

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035364.D
 Acq On : 7 Aug 2020 00:28
 Operator : SY/AP
 Sample : L3554-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:31:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1388453	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3448218	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3282628	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2733865	9.99	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

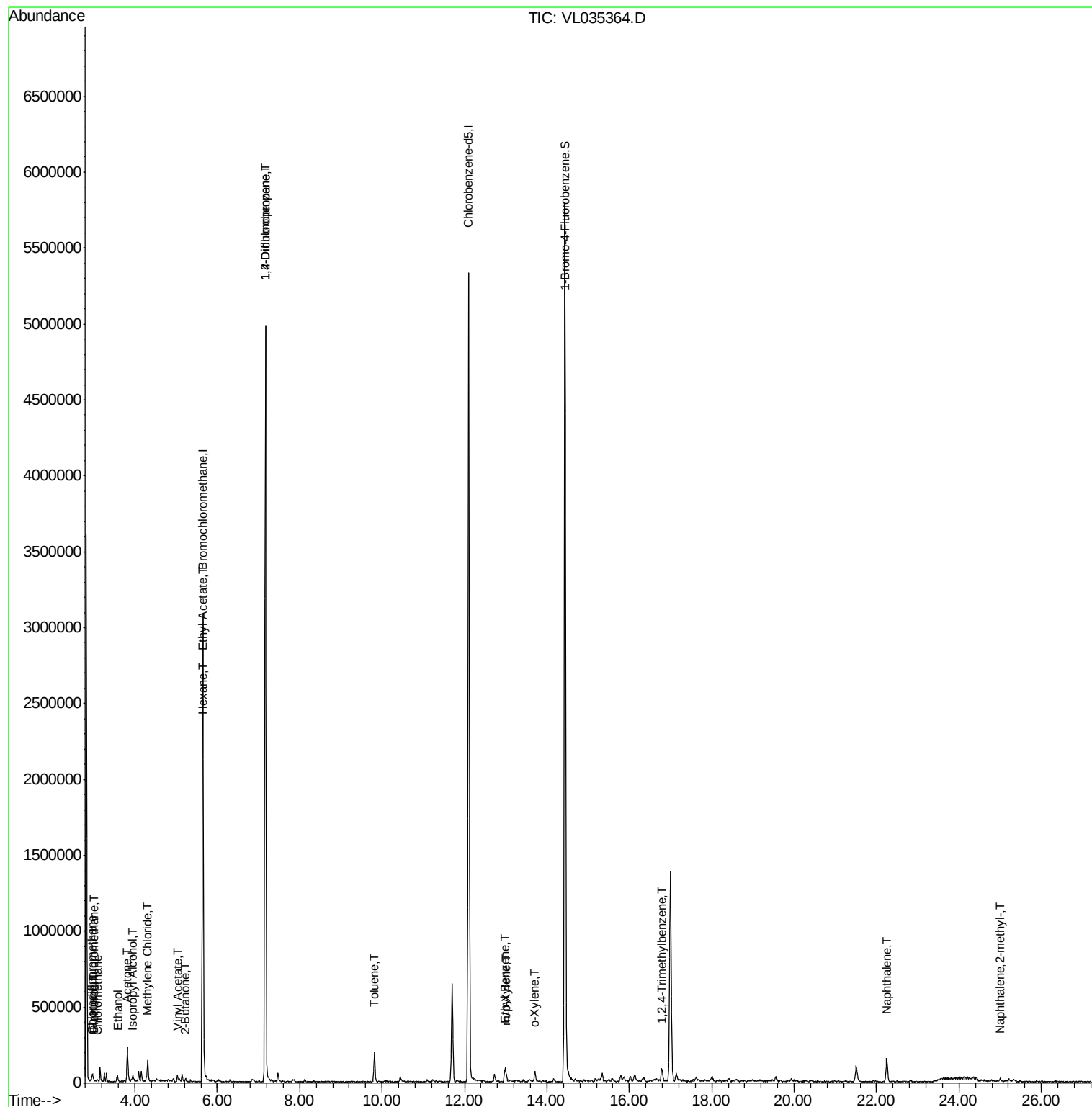
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	7744	0.042	ppbv	91
3) Chlorodifluoromethane	2.94	51	11450	0.072	ppbv #	77
4) Chloromethane	3.09	50	3577	0.040	ppbv #	70
9) Propene	2.97	41	11113	0.197	ppbv	88
13) Ethanol	3.57	45	24245	1.245	ppbv #	37
15) Acetone	3.81	43	224938	1.141	ppbv	94
19) Isopropyl Alcohol	3.94	45	18683	0.149	ppbv #	93
20) Methylene Chloride	4.31	84	41913	0.521	ppbv #	91
23) Vinyl Acetate	5.04	43	6009	0.032	ppbv #	72
25) Ethyl Acetate	5.66	43	19161	0.064	ppbv #	87
26) Hexane	5.66	57	6772	0.052	ppbv #	31
34) 2-Butanone	5.23	43	13265	0.078	ppbv	99
39) 1,2-Dichloropropane	7.16	63	891215	9.455	ppbv #	23
53) Toluene	9.81	91	137692	0.544	ppbv	100
58) Ethyl Benzene	12.97	91	18753	0.055	ppbv	89
59) m/p-Xylene	13.01	91	13323	0.042	ppbv #	29
60) o-Xylene	13.71	91	13838	0.044	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.78	105	19802	0.050	ppbv #	61
79) Naphthalene	22.26	128	76300	0.251	ppbv	98
80) Naphthalene,2-methyl-	25.00	142	8981	0.130	ppbv	96

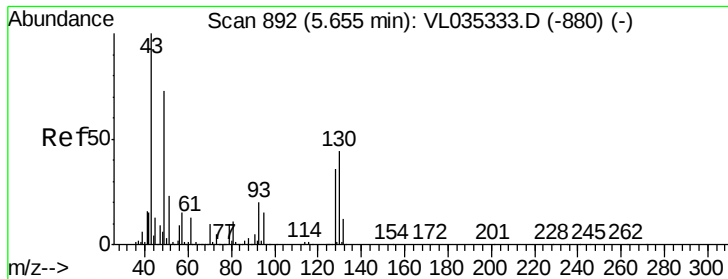
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
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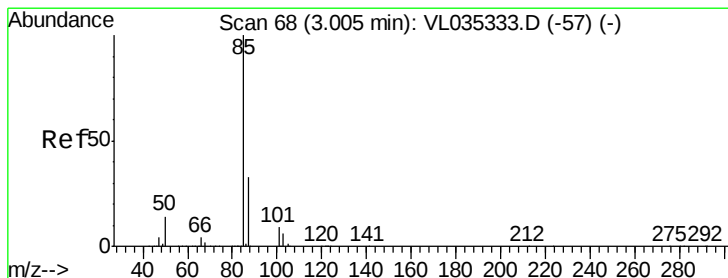
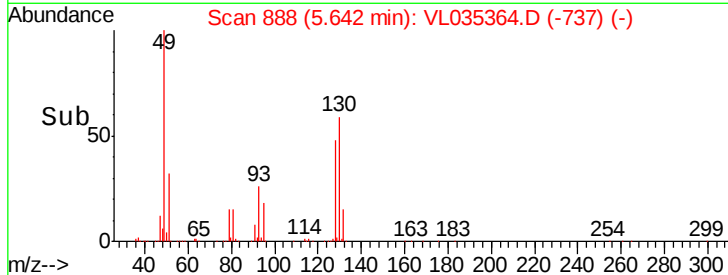
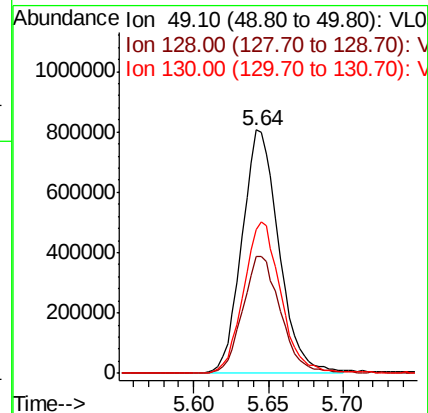
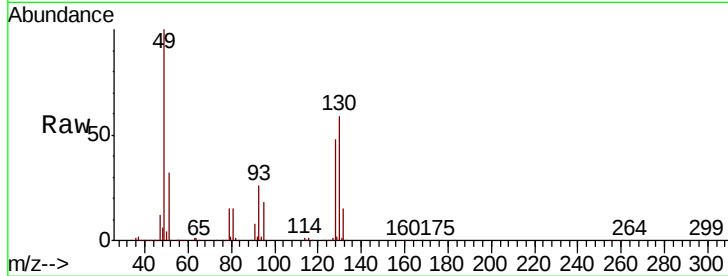


#1

Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 888
 Delta R.T. -0.01 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Instrument :
 MSVOA_L
 ClientSampled :

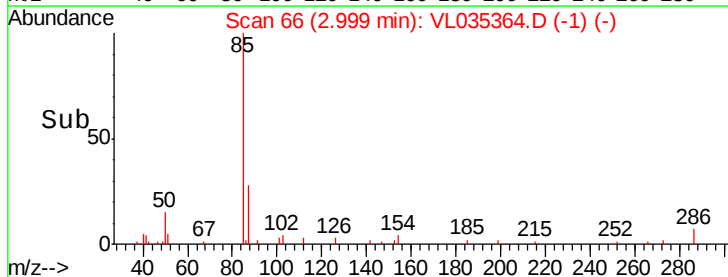
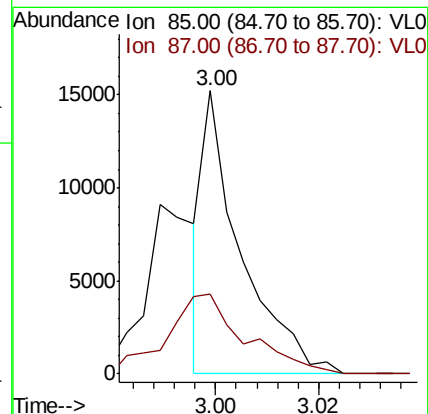
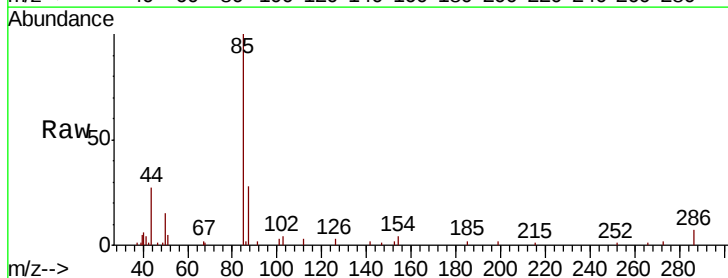
Tot Ion: 49 Resp: 1388453
 Ion Ratio Lower Upper
 49 100
 128 49.8 25.4 76.0
 130 63.0 32.1 96.3

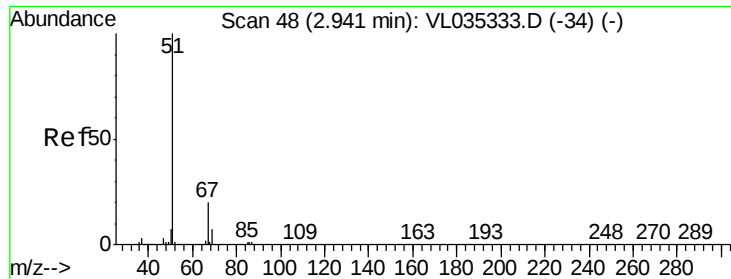


#2

Dichlorodifluoromethane
 Concen: 0.042 ppbv
 RT: 3.00 min Scan# 66
 Delta R.T. -0.01 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Tgt Ion: 85 Resp: 7744
 Ion Ratio Lower Upper
 85 100
 87 28.4 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.072 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.00 min

Lab File: VL035364.D

Acq: 7 Aug 2020 00:28

Instrument :

MSVOA_L

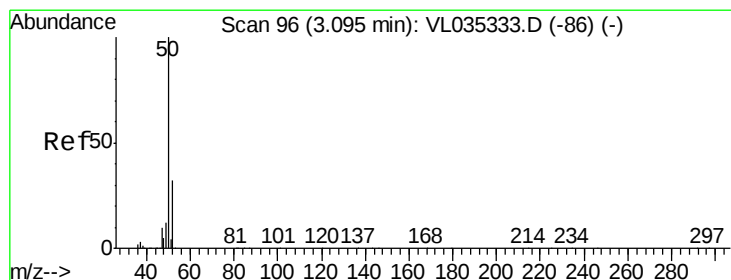
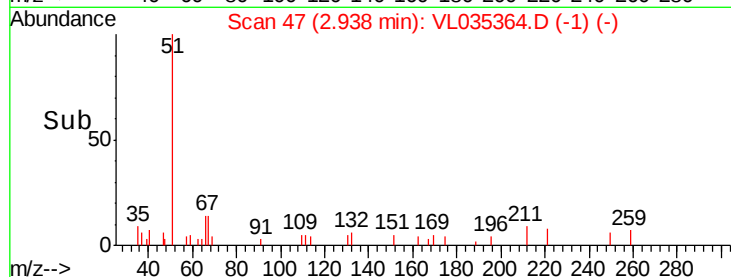
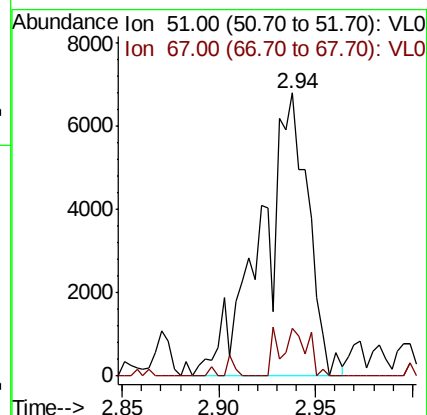
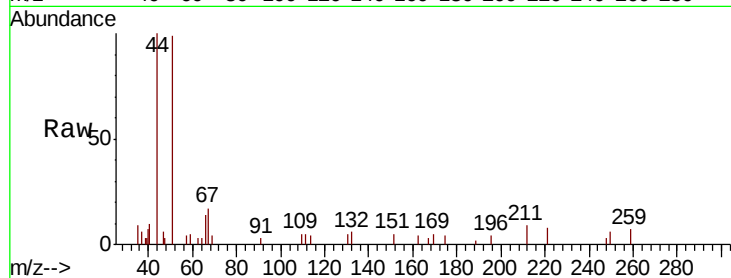
ClientSampleId :

Tot Ion: 51 Resp: 11450

Ion Ratio Lower Upper

51 100

67 10.1 16.6 25.0#



#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.09 min Scan# 93

Delta R.T. -0.01 min

Lab File: VL035364.D

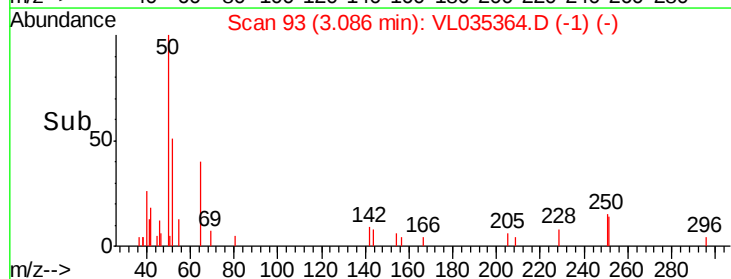
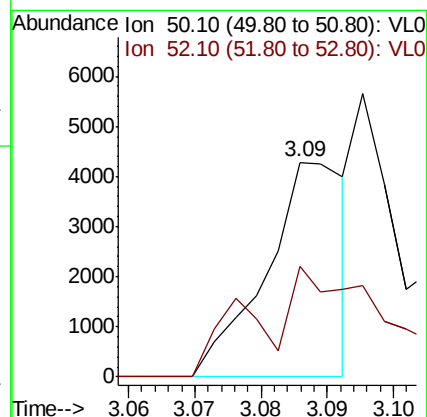
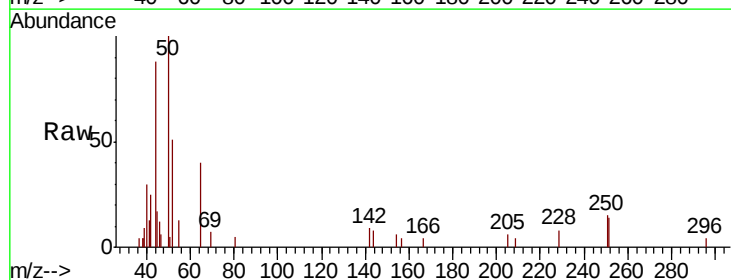
Acq: 7 Aug 2020 00:28

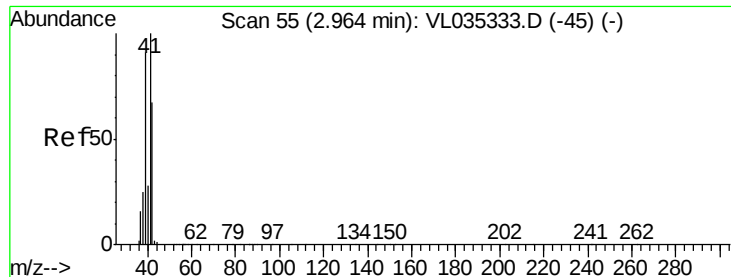
Tgt Ion: 50 Resp: 3577

Ion Ratio Lower Upper

50 100

52 49.1 26.0 39.0#





#9

Propene

Concen: 0.197 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035364.D

Acq: 7 Aug 2020 00:28

Instrument :

MSVOA_L

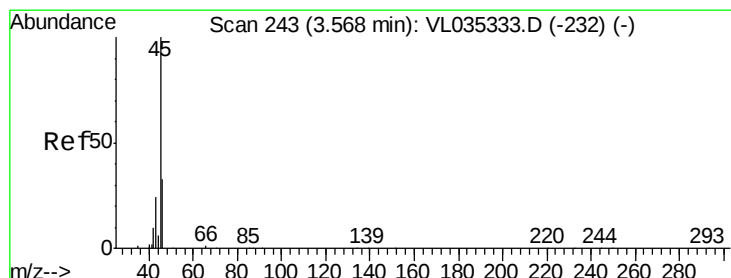
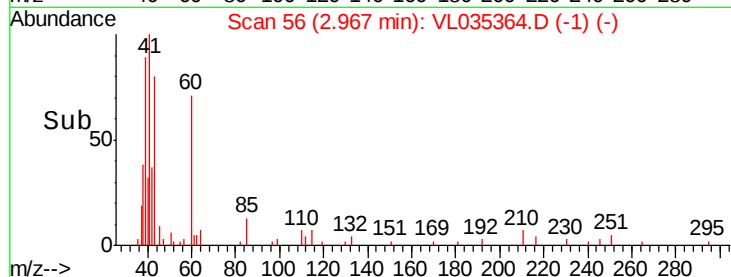
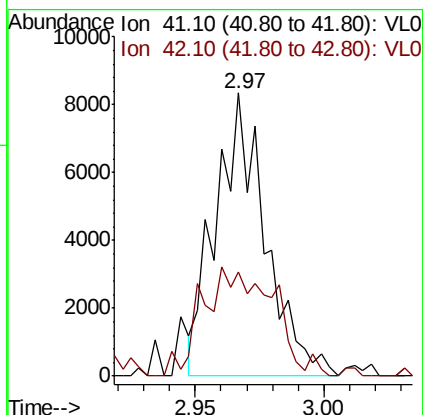
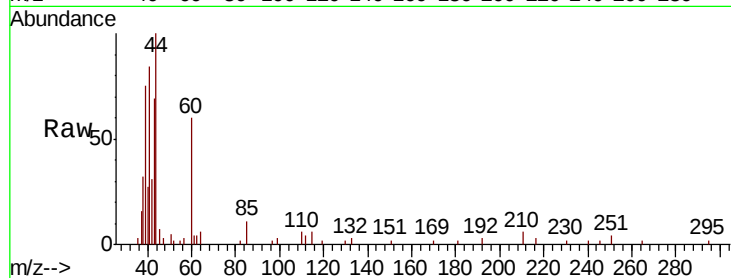
ClientSampleId :

Tot Ion: 41 Resp: 11113

Ion Ratio Lower Upper

41 100

42 59.1 55.3 82.9



#13

Ethanol

Concen: 1.245 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035364.D

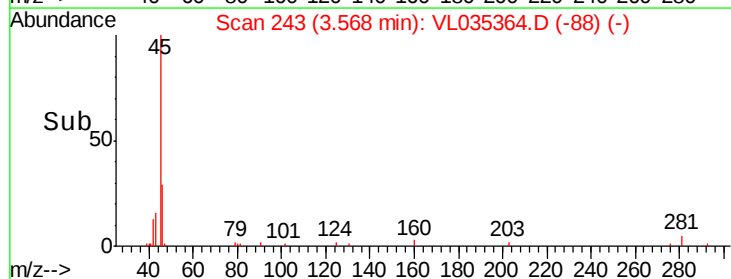
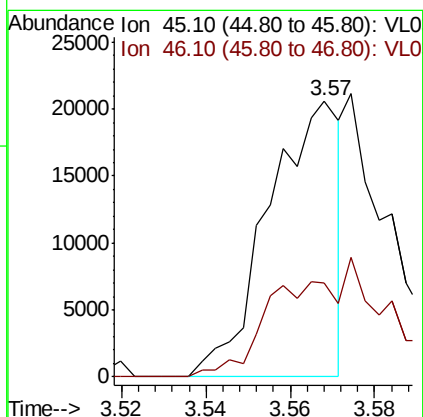
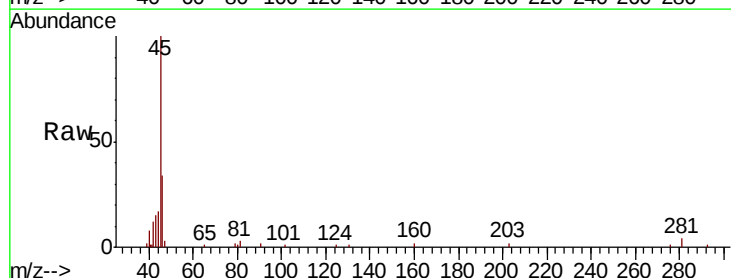
Acq: 7 Aug 2020 00:28

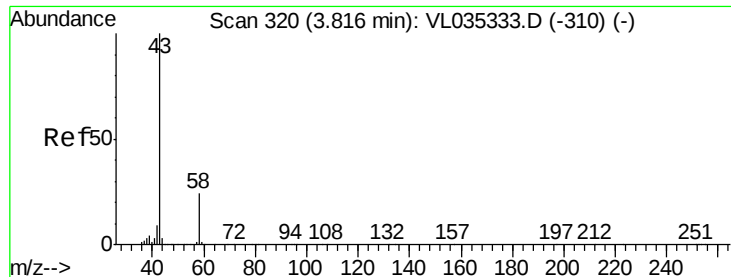
Tgt Ion: 45 Resp: 24245

Ion Ratio Lower Upper

45 100

46 0.0 15.2 61.0#





#15

Acetone

Concen: 1.141 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.00 min

Lab File: VL035364.D

Acq: 7 Aug 2020 00:28

Instrument :

MSVOA_L

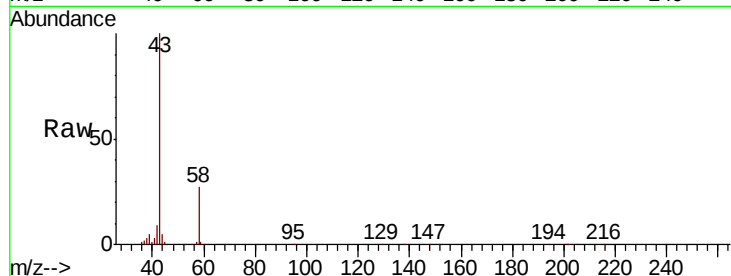
ClientSampleId :

Tot Ion: 43 Resp: 224938

Ion Ratio Lower Upper

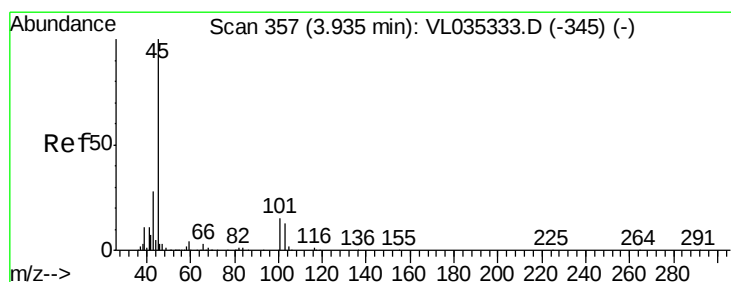
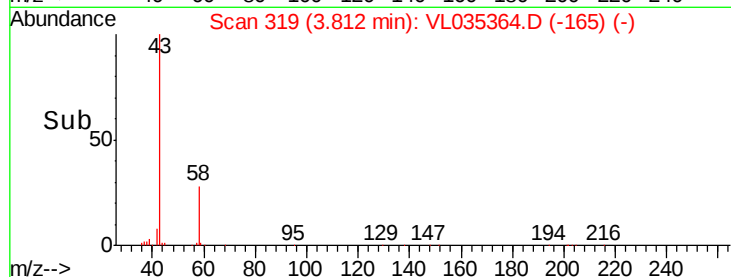
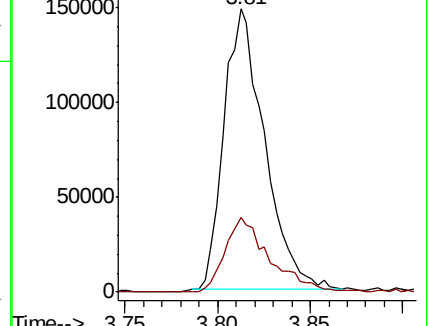
43 100

58 29.4 21.0 31.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.149 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL035364.D

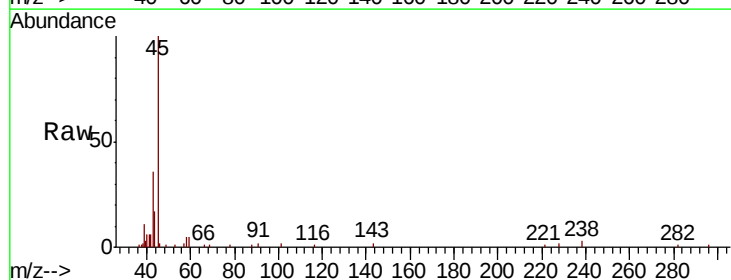
Acq: 7 Aug 2020 00:28

Tgt Ion: 45 Resp: 18683

Ion Ratio Lower Upper

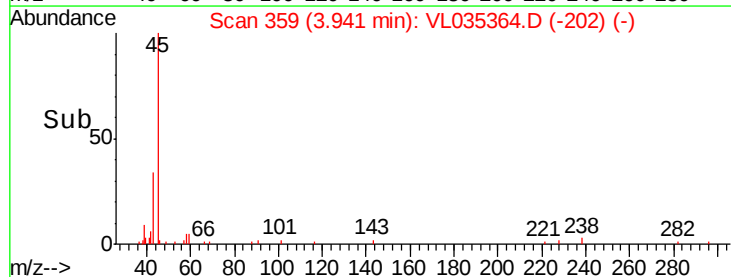
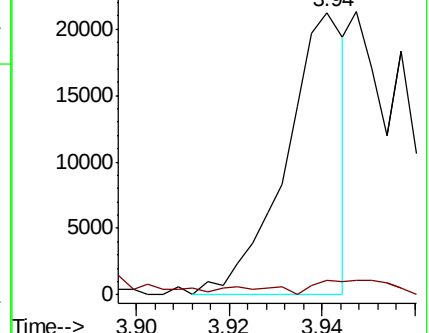
45 100

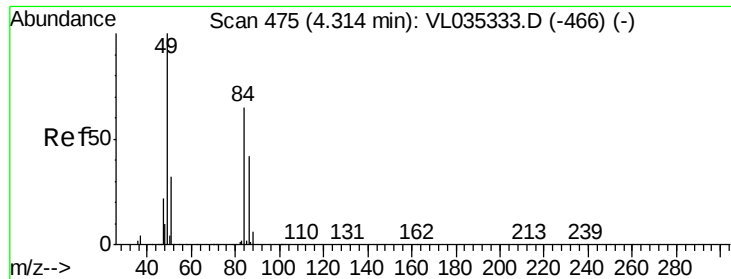
58 0.0 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

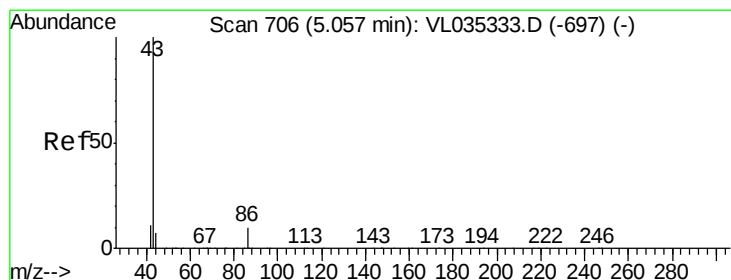
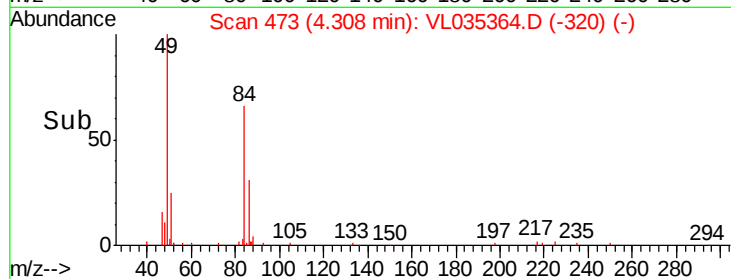
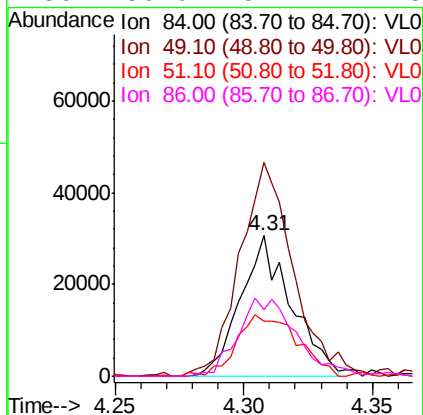
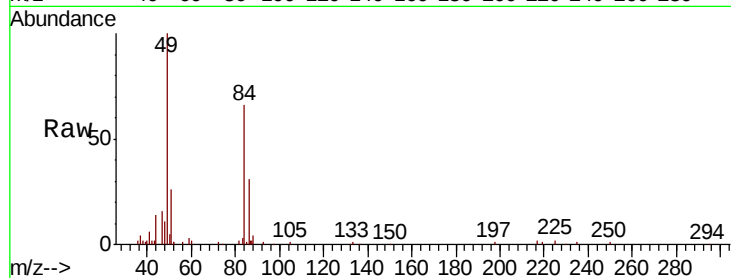




#20
Methvlene Chloride
Concen: 0.521 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035364.D
Acq: 7 Aug 2020 00:28

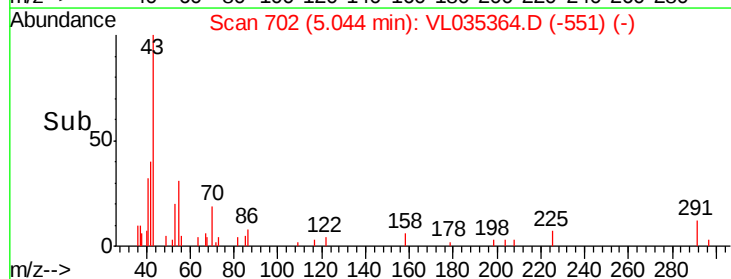
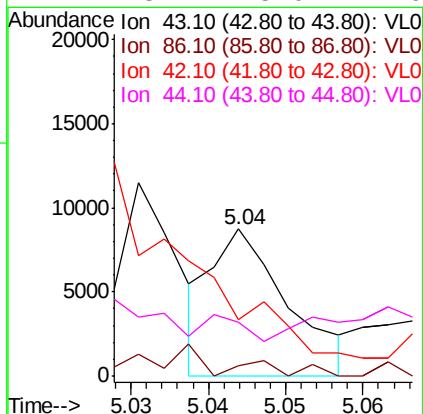
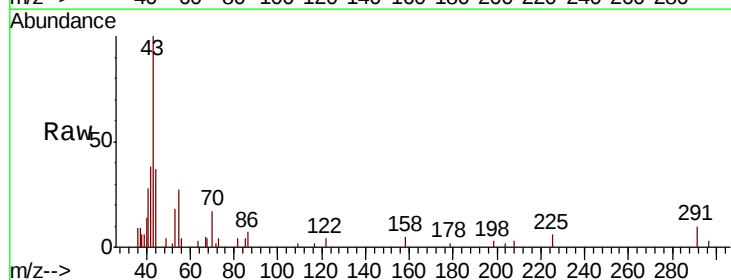
Instrument :
MSVOA_L
ClientSampleId :

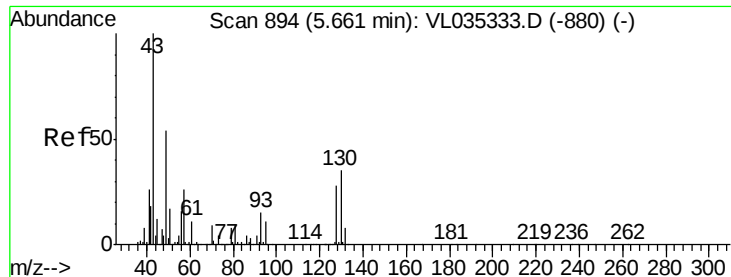
Tot Ion: 84 Resp: 41913
Ion Ratio Lower Upper
84 100
49 149.6 122.8 184.2
51 41.4 40.1 60.1
86 50.0 51.7 77.5#



#23
Vinyl Acetate
Concen: 0.032 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.01 min
Lab File: VL035364.D
Acq: 7 Aug 2020 00:28

Tgt Ion: 43 Resp: 6009
Ion Ratio Lower Upper
43 100
86 9.7 6.9 10.3
42 30.6 8.8 13.2#
44 13.7 5.0 7.6#

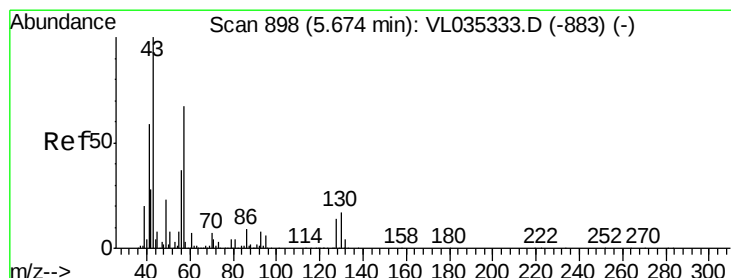
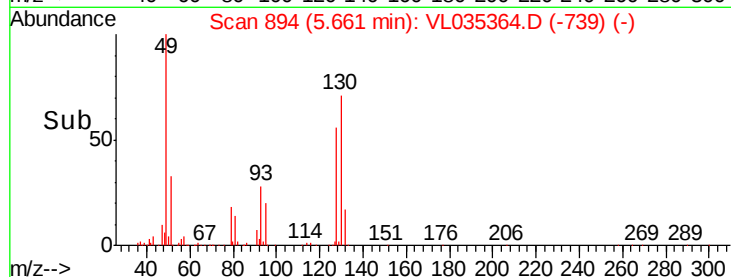
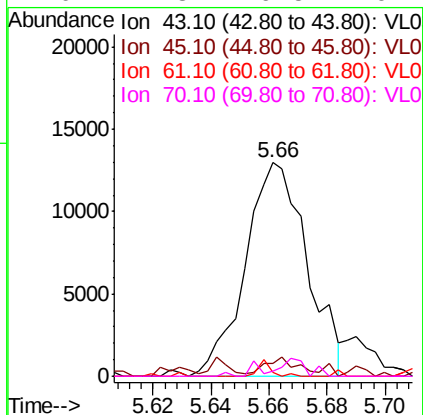
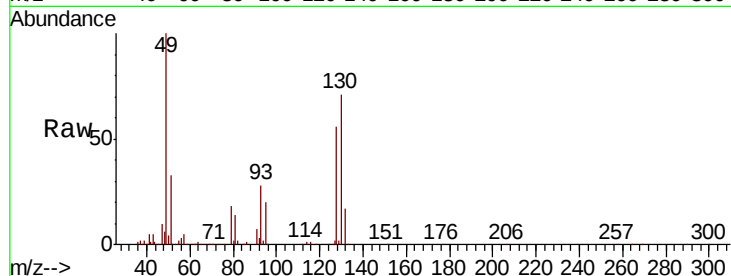




#25
Ethyl Acetate
Concen: 0.064 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL035364.D
Acq: 7 Aug 2020 00:28

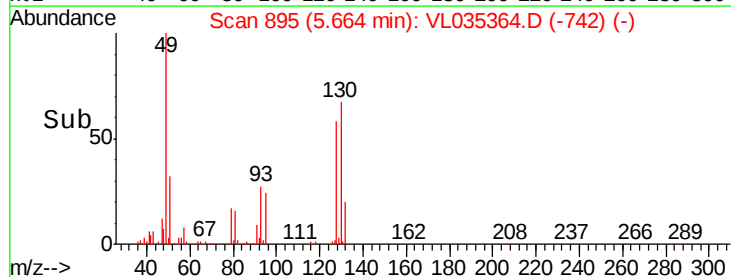
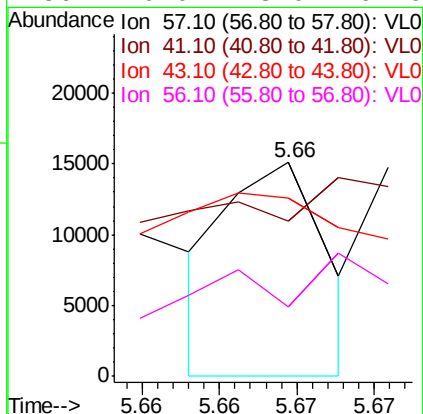
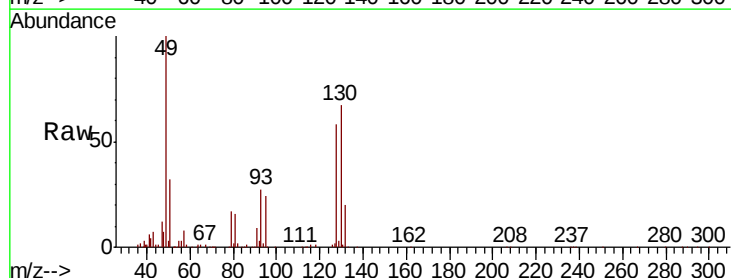
Instrument :
MSVOA_L
ClientSampleId :

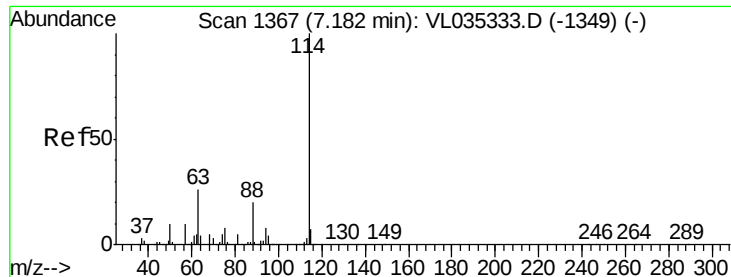
Tot Ion:	43	Resp:	19161
Ion	Ratio	Lower	Upper
43	100		
45	8.4	8.5	12.7#
61	1.6	8.1	12.1#
70	4.8	6.5	9.7#



#26
Hexane
Concen: 0.052 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035364.D
Acq: 7 Aug 2020 00:28

Tgt Ion:	57	Resp:	6772
Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.2	112.8#
43	317.9	180.6	270.8#
56	0.0	43.0	64.6#



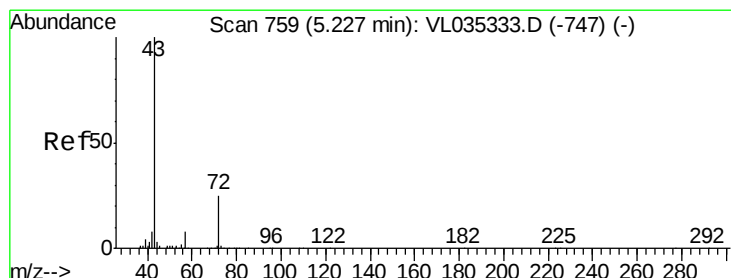
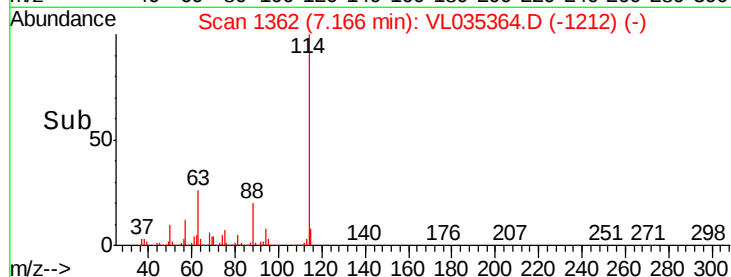
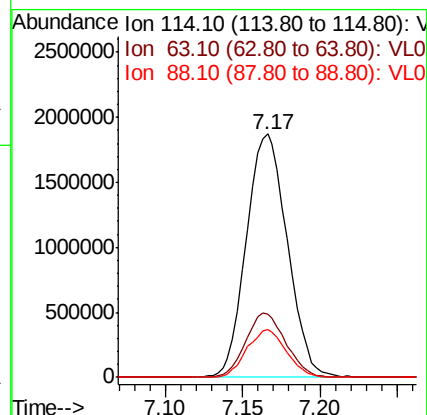
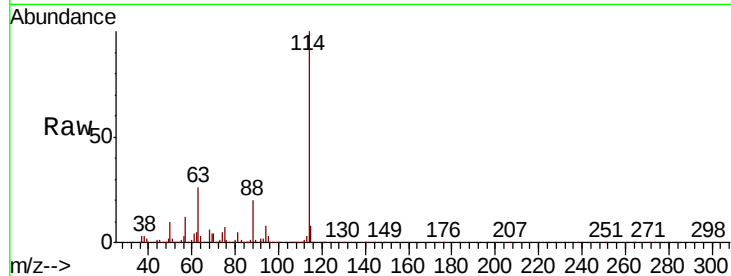


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleID :

Tot Ion:114 Resp: 3448218

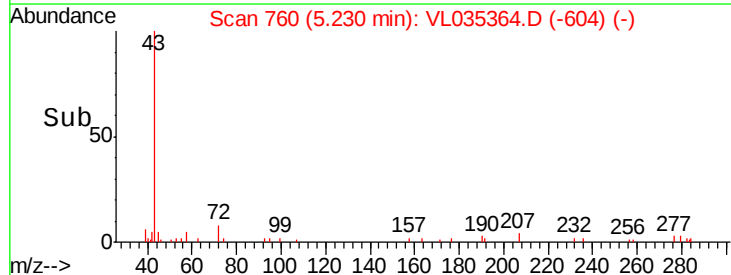
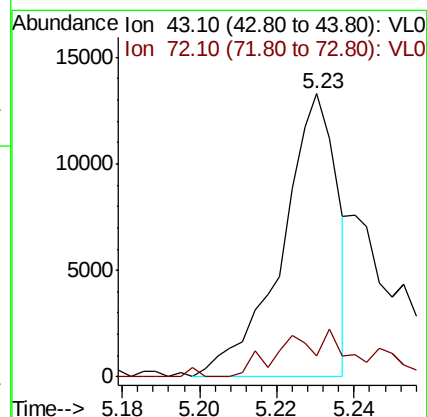
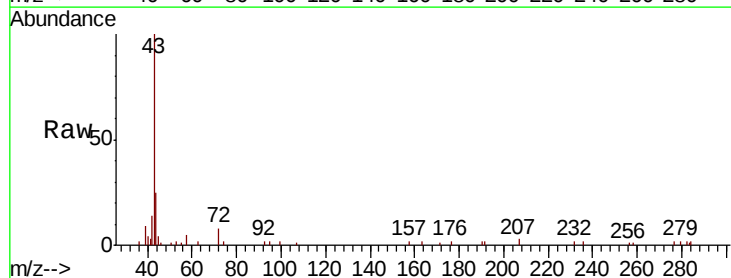
Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.3	31.9
88	19.1	15.3	22.9

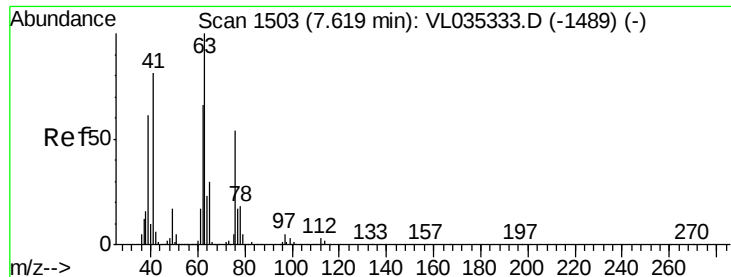


#34
 2-Butanone
 Concen: 0.078 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Tgt Ion: 43 Resp: 13265

Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.9	28.3

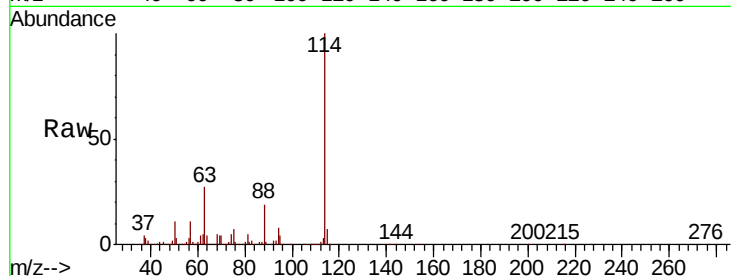




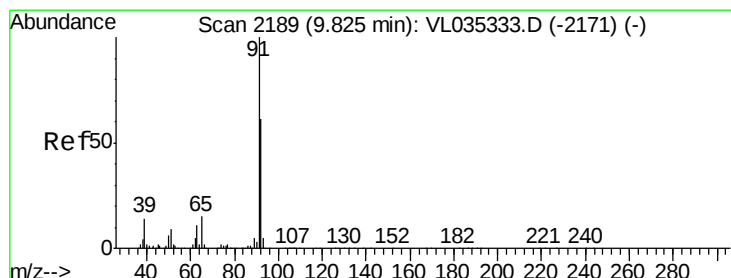
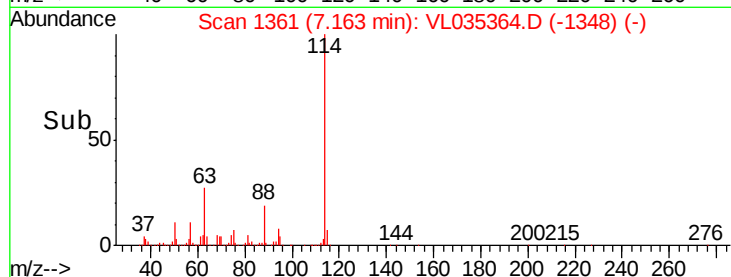
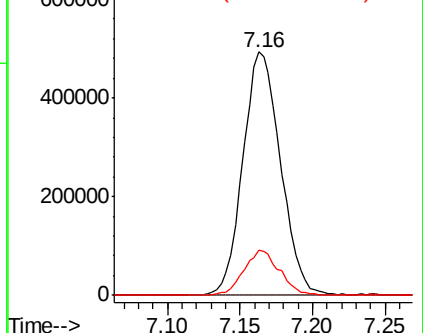
#39
 1,2-Dichloropropane
 Concen: 9.455 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.4	96.6#
62	18.5	52.6	78.8#

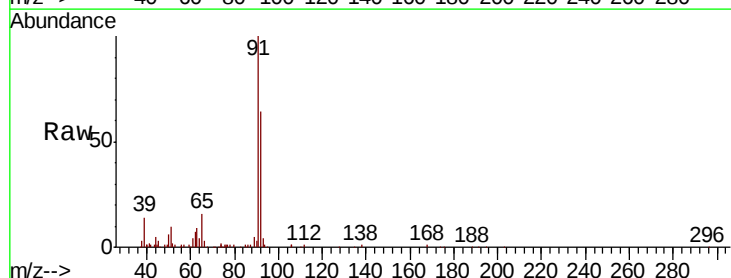


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

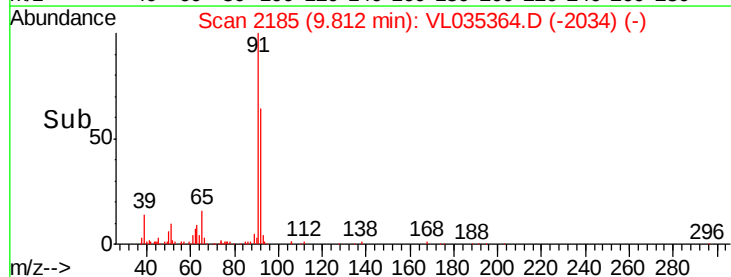
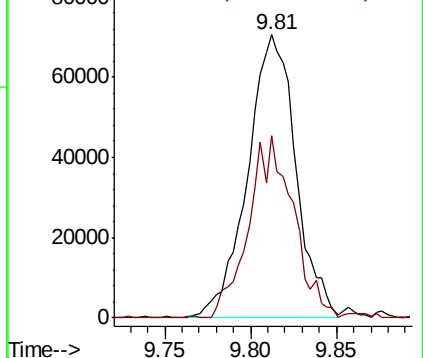


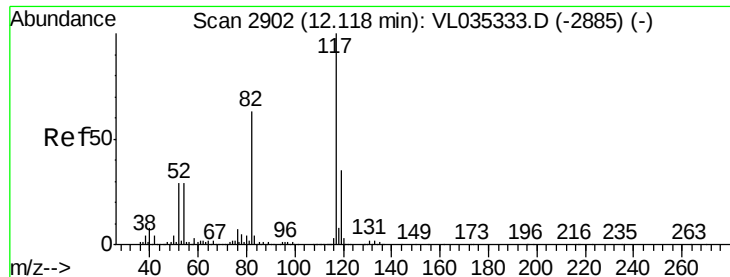
#53
 Toluene
 Concen: 0.544 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. -0.01 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.5	72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035364.D

Acq: 7 Aug 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

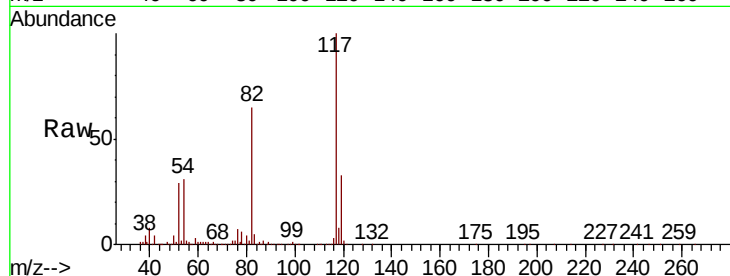
Tot Ion:117 Resp: 3282628

Ion Ratio Lower Upper

117 100

82 66.2 51.0 76.4

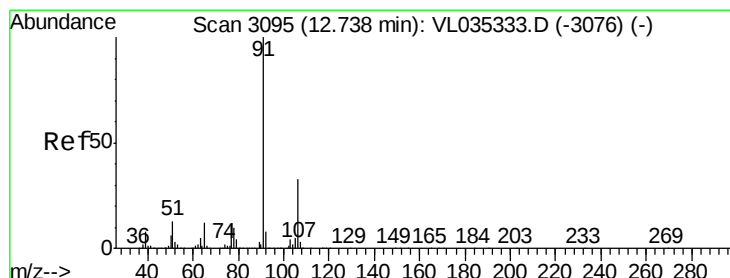
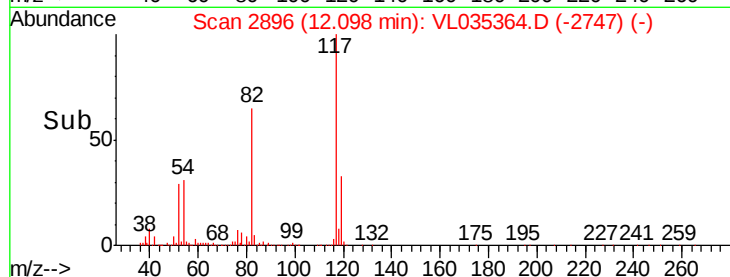
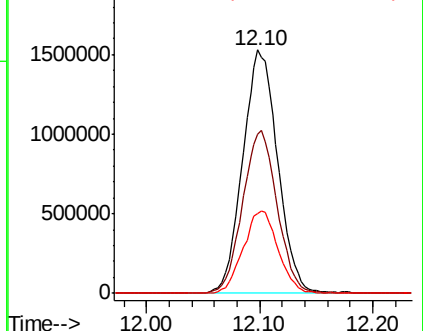
119 33.8 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.055 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. 0.23 min

Lab File: VL035364.D

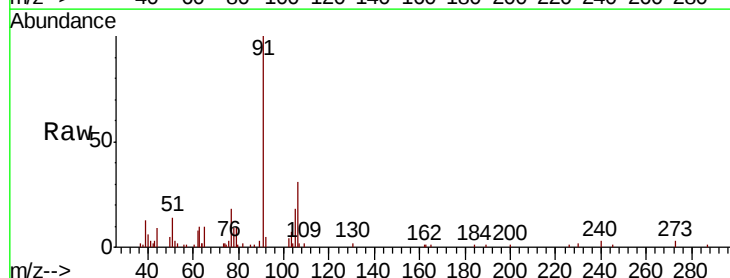
Acq: 7 Aug 2020 00:28

Tgt Ion: 91 Resp: 18753

Ion Ratio Lower Upper

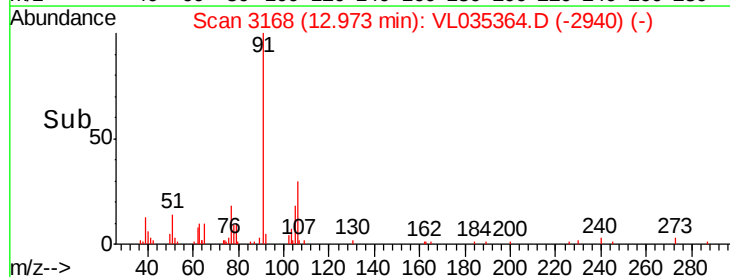
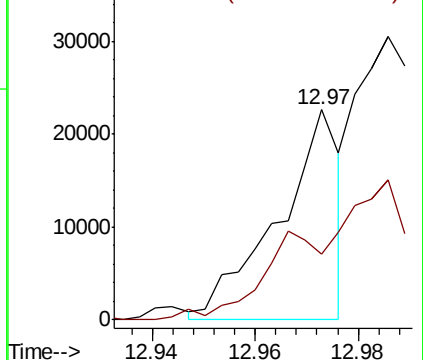
91 100

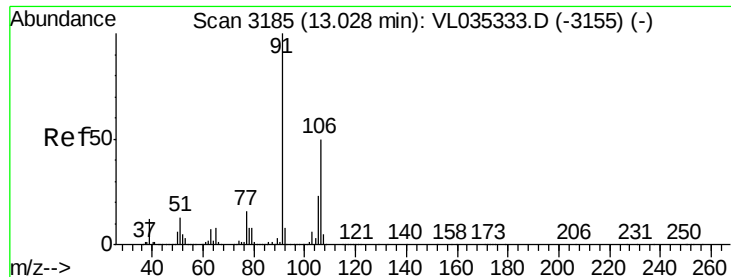
106 27.3 26.8 40.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

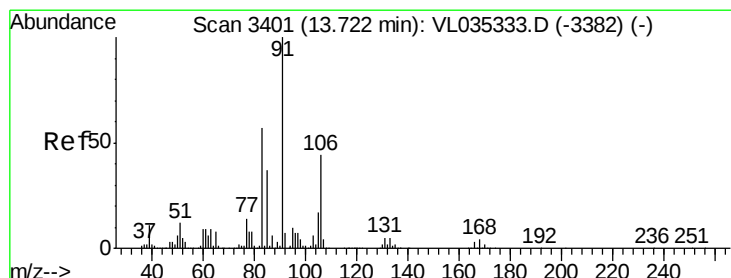
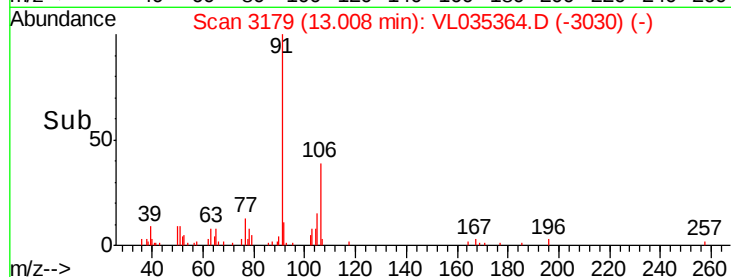
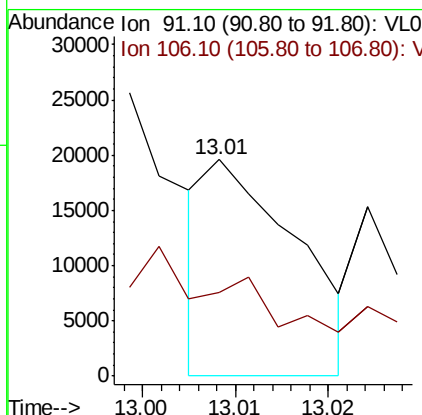
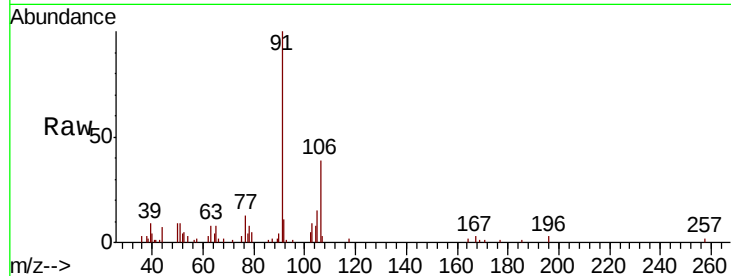




#59
m/p-Xylene
Concen: 0.042 ppbv
RT: 13.01 min Scan# 3179
Delta R.T. -0.02 min
Lab File: VL035364.D
Acq: 7 Aug 2020 00:28

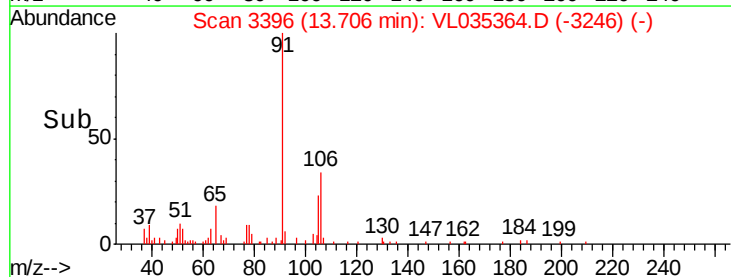
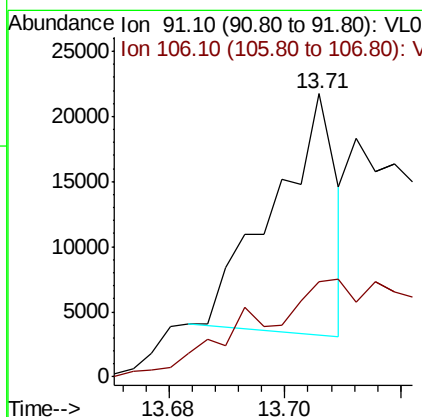
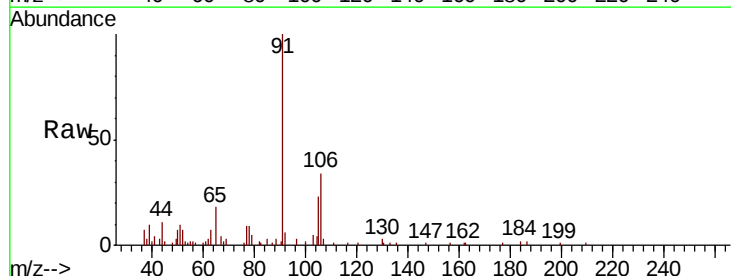
Instrument :
MSVOA_L
ClientSampleId :

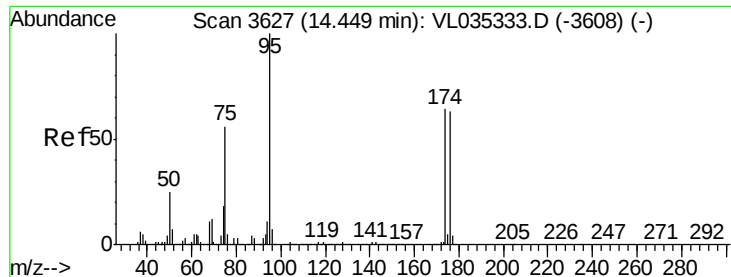
Tot Ion: 91 Resp: 13323
Ion Ratio Lower Upper
91 100
106 0.0 37.8 56.8#



#60
o-Xylene
Concen: 0.044 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL035364.D
Acq: 7 Aug 2020 00:28

Tgt Ion: 91 Resp: 13838
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.0#

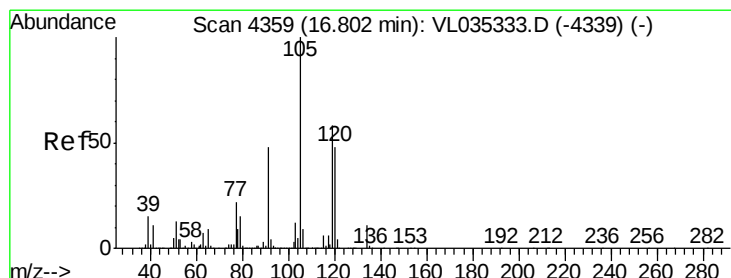
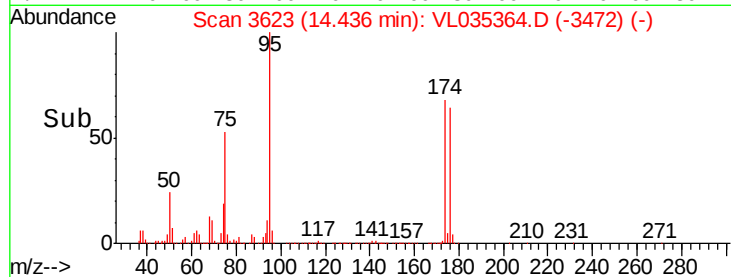
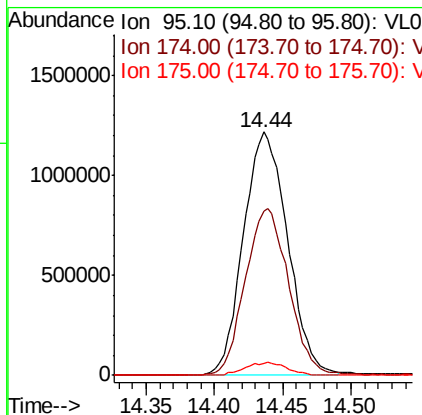
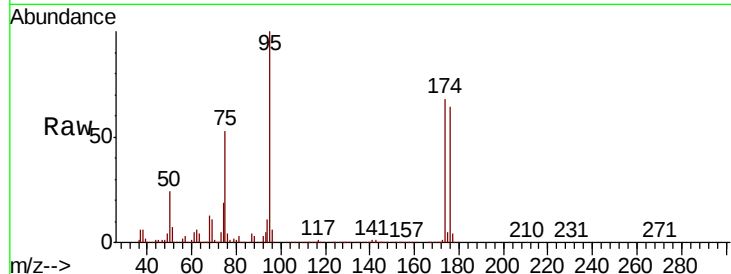




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.987 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

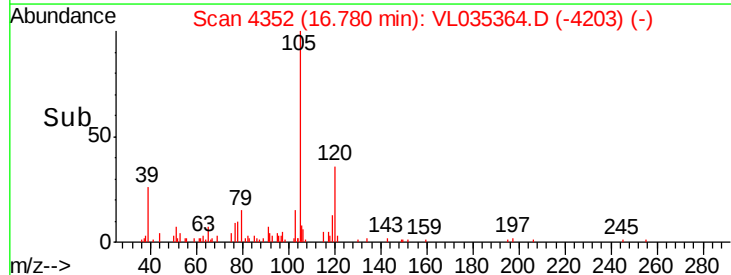
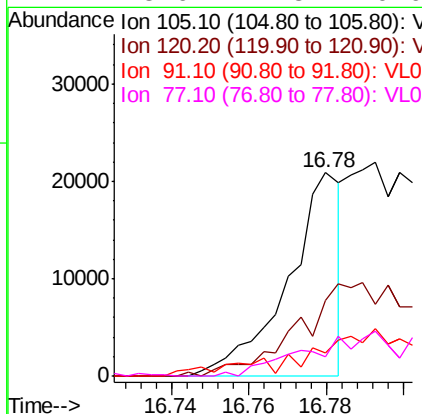
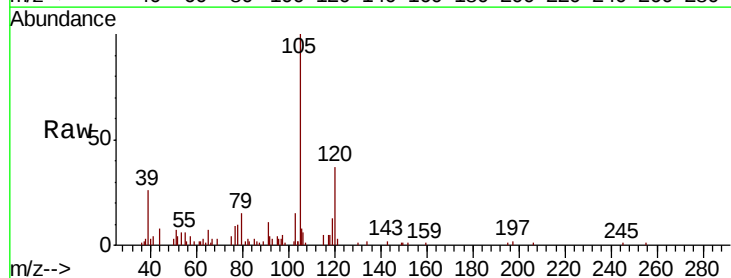
Instrument :
 MSVOA_L
 ClientSampleId :

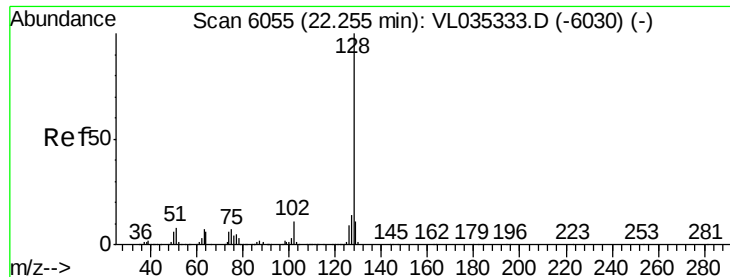
Tot Ion: 95 Resp: 2733865
 Ion Ratio Lower Upper
 95 100
 174 68.3 53.5 80.3
 175 5.1 4.2 6.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.050 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.02 min
 Lab File: VL035364.D
 Acq: 7 Aug 2020 00:28

Tgt Ion:105 Resp: 19802
 Ion Ratio Lower Upper
 105 100
 120 32.8 38.5 57.7#
 91 7.7 39.0 58.6#
 77 8.6 17.8 26.6#





#79

Naphthalene

Concen: 0.251 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL035364.D

Acq: 7 Aug 2020 00:28

Instrument :

MSVOA_L

ClientSampled :

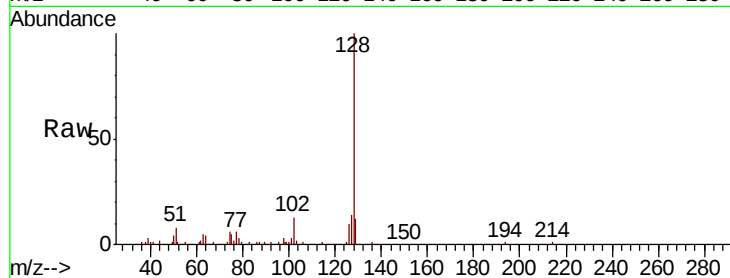
Tot Ion:128 Resp: 76300

Ion Ratio Lower Upper

128 100

127 13.2 11.1 16.7

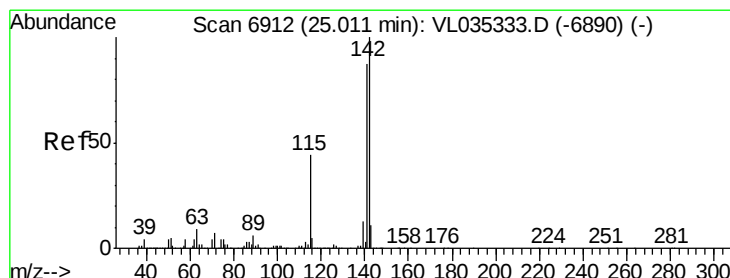
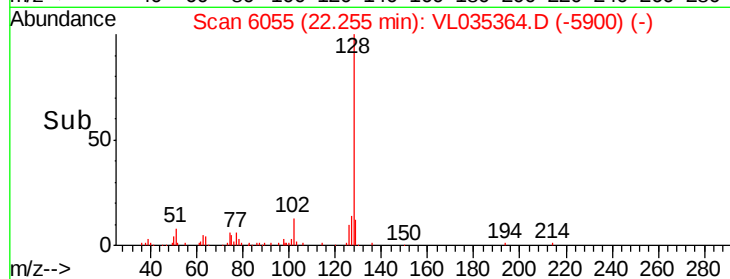
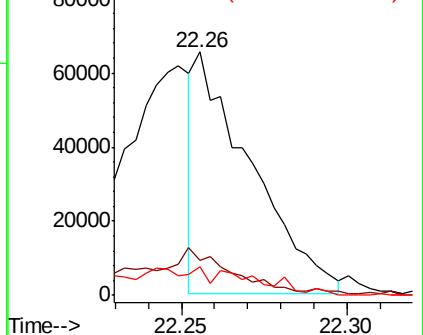
129 11.8 8.7 13.1



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.130 ppbv

RT: 25.00 min Scan# 6909

Delta R.T. -0.01 min

Lab File: VL035364.D

Acq: 7 Aug 2020 00:28

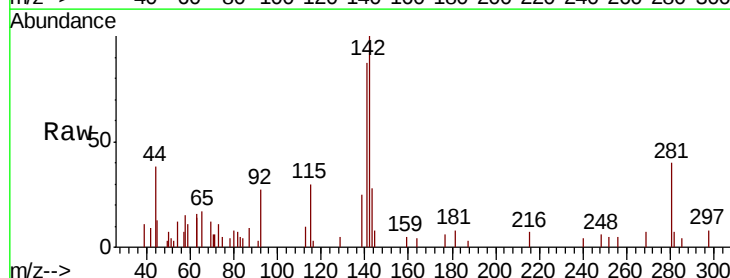
Tgt Ion:142 Resp: 8981

Ion Ratio Lower Upper

142 100

141 84.0 69.0 103.6

115 39.7 35.5 53.3



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

