

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036556.D
 Acq On : 30 Mar 2021 2:23
 Operator : SY/AP
 Sample : M1759-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

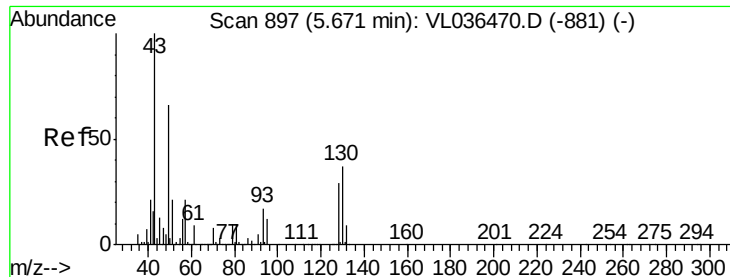
Quant Time: Mar 30 06:45:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1459682	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3208527	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	2751118	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2216631	10.11	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	58406	0.245 ppbv	98
3) Chlorodifluoromethane	2.97	51	91522	0.336 ppbv #	90
4) Chloromethane	3.13	50	121449	1.261 ppbv	89
7) Chloroethane	3.54	64	1961	0.058 ppbv	100
9) Propene	3.01	41	74330	0.855 ppbv	85
11) Trichlorofluoromethane	3.93	101	38466	0.159 ppbv	84
13) Ethanol	3.59	45	65644	6.340 ppbv #	23
15) Acetone	3.83	43	991225	6.899 ppbv	99
16) 1,3-Butadiene	3.29	39	26686	0.267 ppbv #	34
19) Isopropyl Alcohol	3.97	45	12221	0.155 ppbv #	89
20) Methylene Chloride	4.33	84	259352	3.856 ppbv	97
25) Ethyl Acetate	5.66	43	16517	0.048 ppbv #	89
26) Hexane	5.66	57	26063	0.164 ppbv #	39
34) 2-Butanone	5.23	43	10737	0.069 ppbv #	55
39) 1,2-Dichloropropane	7.22	63	10799	0.090 ppbv #	23

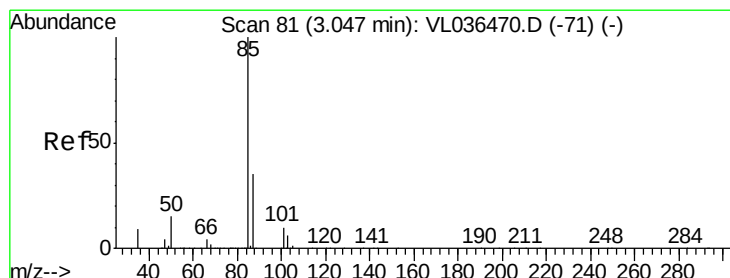
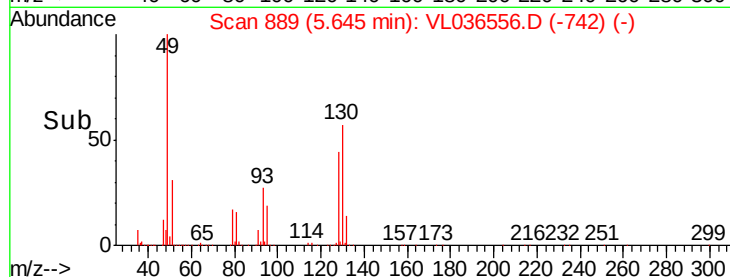
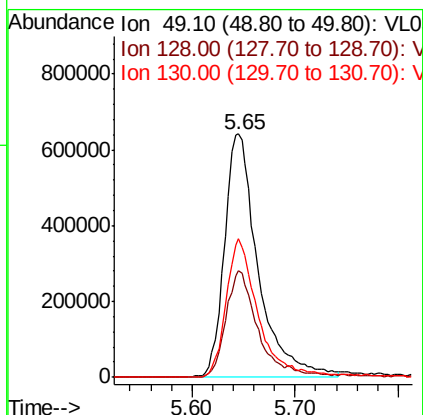
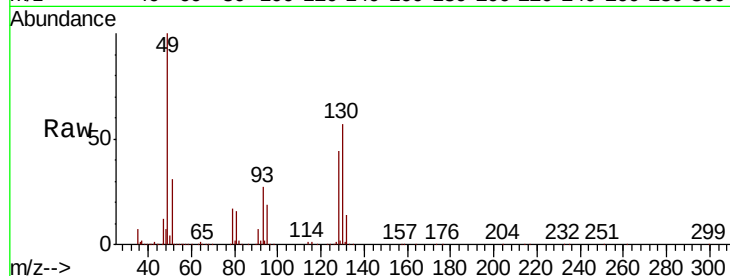
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 889
 Delta R.T. -0.03 min
 Lab File: VL036556.D
 Acq: 30 Mar 2021 2:23

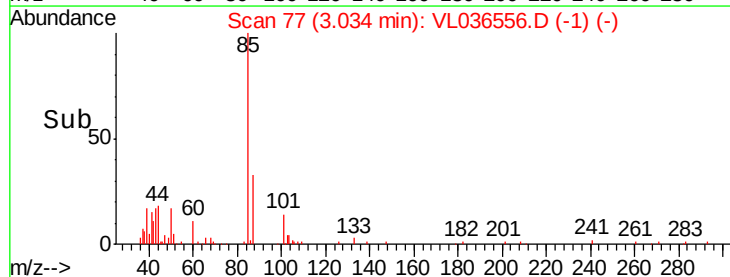
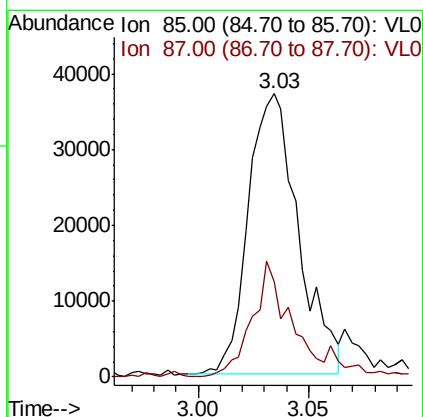
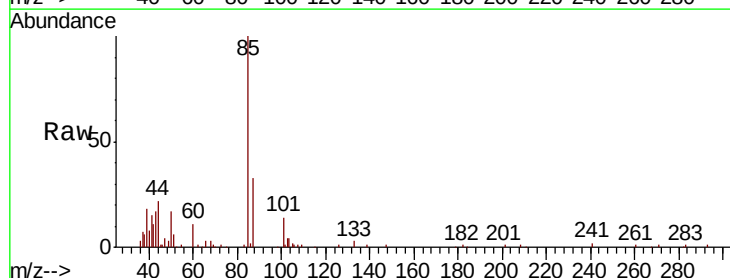
Instrument :
 MSVOA_L
 ClientSampleId :

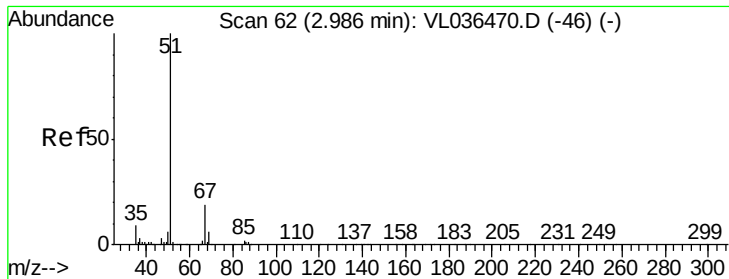
Tot Ion: 49 Resp: 1459682
 Ion Ratio Lower Upper
 49 100
 128 42.8 23.5 70.6
 130 55.5 29.1 87.4



#2
 Dichlorodifluoromethane
 Concen: 0.245 ppbv
 RT: 3.03 min Scan# 77
 Delta R.T. -0.01 min
 Lab File: VL036556.D
 Acq: 30 Mar 2021 2:23

Tgt Ion: 85 Resp: 58406
 Ion Ratio Lower Upper
 85 100
 87 33.8 27.8 41.8

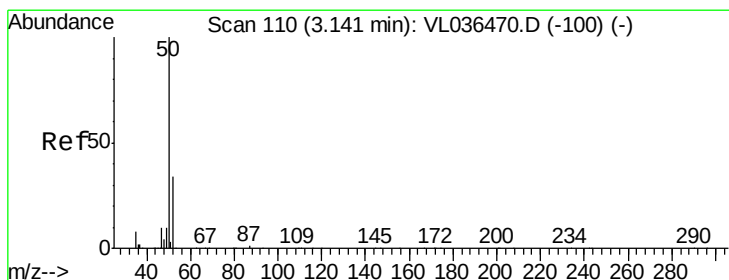
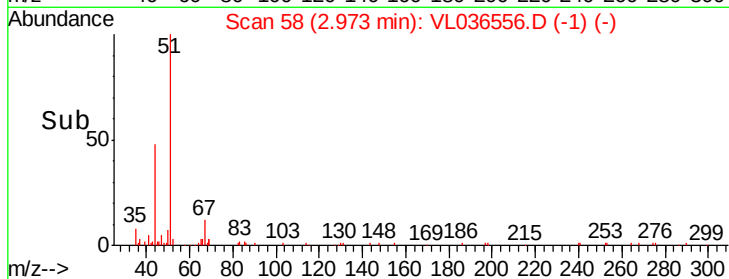
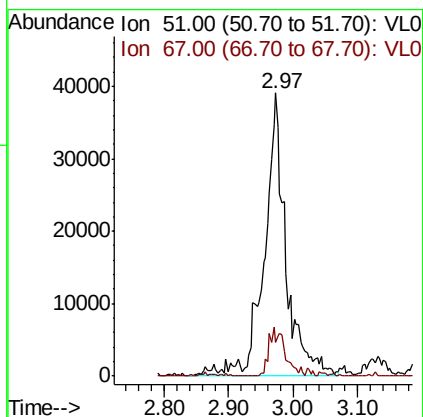
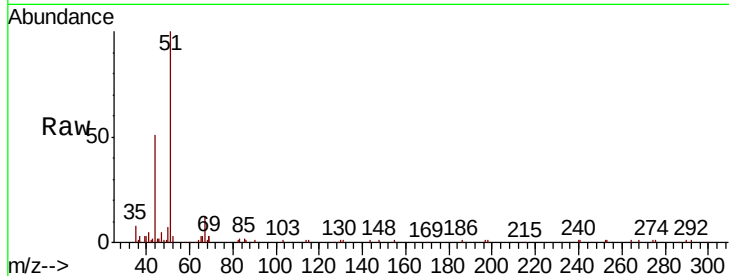




#3
Chlorodifluoromethane
Concen: 0.336 ppbv
RT: 2.97 min Scan# 58
Delta R.T. -0.01 min
Lab File: VL036556.D
Acq: 30 Mar 2021 2:23

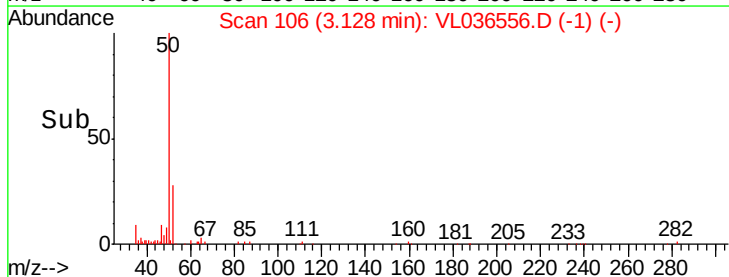
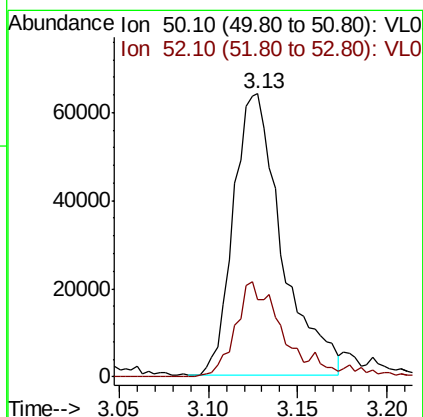
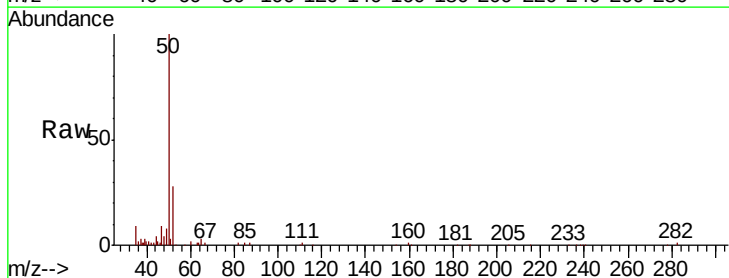
Instrument :
MSVOA_L
ClientSampleId :

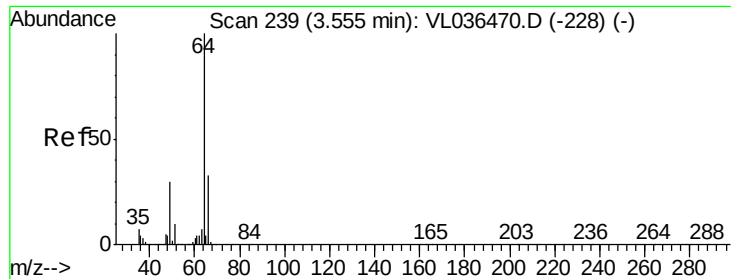
Tot Ion: 51 Resp: 91522
Ion Ratio Lower Upper
51 100
67 13.8 14.7 22.1#



#4
Chloromethane
Concen: 1.261 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.01 min
Lab File: VL036556.D
Acq: 30 Mar 2021 2:23

Tgt Ion: 50 Resp: 121449
Ion Ratio Lower Upper
50 100
52 27.6 27.0 40.6





#7

Chloroethane

Concen: 0.058 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.02 min

Lab File: VL036556.D

Acq: 30 Mar 2021 2:23

Instrument :

MSVOA_L

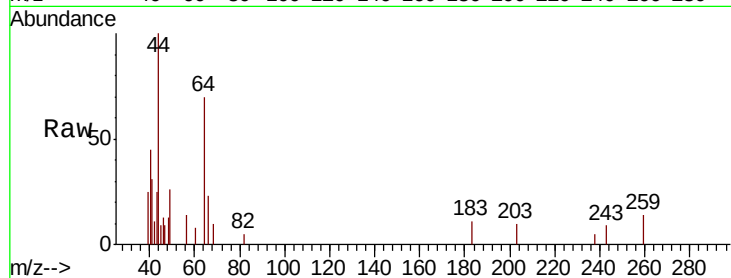
ClientSampleId :

Tot Ion: 64 Resp: 1961

Ion Ratio Lower Upper

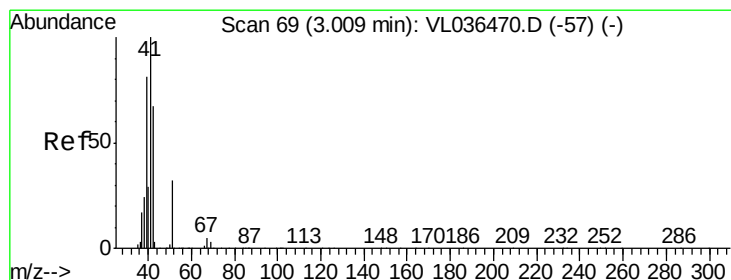
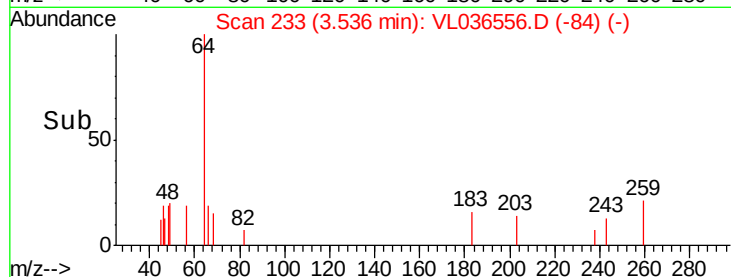
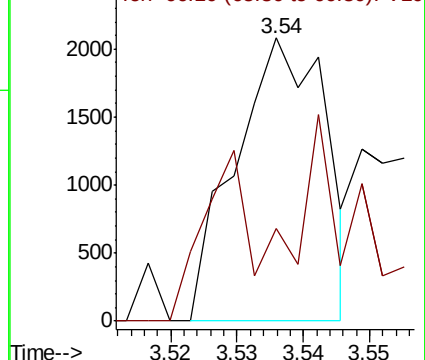
64 100

66 32.7 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.855 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036556.D

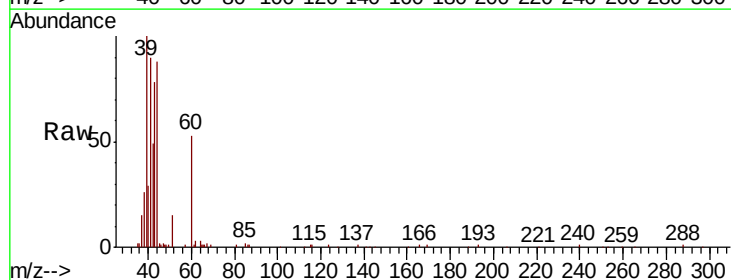
Acq: 30 Mar 2021 2:23

Tgt Ion: 41 Resp: 74330

Ion Ratio Lower Upper

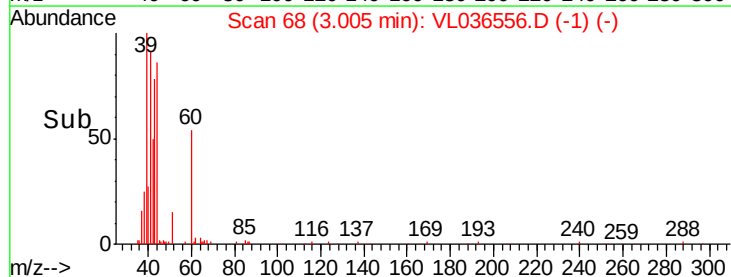
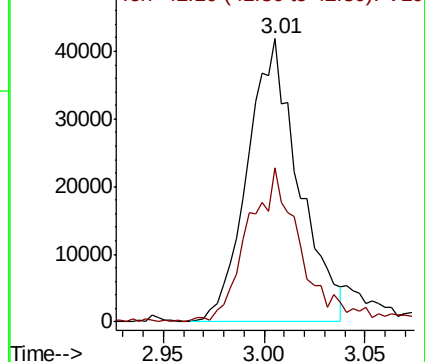
41 100

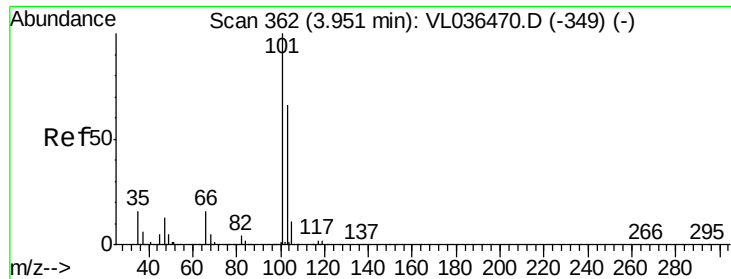
42 58.6 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.159 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL036556.D

Acq: 30 Mar 2021 2:23

Instrument :

MSVOA_L

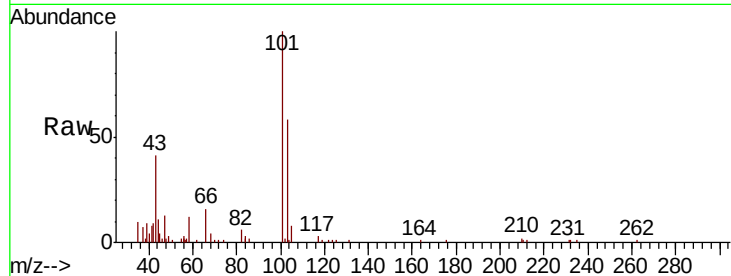
ClientSampleId :

Tot Ion:101 Resp: 38466

Ion Ratio Lower Upper

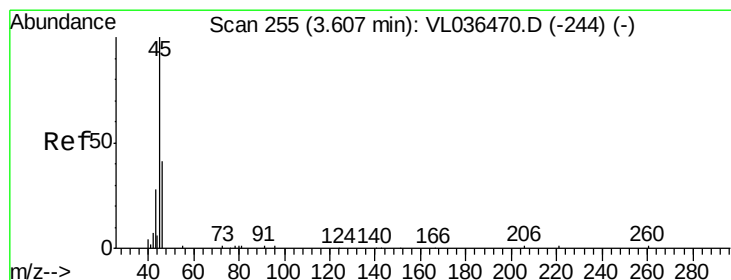
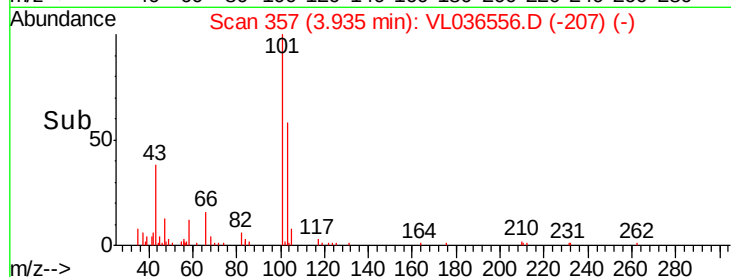
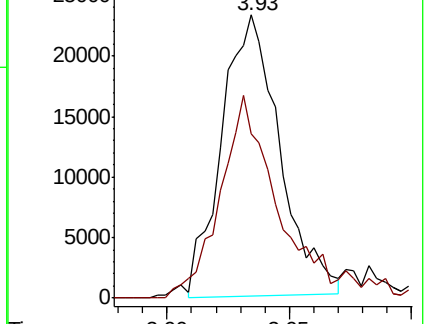
101 100

103 52.6 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 6.340 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL036556.D

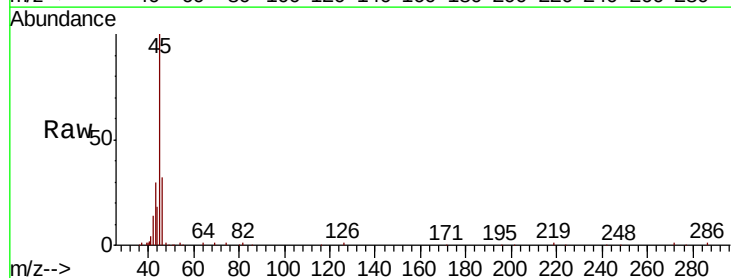
Acq: 30 Mar 2021 2:23

Tgt Ion: 45 Resp: 65644

Ion Ratio Lower Upper

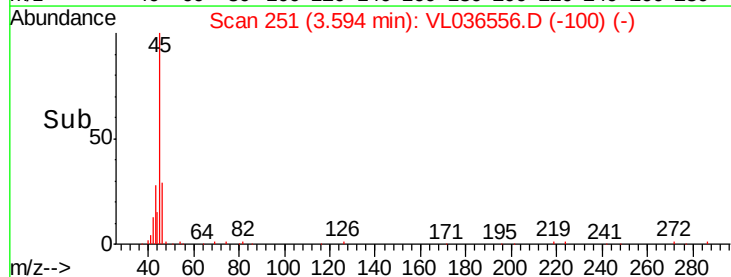
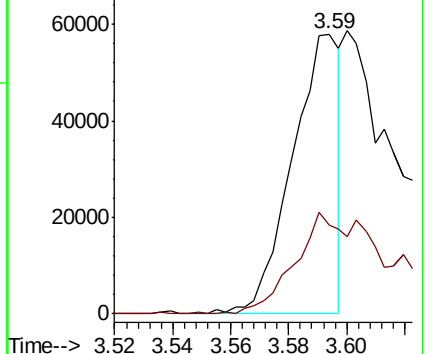
45 100

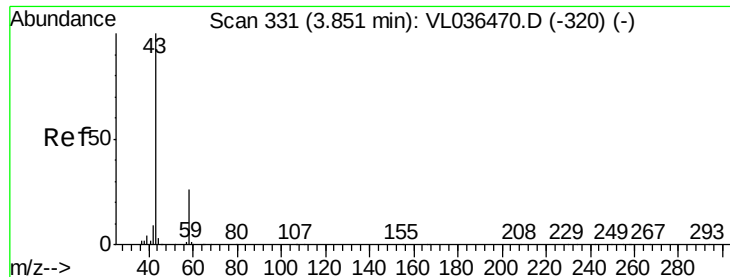
46 89.8 16.6 66.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.899 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL036556.D

Acq: 30 Mar 2021 2:23

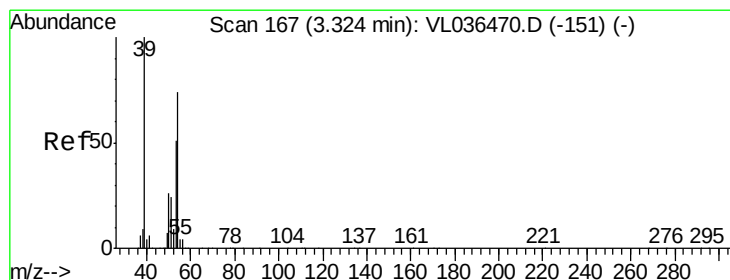
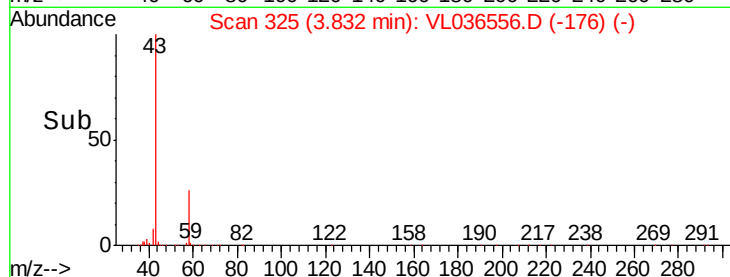
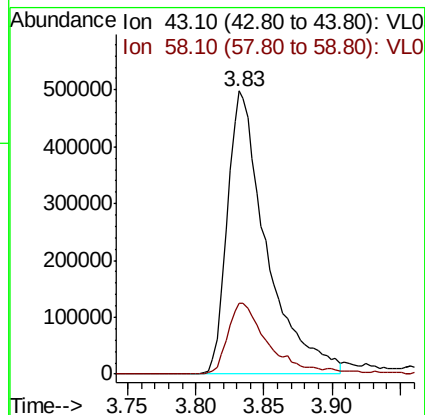
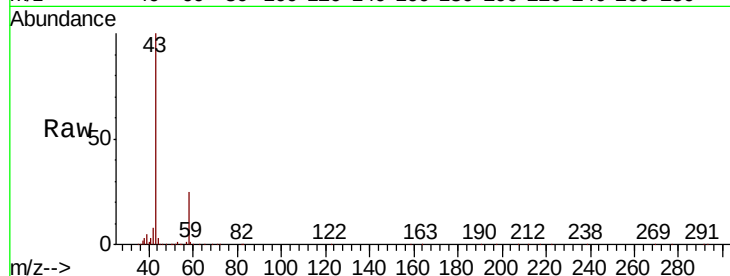
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 991225

Ion Ratio Lower Upper

43 100

58 26.9 21.2 31.8



#16

1,3-Butadiene

Concen: 0.267 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.04 min

Lab File: VL036556.D

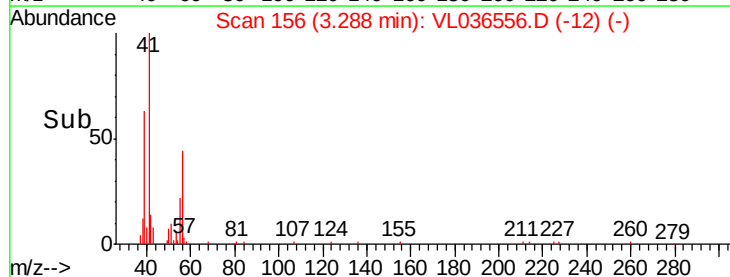
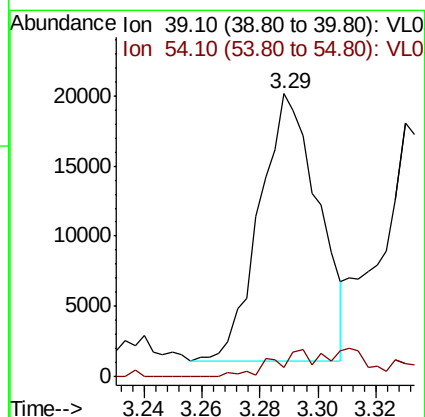
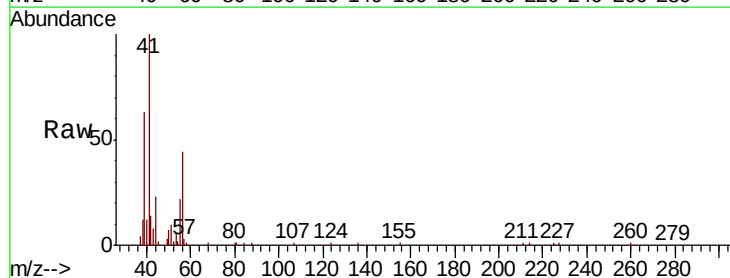
Acq: 30 Mar 2021 2:23

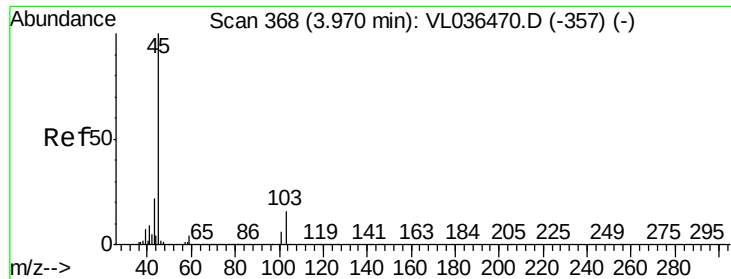
Tgt Ion: 39 Resp: 26686

Ion Ratio Lower Upper

39 100

54 18.2 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 0.155 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL036556.D

Acq: 30 Mar 2021 2:23

Instrument :

MSVOA_L

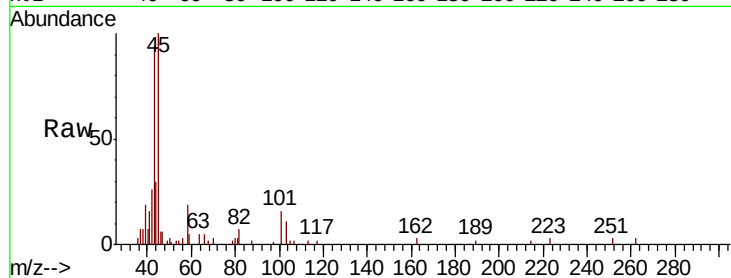
ClientSampleId :

Tot Ion: 45 Resp: 12221

Ion Ratio Lower Upper

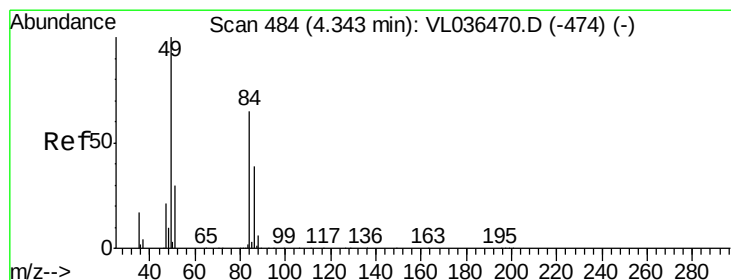
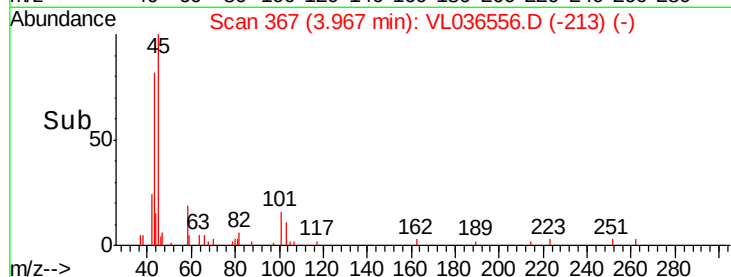
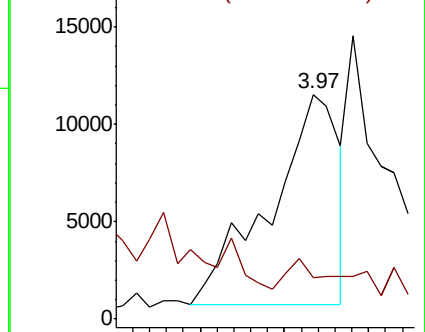
45 100

58 0.0 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 3.856 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL036556.D

Acq: 30 Mar 2021 2:23

Tgt Ion: 84 Resp: 259352

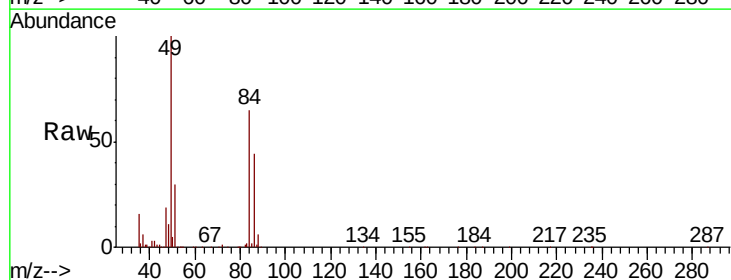
Ion Ratio Lower Upper

84 100

49 154.5 122.9 184.3

51 46.9 36.9 55.3

86 67.4 48.2 72.4

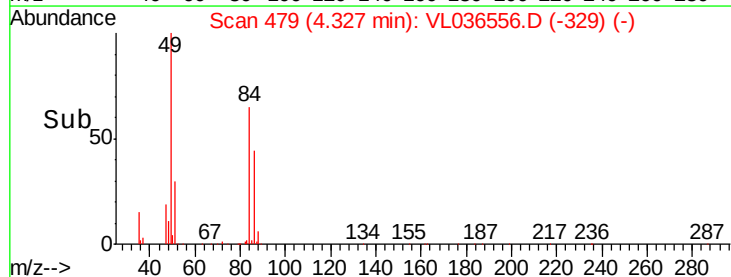
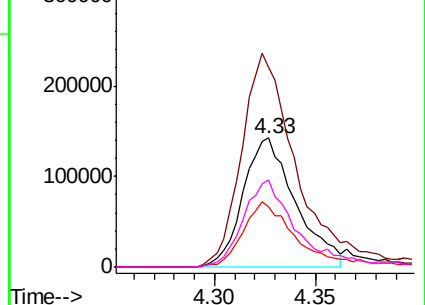


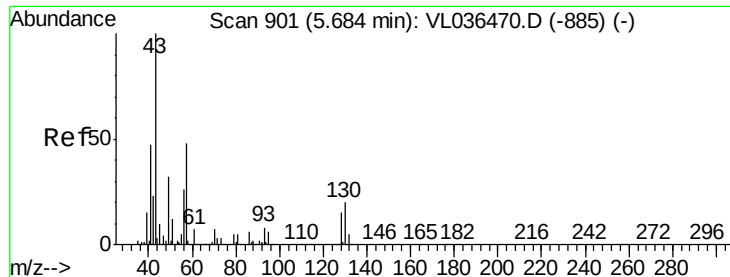
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

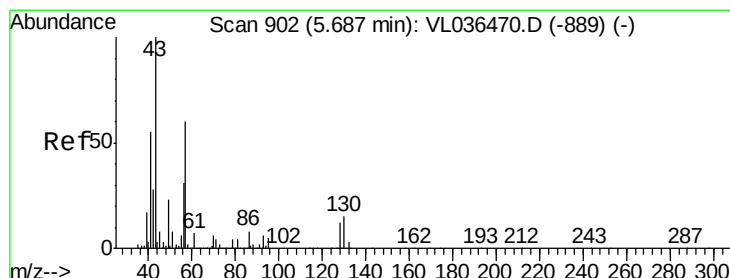
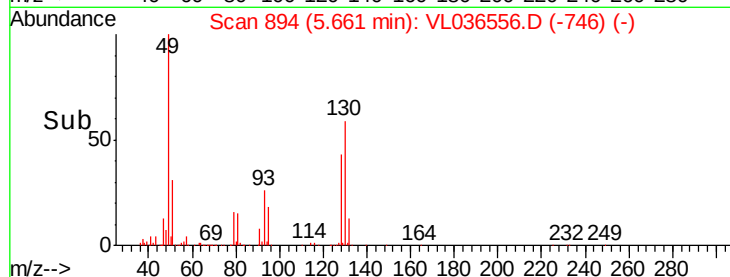
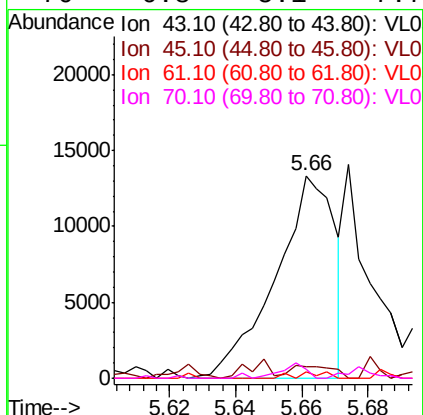
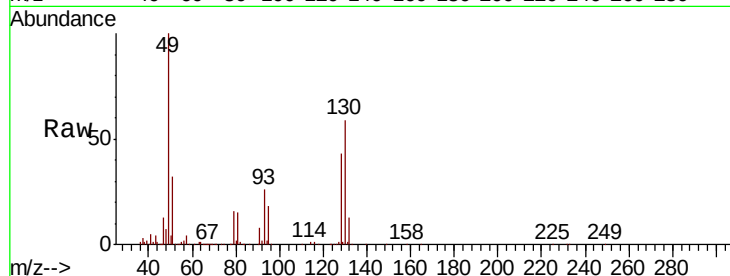




#25
Ethyl Acetate
Concen: 0.048 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL036556.D
Acq: 30 Mar 2021 2:23

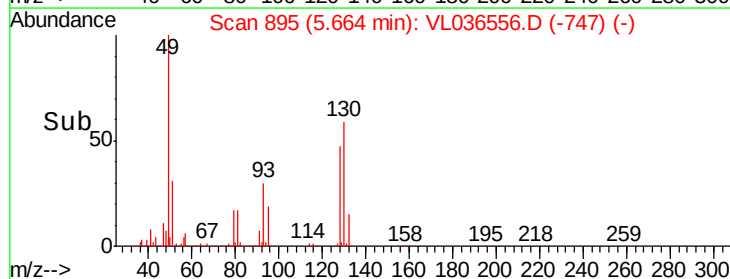
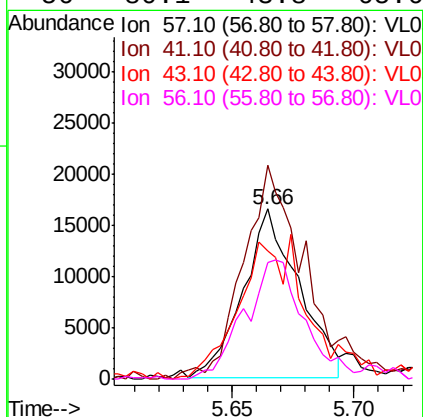
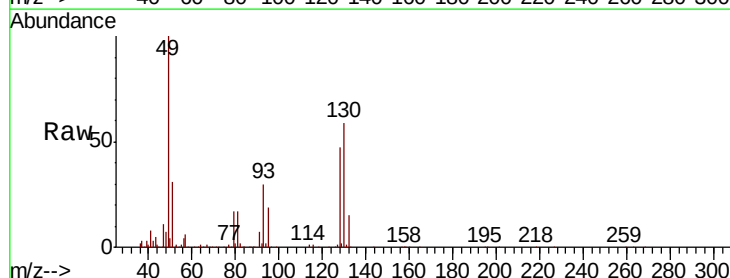
Instrument :
MSVOA_L
ClientSampled :

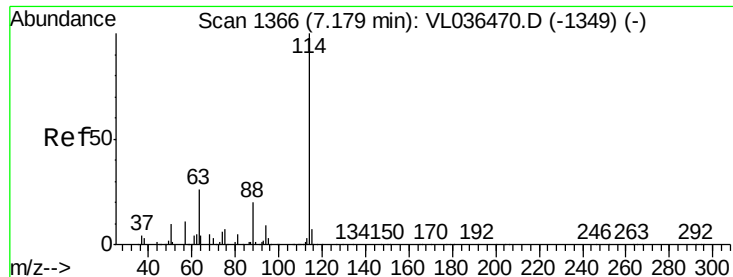
Tot Ion:	43	Resp:	16517
Ion	Ratio	Lower	Upper
43	100		
45	7.1	7.9	11.9#
61	1.7	7.4	11.2#
70	6.8	5.1	7.7



#26
Hexane
Concen: 0.164 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036556.D
Acq: 30 Mar 2021 2:23

Tgt Ion:	57	Resp:	26063
Ion	Ratio	Lower	Upper
57	100		
41	148.5	77.2	115.8#
43	104.5	173.8	260.6#
56	80.1	43.8	65.6#

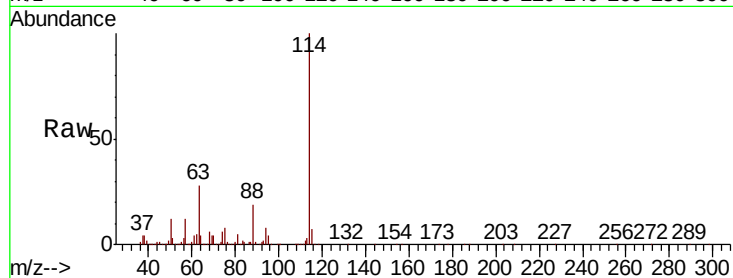




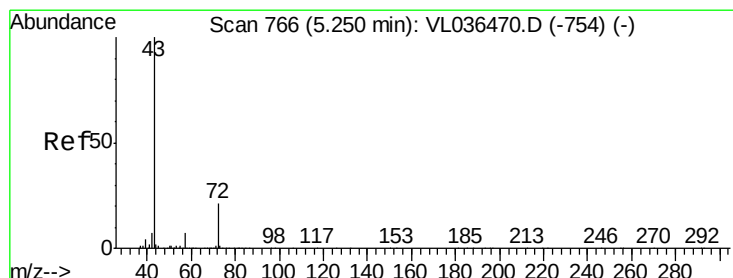
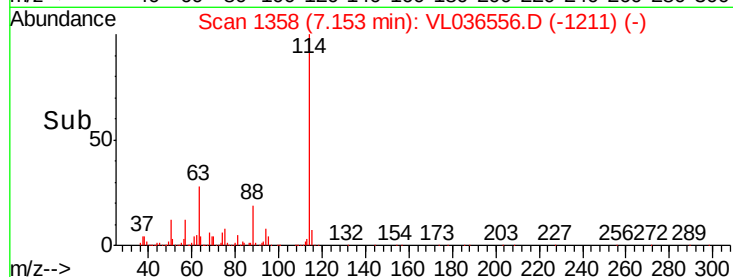
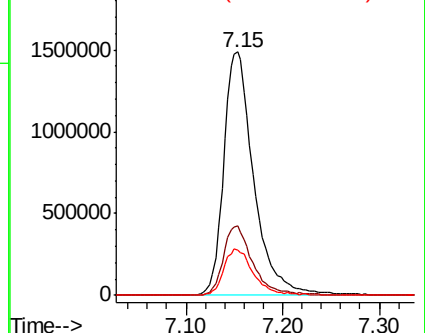
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.03 min
 Lab File: VL036556.D
 Acq: 30 Mar 2021 2:23

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3208527
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.4 33.6
 88 19.2 15.4 23.0

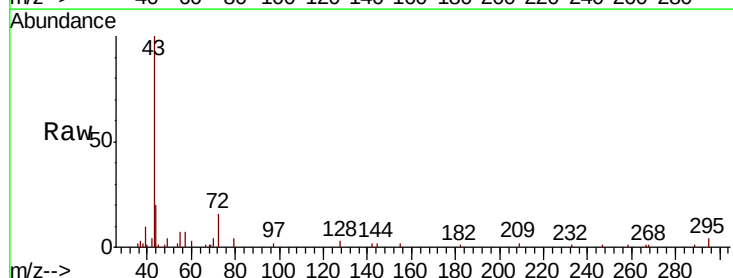


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

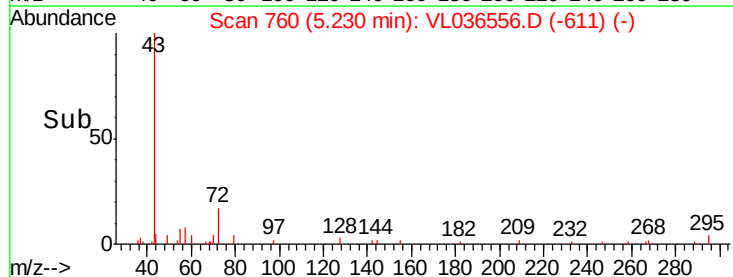
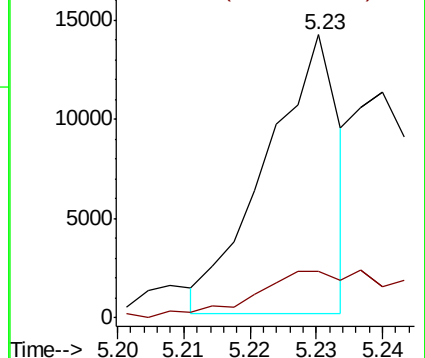


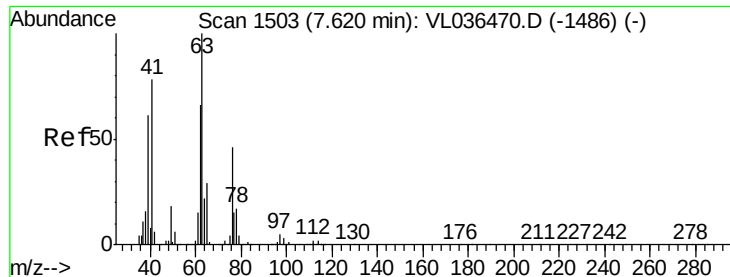
#34
 2-Butanone
 Concen: 0.069 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL036556.D
 Acq: 30 Mar 2021 2:23

Tgt Ion: 43 Resp: 10737
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#



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

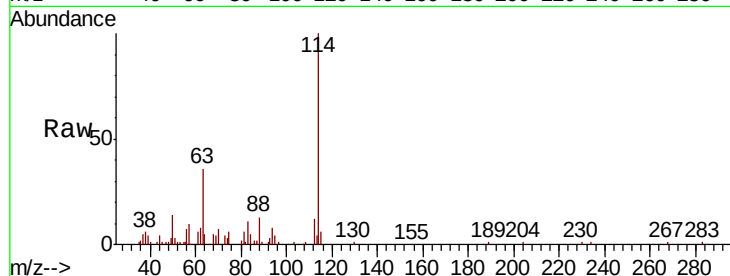




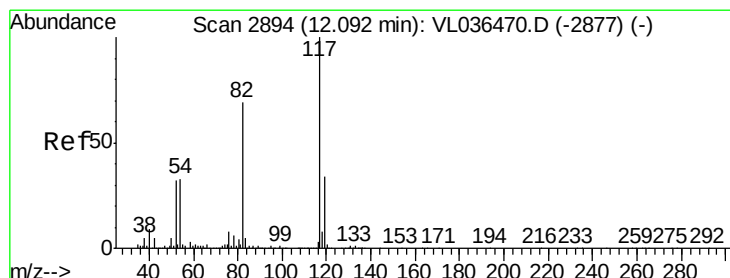
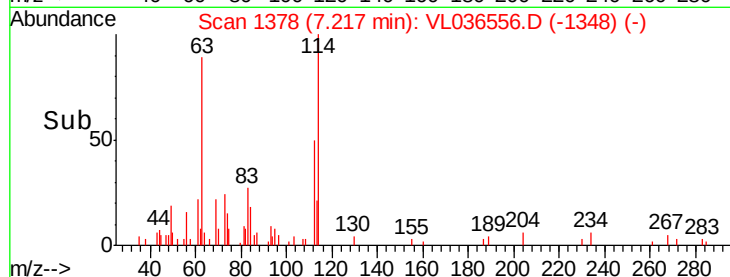
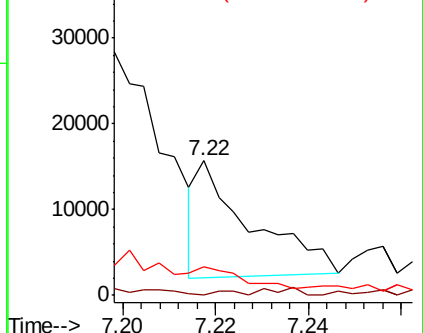
#39
 1,2-Dichloropropane
 Concen: 0.090 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.40 min
 Lab File: VL036556.D
 Acq: 30 Mar 2021 2:23

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 10799
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 16.3 52.8 79.2#

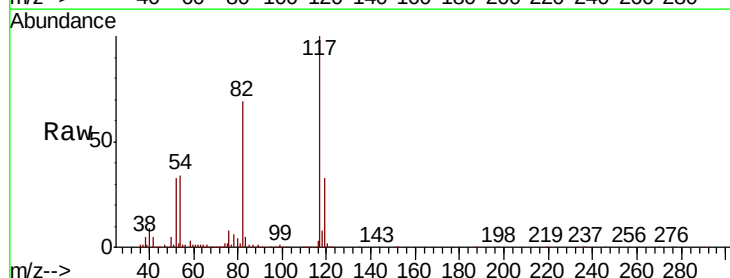


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

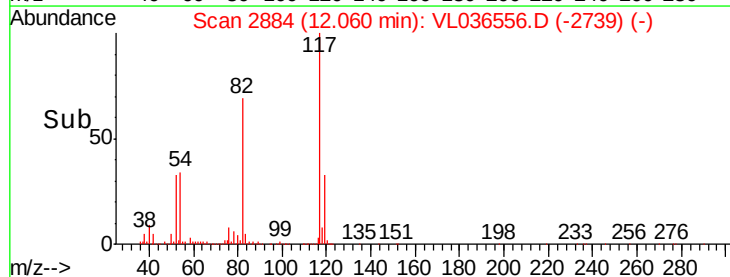
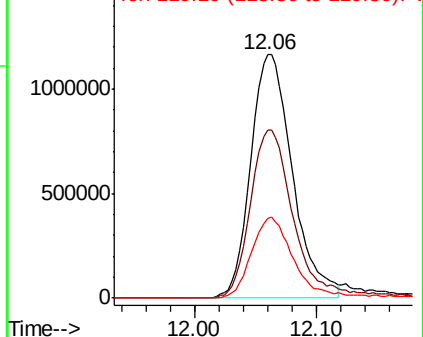


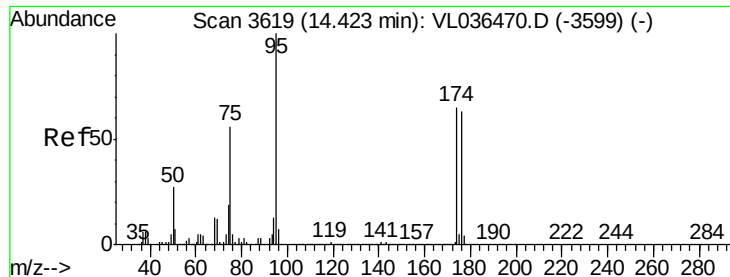
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min Scan# 2884
 Delta R.T. -0.03 min
 Lab File: VL036556.D
 Acq: 30 Mar 2021 2:23

Tgt Ion: 117 Resp: 2751118
 Ion Ratio Lower Upper
 117 100
 82 73.0 57.4 86.0
 119 34.5 47.4 71.0#



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: 10.109 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL036556.D

Acq: 30 Mar 2021 2:23

Instrument :

MSVOA_L

ClientSampleId :

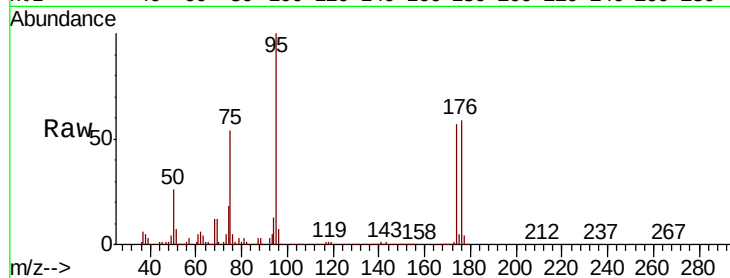
Tot Ion: 95 Resp: 2216631

Ion Ratio Lower Upper

95 100

174 65.2 51.0 76.6

175 4.9 3.9 5.9



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

