

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036551.D
 Acq On : 29 Mar 2021 23:00
 Operator : SY/AP
 Sample : M1759-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 06:43:59 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	1537482	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3483299	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3198659	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2462693	9.66	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

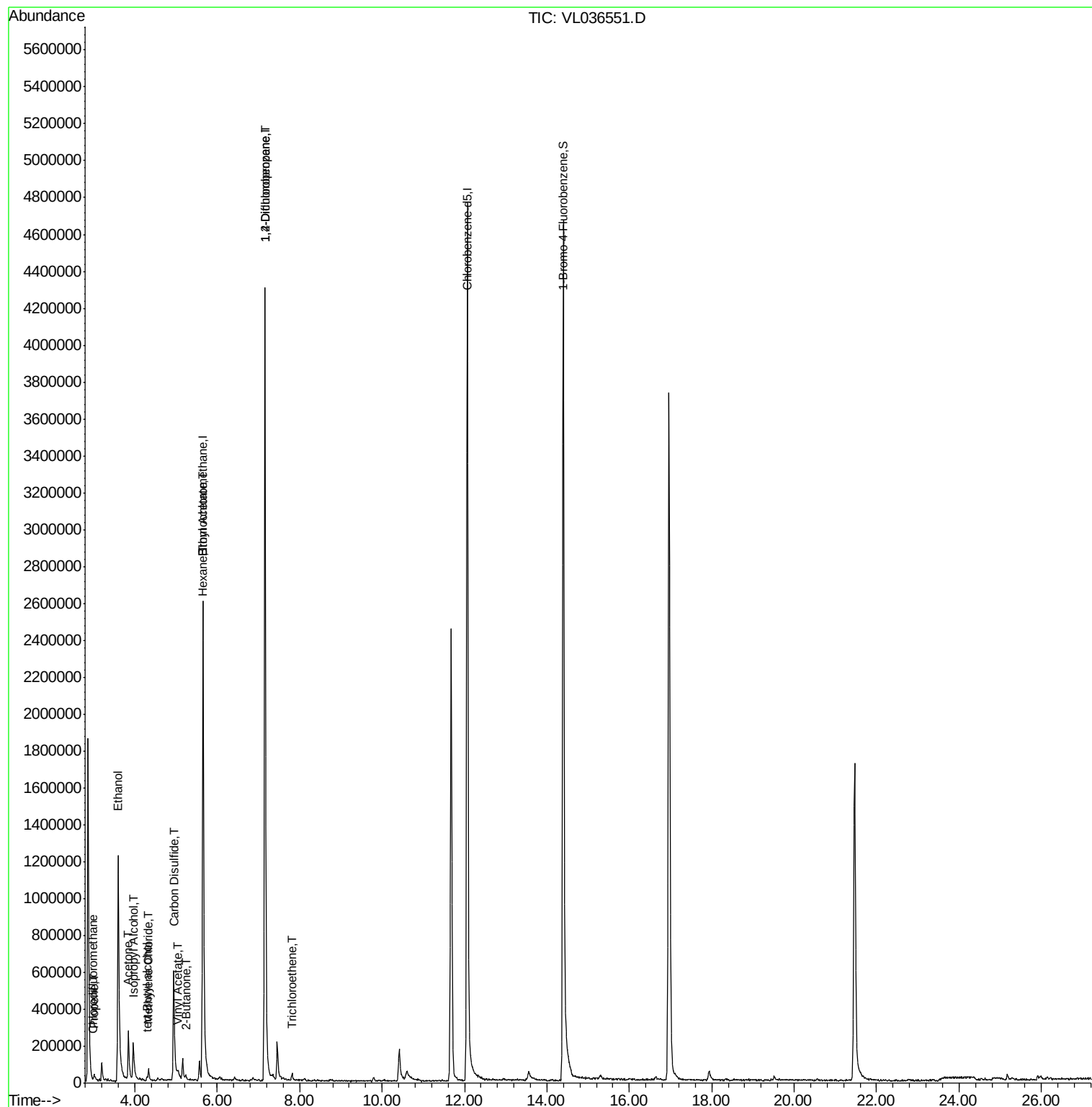
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	9138	0.032	ppbv #	88
9) Propene	3.01	41	8227	0.090	ppbv	94
13) Ethanol	3.59	45	1603524	147.041	ppbv	99
15) Acetone	3.84	43	309860	2.048	ppbv #	87
17) tert-Butyl alcohol	4.29	59	5522	0.042	ppbv #	72
19) Isopropyl Alcohol	3.96	45	240208	2.886	ppbv #	95
20) Methylene Chloride	4.33	84	22152	0.313	ppbv	95
23) Vinyl Acetate	5.05	43	29226	0.113	ppbv #	89
25) Ethyl Acetate	5.66	43	29059	0.081	ppbv #	57
26) Hexane	5.66	57	9367	0.056	ppbv #	1
27) Carbon Disulfide	4.94	76	51164	0.311	ppbv #	62
34) 2-Butanone	5.24	43	18021	0.106	ppbv #	42
38) Trichloroethene	7.81	130	8269	0.066	ppbv #	38
39) 1,2-Dichloropropane	7.16	63	954813	7.327	ppbv #	24

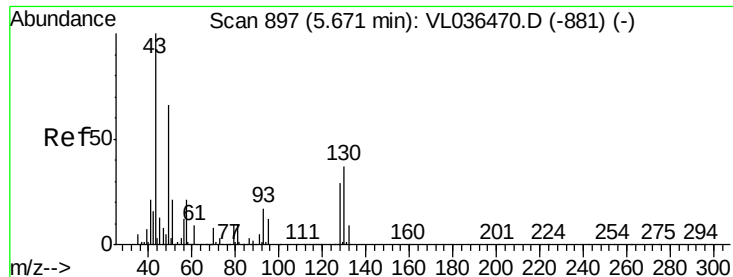
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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

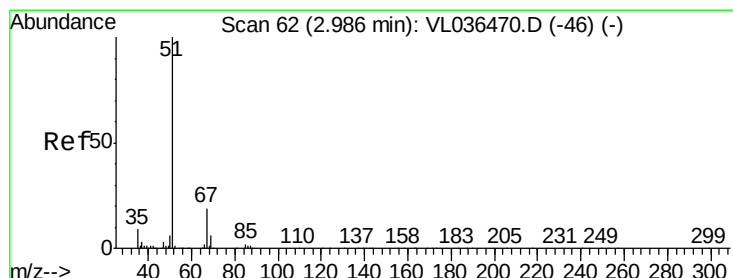
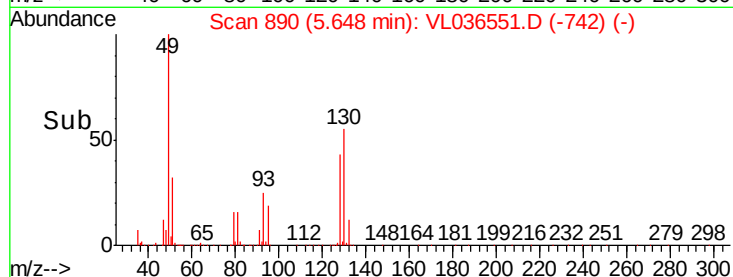
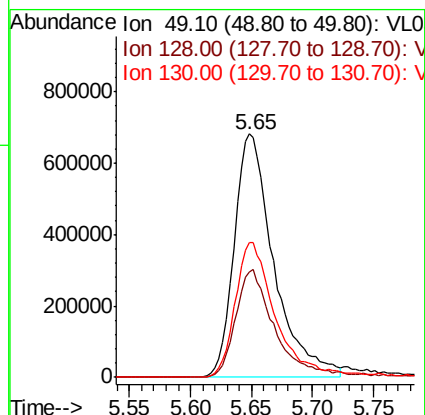
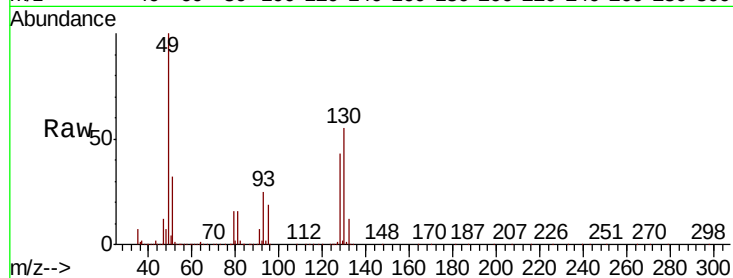




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL036551.D
Acq: 29 Mar 2021 23:00

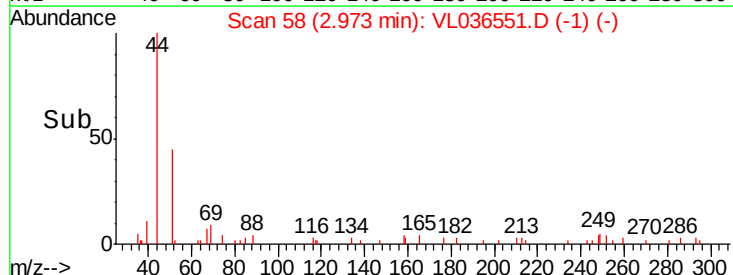
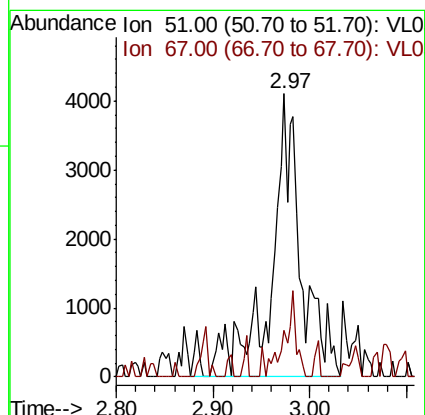
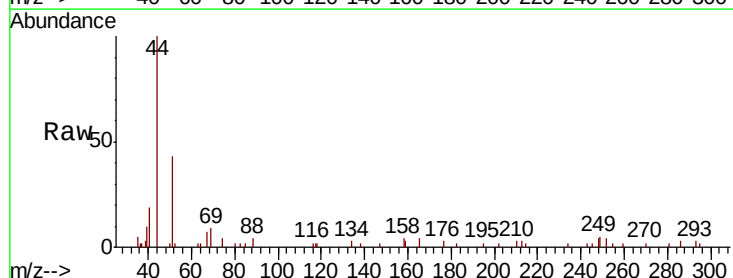
Instrument :
MSVOA_L
ClientSampleId :

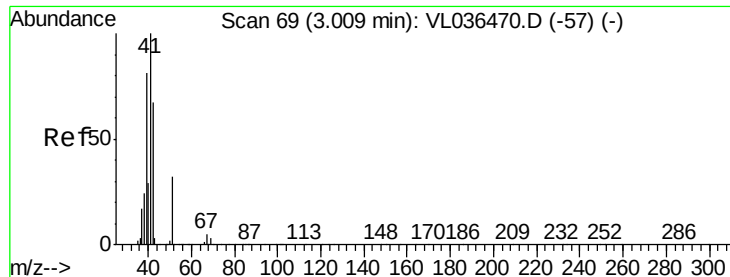
Tot Ion: 49 Resp: 1537482
Ion Ratio Lower Upper
49 100
128 45.4 23.5 70.6
130 58.5 29.1 87.4



#3
Chlorodifluoromethane
Concen: 0.032 ppbv
RT: 2.97 min Scan# 58
Delta R.T. -0.01 min
Lab File: VL036551.D
Acq: 29 Mar 2021 23:00

Tgt Ion: 51 Resp: 9138
Ion Ratio Lower Upper
51 100
67 13.1 14.7 22.1#





#9

Propene

Concen: 0.090 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Instrument :

MSVOA_L

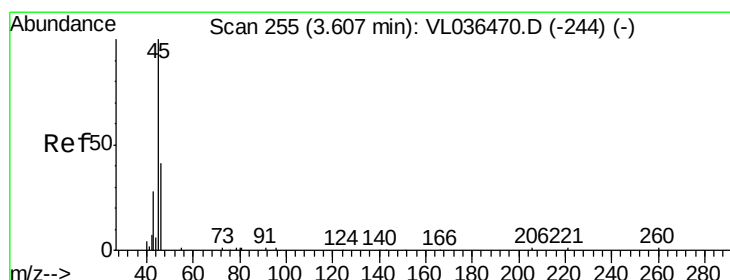
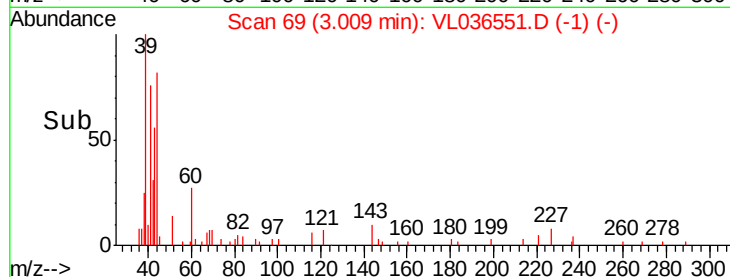
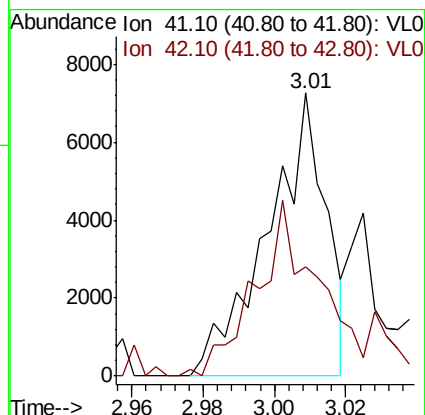
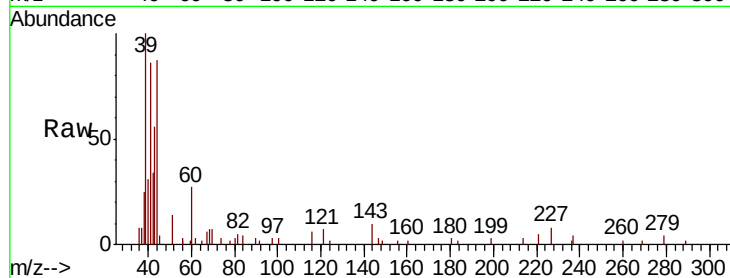
ClientSampled :

Tot Ion: 41 Resp: 8227

Ion Ratio Lower Upper

41 100

42 76.2 57.0 85.4



#13

Ethanol

Concen: 147.041 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL036551.D

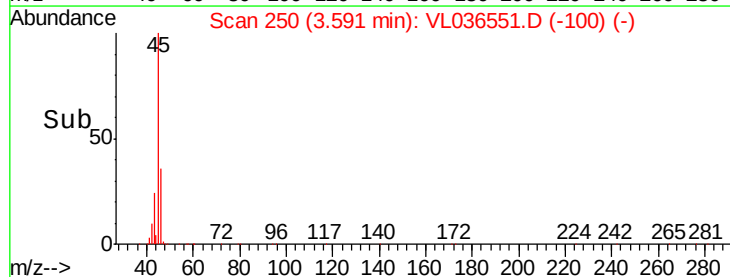
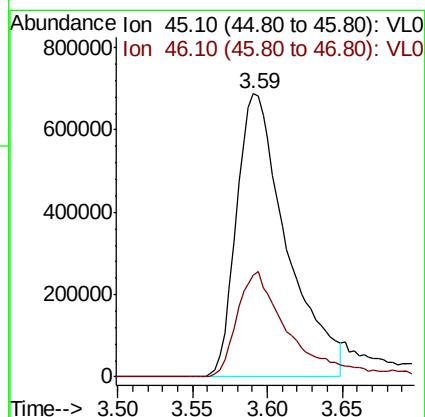
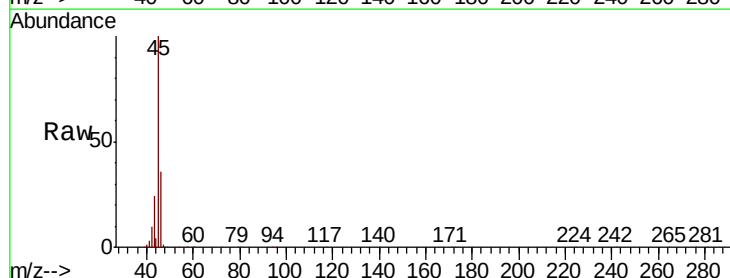
Acq: 29 Mar 2021 23:00

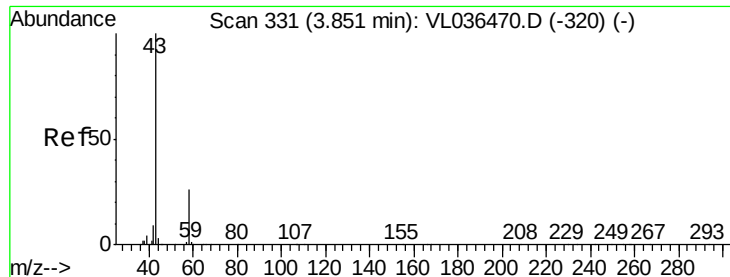
Tgt Ion: 45 Resp: 1603524

Ion Ratio Lower Upper

45 100

46 40.6 16.6 66.2





#15

Acetone

Concen: 2.048 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Instrument :

MSVOA_L

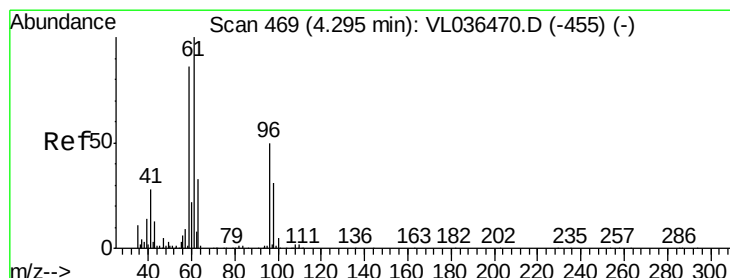
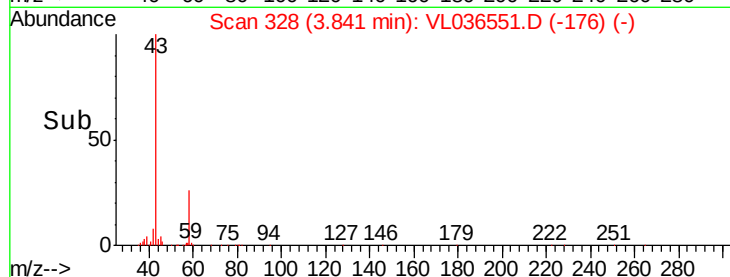
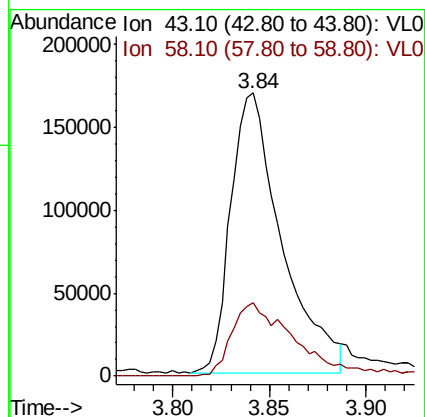
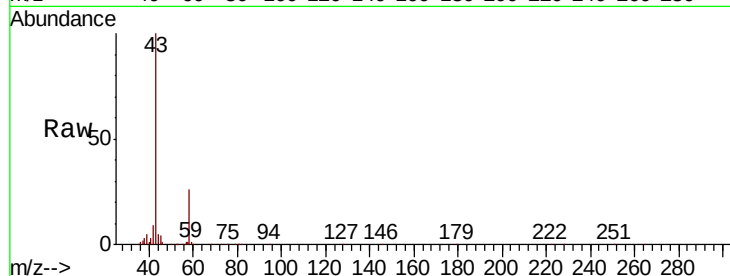
ClientSampleId :

Tot Ion: 43 Resp: 309860

Ion Ratio Lower Upper

43 100

58 33.4 21.2 31.8#



#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL036551.D

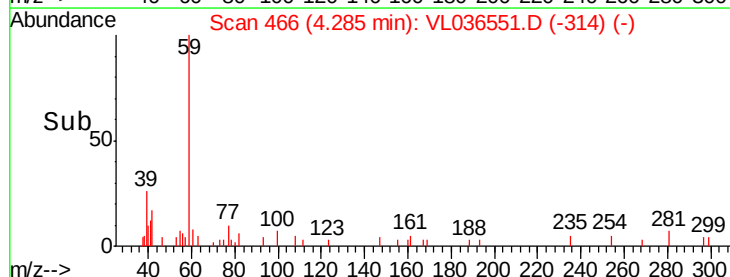
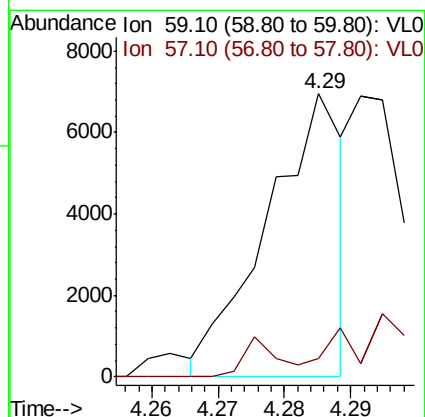
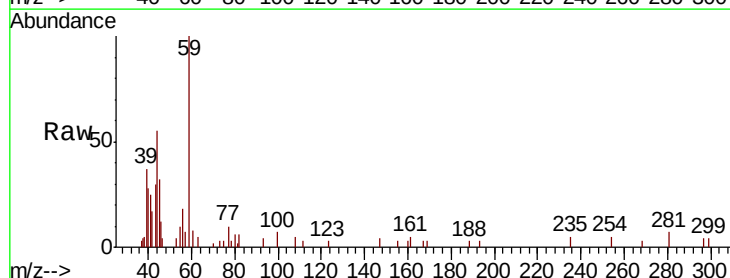
Acq: 29 Mar 2021 23:00

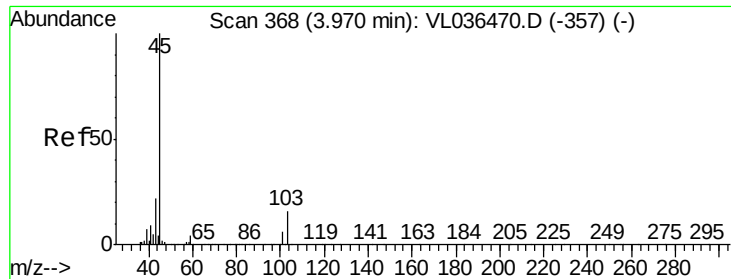
Tgt Ion: 59 Resp: 5522

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 2.886 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.01 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Instrument :

MSVOA_L

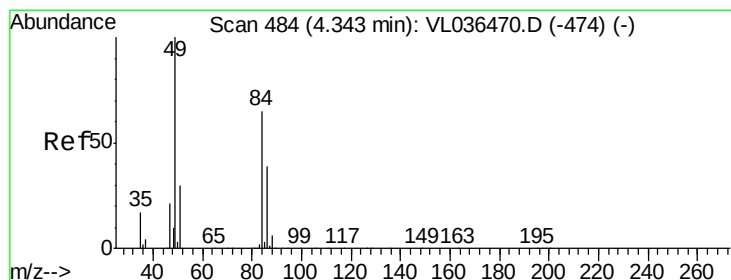
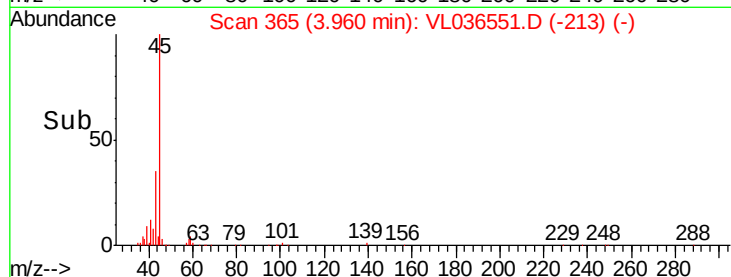
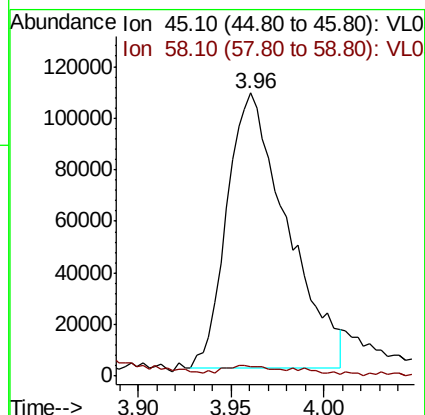
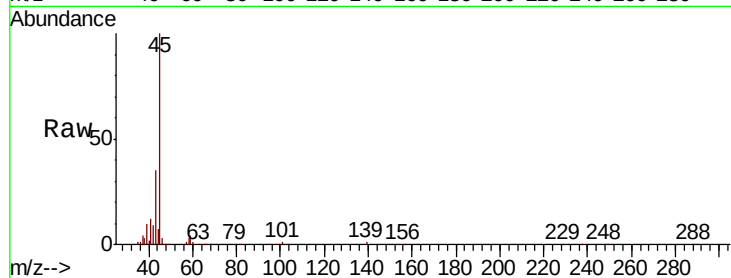
ClientSampleId :

Tot Ion: 45 Resp: 240208

Ion Ratio Lower Upper

45 100

58 5.2 2.9 4.3#



#20

Methylene Chloride

Concen: 0.313 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Tgt Ion: 84 Resp: 22152

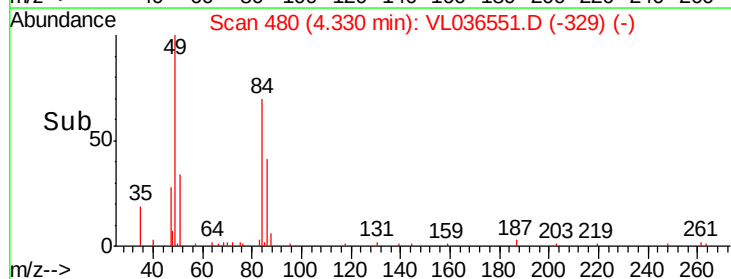
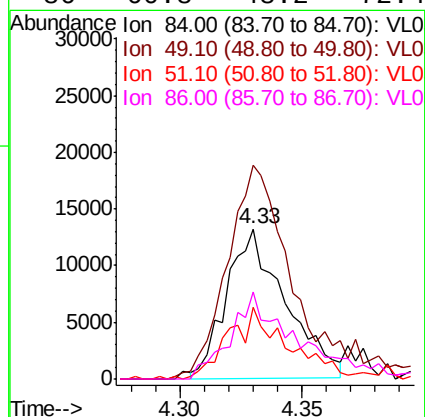
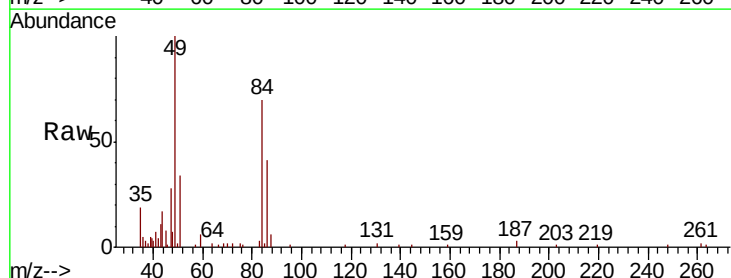
Ion Ratio Lower Upper

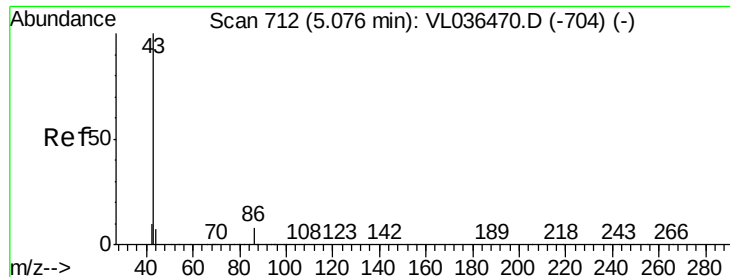
84 100

49 143.5 122.9 184.3

51 48.5 36.9 55.3

86 60.8 48.2 72.4

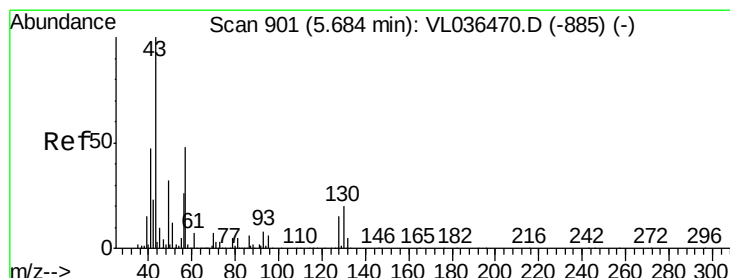
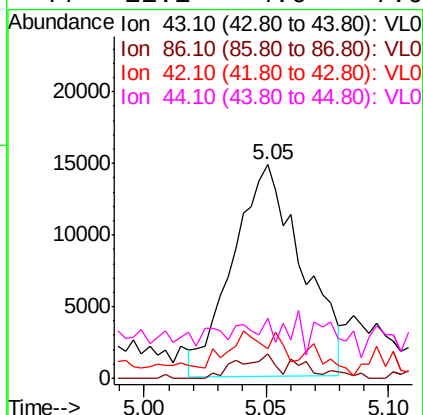
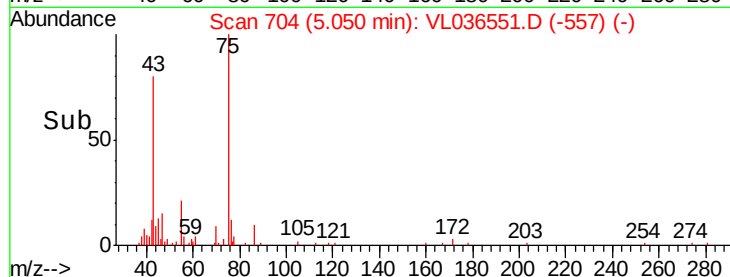
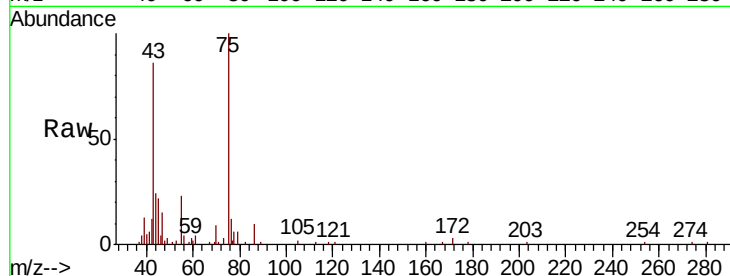




#23
 Vinyl Acetate
 Concen: 0.113 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. -0.03 min
 Lab File: VL036551.D
 Acq: 29 Mar 2021 23:00

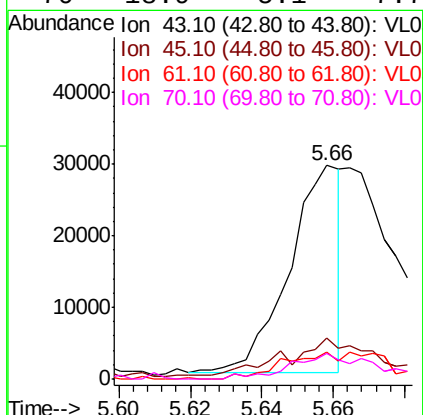
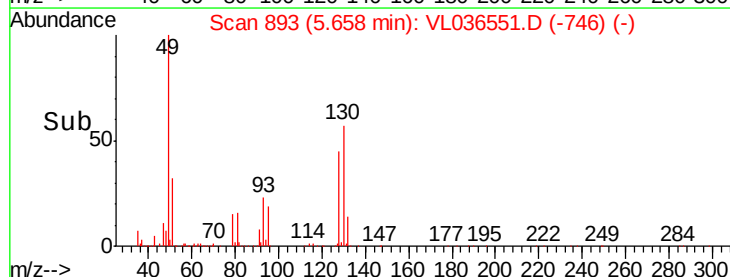
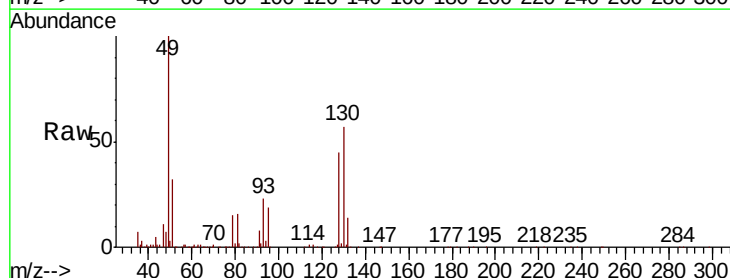
Instrument :
 MSVOA_L
 ClientSampleId :

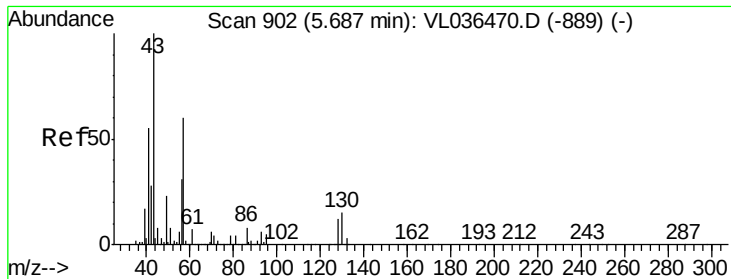
Tot Ion:	43	Resp:	29226
Ion	Ratio	Lower	Upper
43	100		
86	12.9	5.4	8.0#
42	8.9	8.5	12.7
44	11.1	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.081 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.03 min
 Lab File: VL036551.D
 Acq: 29 Mar 2021 23:00

Tgt Ion:	43	Resp:	29059
Ion	Ratio	Lower	Upper
43	100		
45	32.9	7.9	11.9#
61	0.0	7.4	11.2#
70	18.9	5.1	7.7#





#26

Hexane

Concen: 0.056 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 9367

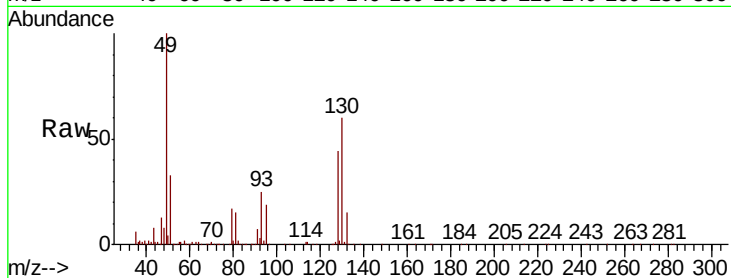
Ion Ratio Lower Upper

57 100

41 0.0 77.2 115.8#

43 742.5 173.8 260.6#

56 0.0 43.8 65.6#

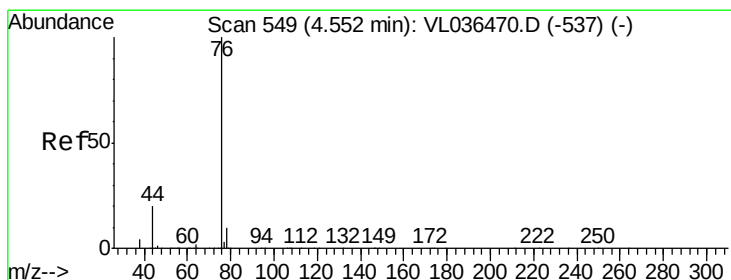
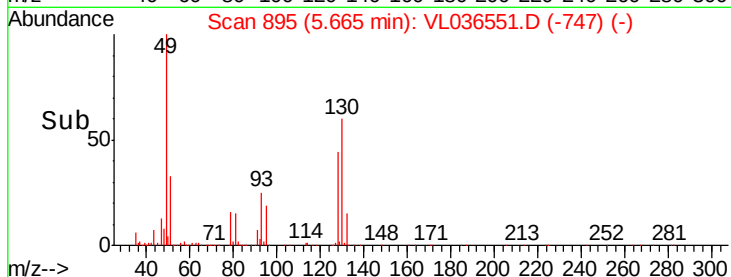
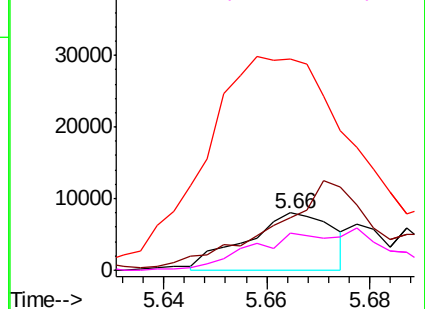


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.311 ppbv

RT: 4.94 min Scan# 669

Delta R.T. 0.39 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

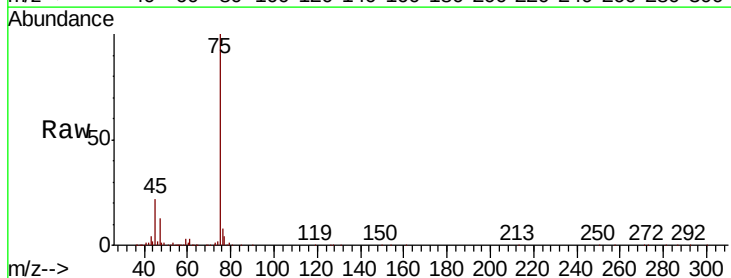
Tgt Ion: 76 Resp: 51164

Ion Ratio Lower Upper

76 100

44 0.0 17.5 26.3#

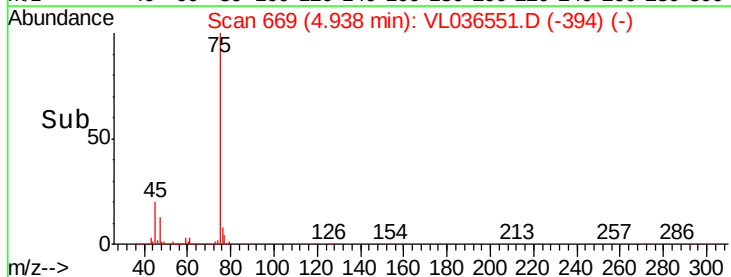
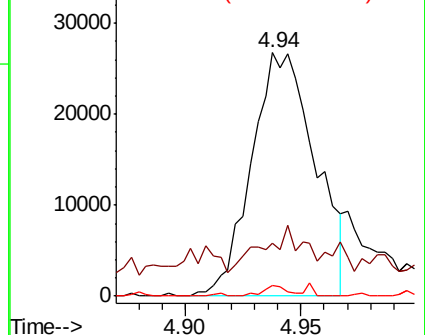
78 2.4 8.6 13.0#

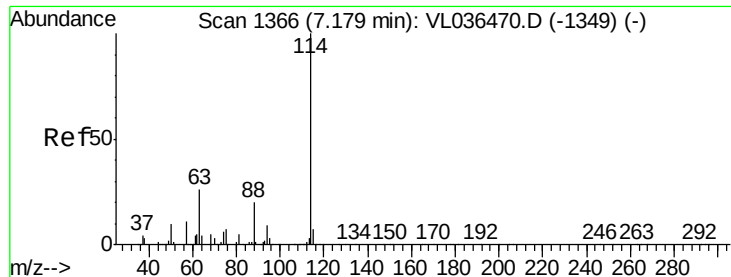


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

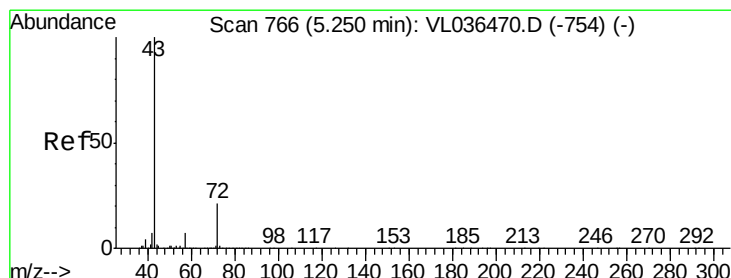
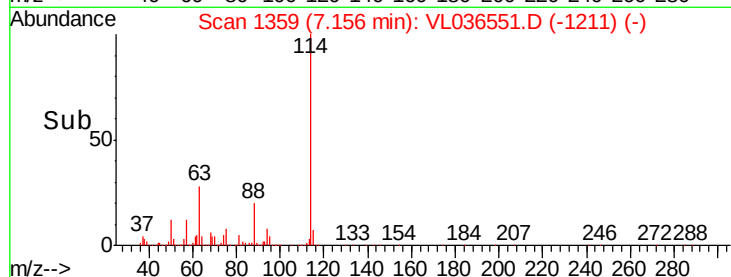
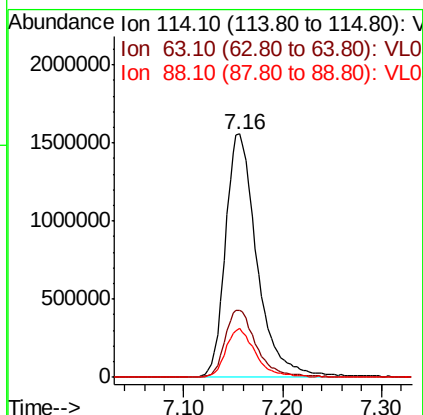
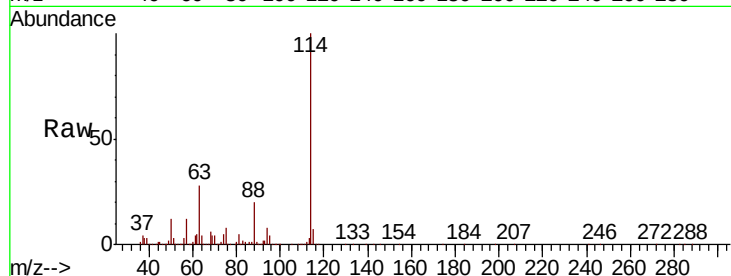




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL036551.D
 Acq: 29 Mar 2021 23:00

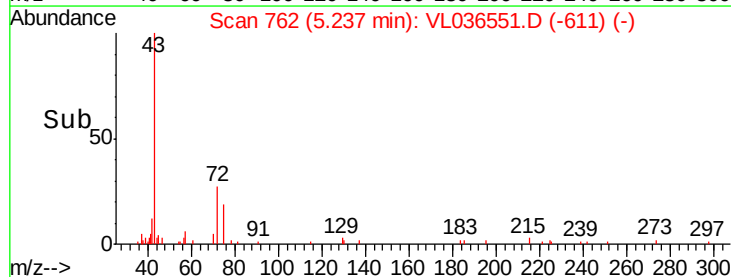
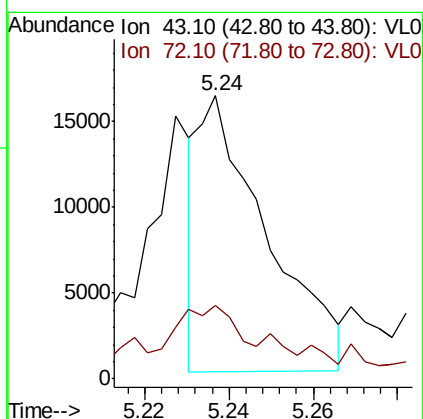
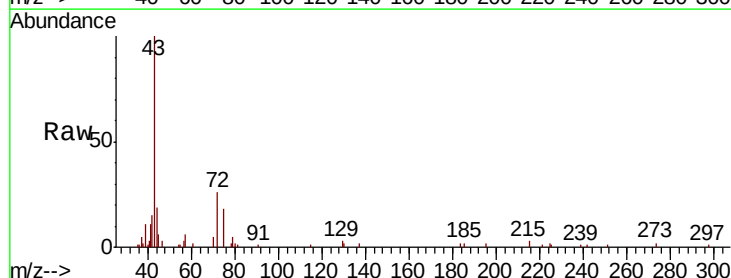
Instrument :
 MSVOA_L
 ClientSampleId :

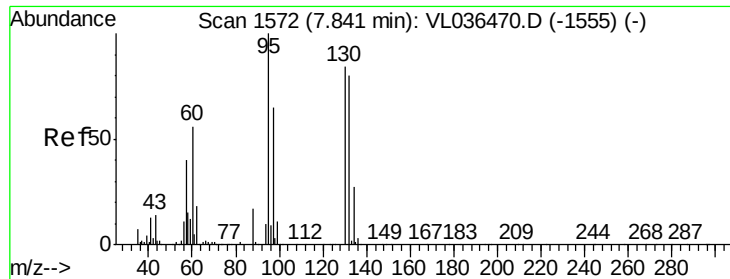
Tot Ion:114 Resp: 3483299
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.4 33.6
 88 19.2 15.4 23.0



#34
 2-Butanone
 Concen: 0.106 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL036551.D
 Acq: 29 Mar 2021 23:00

Tgt Ion: 43 Resp: 18021
 Ion Ratio Lower Upper
 43 100
 72 48.5 17.0 25.6#





#38

Trichloroethene

Concen: 0.066 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.03 min

Lab File: VL036551.D

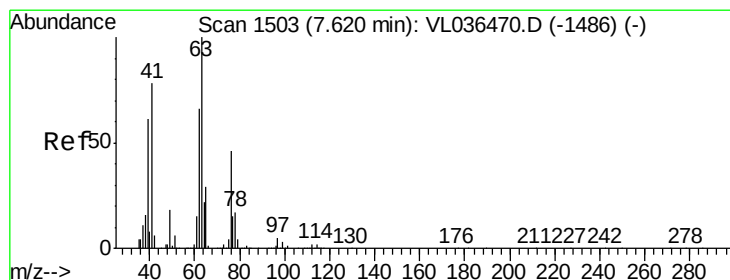
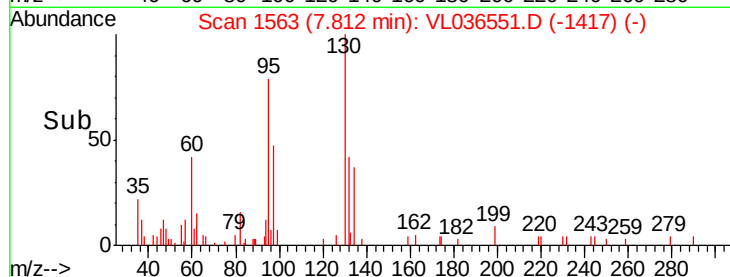
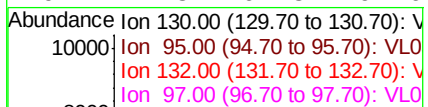
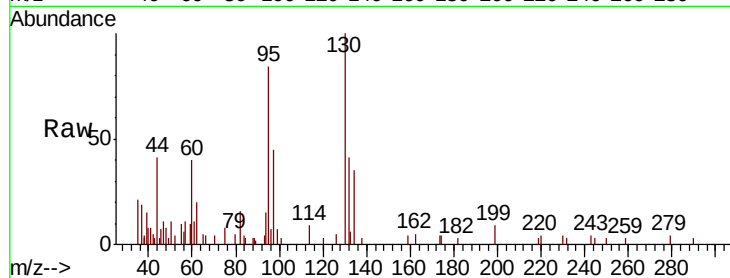
Acq: 29 Mar 2021 23:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	130	Resp:	8269
Ion	Ratio	Lower	Upper
130	100		
95	58.7	95.7	143.5#
132	30.8	76.2	114.4#
97	17.8	61.8	92.6#



#39

1,2-Dichloropropane

Concen: 7.327 ppbv

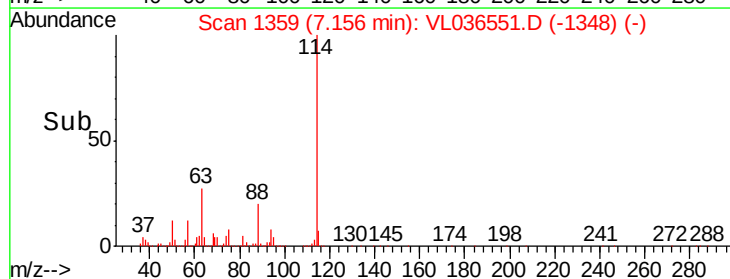
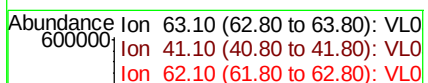
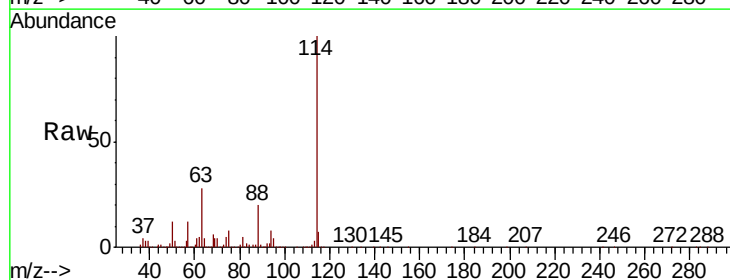
RT: 7.16 min Scan# 1359

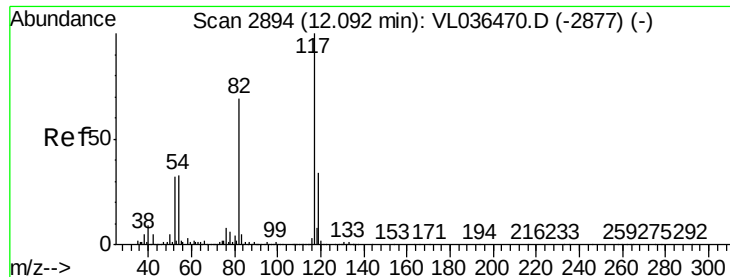
Delta R.T. -0.46 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Tgt Ion:	63	Resp:	954813
Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.4	93.6#
62	17.4	52.8	79.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

Instrument :

MSVOA_L

ClientSampleId :

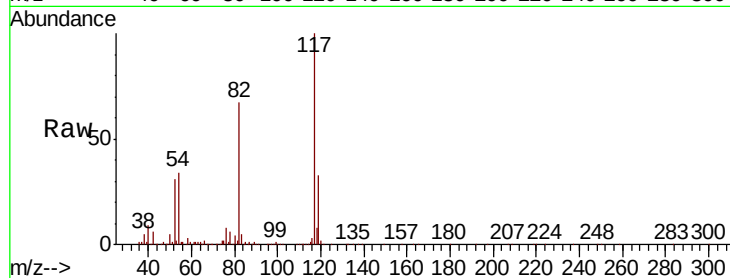
Tot Ion:117 Resp: 3198659

Ion Ratio Lower Upper

117 100

82 70.9 57.4 86.0

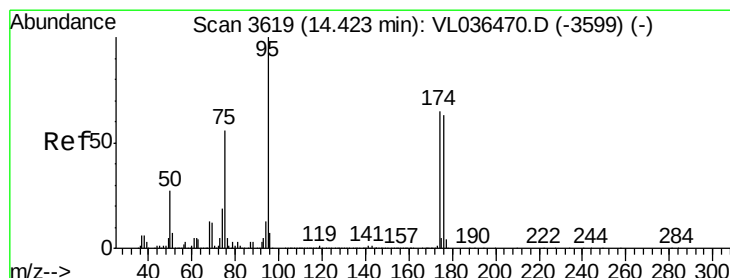
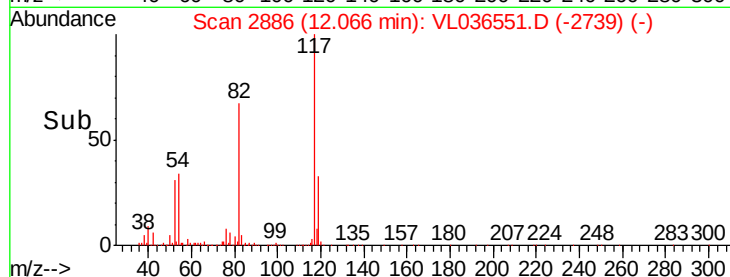
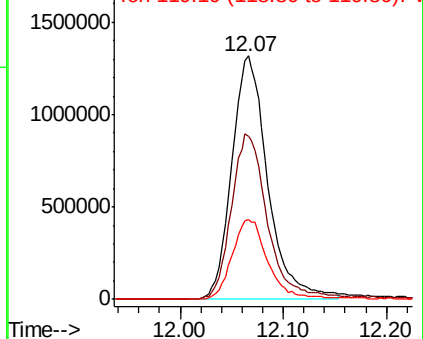
119 33.2 47.4 71.0#



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: 9.660 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL036551.D

Acq: 29 Mar 2021 23:00

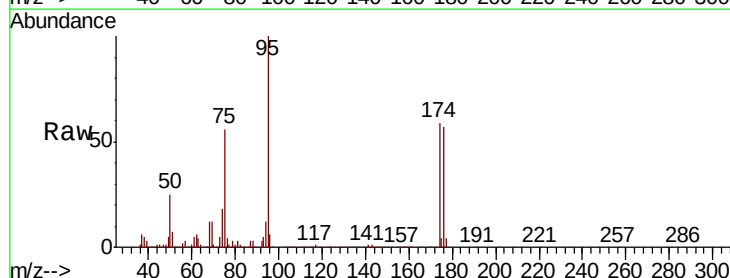
Tgt Ion: 95 Resp: 2462693

Ion Ratio Lower Upper

95 100

174 65.4 51.0 76.6

175 4.6 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

