

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036881.D
 Acq On : 28 Apr 2021 16:01
 Operator : SY/AP
 Sample : M2201-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

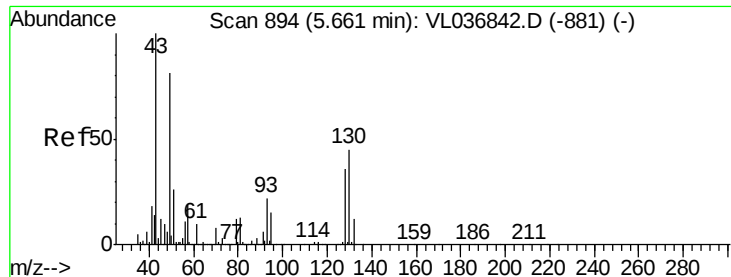
Quant Time: Apr 29 03:09:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1499017	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3457573	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3062602	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2439200	9.92	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	11831	0.043	ppbv #	87
4) Chloromethane	3.15	50	3602	0.040	ppbv #	66
9) Propene	3.22	41	139261	1.674	ppbv	93
13) Ethanol	3.64	45	17628650	1661.386	ppbv	99
15) Acetone	3.87	43	421650	2.984	ppbv	94
16) 1,3-Butadiene	3.37	39	1314330	14.548	ppbv #	14
17) tert-Butyl alcohol	4.32	59	6527	0.057	ppbv #	72
19) Isopropyl Alcohol	3.64	45	17628650	251.822	ppbv #	89
20) Methylene Chloride	4.36	84	159637	2.363	ppbv	96
25) Ethyl Acetate	5.71	43	77944	0.226	ppbv #	78
26) Hexane	5.71	57	101863	0.631	ppbv #	40
34) 2-Butanone	5.27	43	4868	0.032	ppbv #	21
39) 1,2-Dichloropropane	7.20	63	894408	7.663	ppbv #	24

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.03 min

Lab File: VL036881.D

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Instrument :

MSVOA_L

ClientSampleId :

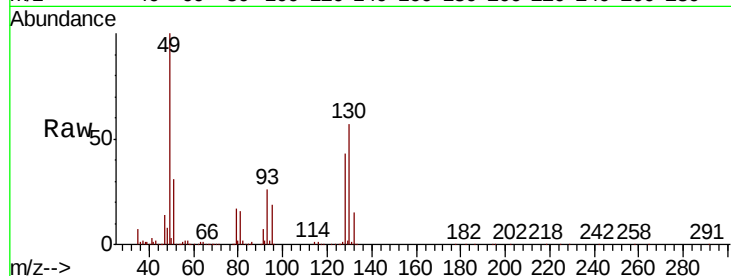
Tot Ion: 49 Resp: 1499017

Ion Ratio Lower Upper

49 100

128 45.9 24.4 73.2

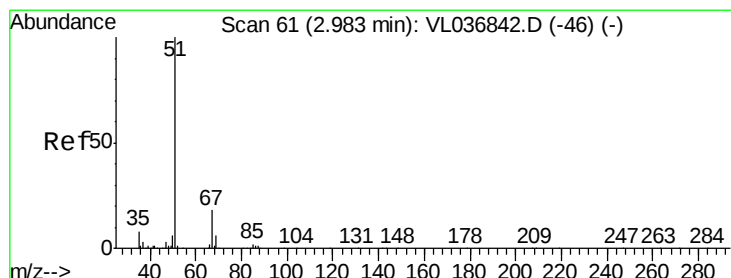
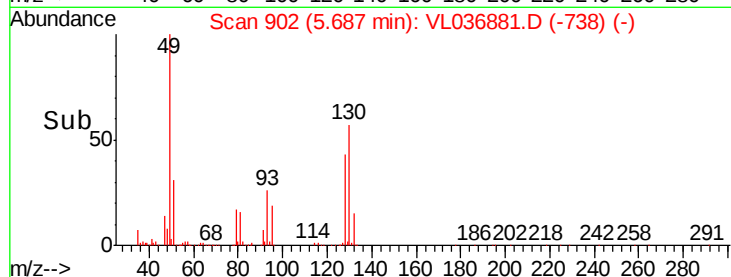
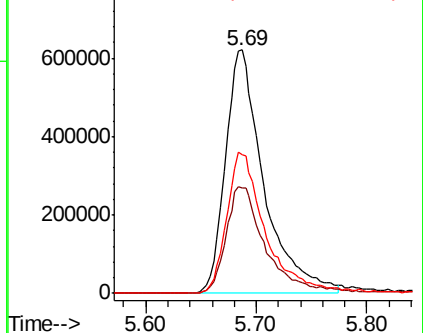
130 59.6 30.3 90.8



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



#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL036881.D

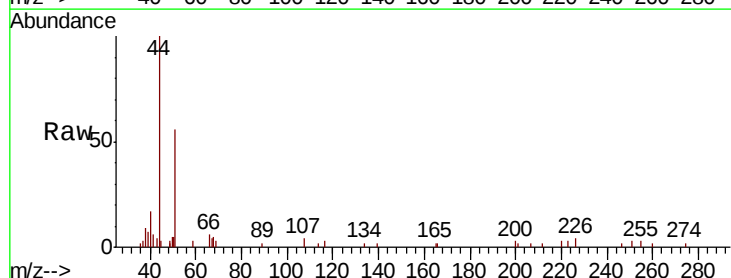
Acq: 28 Apr 2021 16:01

Tgt Ion: 51 Resp: 11831

Ion Ratio Lower Upper

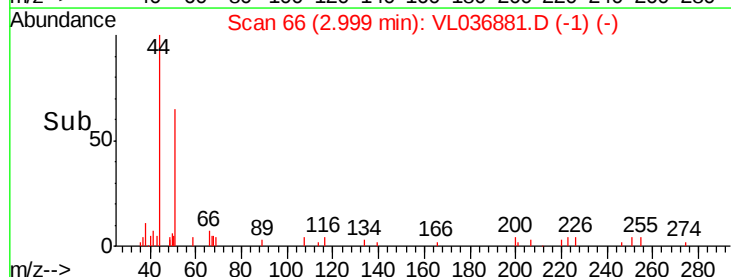
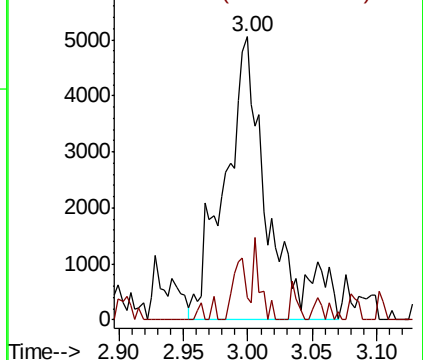
51 100

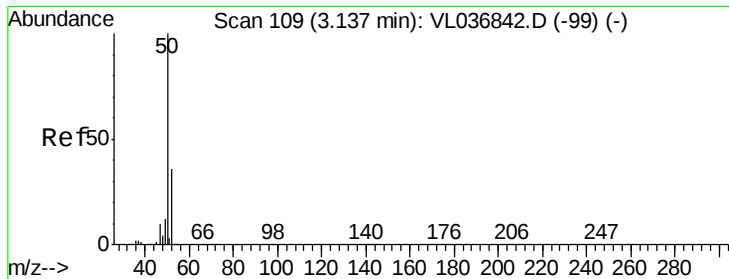
67 12.8 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036881.D

Acq: 28 Apr 2021 16:01

Instrument :

MSVOA_L

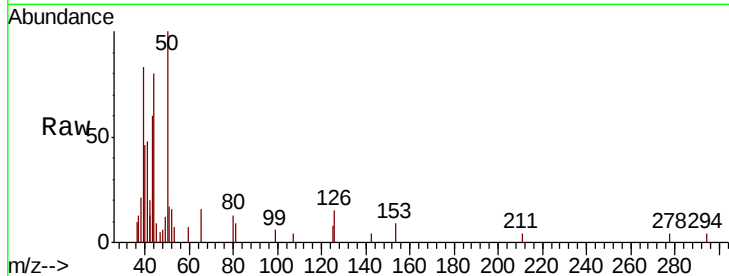
ClientSampleId :

Tot Ion: 50 Resp: 3602

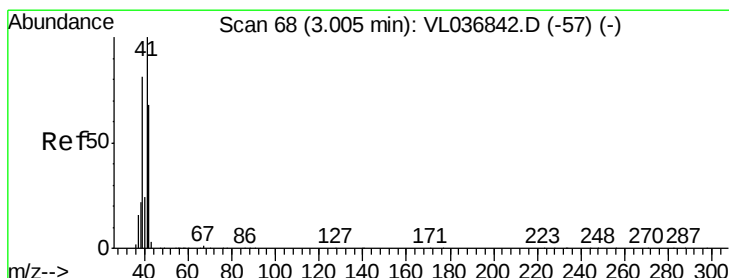
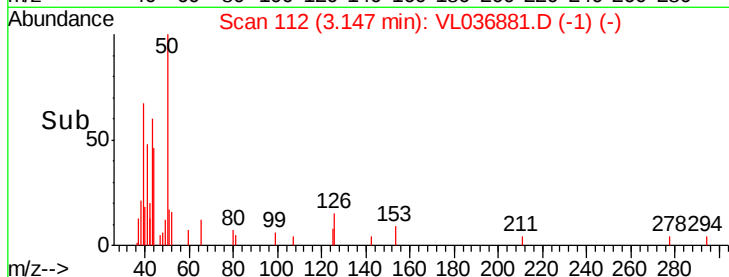
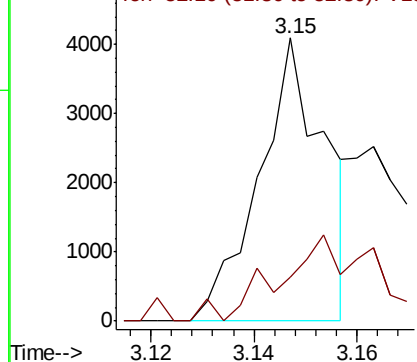
Ion Ratio Lower Upper

50 100

52 15.8 28.5 42.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.674 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.21 min

Lab File: VL036881.D

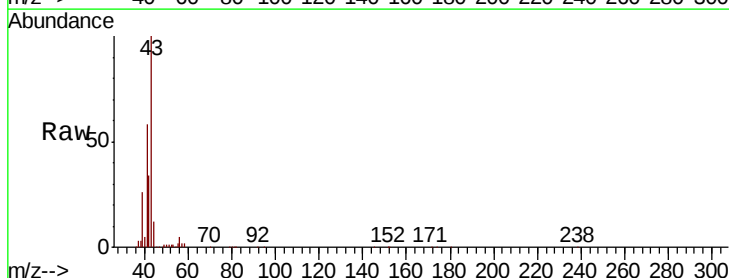
Acq: 28 Apr 2021 16:01

Tgt Ion: 41 Resp: 139261

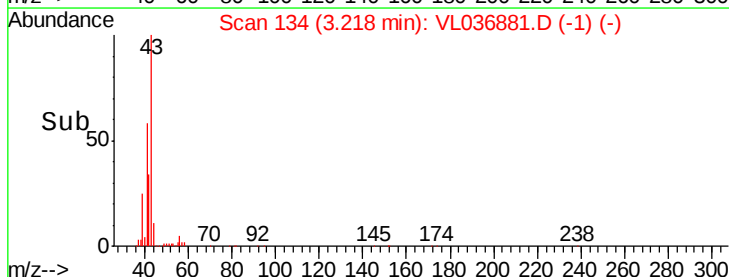
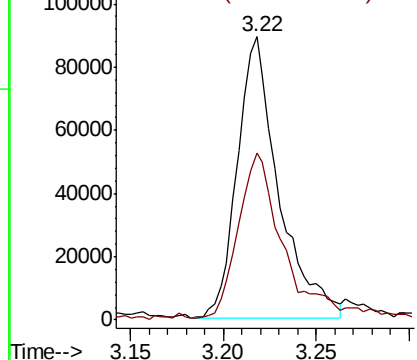
Ion Ratio Lower Upper

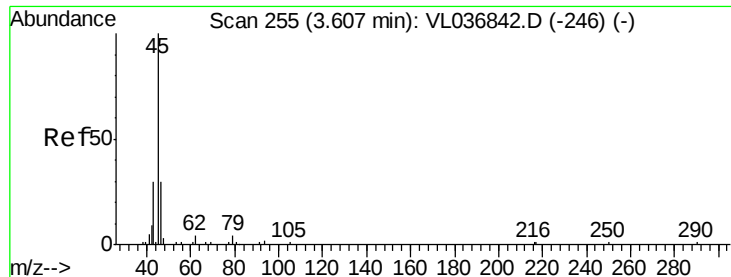
41 100

42 64.2 56.0 84.0



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0

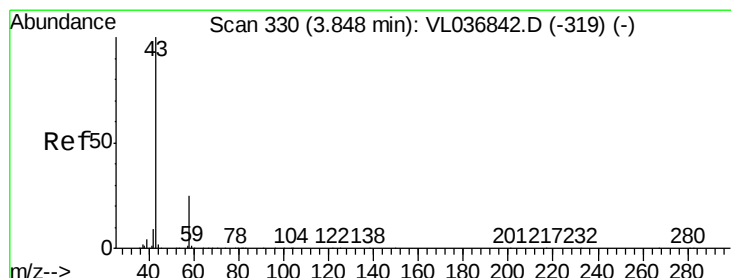
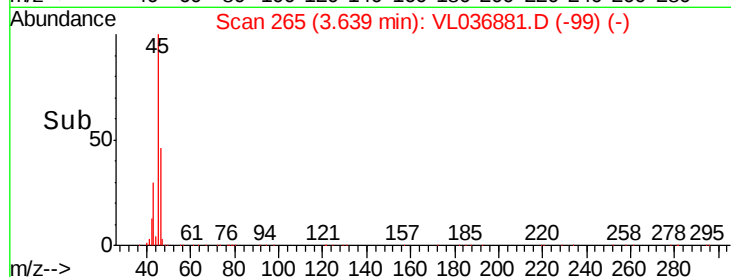
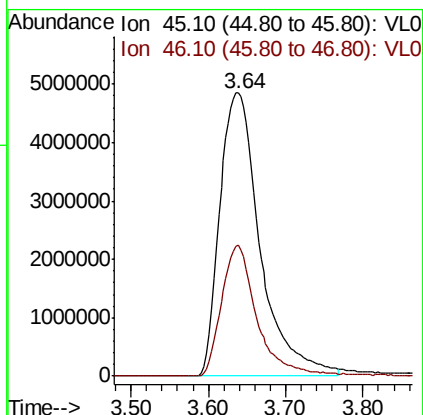
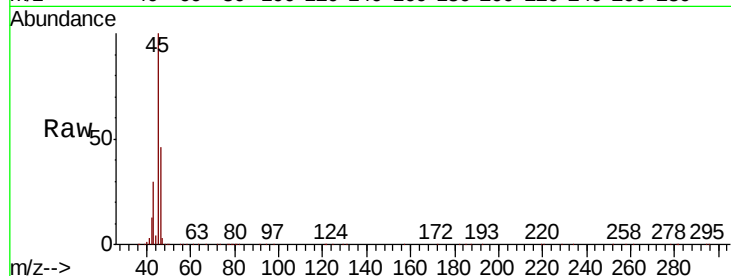




#13
Ethanol
Concen: 1661.386 ppbv
RT: 3.64 min Scan# 265
Delta R.T. 0.03 min
Lab File: VL036881.D
Acq: 28 Apr 2021 16:01

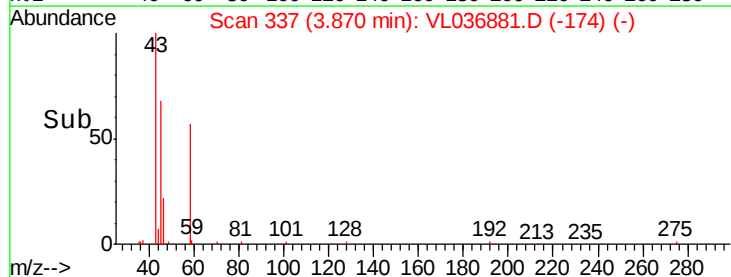
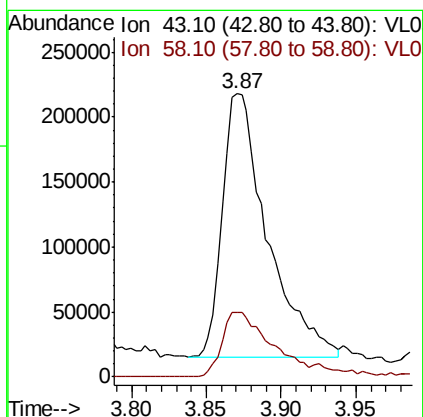
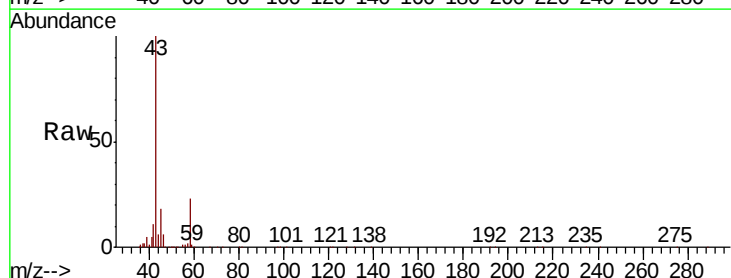
Instrument :
MSVOA_L
ClientSampleId :

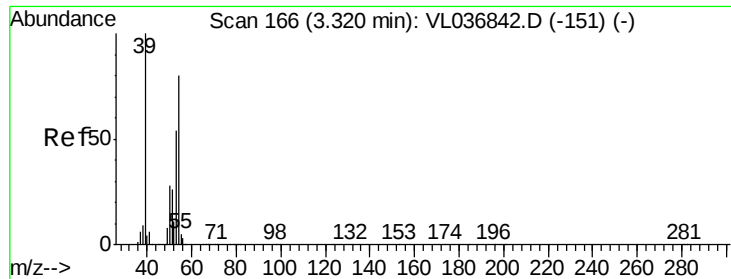
Tot Ion: 45 Resp: 17628650
Ion Ratio Lower Upper
45 100
46 41.4 16.8 67.4



#15
Acetone
Concen: 2.984 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036881.D
Acq: 28 Apr 2021 16:01

Tgt Ion: 43 Resp: 421650
Ion Ratio Lower Upper
43 100
58 30.1 21.7 32.5

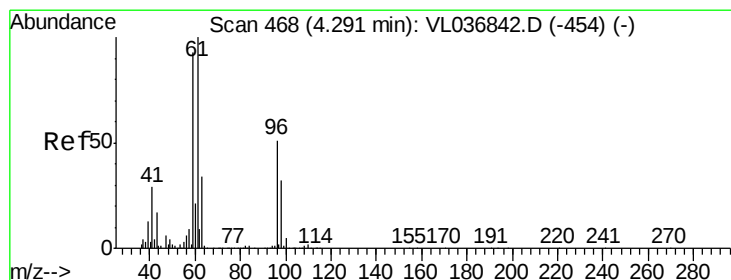
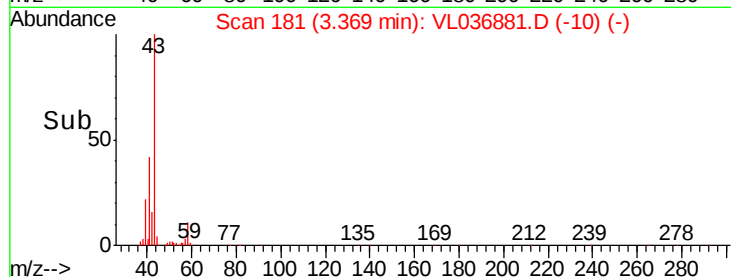
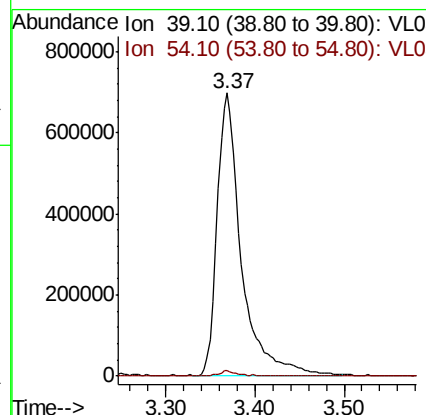
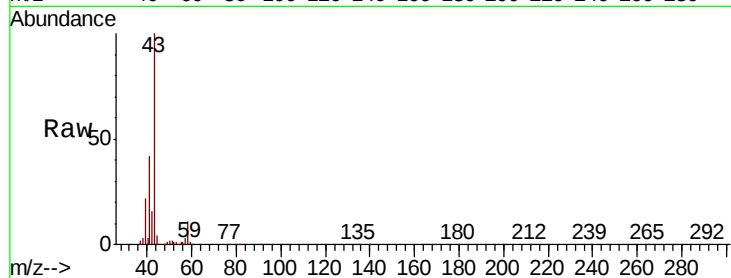




#16
 1,3-Butadiene
 Concen: 14.548 ppbv
 RT: 3.37 min Scan# 181
 Delta R.T. 0.05 min
 Lab File: VL036881.D
 Acq: 28 Apr 2021 16:01

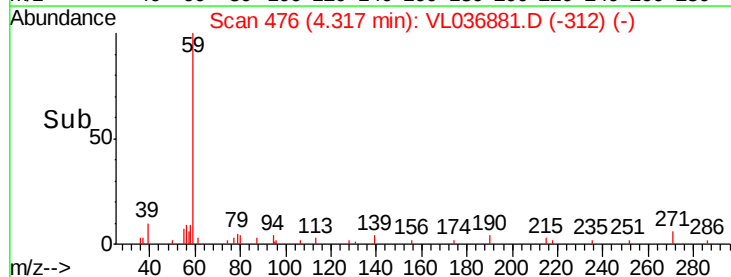
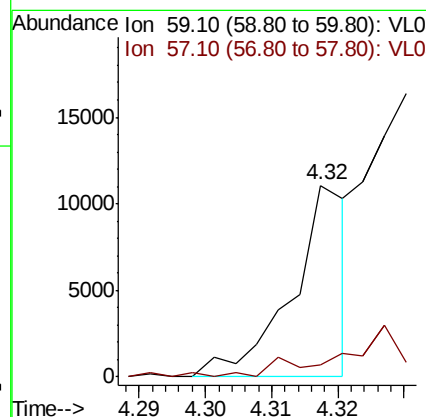
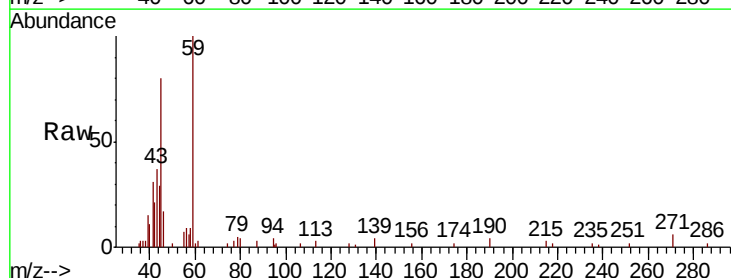
Instrument :
 MSVOA_L
 ClientSampleId :

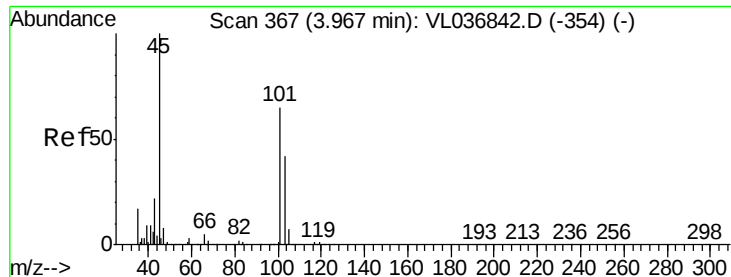
Tot Ion: 39 Resp: 1314330
 Ion Ratio Lower Upper
 39 100
 54 1.7 59.6 89.4#



#17
 tert-Butyl alcohol
 Concen: 0.057 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.03 min
 Lab File: VL036881.D
 Acq: 28 Apr 2021 16:01

Tgt Ion: 59 Resp: 6527
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 251.822 ppbv

RT: 3.64 min Scan# 265

Delta R.T. -0.33 min

Lab File: VL036881.D

Acq: 28 Apr 2021 16:01

Instrument :

MSVOA_L

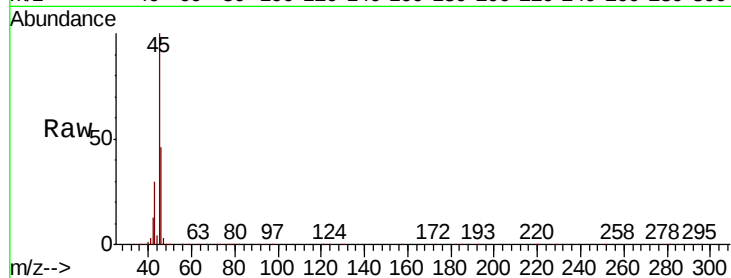
ClientSampled :

Tot Ion: 45 Resp: 17628650

Ion Ratio Lower Upper

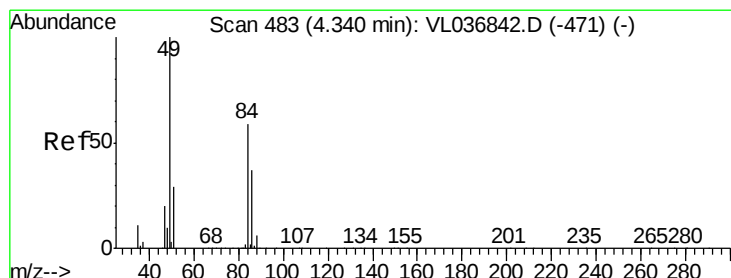
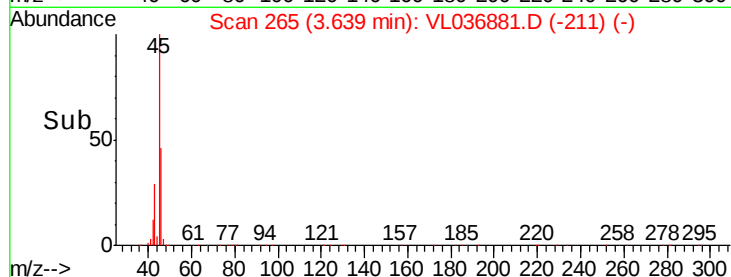
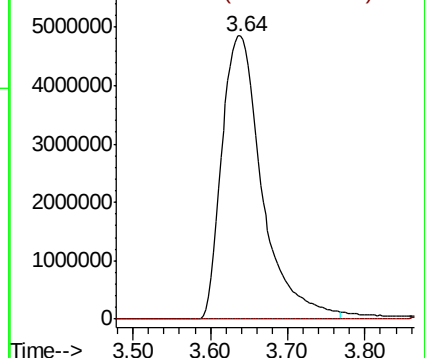
45 100

58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.363 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL036881.D

Acq: 28 Apr 2021 16:01

Tgt Ion: 84 Resp: 159637

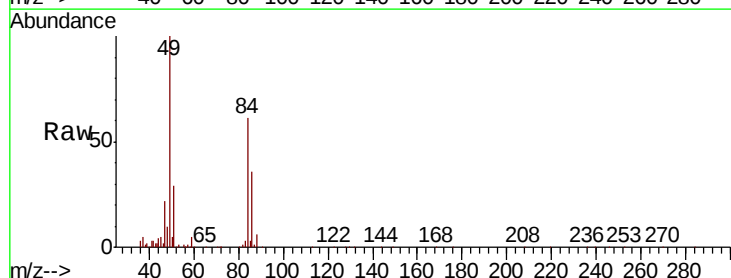
Ion Ratio Lower Upper

84 100

49 163.4 135.4 203.0

51 46.6 39.3 58.9

86 58.5 50.2 75.2

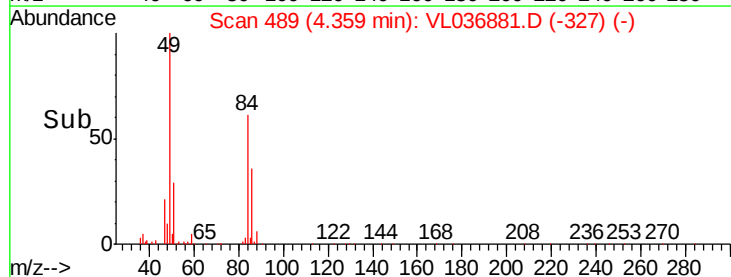
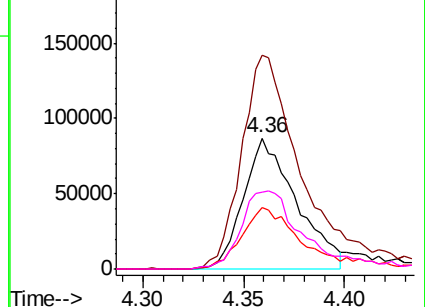


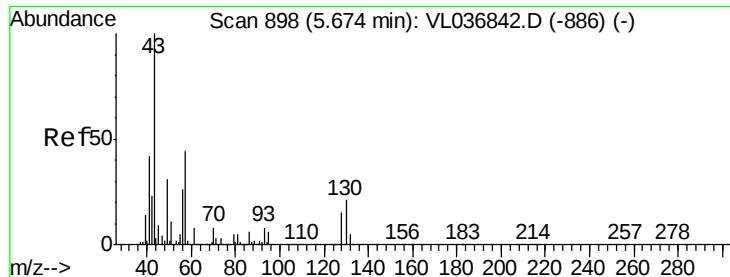
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

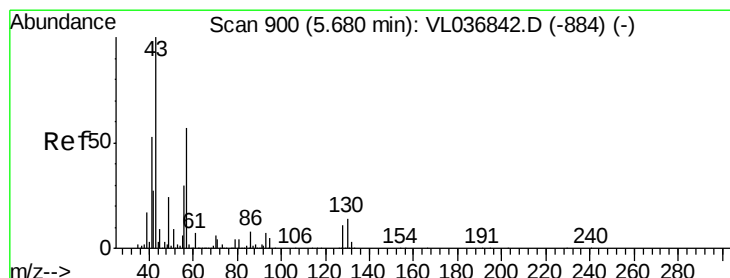
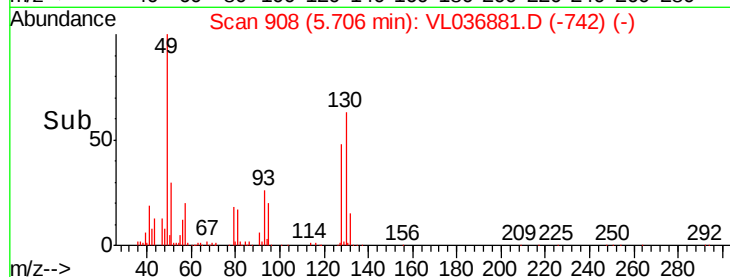
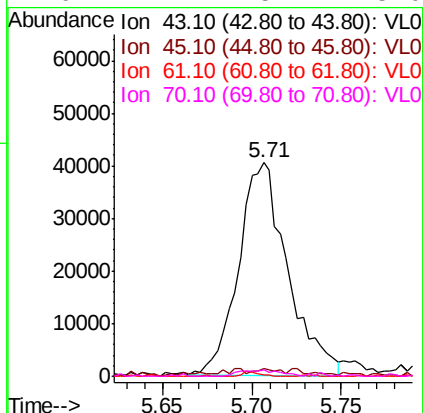
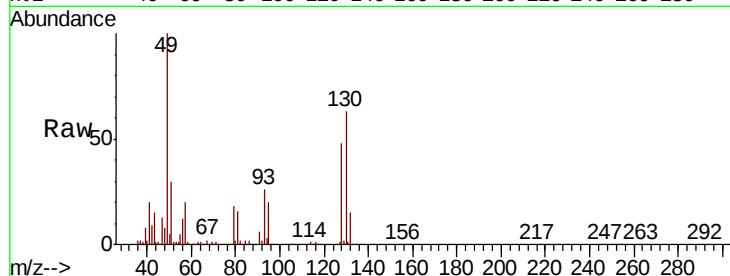




#25
Ethyl Acetate
Concen: 0.226 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL036881.D
Acq: 28 Apr 2021 16:01

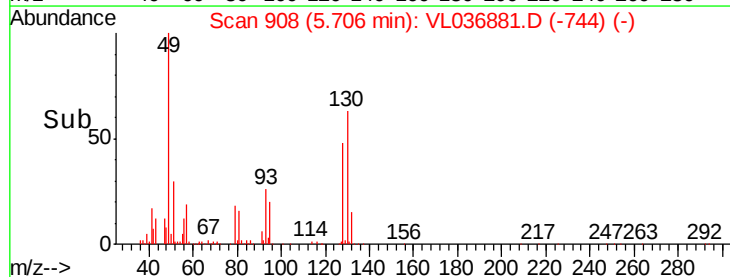
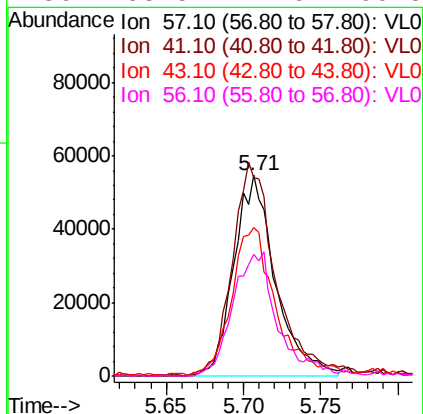
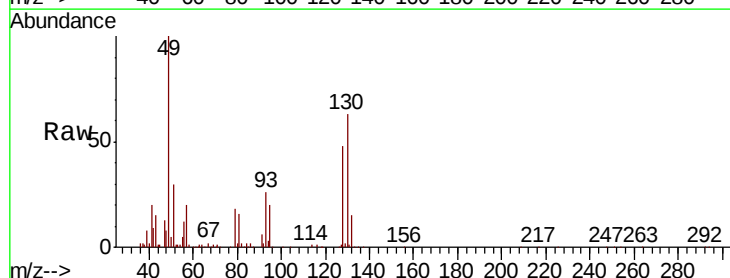
Instrument :
MSVOA_L
ClientSampleId :

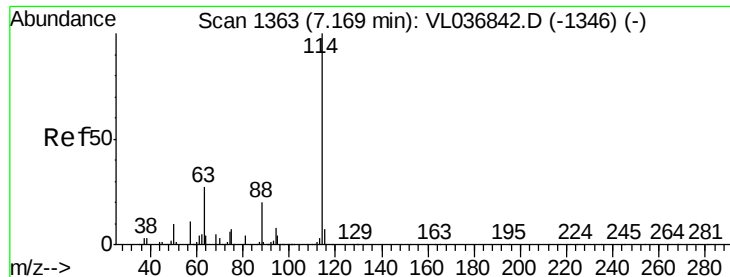
Tot Ion:	43	Resp:	77944
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.9	7.4	11.0#
70	2.4	5.4	8.0#



#26
Hexane
Concen: 0.631 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL036881.D
Acq: 28 Apr 2021 16:01

Tgt Ion:	57	Resp:	101863
Ion	Ratio	Lower	Upper
57	100		
41	115.5	77.7	116.5
43	80.6	180.5	270.7#
56	68.5	44.6	66.8#

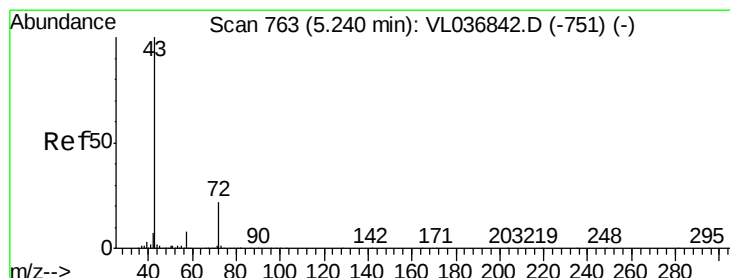
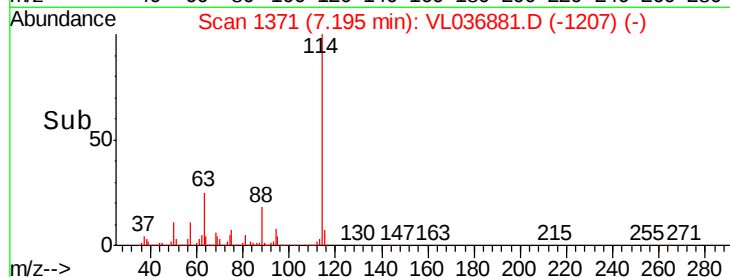
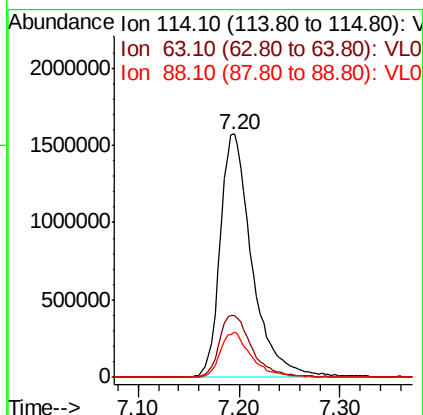
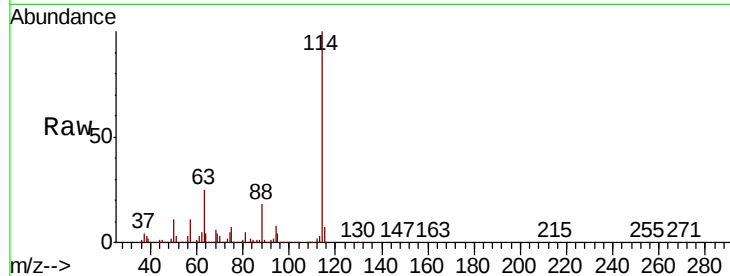




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. 0.03 min
 Lab File: VL036881.D
 Acq: 28 Apr 2021 16:01

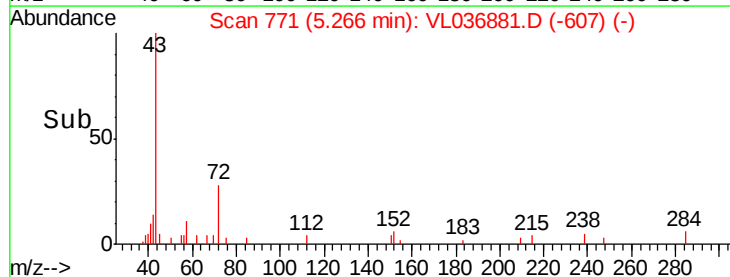
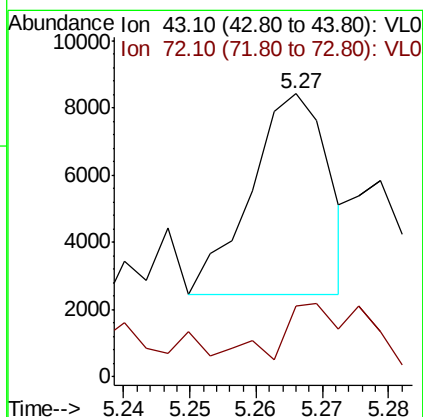
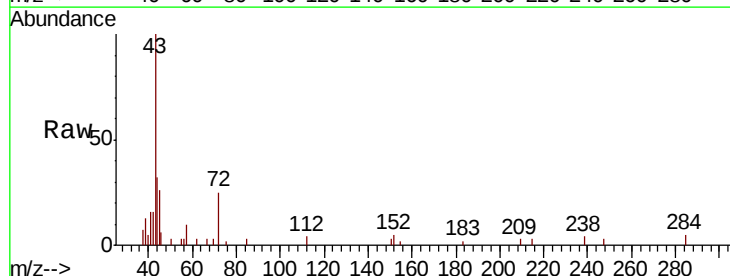
Instrument :
 MSVOA_L
 ClientSampleId :

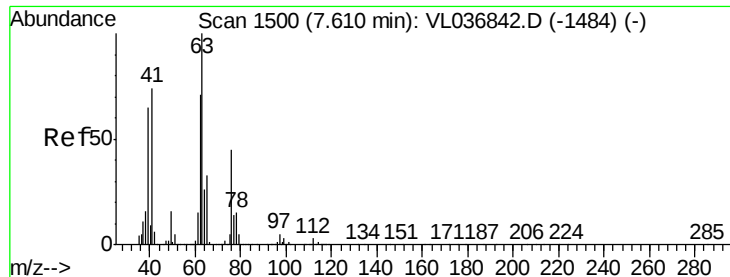
Tot Ion:114 Resp: 3457573
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.9 32.9
 88 18.3 15.1 22.7



#34
 2-Butanone
 Concen: 0.032 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.03 min
 Lab File: VL036881.D
 Acq: 28 Apr 2021 16:01

Tgt Ion: 43 Resp: 4868
 Ion Ratio Lower Upper
 43 100
 72 59.7 17.6 26.4#

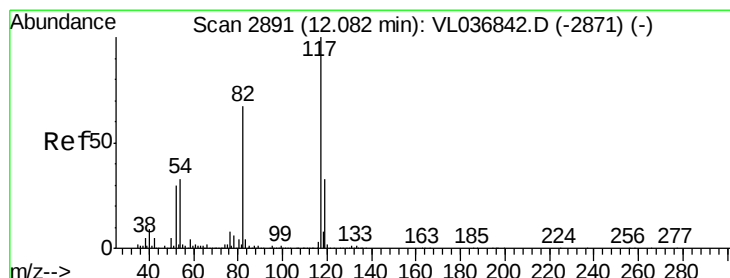
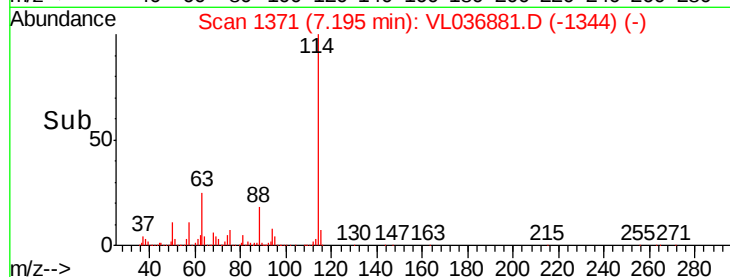
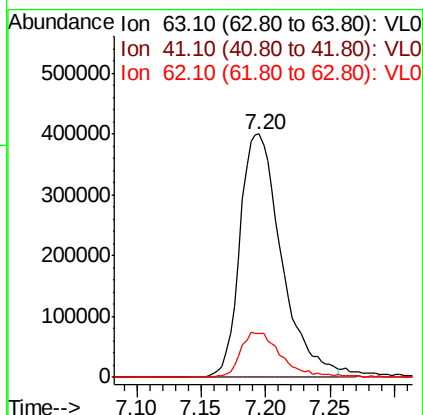
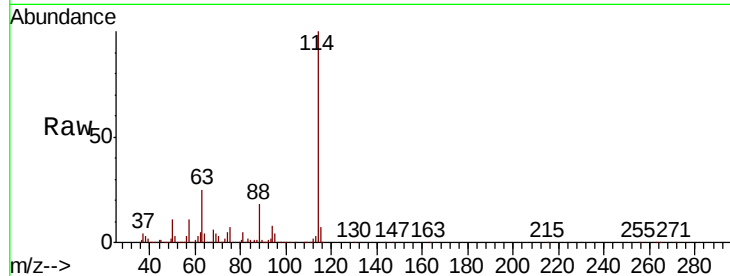




#39
 1,2-Dichloropropane
 Concen: 7.663 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.41 min
 Lab File: VL036881.D
 Acq: 28 Apr 2021 16:01

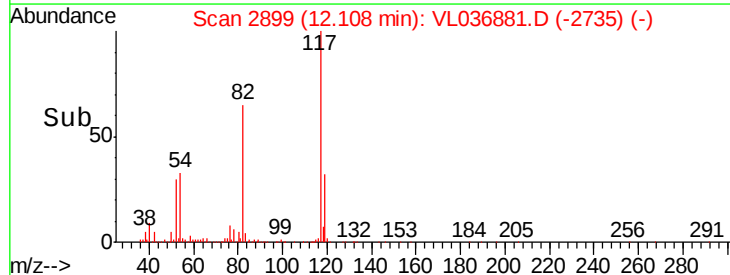
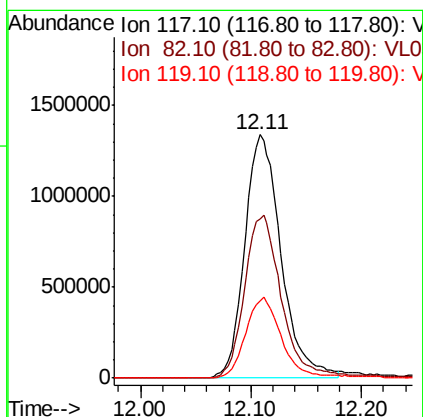
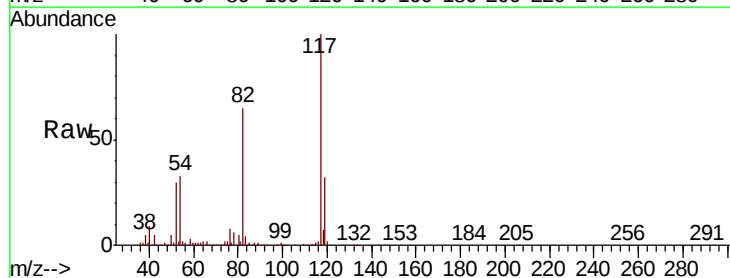
Instrument :
 MSVOA_L
 ClientSampled :

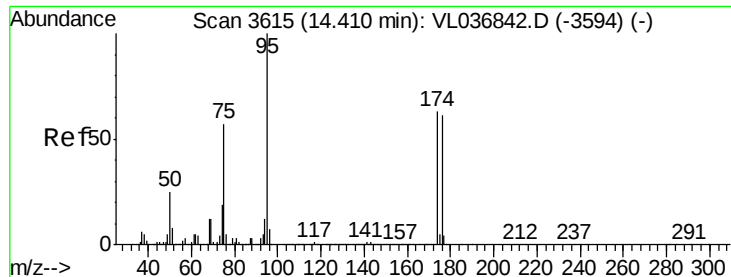
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.2	59.1	88.7#
62	18.2	56.9	85.3#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2899
 Delta R.T. 0.03 min
 Lab File: VL036881.D
 Acq: 28 Apr 2021 16:01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.3	53.5	80.3
119	33.6	25.6	38.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.922 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. 0.03 min

Lab File: VL036881.D

Acq: 28 Apr 2021 16:01

Instrument :

MSVOA_L

ClientSampleId :

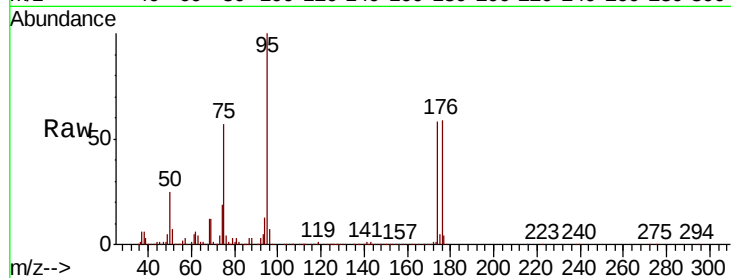
Tot Ion: 95 Resp: 2439200

Ion Ratio Lower Upper

95 100

174 65.2 52.2 78.2

175 4.6 4.0 6.0



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

