

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037089.D
 Acq On : 2 Jun 2021 3:33
 Operator : SY/AP
 Sample : M2548-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 06:49:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1473412	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4295478	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3881023	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2736941	9.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

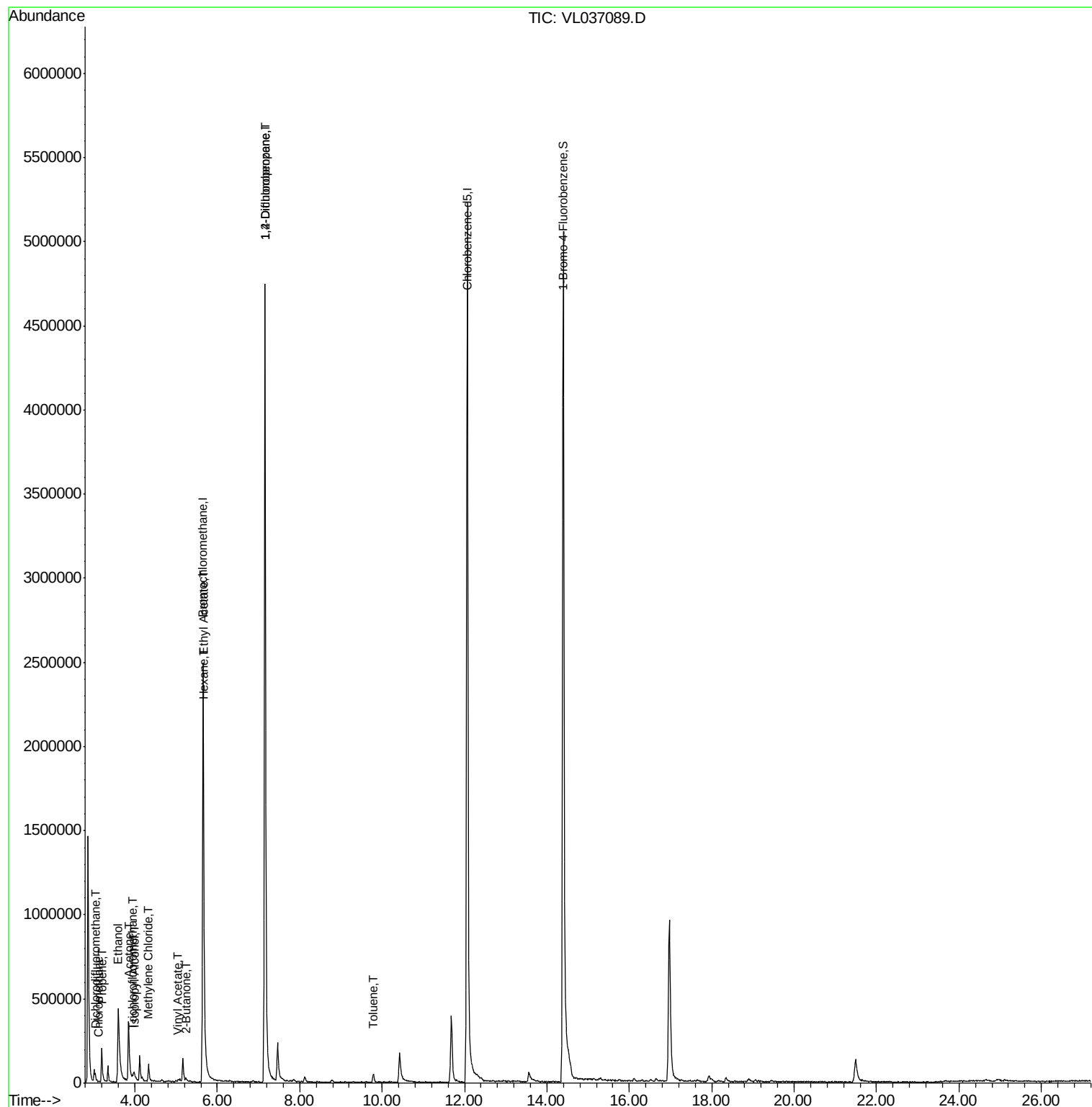
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	30958	0.124	ppbv	97
4) Chloromethane	3.13	50	3086	0.034	ppbv	97
9) Propene	3.20	41	69537	0.719	ppbv	90
11) Trichlorofluoromethane	3.94	101	7065	0.031	ppbv #	57
13) Ethanol	3.59	45	334226	25.916	ppbv #	25
15) Acetone	3.84	43	486665	3.225	ppbv	91
19) Isopropyl Alcohol	3.99	45	15261	0.188	ppbv #	84
20) Methylene Chloride	4.33	84	36173	0.447	ppbv	89
23) Vinyl Acetate	5.05	43	8386	0.035	ppbv #	89
25) Ethyl Acetate	5.67	43	34945	0.096	ppbv #	78
26) Hexane	5.67	57	46654	0.252	ppbv #	49
34) 2-Butanone	5.24	43	15082	0.096	ppbv #	54
39) 1,2-Dichloropropane	7.16	63	1003116	7.038	ppbv #	25
53) Toluene	9.79	91	29796	0.068	ppbv #	58

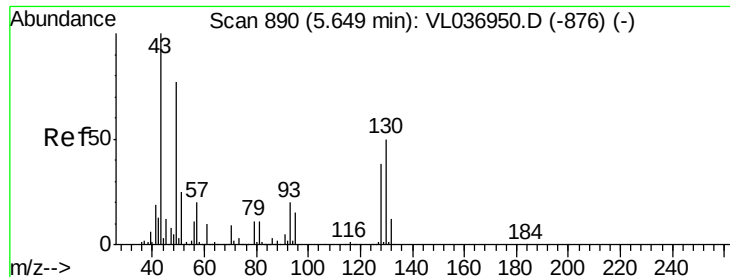
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037089.D

Acq: 2 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

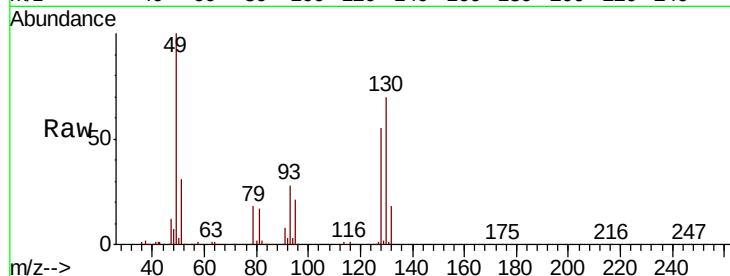
Tot Ion: 49 Resp: 1473412

Ion Ratio Lower Upper

49 100

128 56.0 26.9 80.7

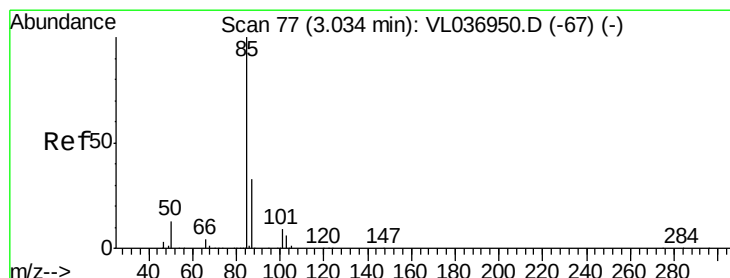
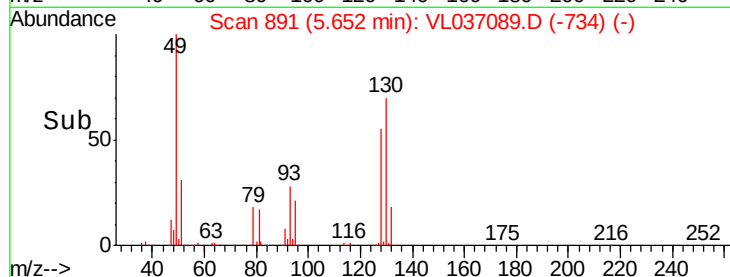
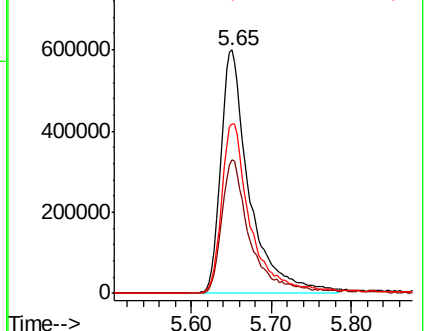
130 71.3 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.124 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL037089.D

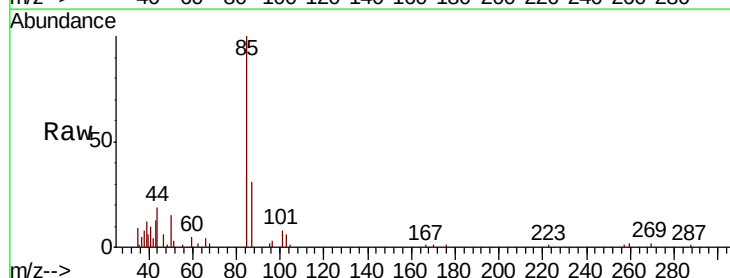
Acq: 2 Jun 2021 3:33

Tgt Ion: 85 Resp: 30958

Ion Ratio Lower Upper

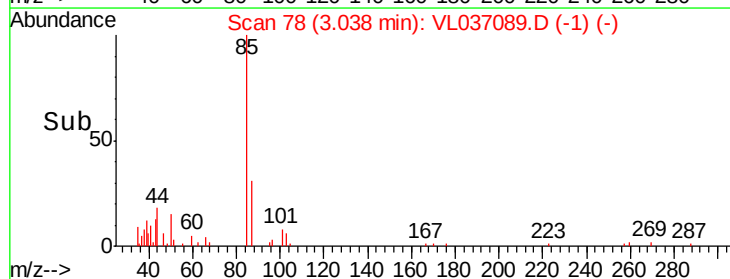
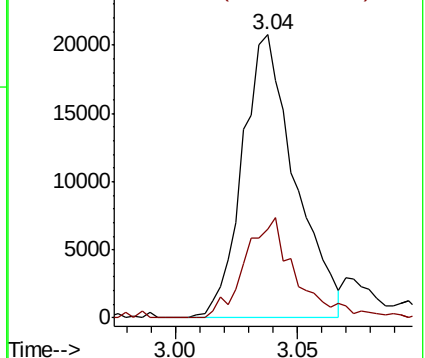
85 100

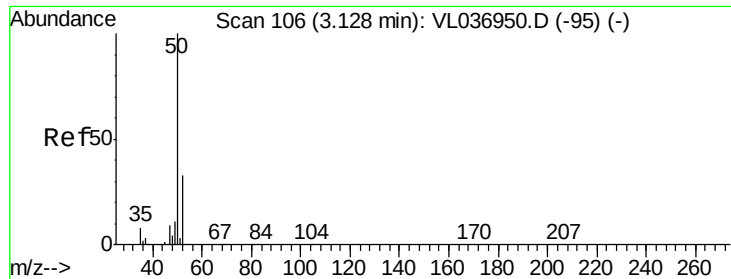
87 31.4 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037089.D

Acq: 2 Jun 2021 3:33

Instrument :

MSVOA_L

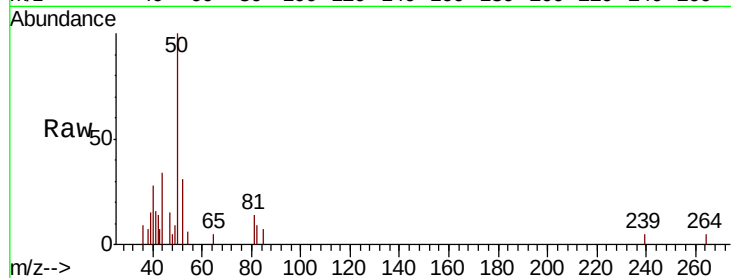
ClientSampleId :

Tot Ion: 50 Resp: 3086

Ion Ratio Lower Upper

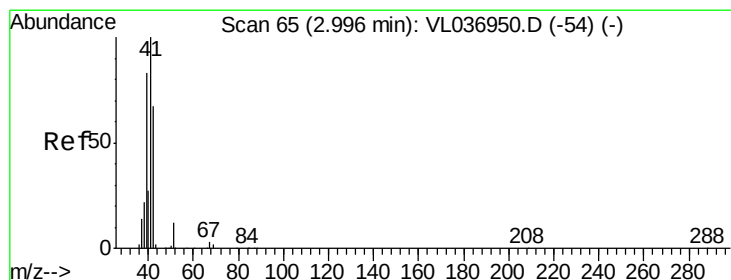
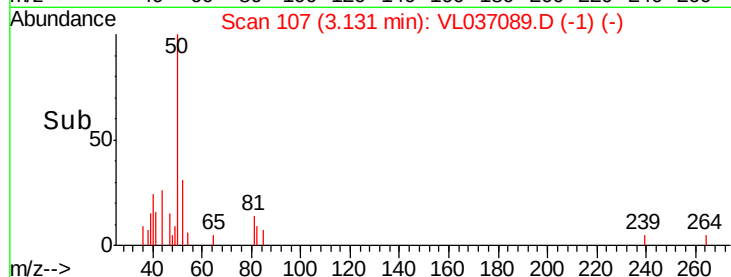
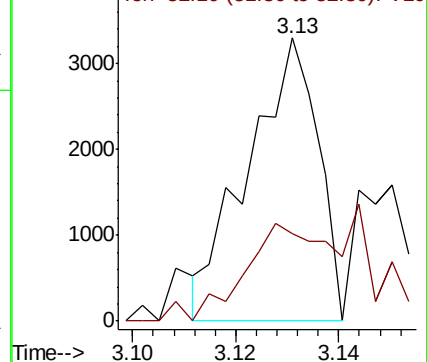
50 100

52 30.8 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.719 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.20 min

Lab File: VL037089.D

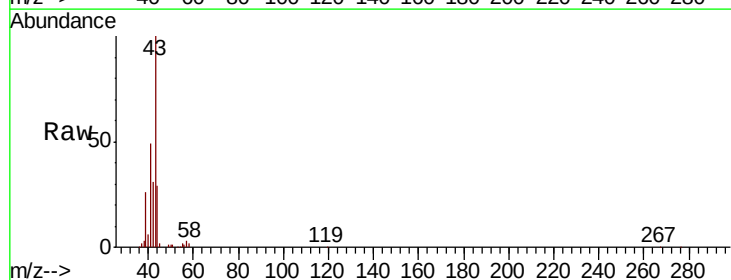
Acq: 2 Jun 2021 3:33

Tgt Ion: 41 Resp: 69537

Ion Ratio Lower Upper

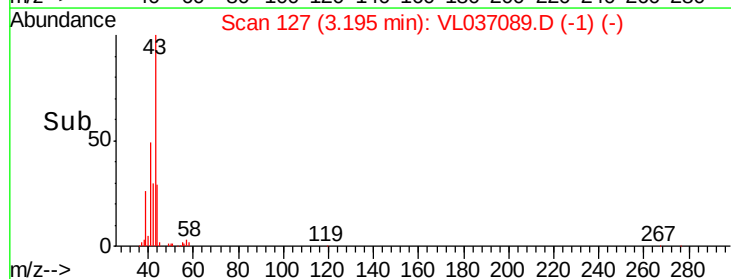
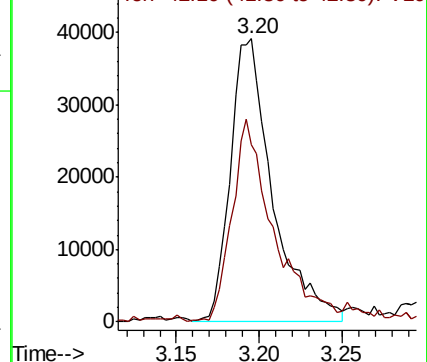
41 100

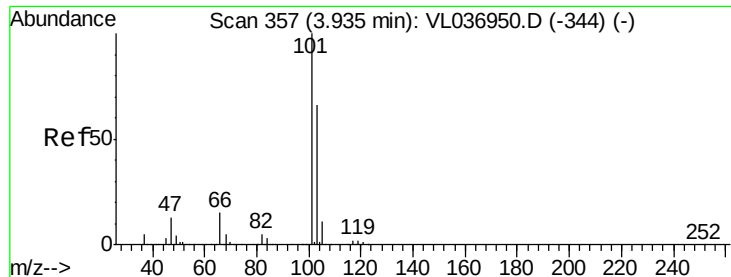
42 75.2 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL037089.D

Acq: 2 Jun 2021 3:33

Instrument :

MSVOA_L

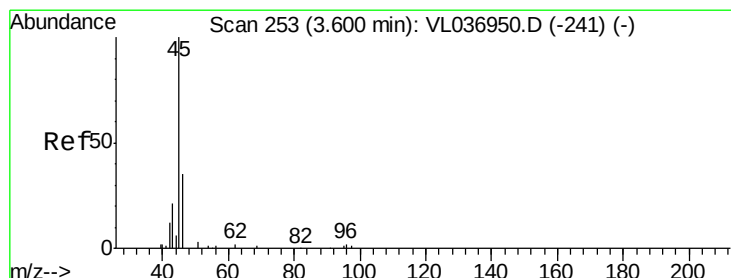
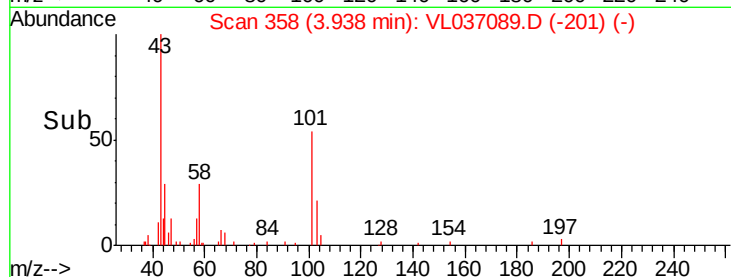
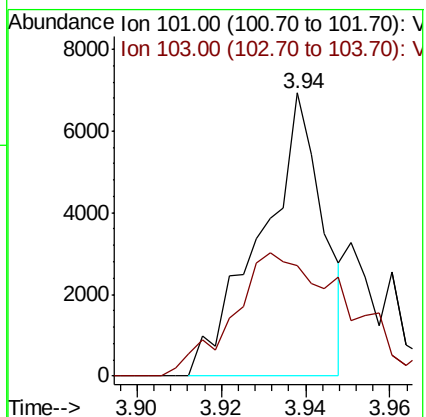
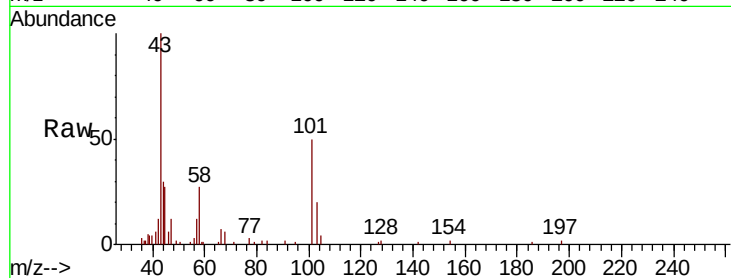
ClientSampled :

Tot Ion:101 Resp: 7065

Ion Ratio Lower Upper

101 100

103 31.3 52.6 79.0#



#13

Ethanol

Concen: 25.916 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL037089.D

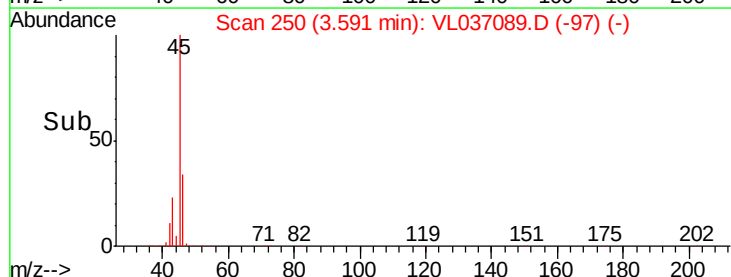
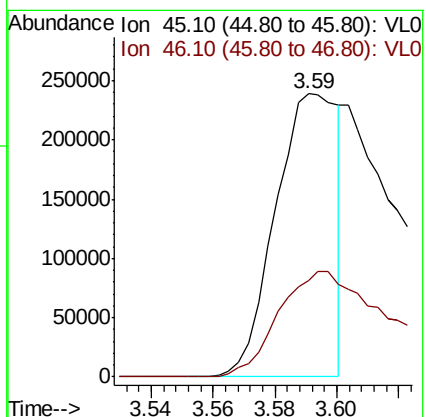
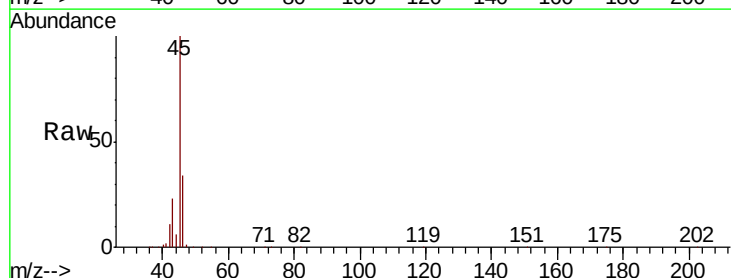
Acq: 2 Jun 2021 3:33

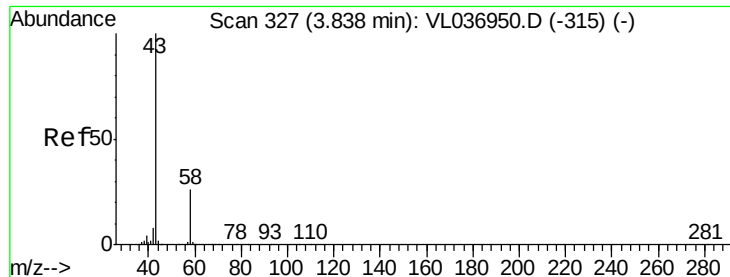
Tgt Ion: 45 Resp: 334226

Ion Ratio Lower Upper

45 100

46 87.3 16.3 65.3#

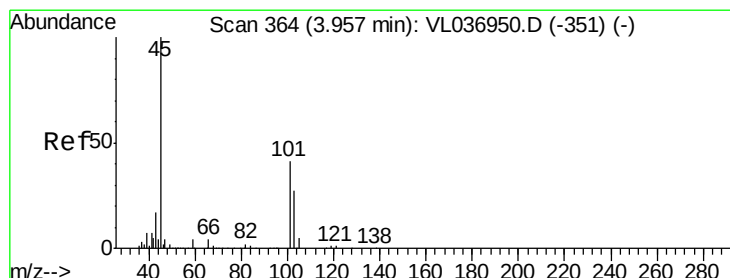
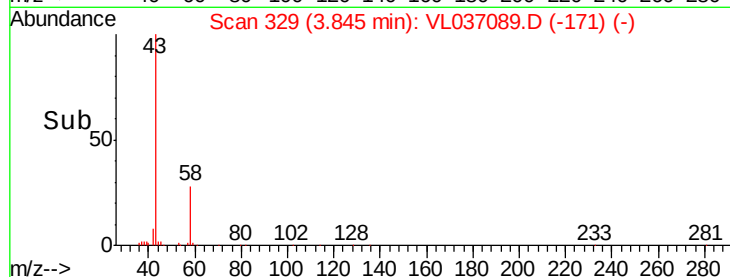
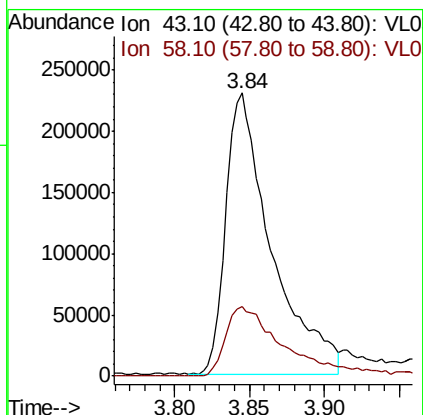
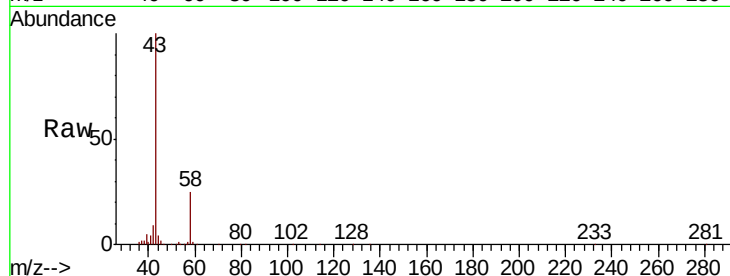




#15
Acetone
Concen: 3.225 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL037089.D
Acq: 2 Jun 2021 3:33

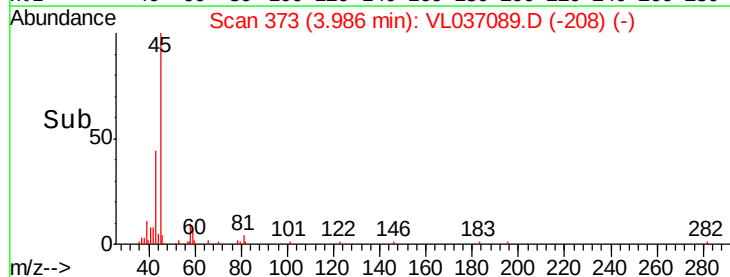
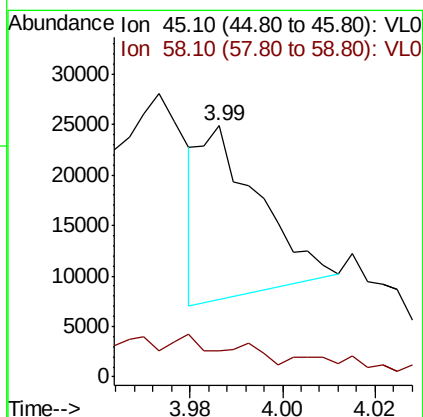
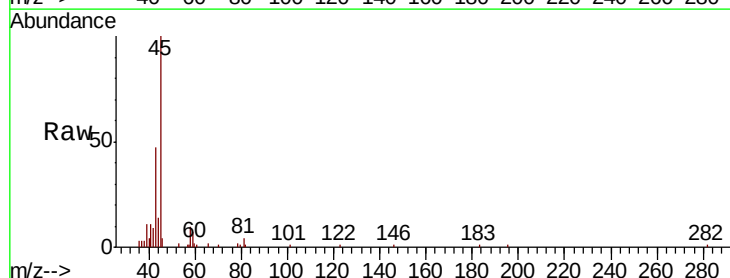
Instrument :
MSVOA_L
ClientSampleId :

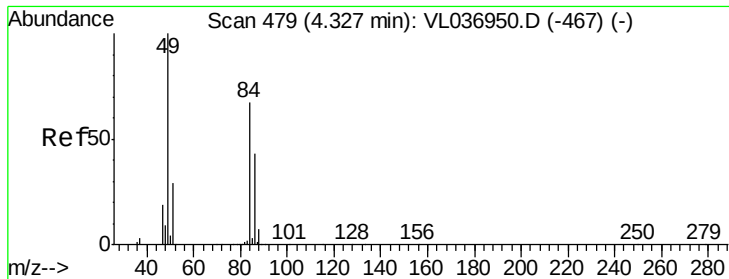
Tot Ion: 43 Resp: 486665
Ion Ratio Lower Upper
43 100
58 34.7 24.0 36.0



#19
Isopropyl Alcohol
Concen: 0.188 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.03 min
Lab File: VL037089.D
Acq: 2 Jun 2021 3:33

Tgt Ion: 45 Resp: 15261
Ion Ratio Lower Upper
45 100
58 35.9 37.2 55.8#

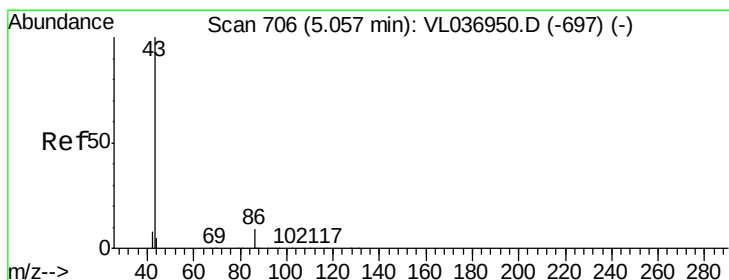
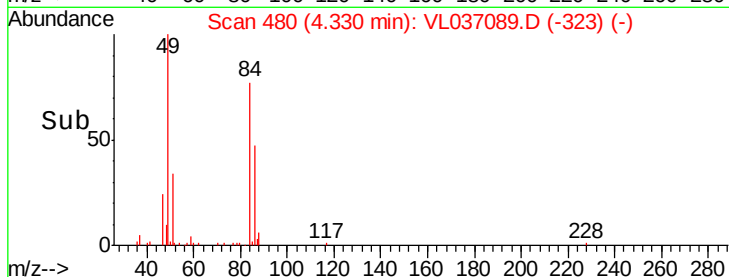
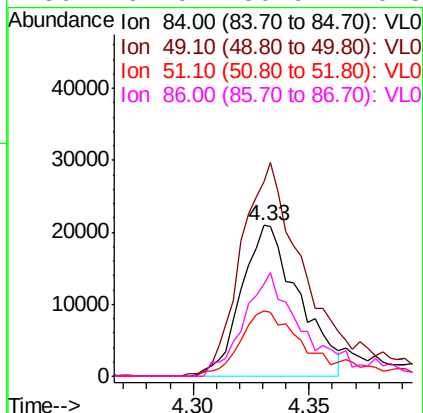
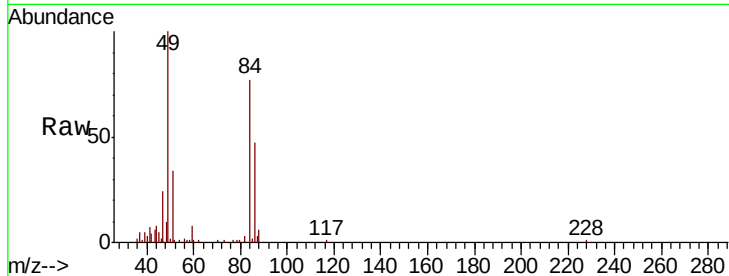




#20
Methvlene Chloride
Concen: 0.447 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037089.D
Acq: 2 Jun 2021 3:33

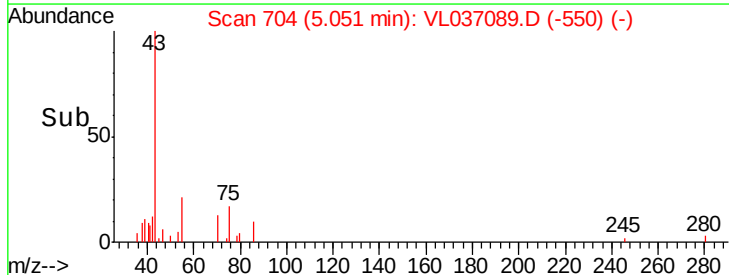
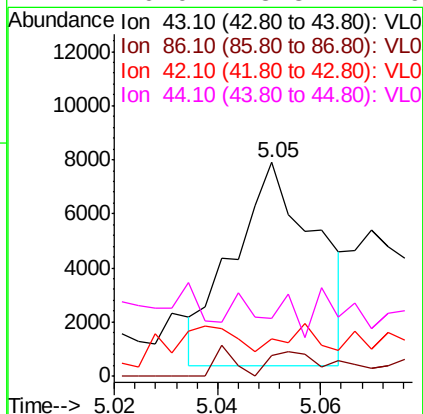
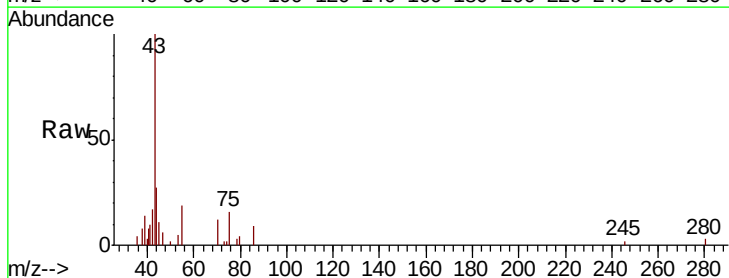
Instrument :
MSVOA_L
ClientSampleId :

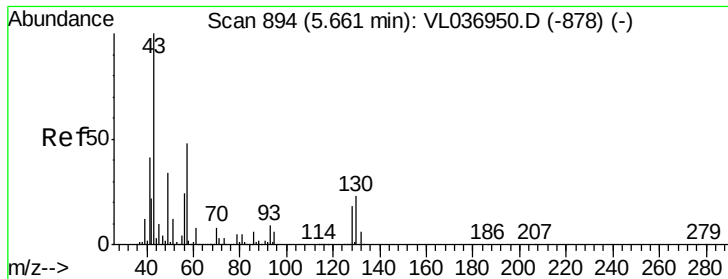
Tot Ion:	84	Resp:	36173
Ion	Ratio	Lower	Upper
84	100		
49	127.9	119.8	179.6
51	43.4	35.1	52.7
86	61.0	50.9	76.3



#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.01 min
Lab File: VL037089.D
Acq: 2 Jun 2021 3:33

Tgt Ion:	43	Resp:	8386
Ion	Ratio	Lower	Upper
43	100		
86	12.9	5.8	8.8#
42	6.8	7.4	11.2#
44	0.0	3.3	4.9#

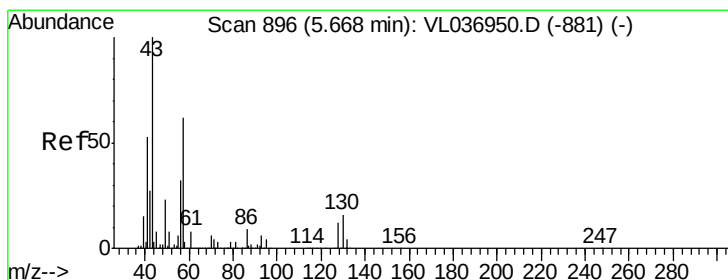
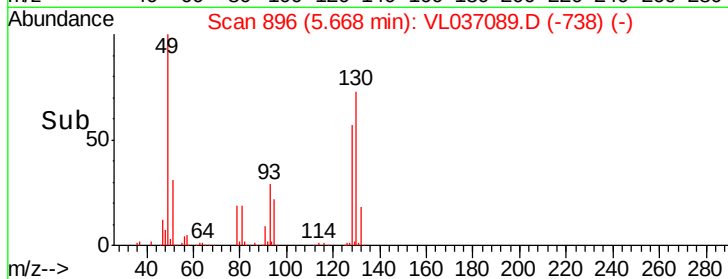
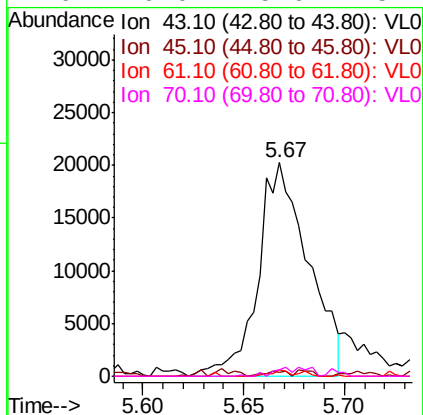
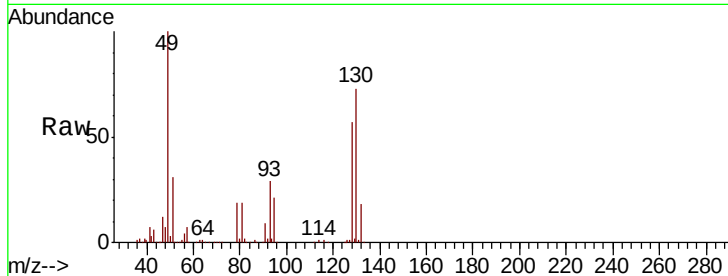




#25
Ethyl Acetate
Concen: 0.096 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL037089.D
Acq: 2 Jun 2021 3:33

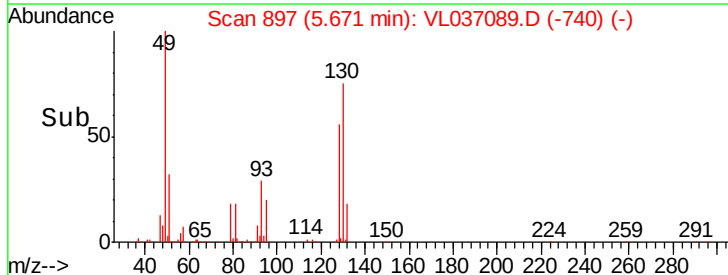
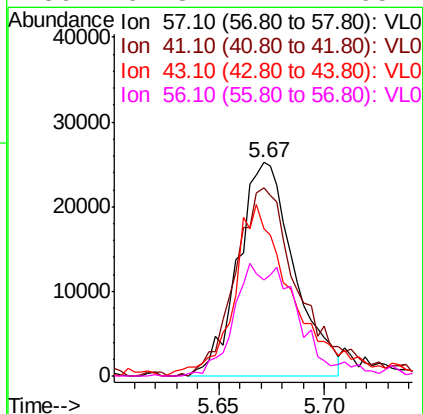
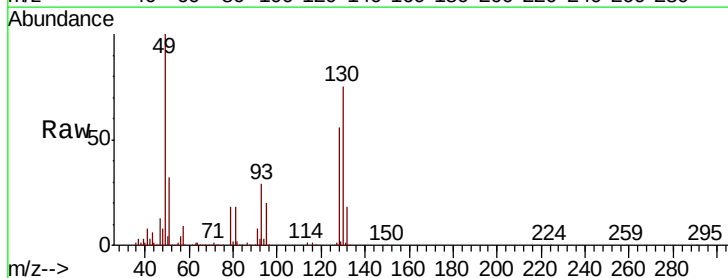
Instrument :
MSVOA_L
ClientSampleId :

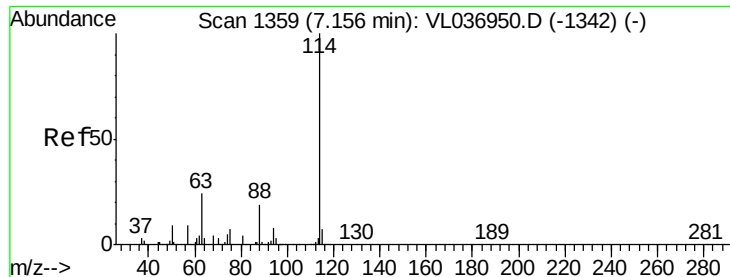
Tot Ion:	43	Resp:	34945
Ion	Ratio	Lower	Upper
43	100		
45	1.0	7.8	11.8#
61	1.5	7.8	11.8#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.252 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037089.D
Acq: 2 Jun 2021 3:33

Tgt Ion:	57	Resp:	46654
Ion	Ratio	Lower	Upper
57	100		
41	102.9	70.5	105.7
43	91.1	165.8	248.8#
56	61.8	42.2	63.4

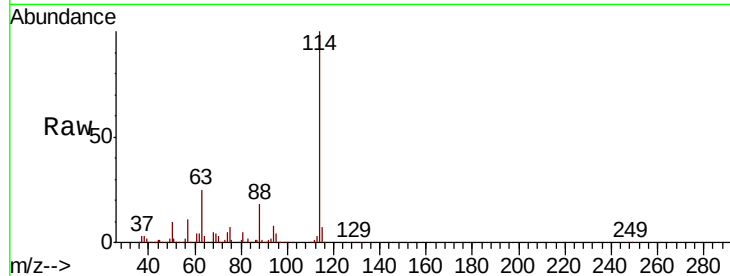




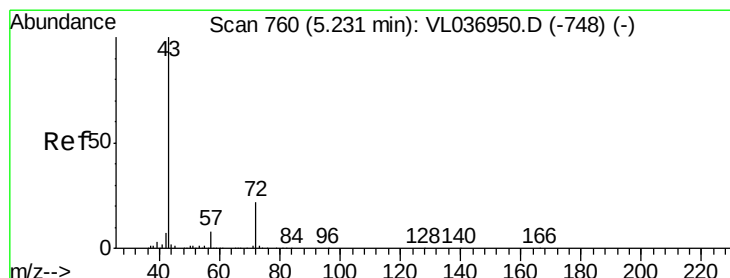
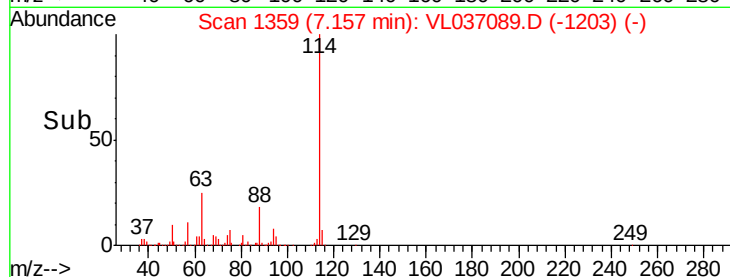
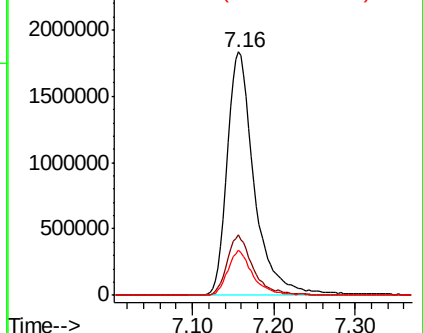
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL037089.D
 Acq: 2 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4295478
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.6 29.4
 88 17.4 14.6 21.8

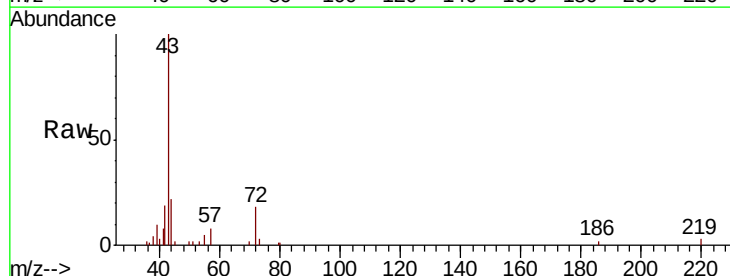


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

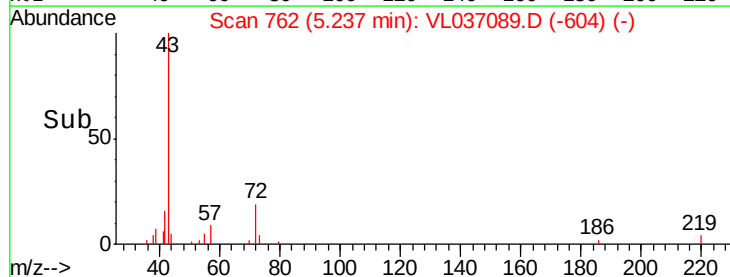
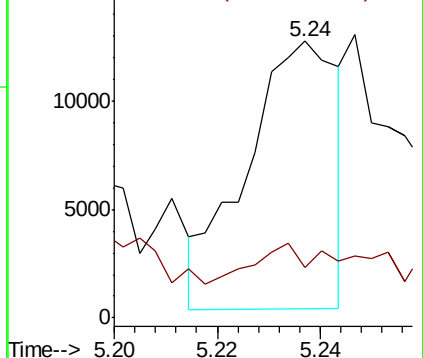


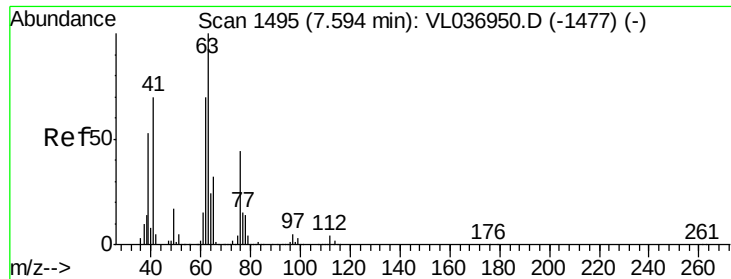
#34
 2-Butanone
 Concen: 0.096 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL037089.D
 Acq: 2 Jun 2021 3:33

Tgt Ion: 43 Resp: 15082
 Ion Ratio Lower Upper
 43 100
 72 46.1 19.0 28.4#



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





#39

1,2-Dichloropropane

Concen: 7.038 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL037089.D

Acq: 2 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

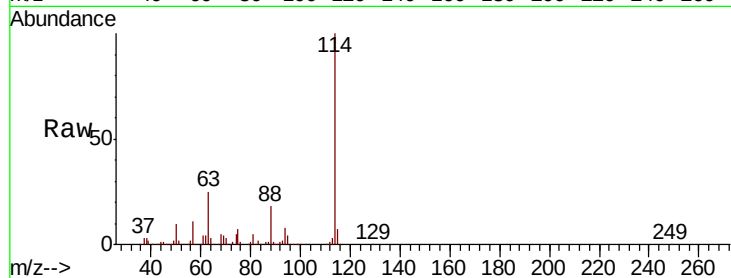
Tot Ion: 63 Resp: 1003116

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

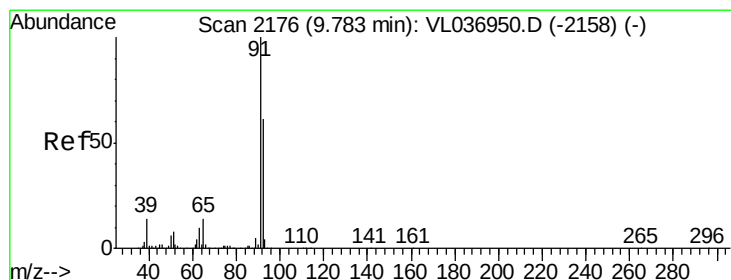
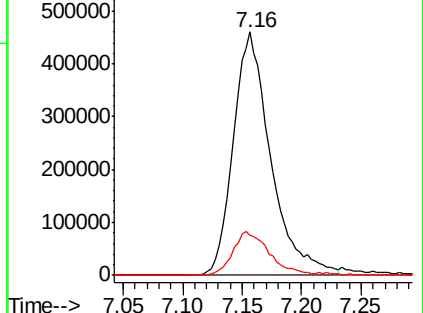
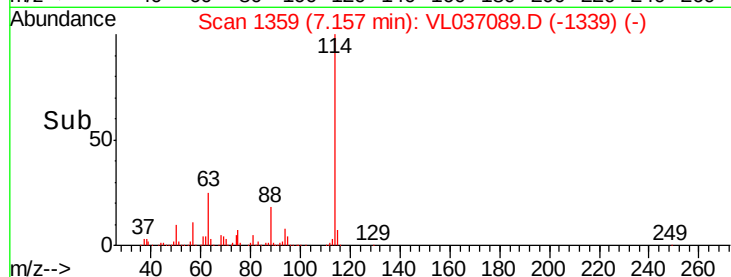
62 16.7 56.2 84.4#



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: 0.068 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037089.D

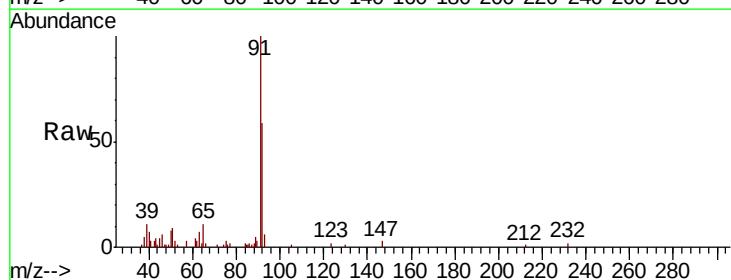
Acq: 2 Jun 2021 3:33

Tgt Ion: 91 Resp: 29796

Ion Ratio Lower Upper

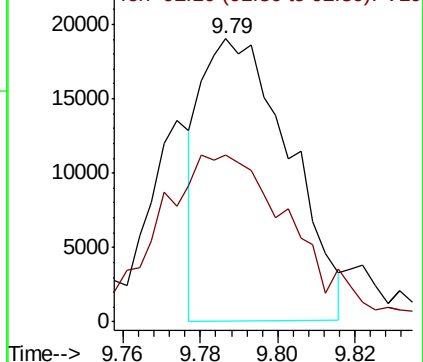
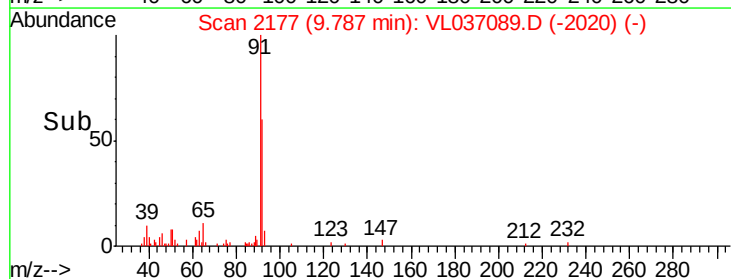
91 100

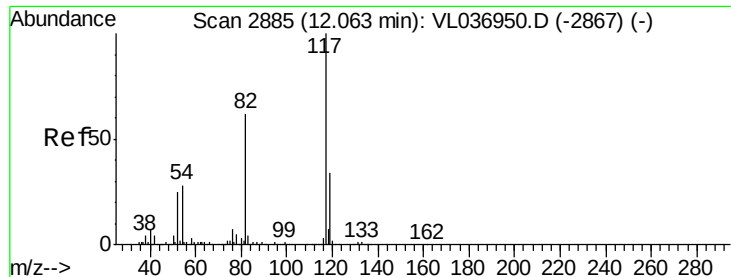
92 94.0 49.5 74.3#



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: 12.06 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VL037089.D

Acq: 2 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

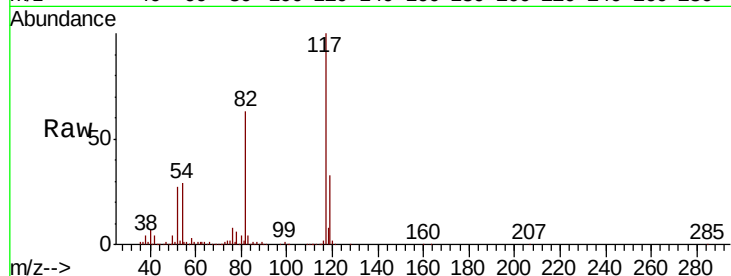
Tot Ion:117 Resp: 3881023

Ion Ratio Lower Upper

117 100

82 64.2 52.6 79.0

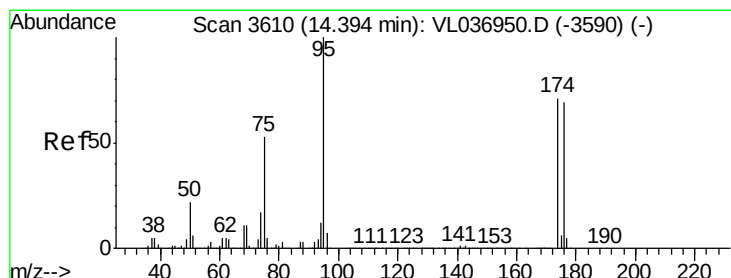
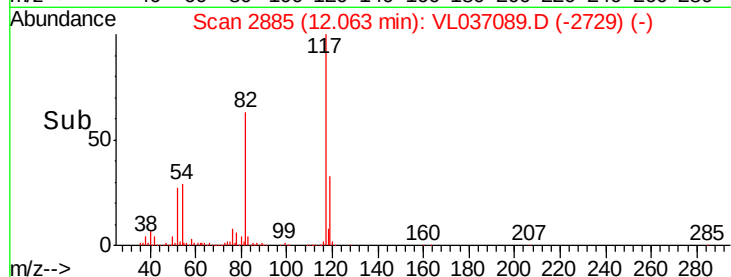
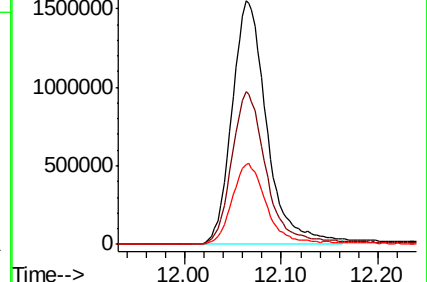
119 34.2 46.6 70.0#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.388 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037089.D

Acq: 2 Jun 2021 3:33

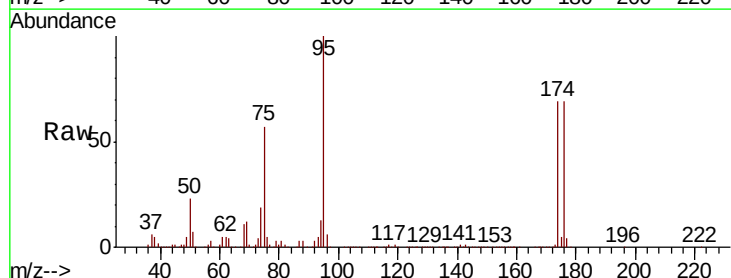
Tgt Ion: 95 Resp: 2736941

Ion Ratio Lower Upper

95 100

174 78.2 58.4 87.6

175 5.8 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

