

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022521\
 Data File : VL036385.D
 Acq On : 25 Feb 2021 17:38
 Operator : SY/AP
 Sample : M1463-14
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 26 00:37:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1572267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3485293	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3104212	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2541375	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

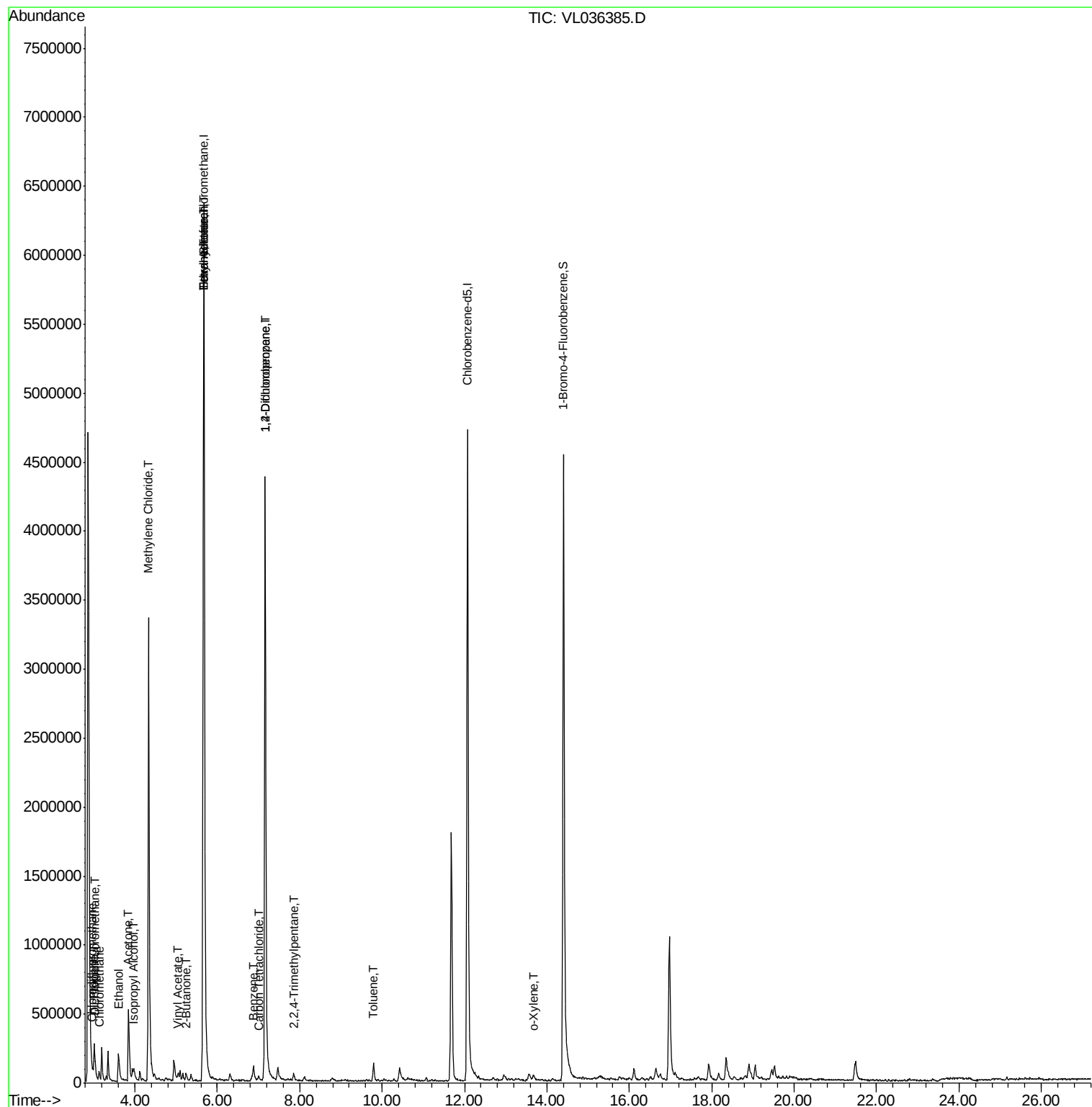
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	66716	0.284	ppbv	95
3) Chlorodifluoromethane	2.98	51	104700	0.536	ppbv #	83
4) Chloromethane	3.13	50	46653	0.494	ppbv	99
9) Propene	3.01	41	67532	0.927	ppbv	85
13) Ethanol	3.61	45	257763	18.841	ppbv	99
15) Acetone	3.84	43	663936	3.455	ppbv	96
19) Isopropyl Alcohol	3.97	45	89507	0.841	ppbv #	82
20) Methylene Chloride	4.33	84	1326354	21.391	ppbv	99
23) Vinyl Acetate	5.06	43	12158	0.054	ppbv #	74
25) Ethyl Acetate	5.67	43	1818191	4.900	ppbv #	77
26) Hexane	5.68	57	2493385	16.356	ppbv #	37
34) 2-Butanone	5.24	43	38081	0.164	ppbv #	59
35) Carbon Tetrachloride	7.00	117	9291	0.040	ppbv #	44
36) Benzene	6.88	78	47793	0.161	ppbv	95
39) 1,2-Dichloropropane	7.16	63	987953	8.215	ppbv #	22
41) Tetrahydrofuran	5.67	42	1005640	7.782	ppbv #	52
44) 2,2,4-Trimethylpentane	7.85	57	20604	0.038	ppbv #	23
53) Toluene	9.79	91	86331	0.269	ppbv	96
60) o-Xylene	13.68	91	14796	0.041	ppbv	78

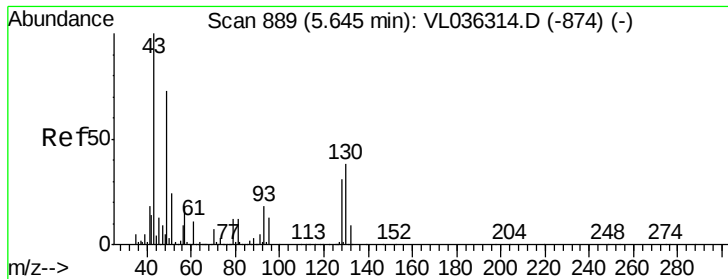
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampled :

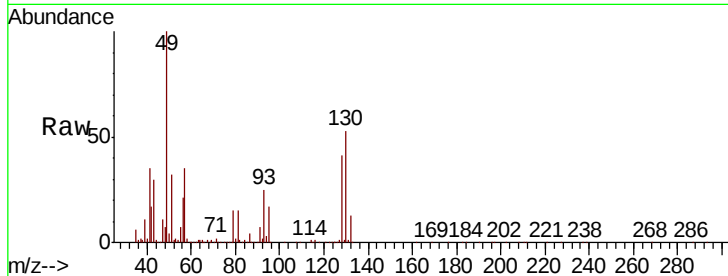
Tot Ion: 49 Resp: 1572267

Ion Ratio Lower Upper

49 100

128 41.5 20.8 62.5

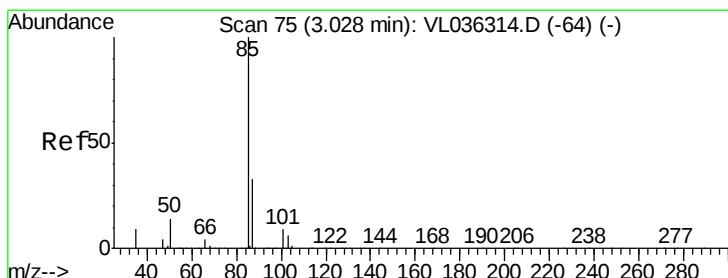
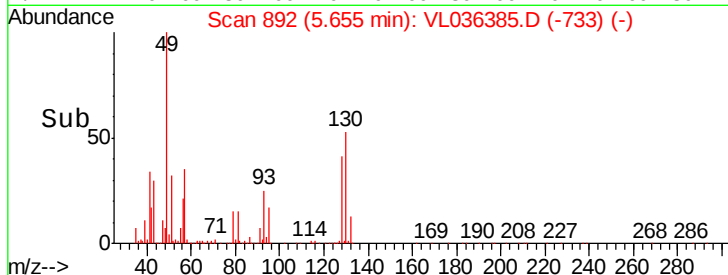
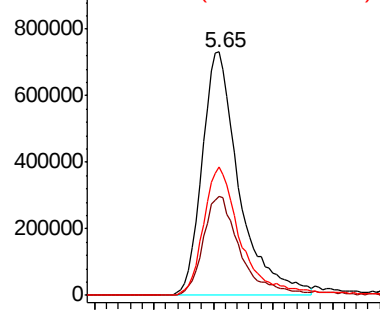
130 54.6 26.7 80.1



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: 0.284 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL036385.D

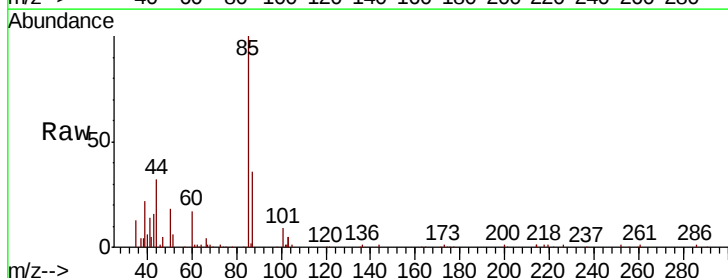
Acq: 25 Feb 2021 17:38

Tgt Ion: 85 Resp: 66716

Ion Ratio Lower Upper

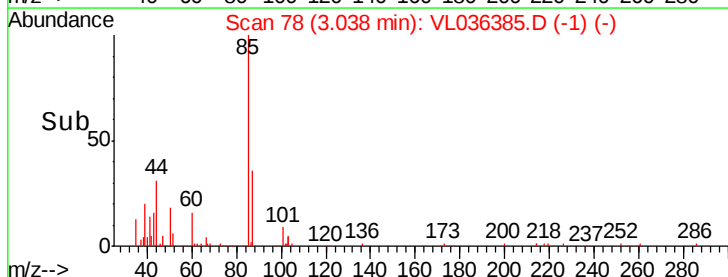
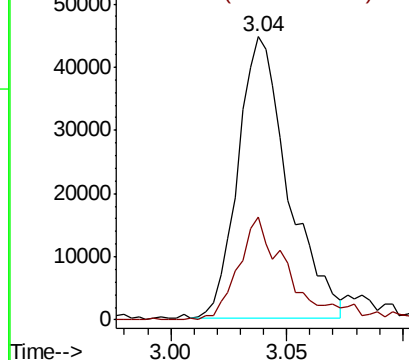
85 100

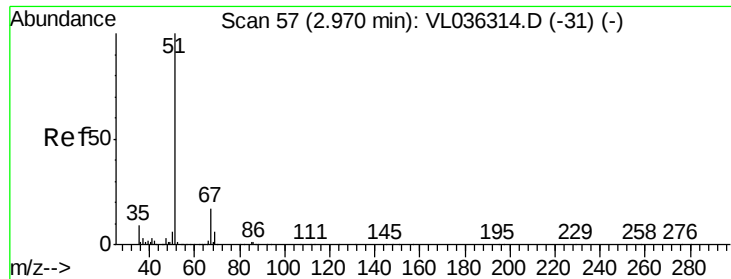
87 36.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

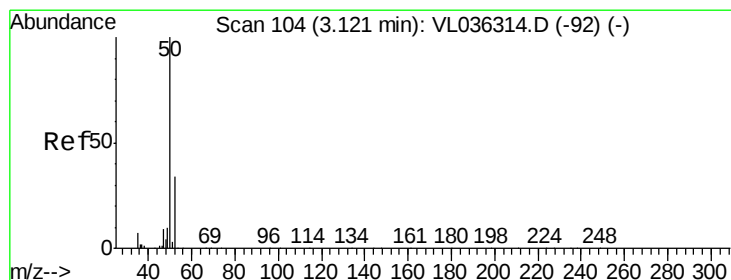
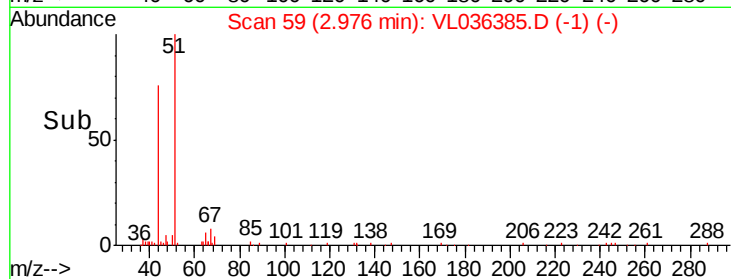
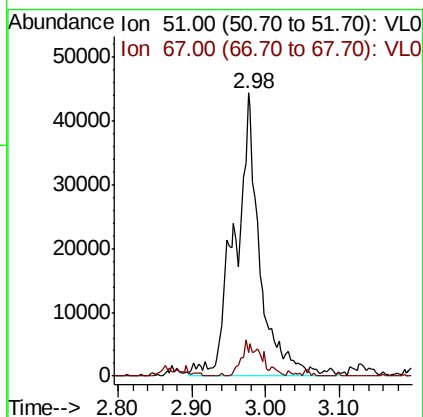
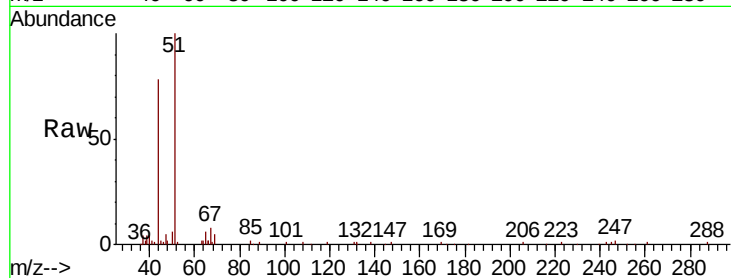




#3
 Chlorodifluoromethane
 Concen: 0.536 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

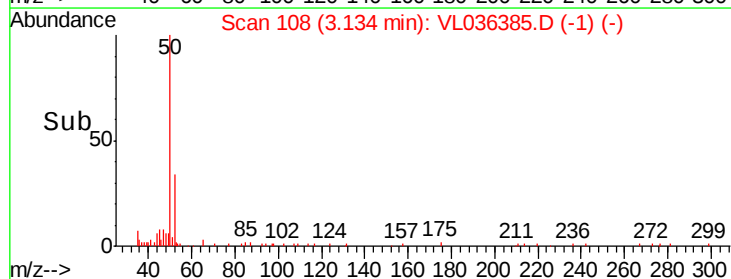
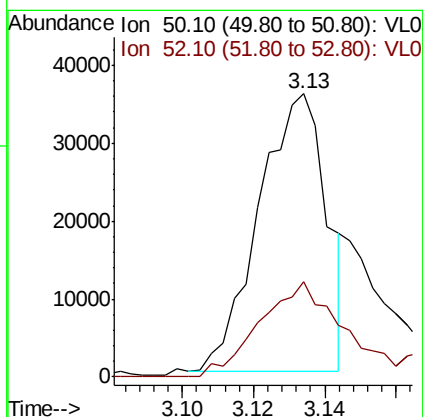
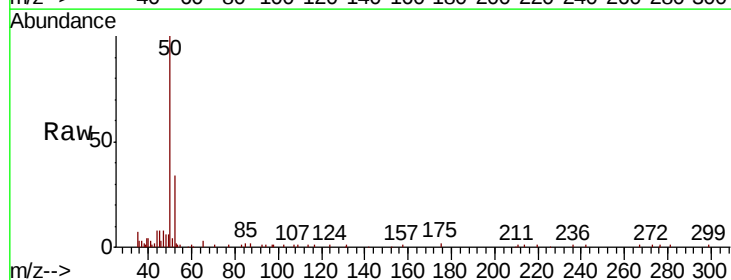
Instrument :
 MSVOA_L
 ClientSampleId :

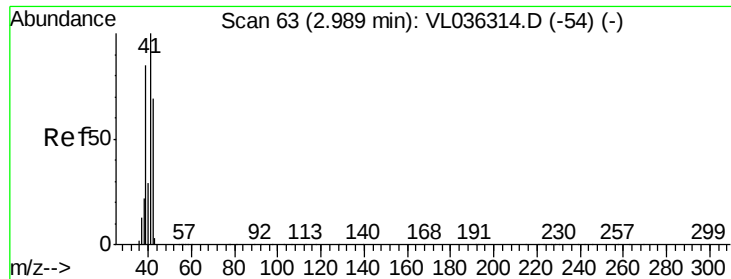
Tot Ion: 51 Resp: 104700
 Ion Ratio Lower Upper
 51 100
 67 10.9 14.7 22.1#



#4
 Chloromethane
 Concen: 0.494 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Tgt Ion: 50 Resp: 46653
 Ion Ratio Lower Upper
 50 100
 52 34.3 27.0 40.4





#9

Propene

Concen: 0.927 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

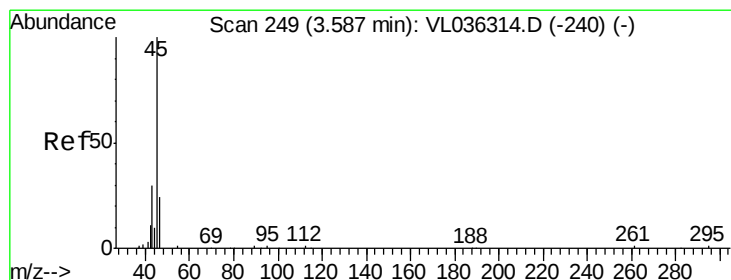
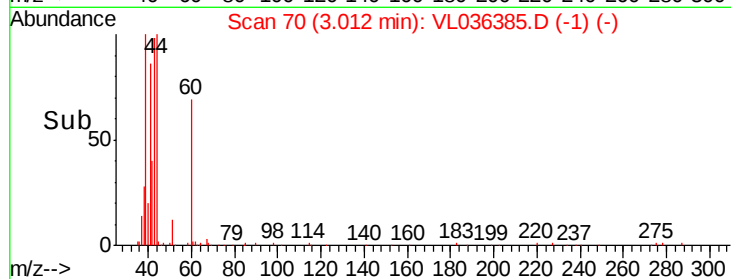
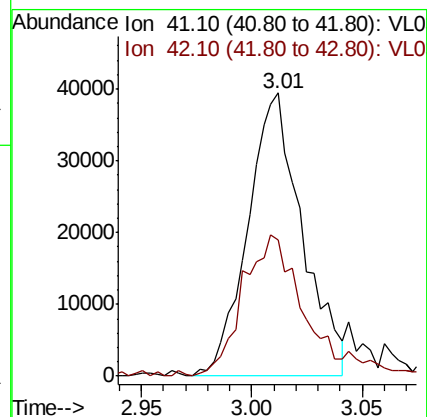
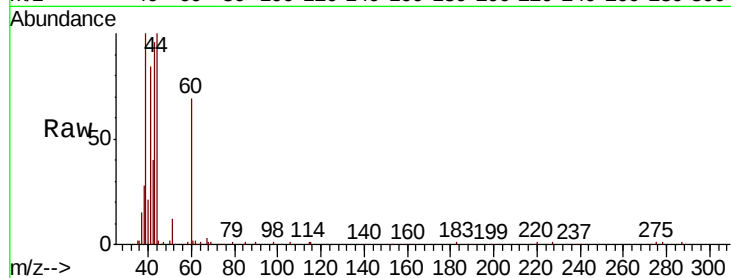
ClientSampleId :

Tot Ion: 41 Resp: 67532

Ion Ratio Lower Upper

41 100

42 57.8 56.2 84.2



#13

Ethanol

Concen: 18.841 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.02 min

Lab File: VL036385.D

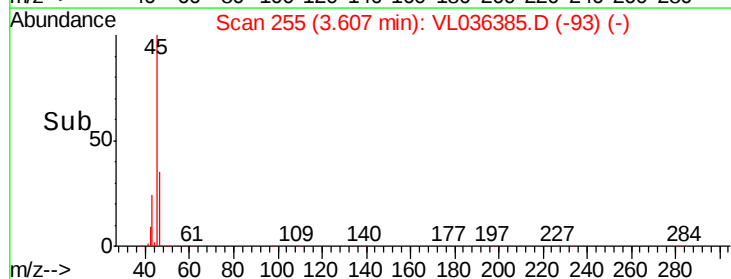
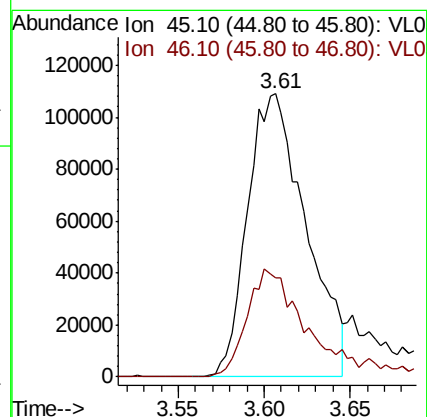
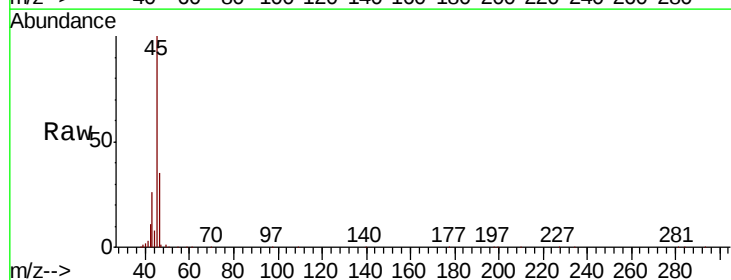
Acq: 25 Feb 2021 17:38

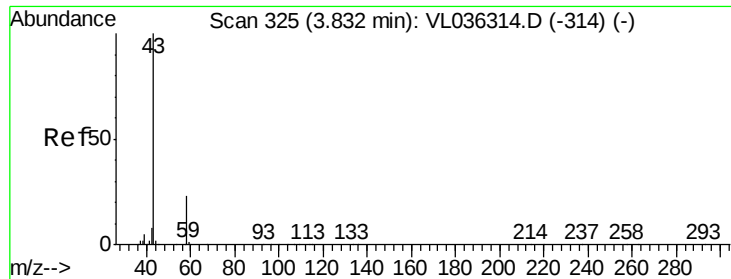
Tgt Ion: 45 Resp: 257763

Ion Ratio Lower Upper

45 100

46 43.5 17.7 70.7





#15

Acetone

Concen: 3.455 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

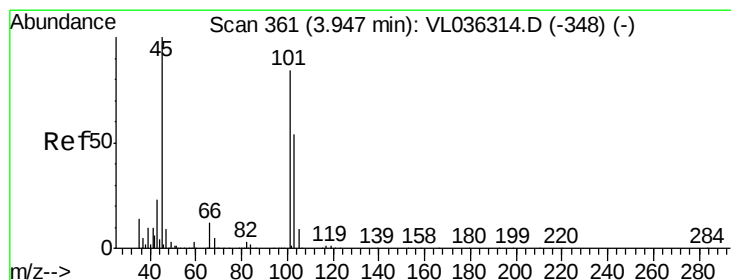
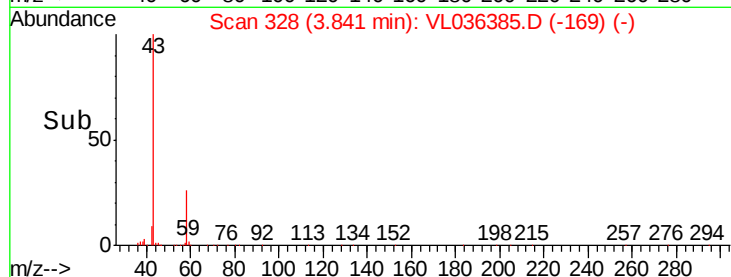
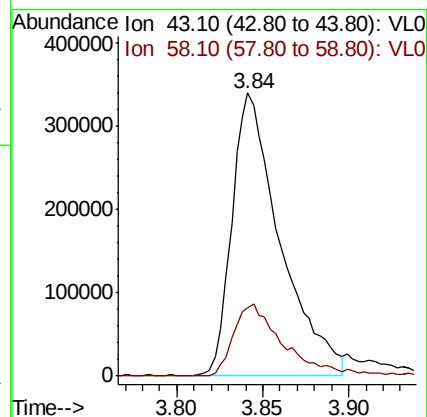
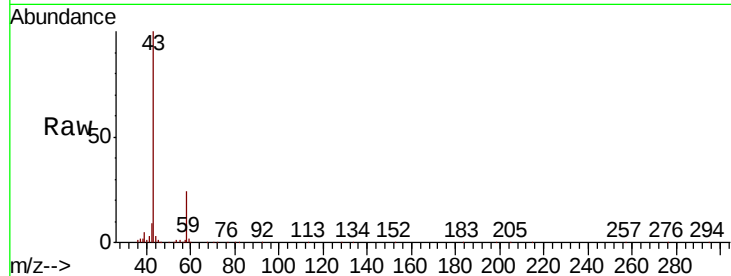
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 663936

Ion Ratio Lower Upper

43 100

58 27.3 20.3 30.5



#19

Isopropyl Alcohol

Concen: 0.841 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL036385.D

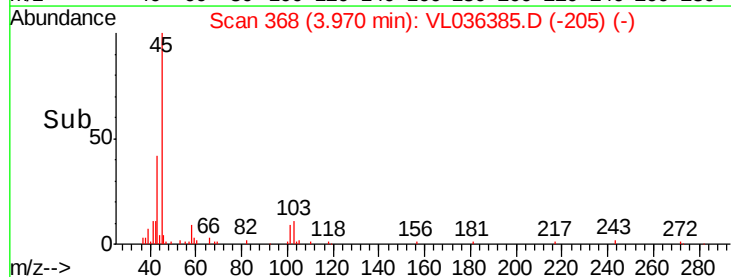
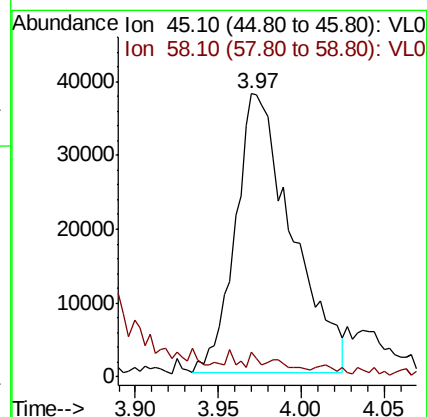
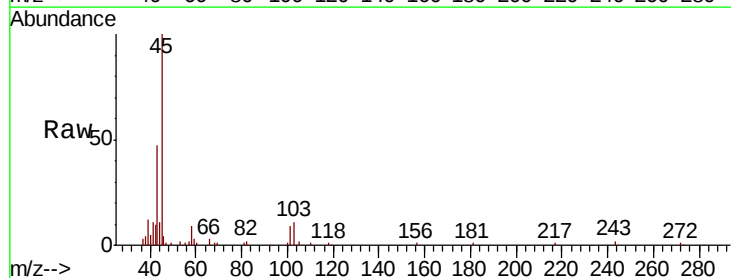
Acq: 25 Feb 2021 17:38

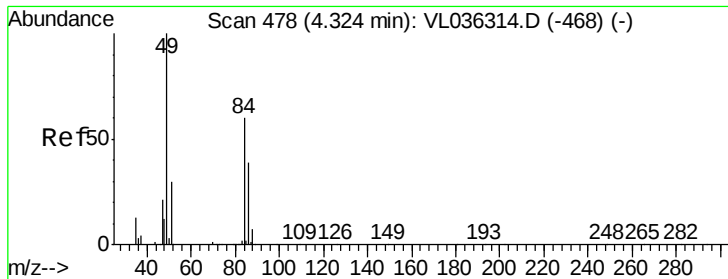
Tgt Ion: 45 Resp: 89507

Ion Ratio Lower Upper

45 100

58 8.5 1.9 2.9#

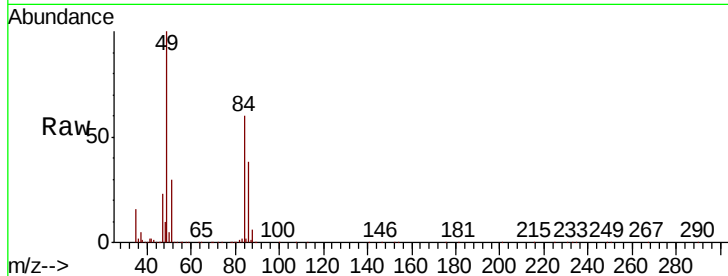




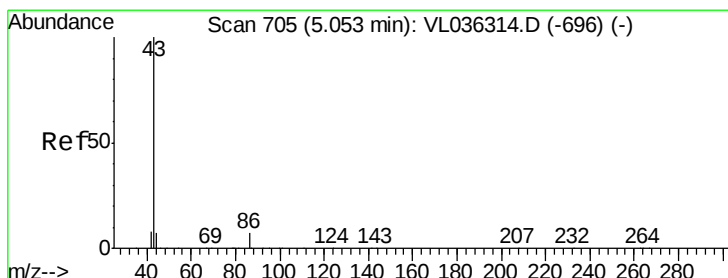
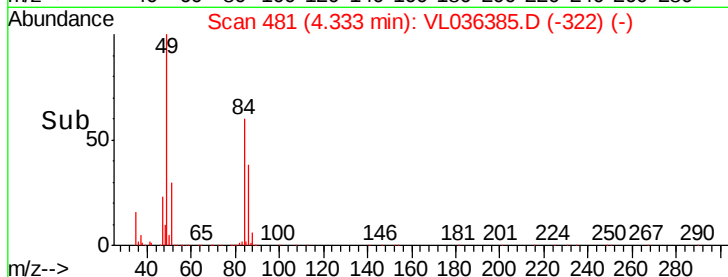
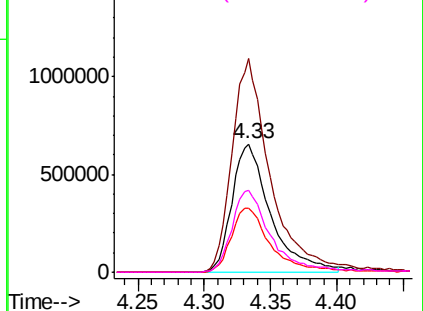
#20
Methvlene Chloride
Concen: 21.391 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	1326354
Ion	Ratio	Lower	Upper
84	100		
49	166.5	133.8	200.8
51	49.5	41.4	62.0
86	64.0	51.5	77.3

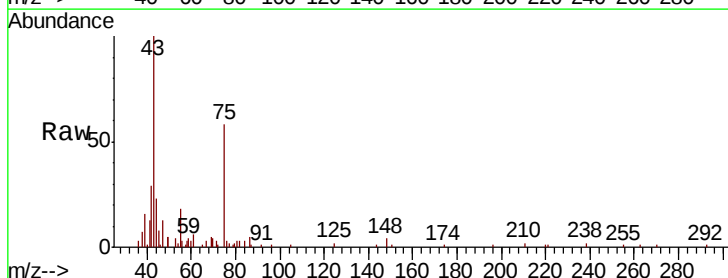


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

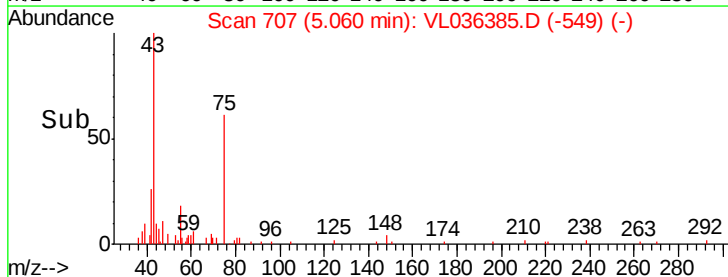
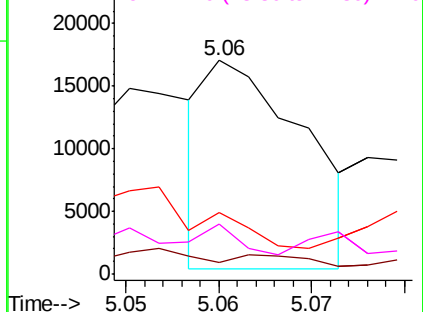


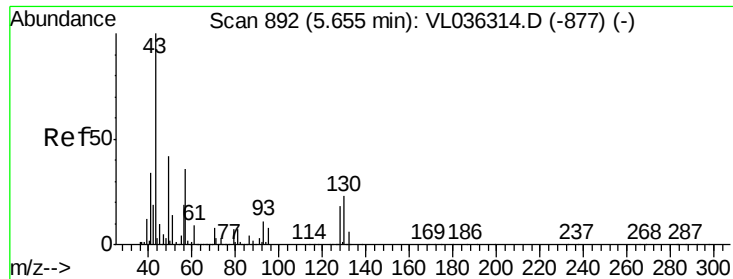
#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 5.06 min Scan# 707
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Tgt Ion:	43	Resp:	12158
Ion	Ratio	Lower	Upper
43	100		
86	6.4	4.8	7.2
42	23.3	7.4	11.0#
44	16.3	4.8	7.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0

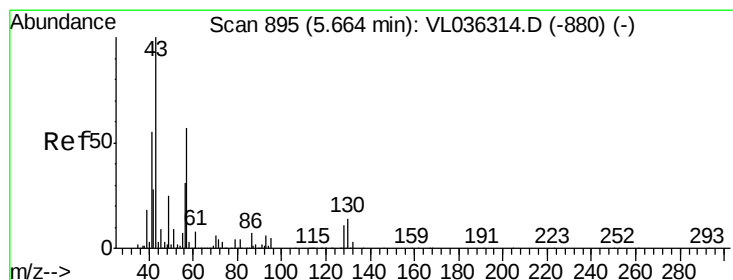
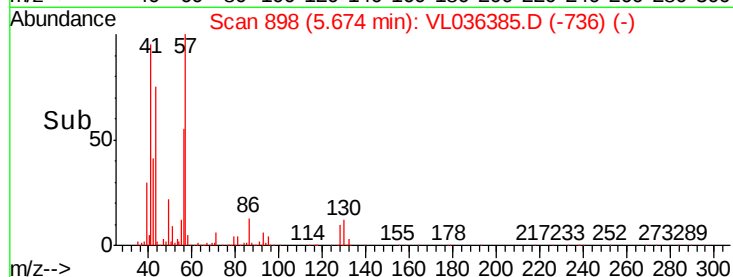
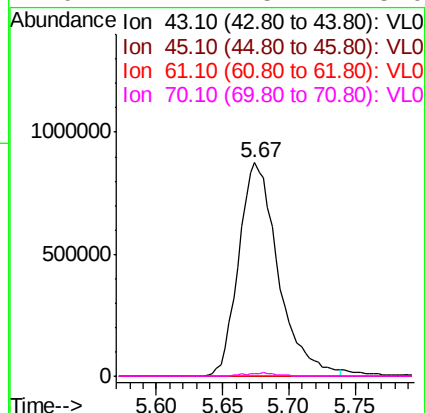
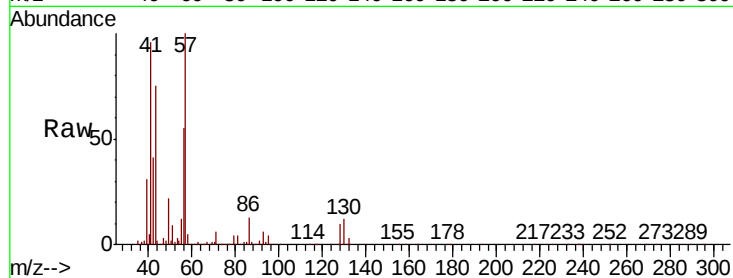




#25
Ethyl Acetate
Concen: 4.900 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.02 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

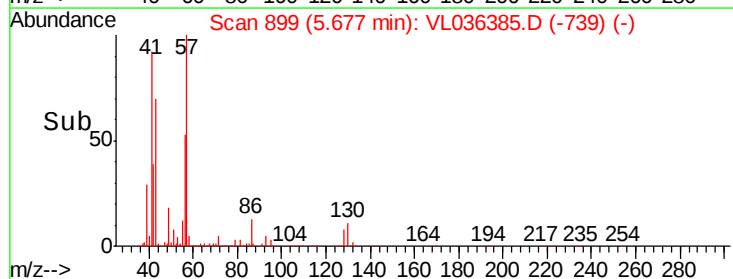
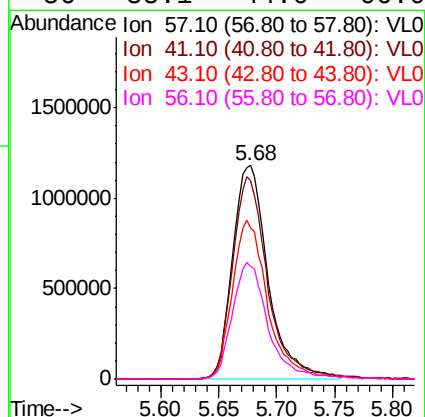
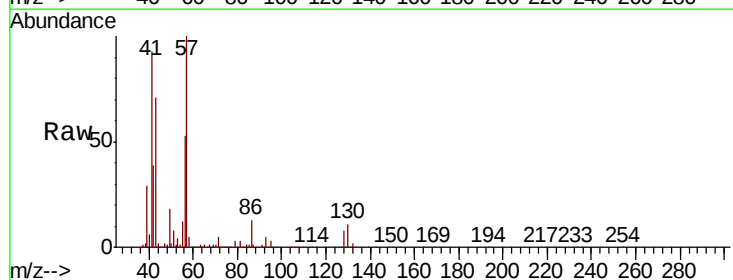
Instrument :
MSVOA_L
ClientSampled :

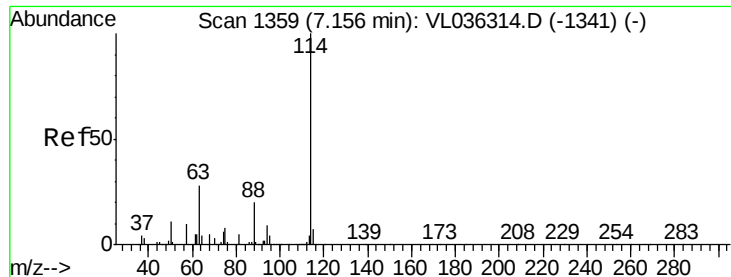
Tot Ion: 43 Resp: 1818191
Ion Ratio Lower Upper
43 100
45 0.3 8.3 12.5#
61 0.3 7.3 10.9#
70 1.4 5.4 8.0#



#26
Hexane
Concen: 16.356 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Tgt Ion: 57 Resp: 2493385
Ion Ratio Lower Upper
57 100
41 95.3 81.7 122.5
43 74.5 199.1 298.7#
56 55.1 44.0 66.0

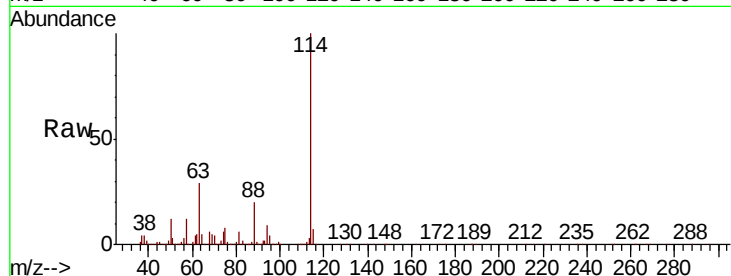




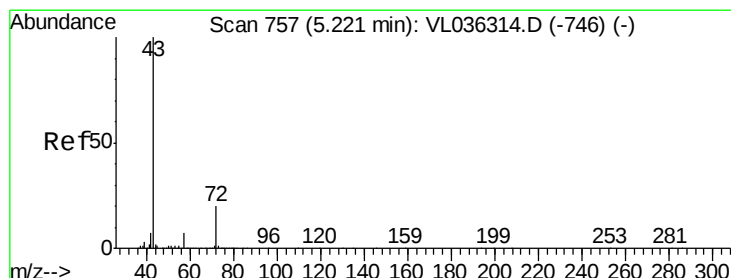
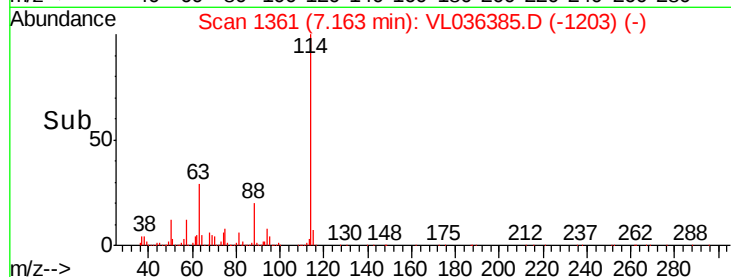
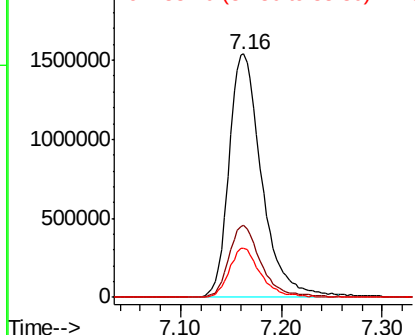
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3485293
 Ion Ratio Lower Upper
 114 100
 63 29.2 24.1 36.1
 88 19.6 16.0 24.0

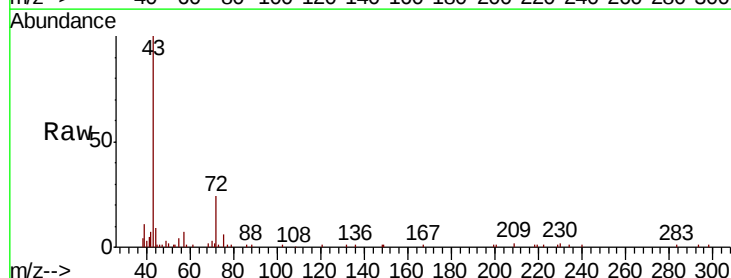


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

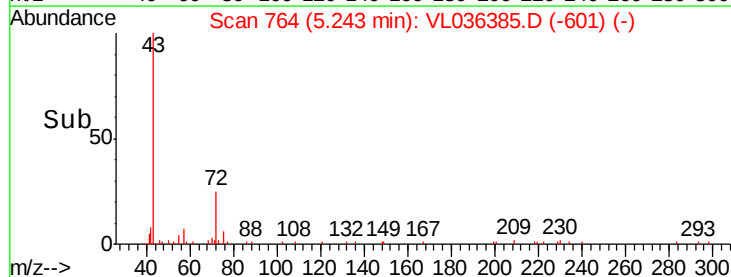
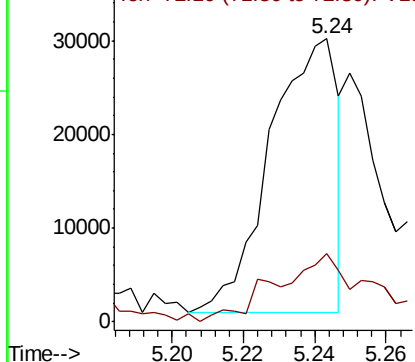


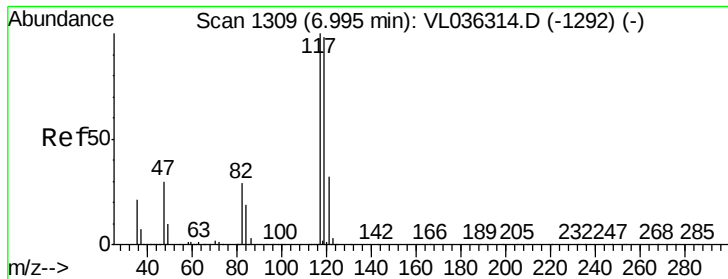
#34
 2-Butanone
 Concen: 0.164 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Tgt Ion: 43 Resp: 38081
 Ion Ratio Lower Upper
 43 100
 72 40.2 16.7 25.1#



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





#35

Carbon Tetrachloride

Concen: 0.040 ppbv

RT: 7.00 min Scan# 1311

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

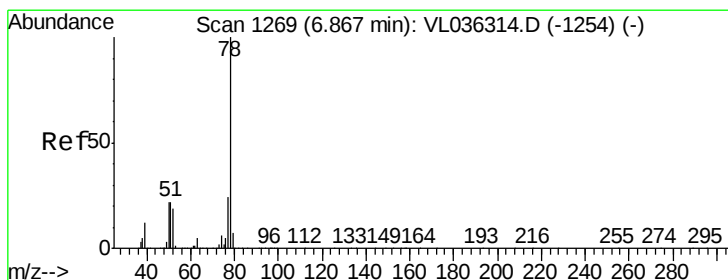
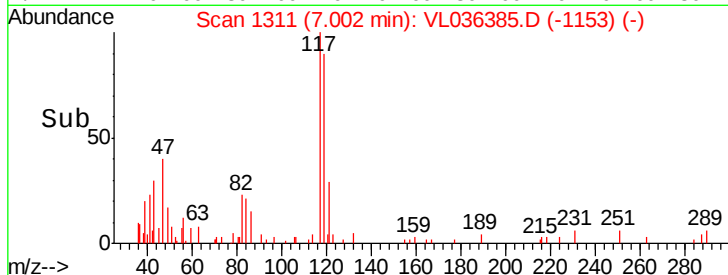
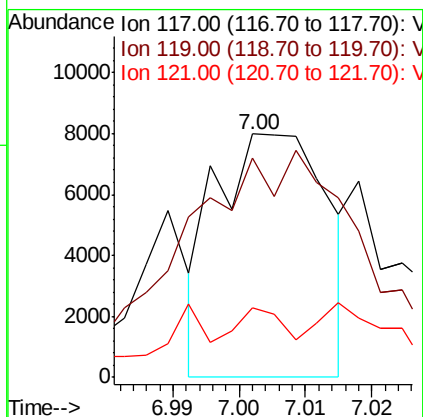
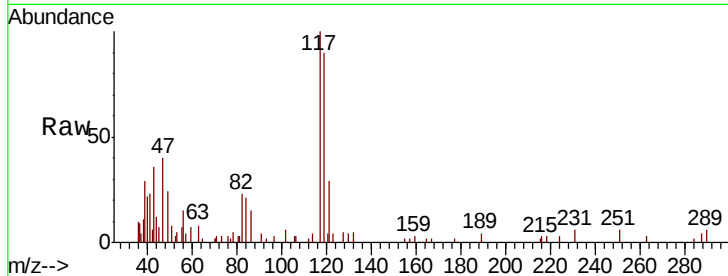
Tot Ion:117 Resp: 9291

Ion Ratio Lower Upper

117 100

119 43.1 78.1 117.1#

121 0.0 25.8 38.8#



#36

Benzene

Concen: 0.161 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

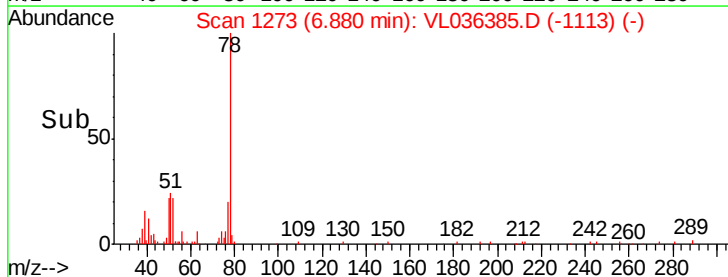
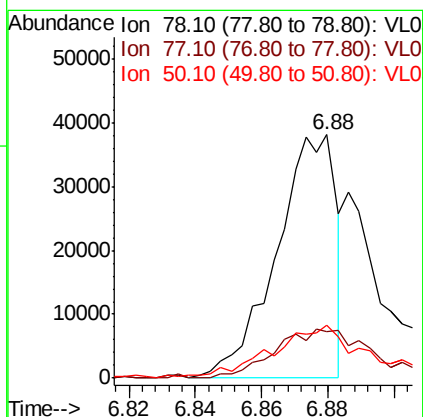
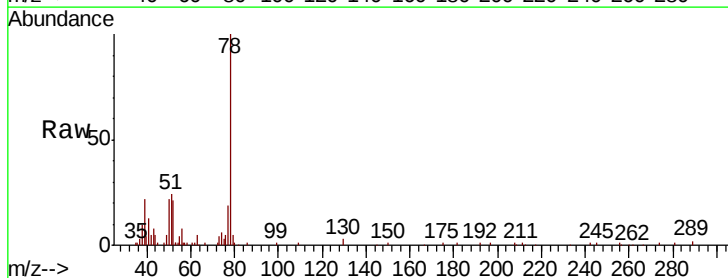
Tgt Ion: 78 Resp: 47793

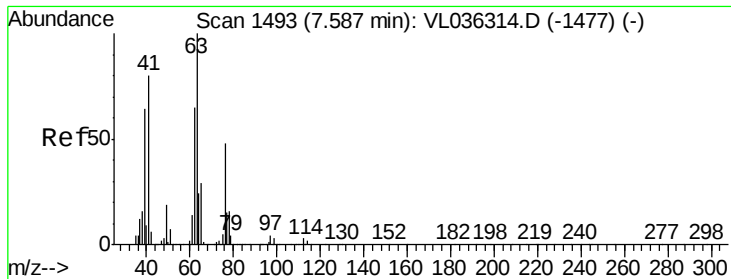
Ion Ratio Lower Upper

78 100

77 19.2 18.9 28.3

50 20.8 17.3 25.9

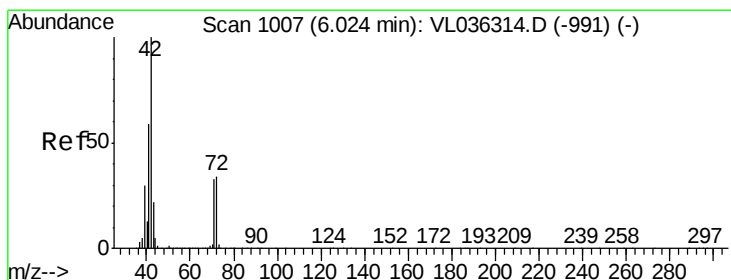
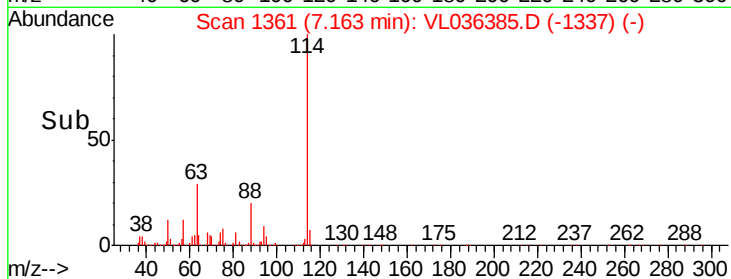
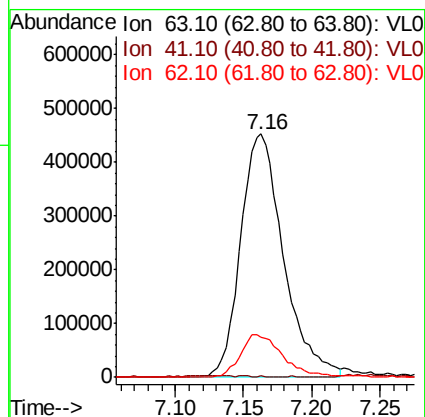
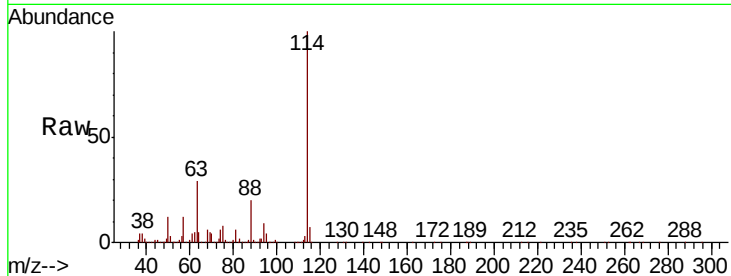




#39
 1,2-Dichloropropane
 Concen: 8.215 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.42 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

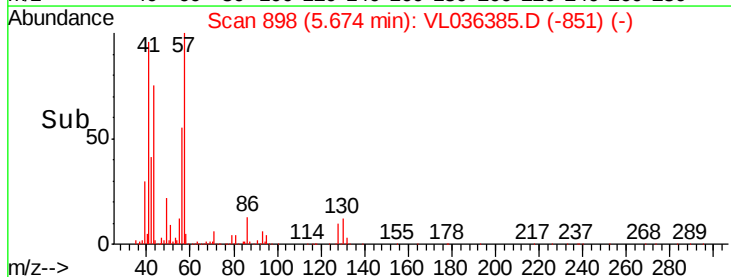
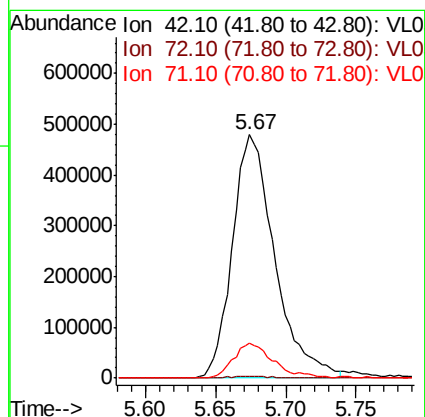
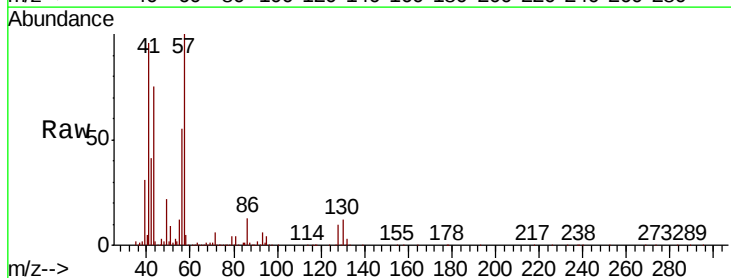
Instrument :
 MSVOA_L
 ClientSampleId :

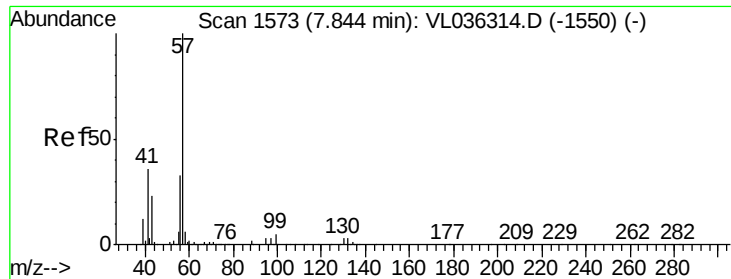
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.8	95.6#
62	16.6	52.3	78.5#



#41
 Tetrahydrofuran
 Concen: 7.782 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. -0.35 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.9	29.3	43.9#
71	14.0	27.8	41.8#

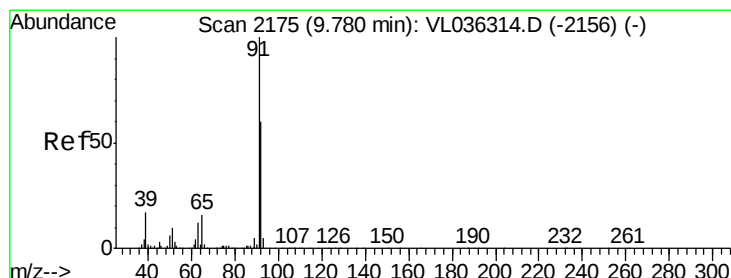
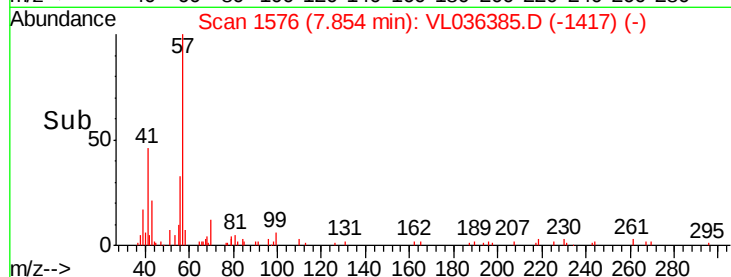
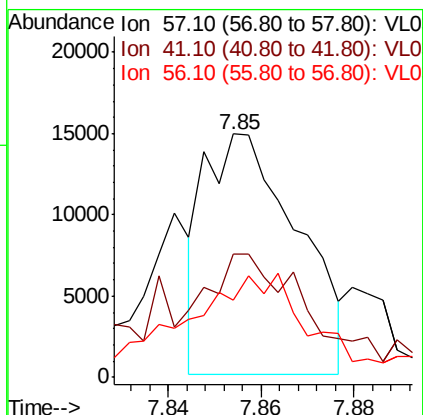
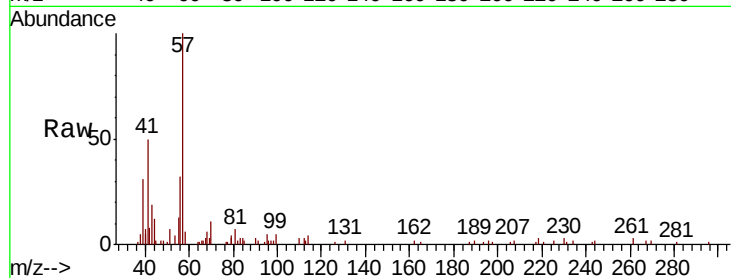




#44
 2,2,4-Trimethylpentane
 Concen: 0.038 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

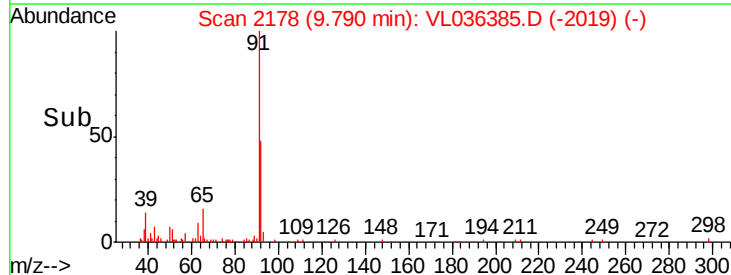
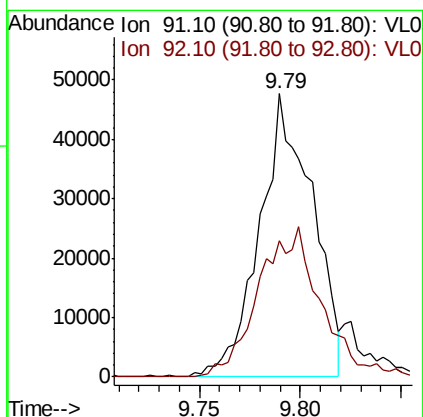
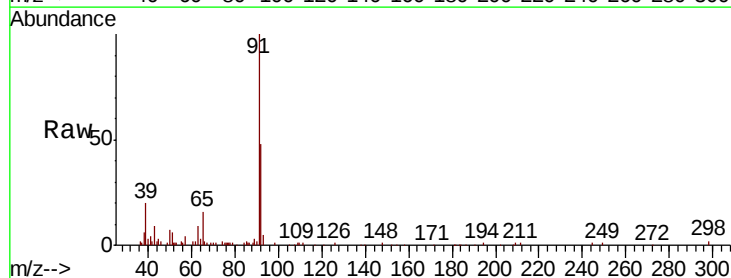
Instrument :
 MSVOA_L
 ClientSampleId :

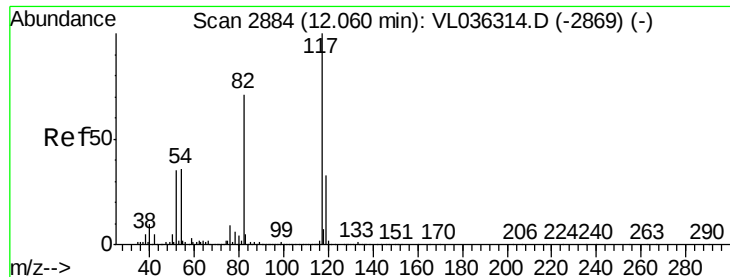
Tot Ion	57	Resp	20604
Ion Ratio	Lower	Upper	
57	100		
41	83.7	28.8	43.2#
56	72.4	25.8	38.6#



#53
 Toluene
 Concen: 0.269 ppbv
 RT: 9.79 min Scan# 2178
 Delta R.T. 0.01 min
 Lab File: VL036385.D
 Acq: 25 Feb 2021 17:38

Tgt Ion	91	Resp	86331
Ion Ratio	Lower	Upper	
91	100		
92	63.5	48.6	72.8

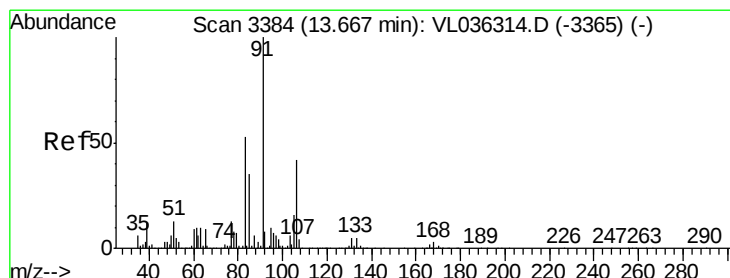
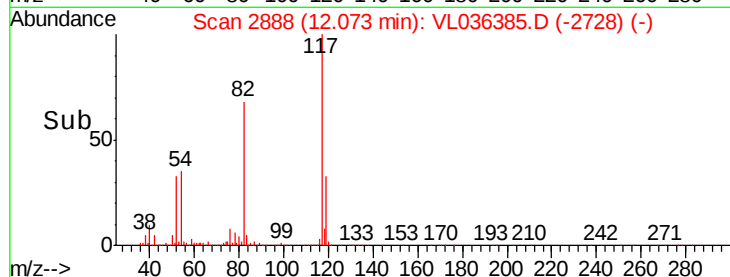
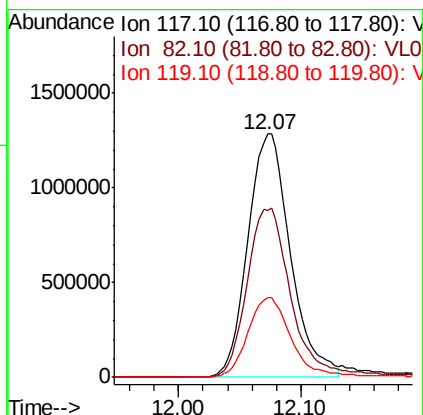
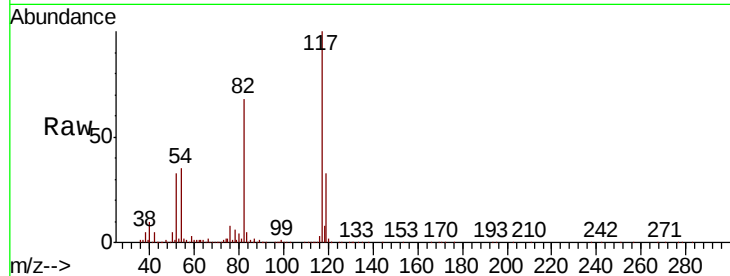




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

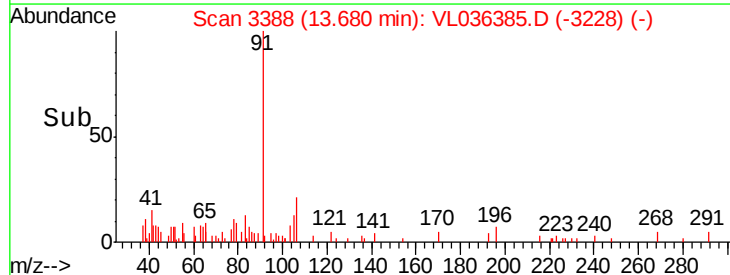
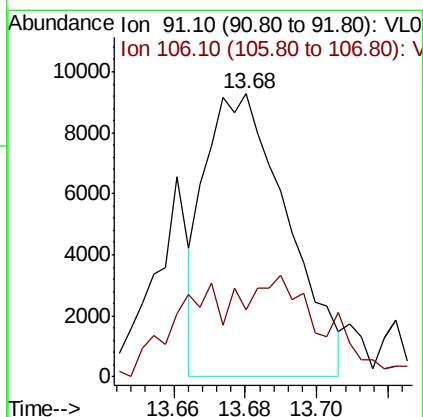
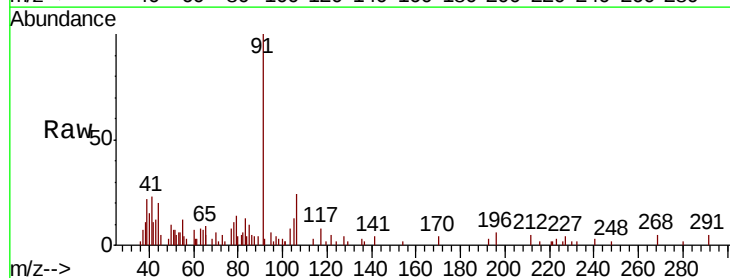
Instrument :
MSVOA_L
ClientSampleId :

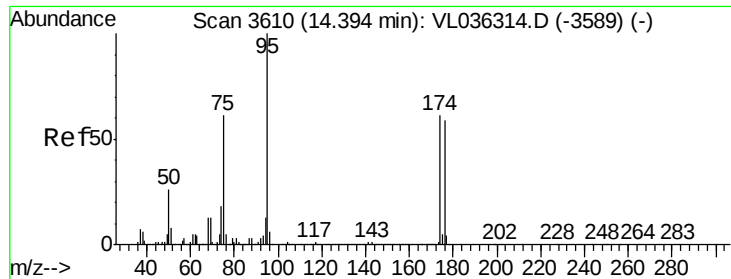
Tot Ion:117 Resp: 3104212
Ion Ratio Lower Upper
117 100
82 73.5 59.1 88.7
119 34.0 46.3 69.5#



#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. 0.01 min
Lab File: VL036385.D
Acq: 25 Feb 2021 17:38

Tgt Ion: 91 Resp: 14796
Ion Ratio Lower Upper
91 100
106 58.0 22.0 66.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.950 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. 0.01 min

Lab File: VL036385.D

Acq: 25 Feb 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

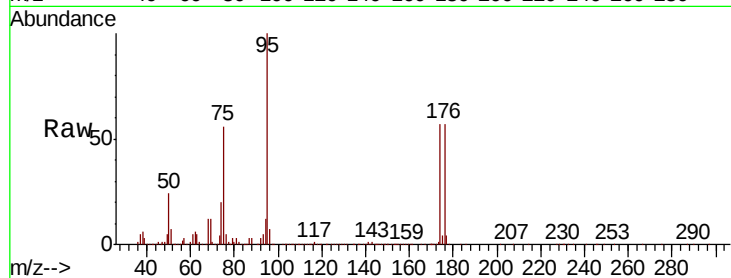
Tot Ion: 95 Resp: 2541375

Ion Ratio Lower Upper

95 100

174 62.7 49.8 74.6

175 4.5 3.7 5.5



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

