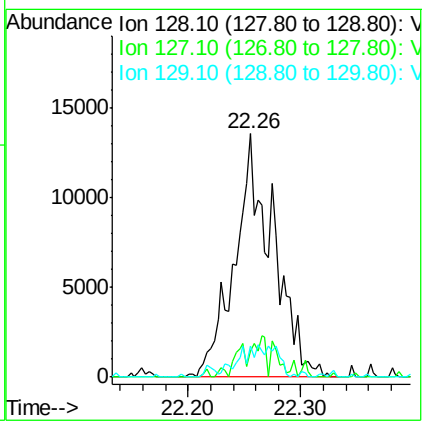
Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM

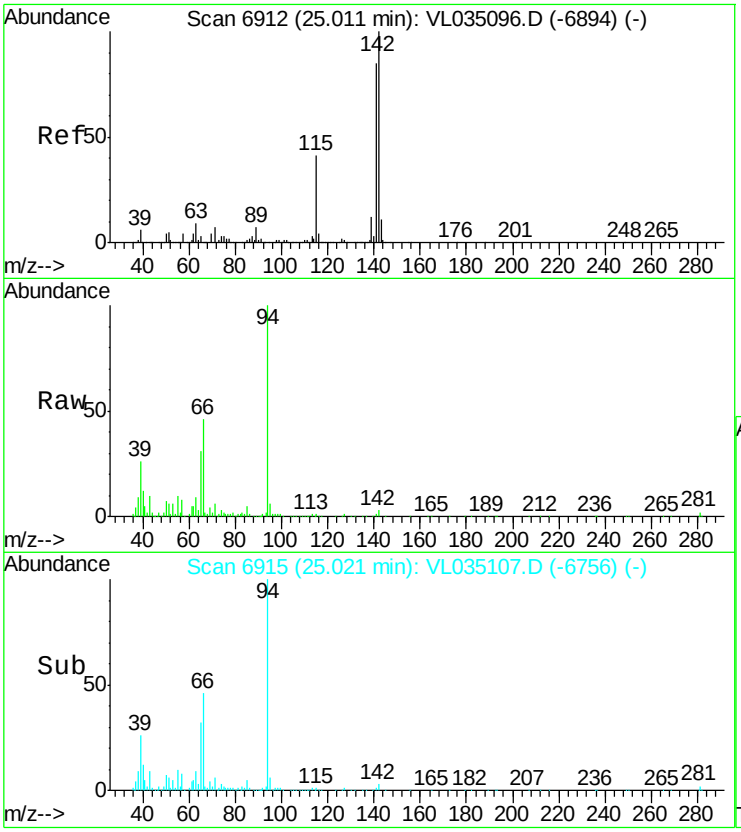


#79
Naphthalene
Concen: 0.115 ppbv m
RT: 22.26 min Scan# 6055
Delta R.T. 0.00 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion:128 Resp: 31900

Ion	Ratio	Lower	Upper
128	100		
127	10.8	9.9	14.9
129	12.7	9.0	13.4

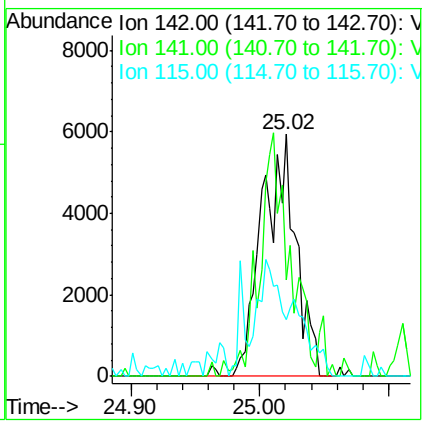




#80
Naphthalene,2-methyl-
Concen: 0.102 ppbv
RT: 25.02 min Scan# 6915
Delta R.T. 0.01 min
Lab File: VL035107.D
Acq: 22 Jun 2020 12:14

Tgt Ion:142 Resp: 10864

Ion	Ratio	Lower	Upper
142	100		
141	95.1	67.5	101.3
115	65.8	33.8	50.8#



Instrument :
MSVOA_L
ClientSampleId :
CARBON-01

Manual Integrations APPROVED
MMDadoda
6/23/2020 10:59:10 AM