

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022521\
 Data File : VL036383.D
 Acq On : 25 Feb 2021 16:18
 Operator : SY/AP
 Sample : M1463-13DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

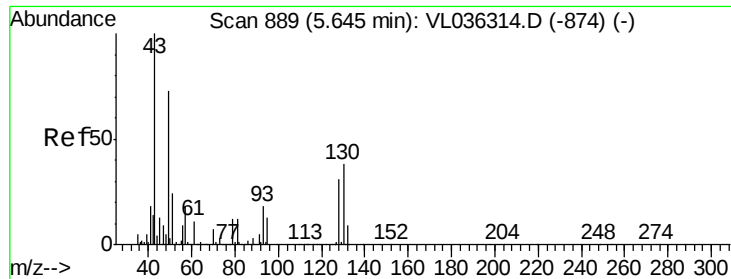
Quant Time: Feb 26 00:36:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1553762	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.17	114	3475452	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3093368	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2497147	9.81	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	10722	0.056	ppbv	95
4) Chloromethane	3.13	50	7102	0.076	ppbv	99
9) Propene	3.01	41	68854	0.957	ppbv #	80
10) Heptane	8.11	43	22903	0.108	ppbv #	68
13) Ethanol	3.59	45	720322	53.280	ppbv	89
15) Acetone	3.84	43	356095	1.875	ppbv	93
16) 1,3-Butadiene	3.31	39	3971	0.044	ppbv #	9
19) Isopropyl Alcohol	3.96	45	645853	6.138	ppbv #	97
20) Methylene Chloride	4.33	84	58948	0.962	ppbv	96
25) Ethyl Acetate	5.67	43	53548	0.146	ppbv #	89
26) Hexane	5.67	57	123456	0.819	ppbv #	40
27) Carbon Disulfide	4.55	76	5340	0.039	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	959850	8.004	ppbv #	24
44) 2,2,4-Trimethylpentane	7.86	57	179797	0.335	ppbv #	79
53) Toluene	9.80	91	271136	0.848	ppbv	98
58) Ethyl Benzene	12.70	91	29000	0.068	ppbv	92
59) m/p-Xylene	12.99	91	33339	0.090	ppbv #	33
60) o-Xylene	13.68	91	18718	0.053	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.76	105	12303	0.031	ppbv #	56

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

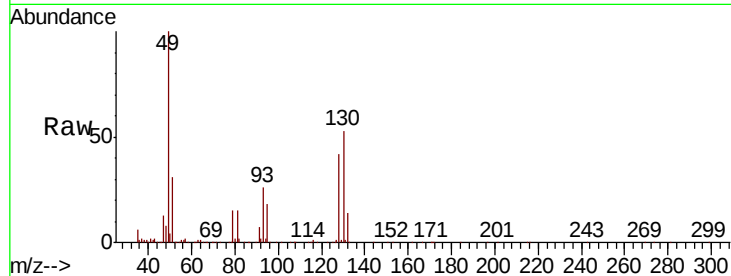
Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1553762

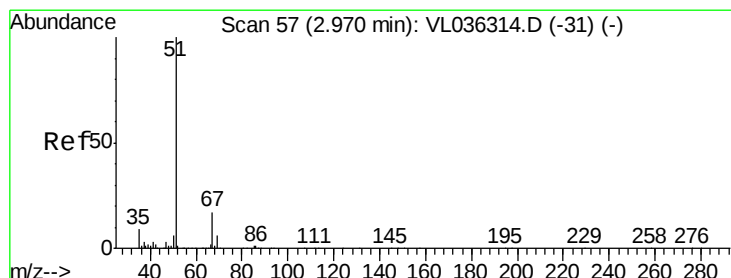
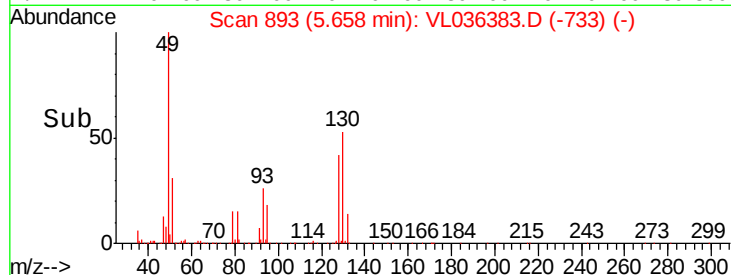
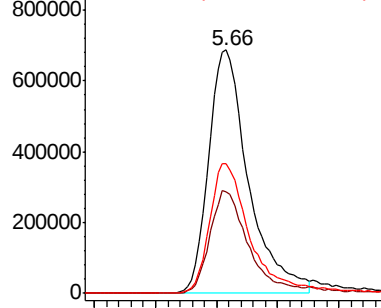
Ion	Ratio	Lower	Upper
49	100		
128	43.6	20.8	62.5
130	54.9	26.7	80.1



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



#3

Chlorodifluoromethane

Concen: 0.056 ppbv

RT: 2.99 min Scan# 62

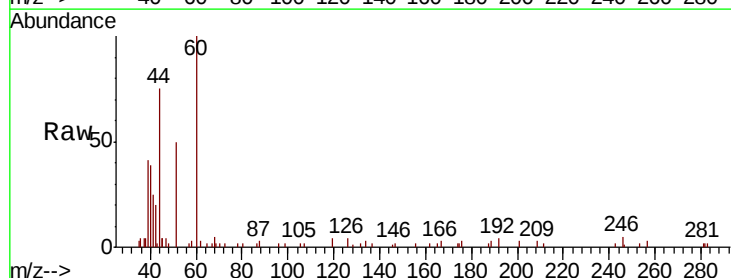
Delta R.T. 0.02 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

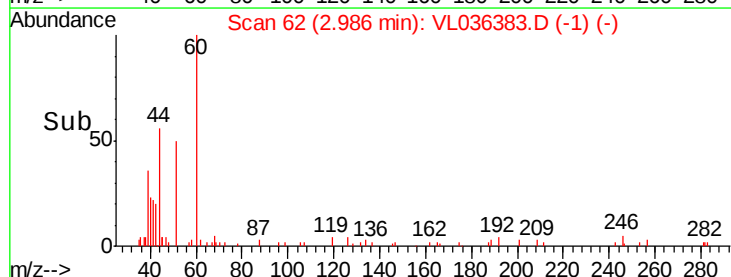
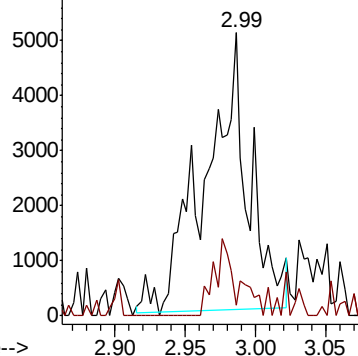
Tgt Ion: 51 Resp: 10722

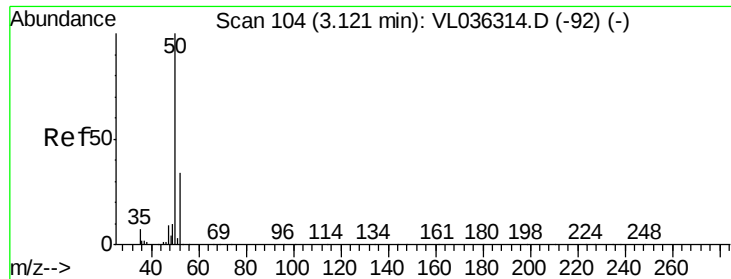
Ion	Ratio	Lower	Upper
51	100		
67	16.1	14.7	22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.076 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :

MSVOA_L

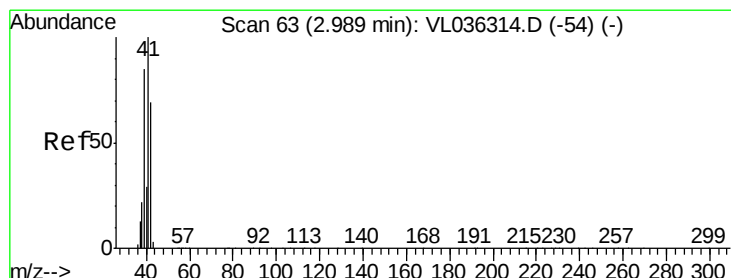
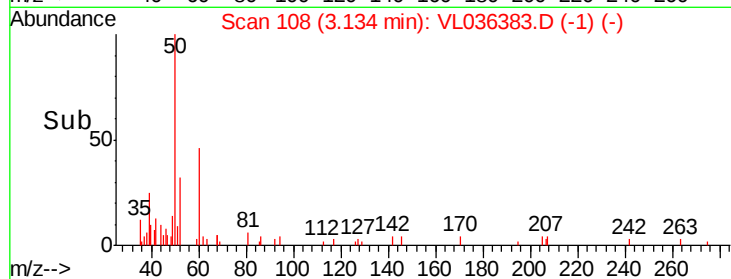
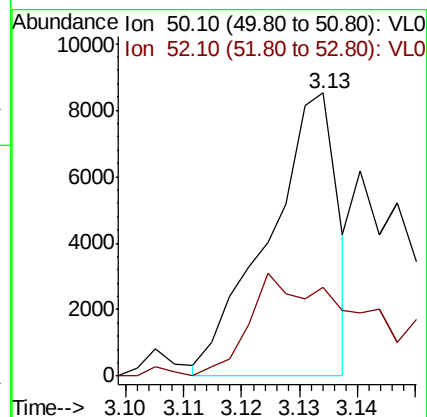
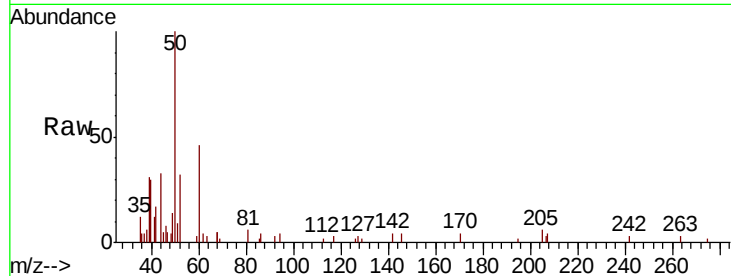
ClientSampleId :

Tot Ion: 50 Resp: 7102

Ion Ratio Lower Upper

50 100

52 32.9 27.0 40.4



#9

Propene

Concen: 0.957 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL036383.D

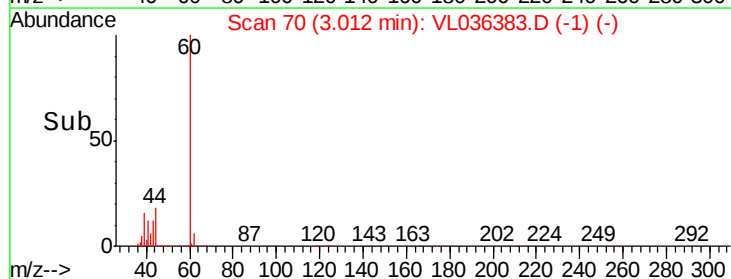
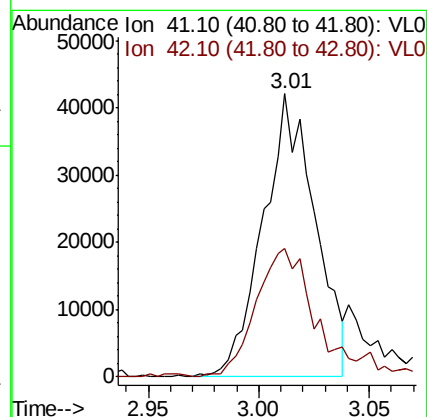
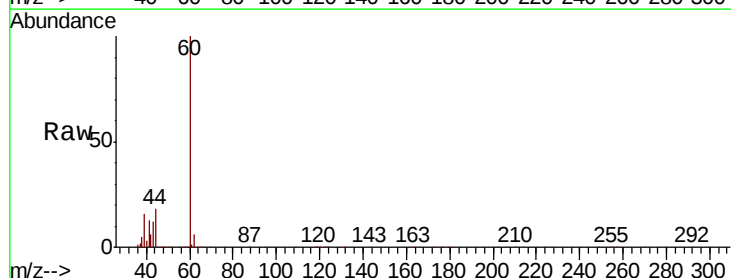
Acq: 25 Feb 2021 16:18

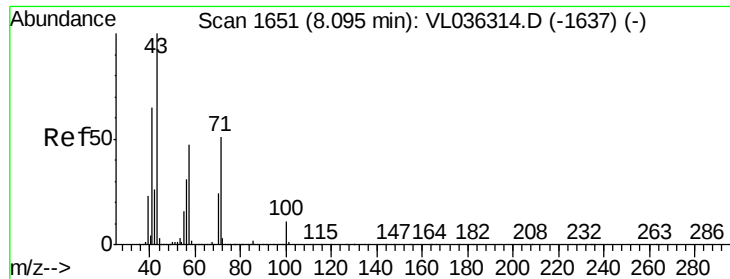
Tgt Ion: 41 Resp: 68854

Ion Ratio Lower Upper

41 100

42 54.1 56.2 84.2#

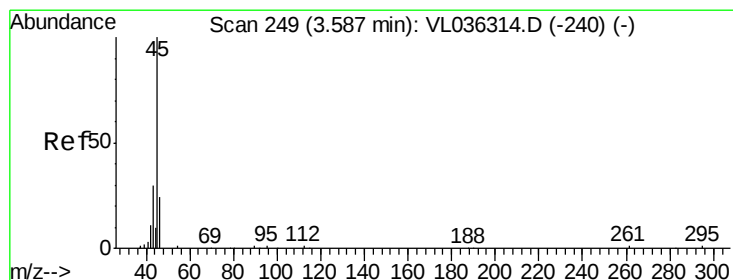
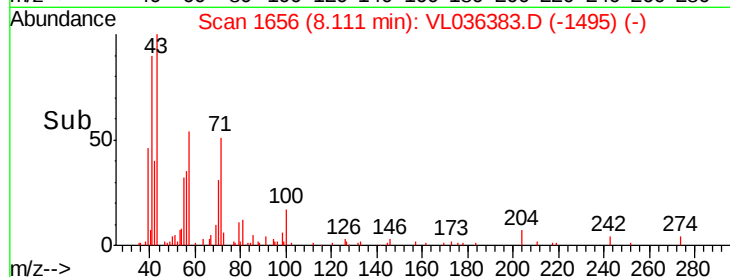
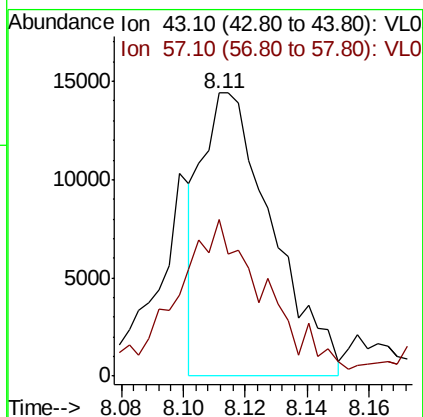
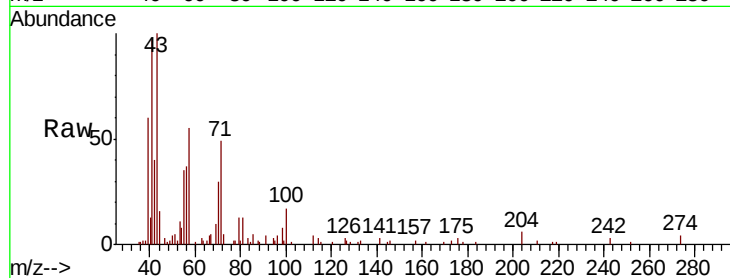




#10
Heptane
Concen: 0.108 ppbv
RT: 8.11 min Scan# 1656
Delta R.T. 0.02 min
Lab File: VL036383.D
Acq: 25 Feb 2021 16:18

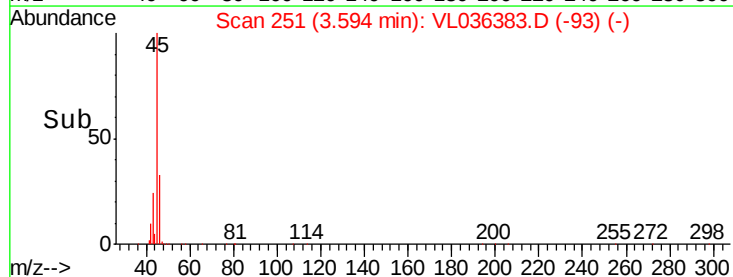
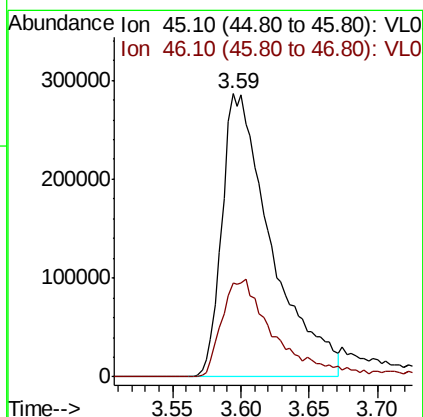
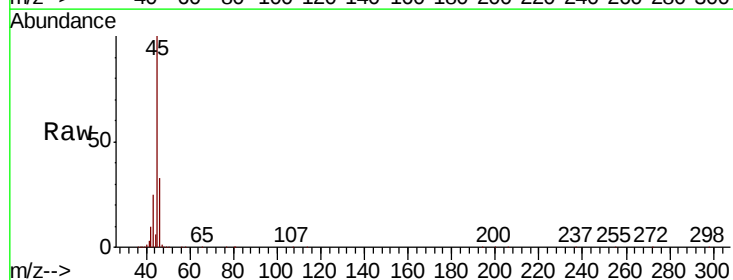
Instrument :
MSVOA_L
ClientSampleId :

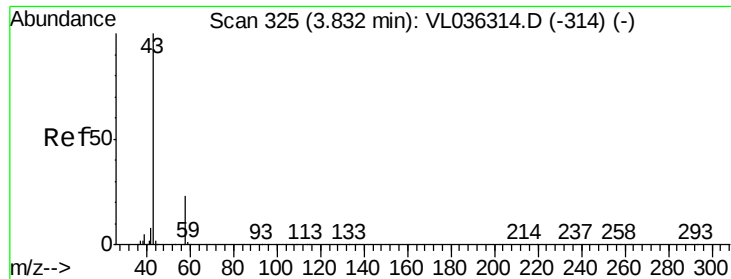
Tot Ion: 43 Resp: 22903
Ion Ratio Lower Upper
43 100
57 71.4 39.4 59.2#



#13
Ethanol
Concen: 53.280 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL036383.D
Acq: 25 Feb 2021 16:18

Tgt Ion: 45 Resp: 720322
Ion Ratio Lower Upper
45 100
46 37.0 17.7 70.7





#15

Acetone

Concen: 1.875 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :

MSVOA_L

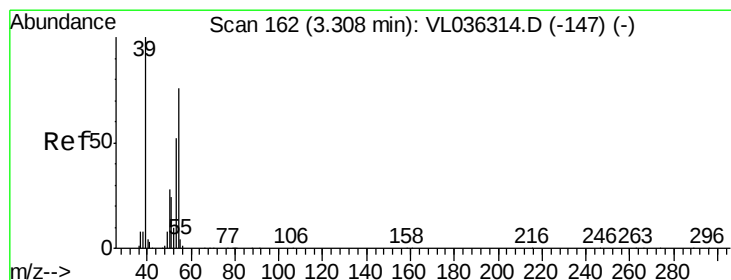
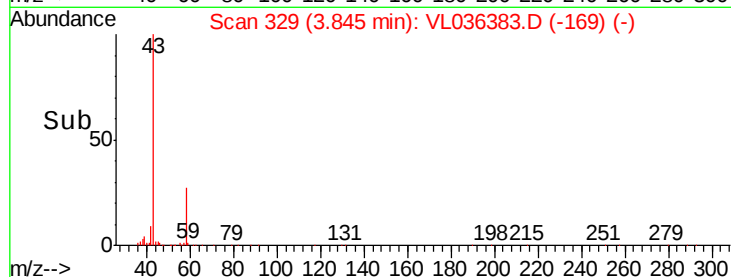
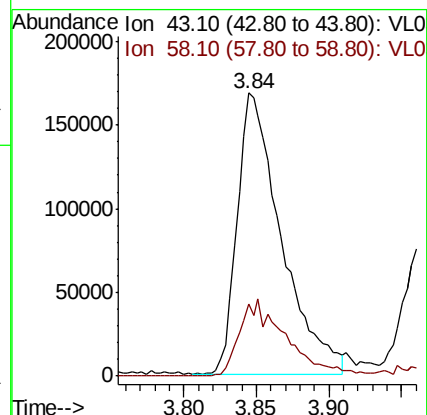
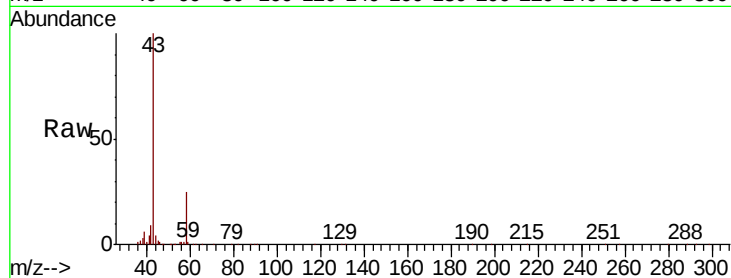
ClientSampleId :

Tot Ion: 43 Resp: 356095

Ion Ratio Lower Upper

43 100

58 28.8 20.3 30.5



#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.00 min

Lab File: VL036383.D

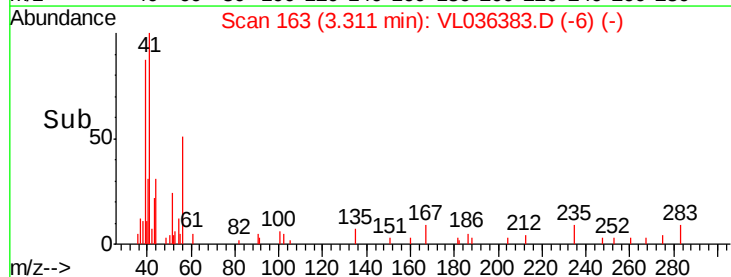
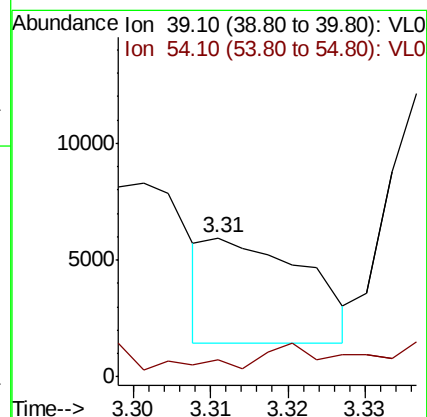
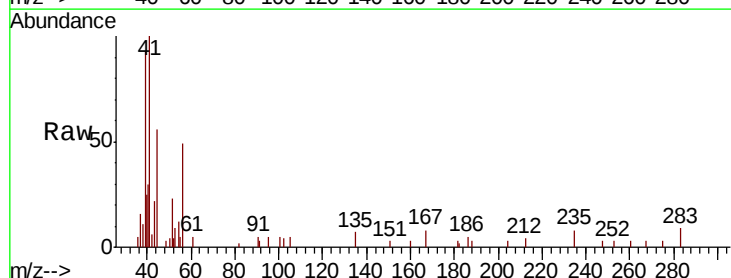
Acq: 25 Feb 2021 16:18

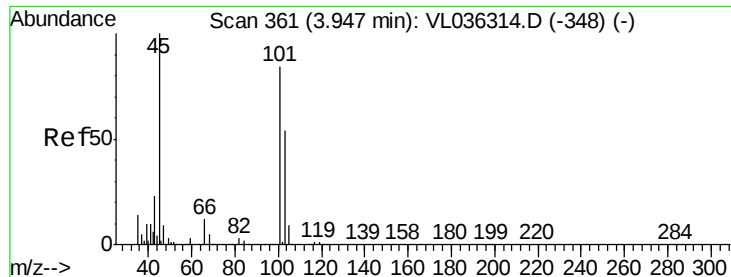
Tgt Ion: 39 Resp: 3971

Ion Ratio Lower Upper

39 100

54 0.0 64.4 96.6#





#19

Isopropyl Alcohol

Concen: 6.138 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :

MSVOA_L

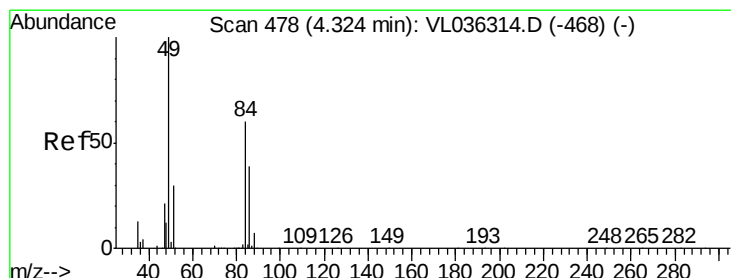
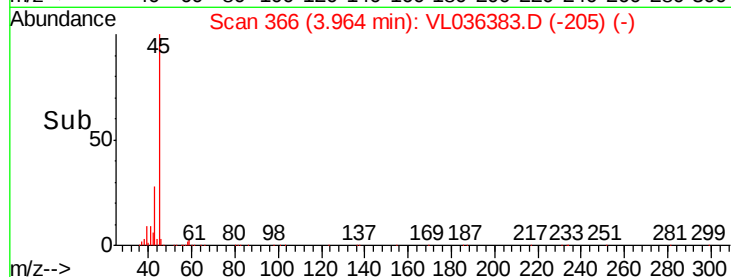
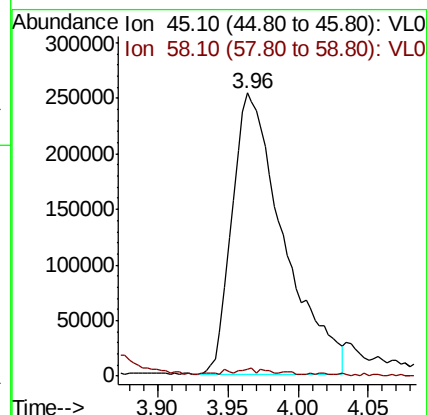
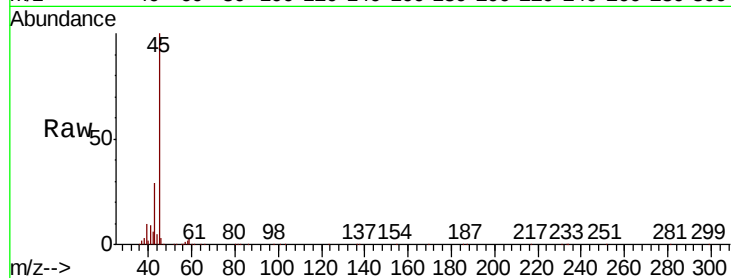
ClientSampled :

Tot Ion: 45 Resp: 645853

Ion Ratio Lower Upper

45 100

58 3.3 1.9 2.9#



#20

Methylene Chloride

Concen: 0.962 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Tgt Ion: 84 Resp: 58948

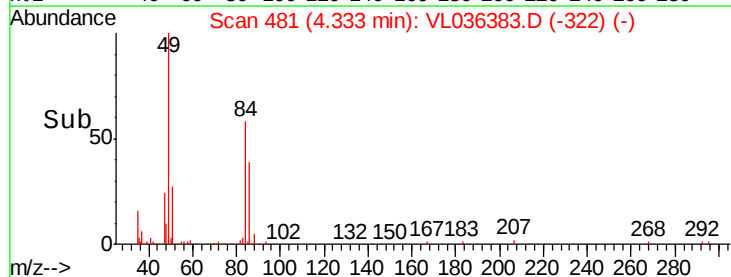
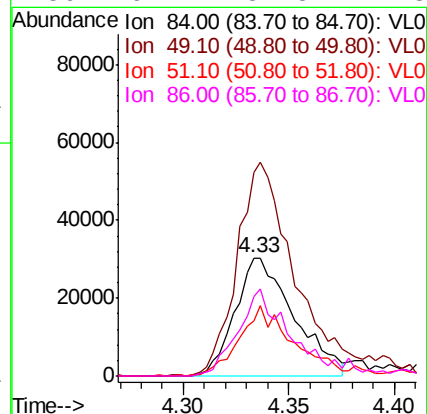
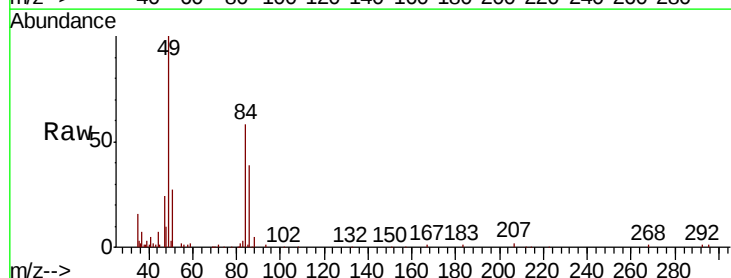
Ion Ratio Lower Upper

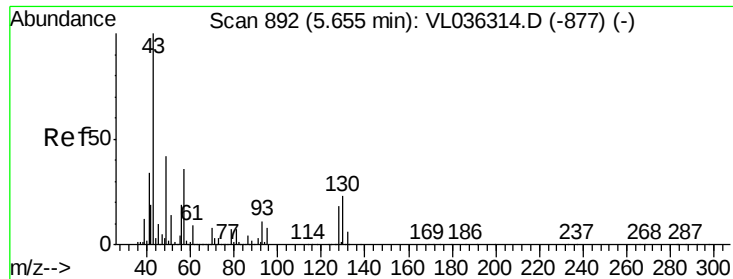
84 100

49 171.0 133.8 200.8

51 45.3 41.4 62.0

86 67.4 51.5 77.3

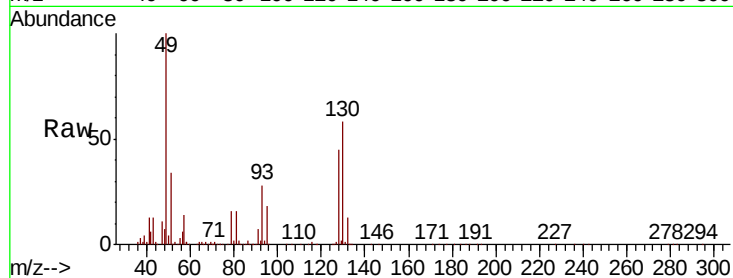




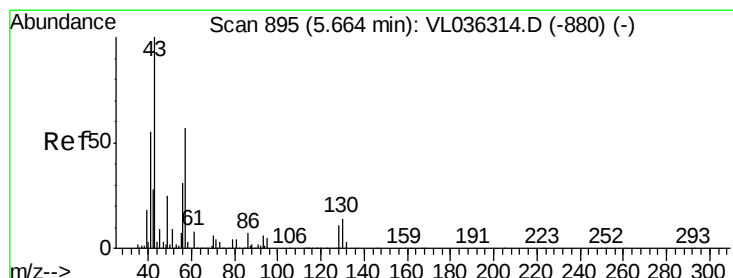
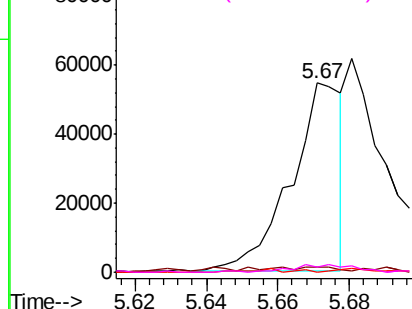
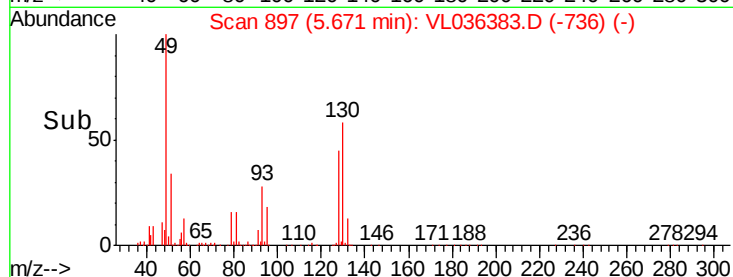
#25
Ethyl Acetate
Concen: 0.146 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.02 min
Lab File: VL036383.D
Acq: 25 Feb 2021 16:18

Instrument :
MSVOA_L
ClientSampleID :

Tot Ion:	43	Resp:	53548
Ion	Ratio	Lower	Upper
43	100		
45	5.9	8.3	12.5#
61	3.6	7.3	10.9#
70	5.7	5.4	8.0

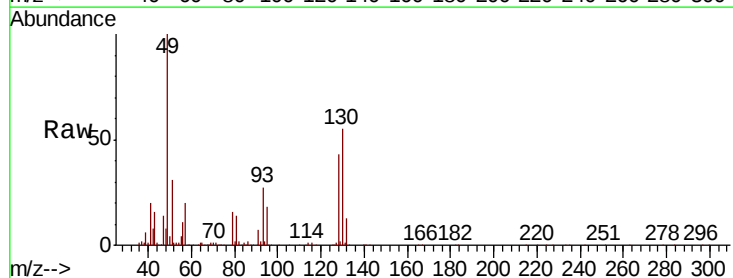


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

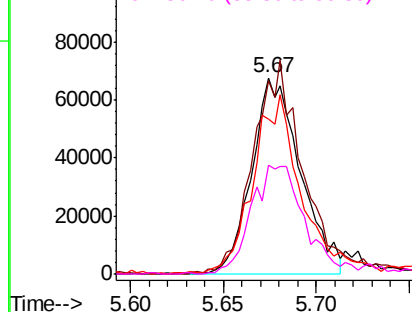
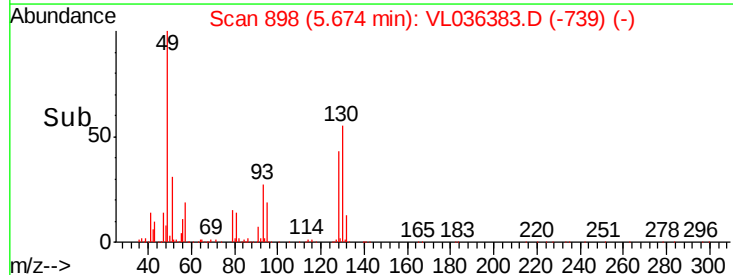


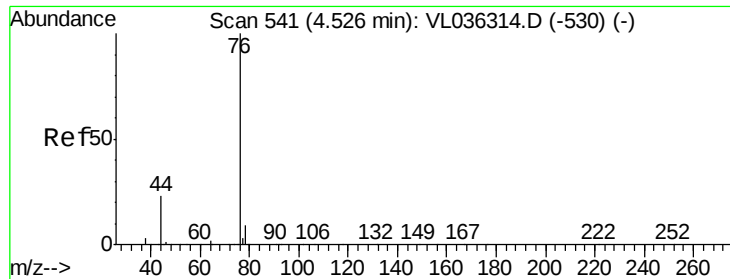
#26
Hexane
Concen: 0.819 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL036383.D
Acq: 25 Feb 2021 16:18

Tgt Ion:	57	Resp:	123456
Ion	Ratio	Lower	Upper
57	100		
41	116.7	81.7	122.5
43	94.6	199.1	298.7#
56	63.9	44.0	66.0



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: 0.039 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.02 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :

MSVOA_L

ClientSampleId :

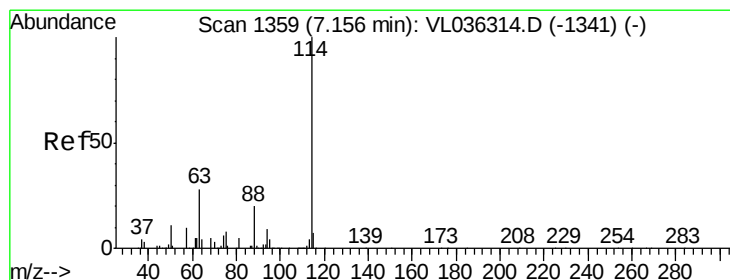
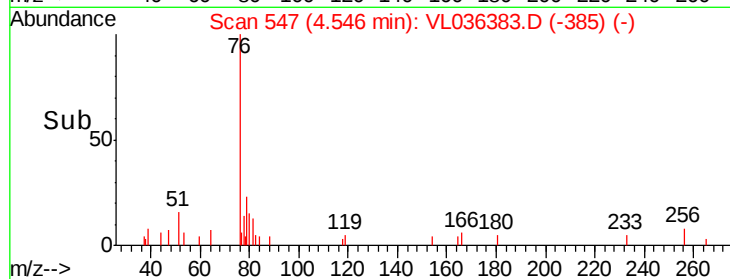
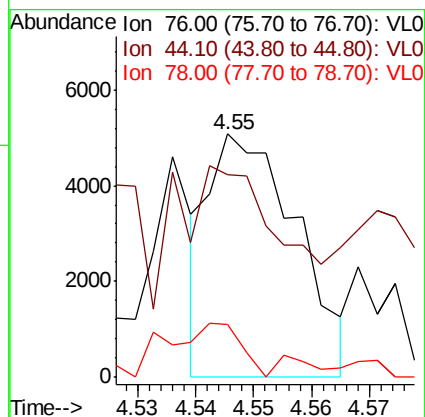
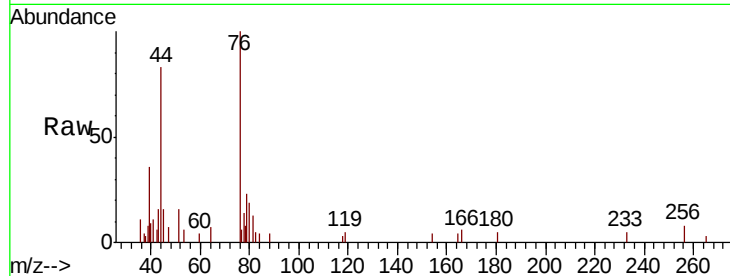
Tot Ion: 76 Resp: 5340

Ion Ratio Lower Upper

76 100

44 110.3 18.4 27.6#

78 25.2 8.0 12.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

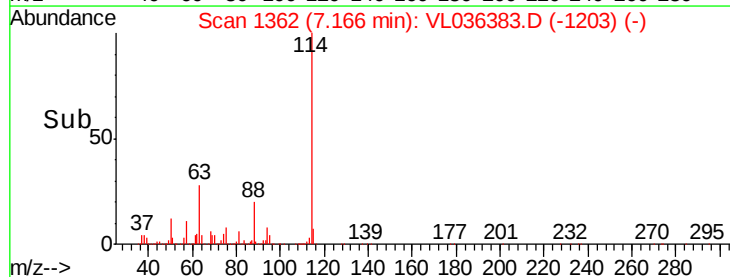
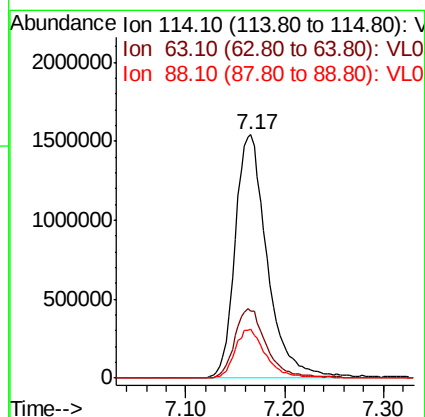
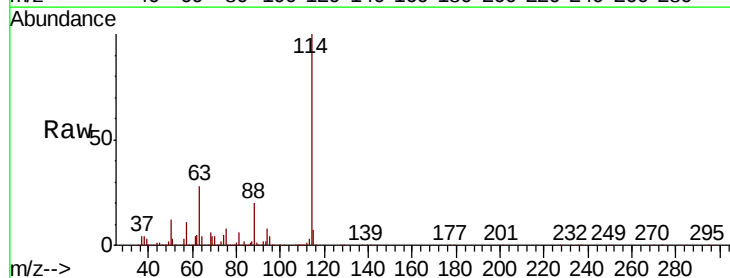
Tgt Ion: 114 Resp: 3475452

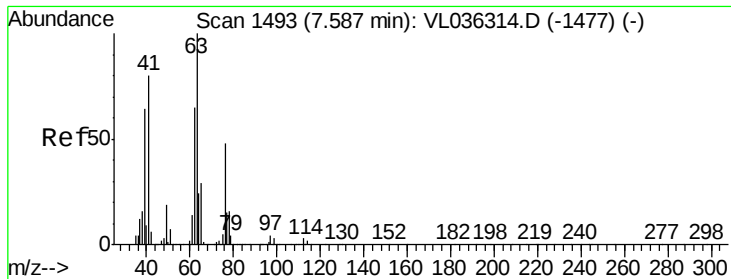
Ion Ratio Lower Upper

114 100

63 28.7 24.1 36.1

88 19.8 16.0 24.0

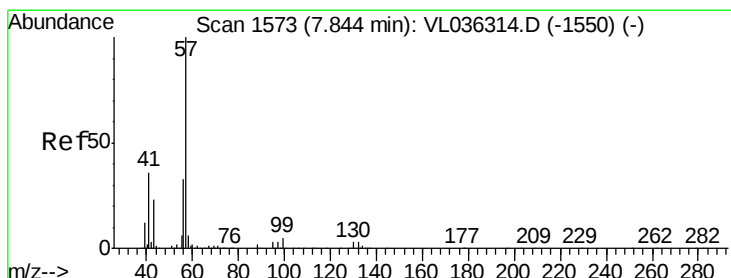
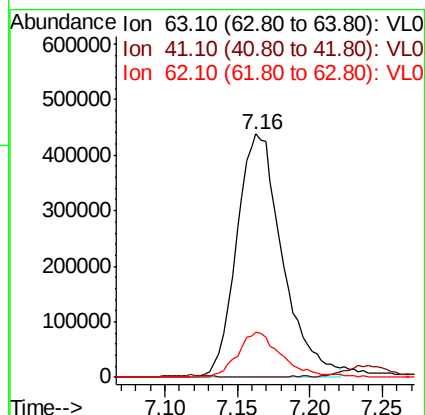
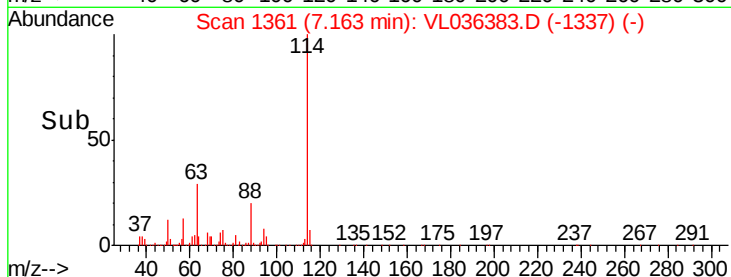
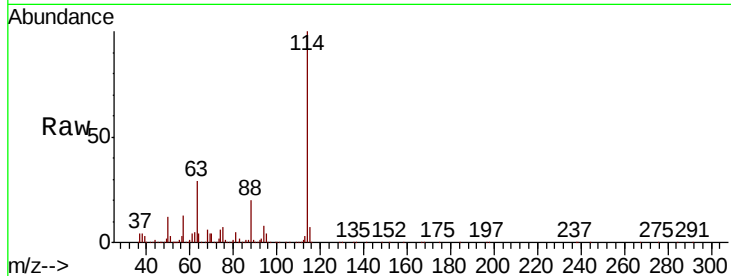




#39
 1,2-Dichloropropane
 Concen: 8.004 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.42 min
 Lab File: VL036383.D
 Acq: 25 Feb 2021 16:18

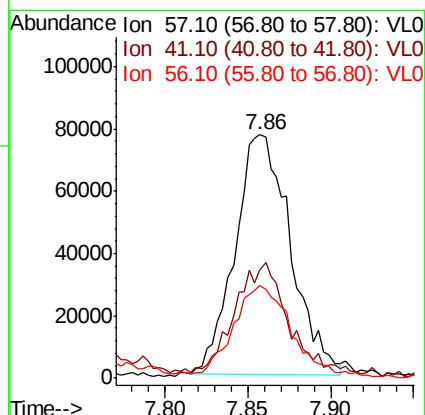
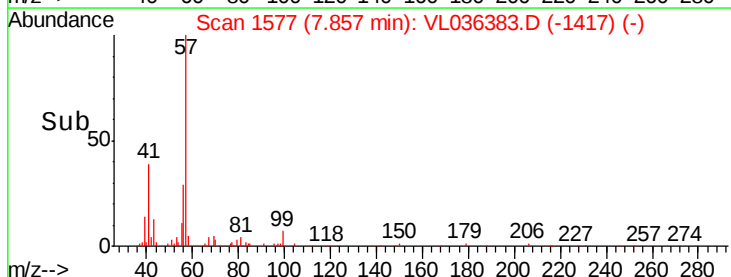
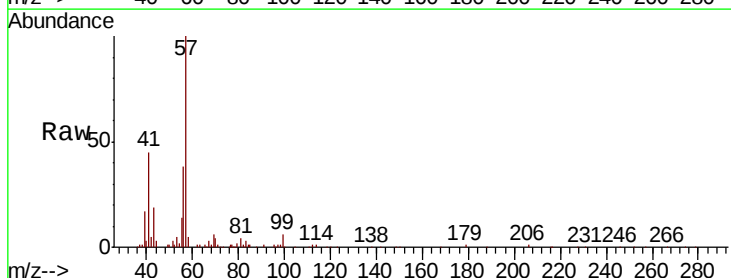
Instrument :
 MSVOA_L
 ClientSampleId :

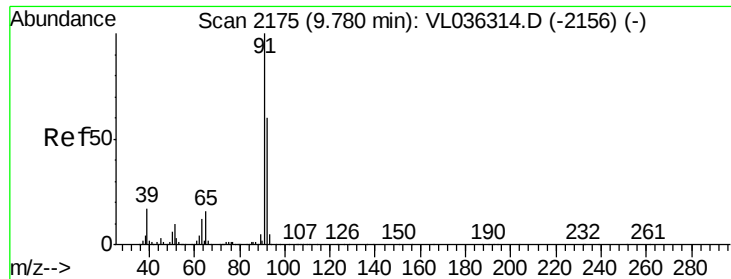
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.8	95.6#
62	18.6	52.3	78.5#



#44
 2,2,4-Trimethylpentane
 Concen: 0.335 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VL036383.D
 Acq: 25 Feb 2021 16:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.8	28.8	43.2#
56	42.5	25.8	38.6#





#53

Toluene

Concen: 0.848 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.02 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :

MSVOA_L

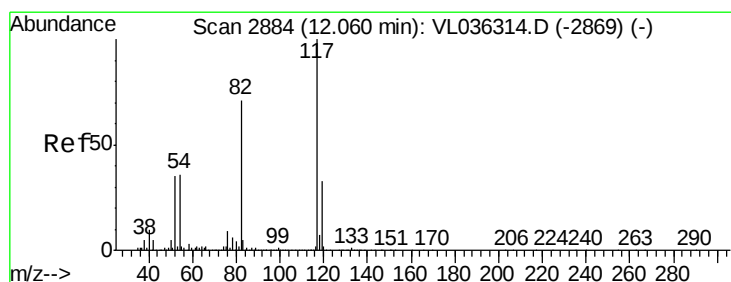
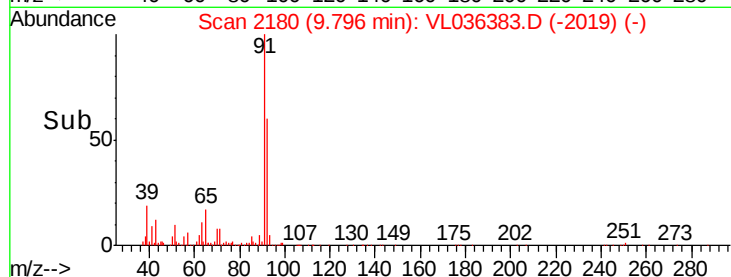
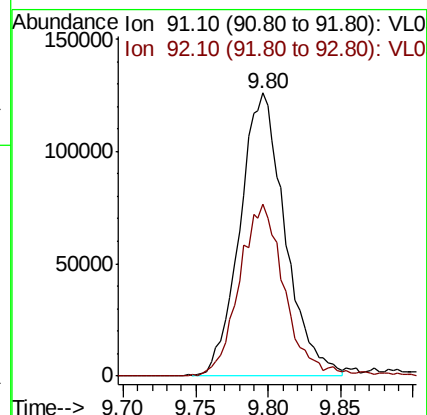
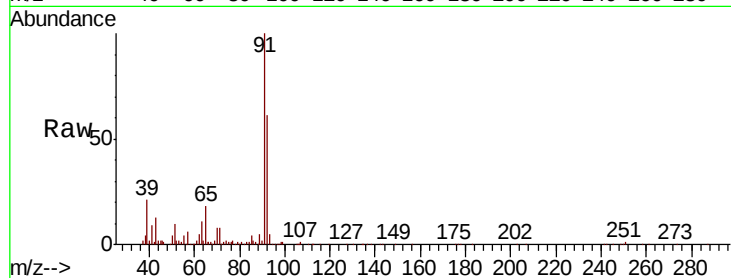
ClientSampleId :

Tot Ion: 91 Resp: 271136

Ion Ratio Lower Upper

91 100

92 62.0 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: VL036383.D

Acq: 25 Feb 2021 16:18

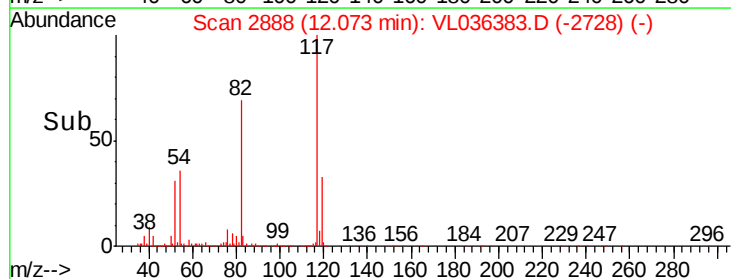
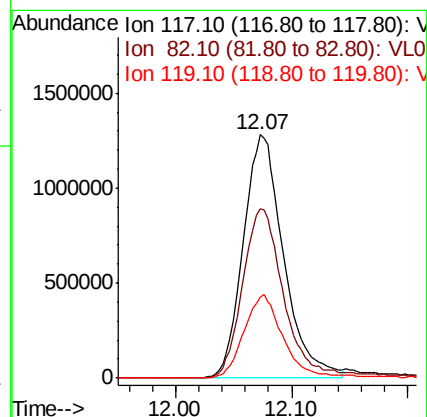
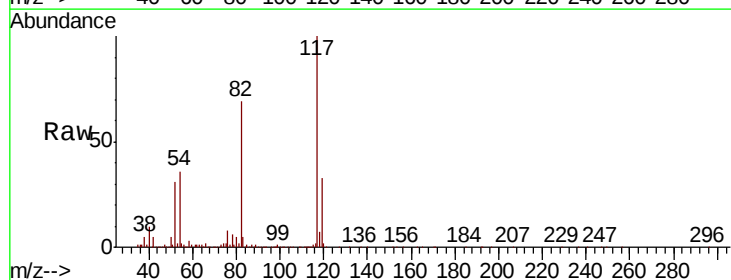
Tgt Ion: 117 Resp: 3093368

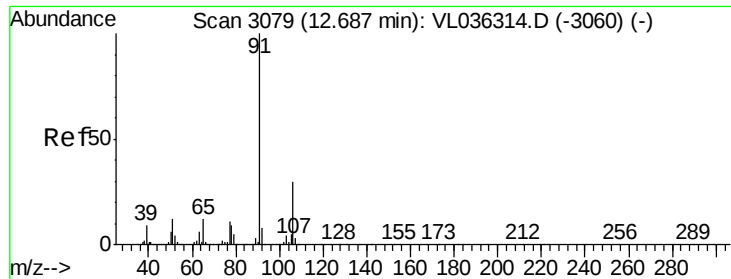
Ion Ratio Lower Upper

117 100

82 73.8 59.1 88.7

119 33.9 46.3 69.5#





#58

Ethyl Benzene

Concen: 0.068 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. 0.01 min

Lab File: VL036383.D

Acq: 25 Feb 2021 16:18

Instrument :

MSVOA_L

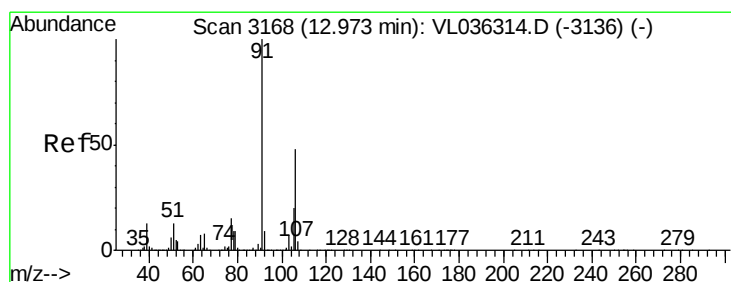
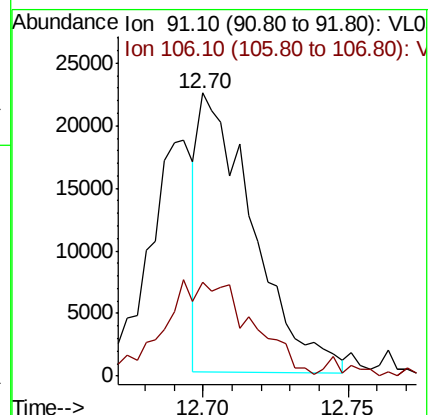
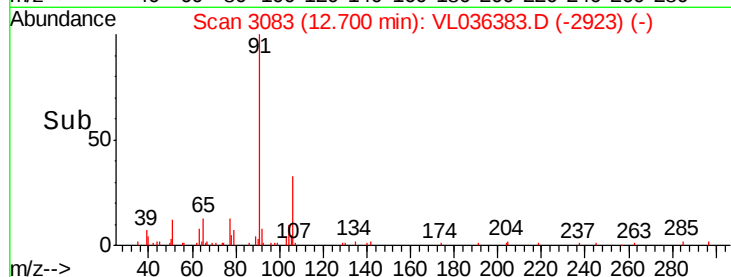
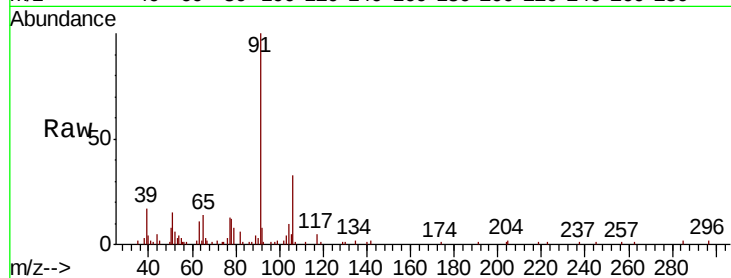
ClientSampleId :

Tot Ion: 91 Resp: 29000

Ion Ratio Lower Upper

91 100

106 33.9 23.8 35.6



#59

m/p-Xylene

Concen: 0.090 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.01 min

Lab File: VL036383.D

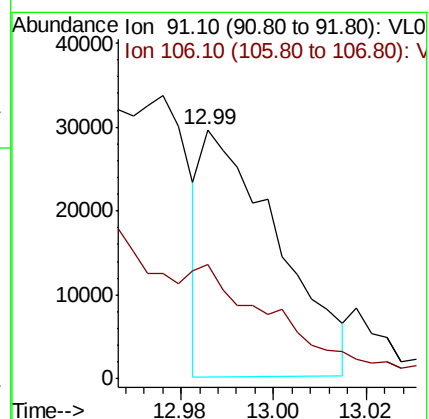
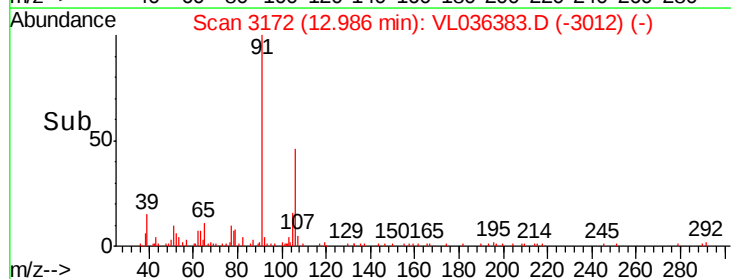
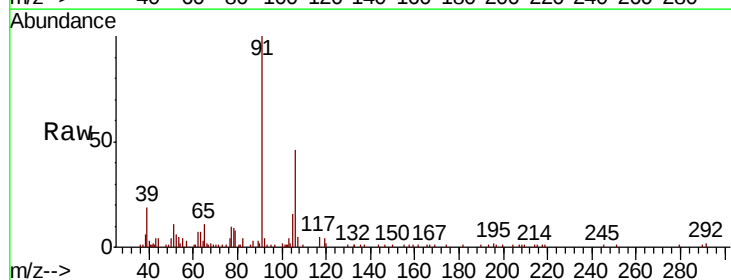
Acq: 25 Feb 2021 16:18

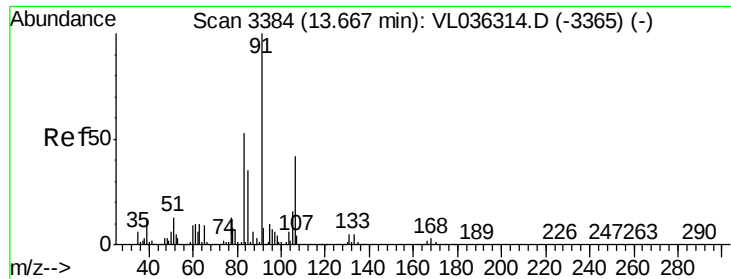
Tgt Ion: 91 Resp: 33339

Ion Ratio Lower Upper

91 100

106 0.0 34.2 51.2#

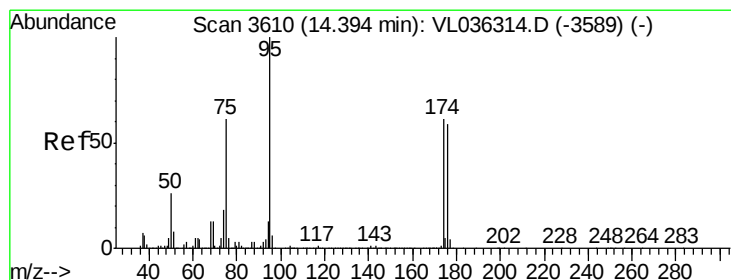
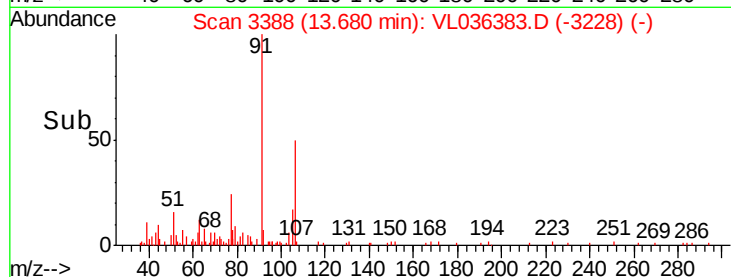
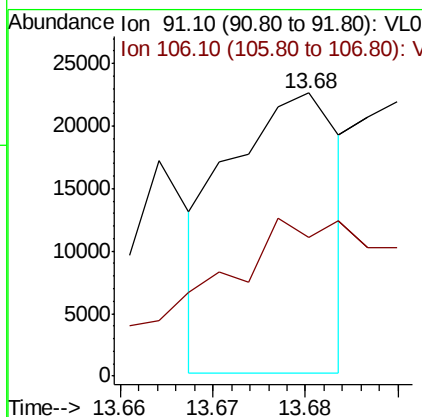
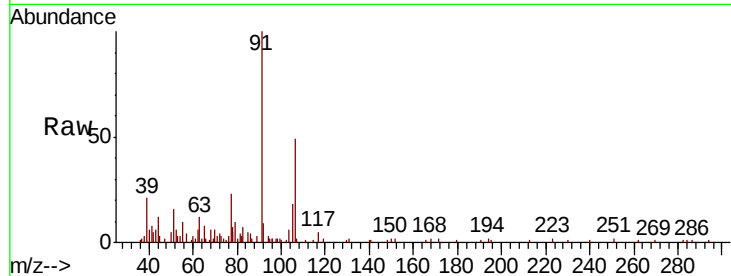




#60
o-Xylene
Concen: 0.053 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. 0.01 min
Lab File: VL036383.D
Acq: 25 Feb 2021 16:18

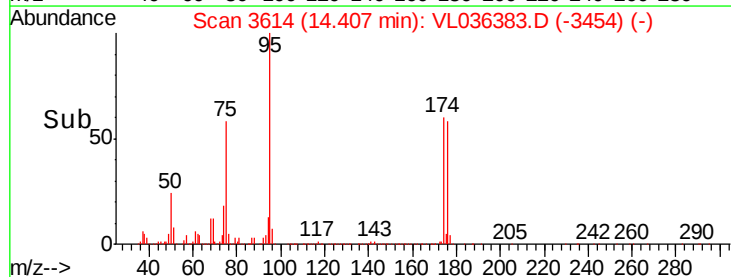
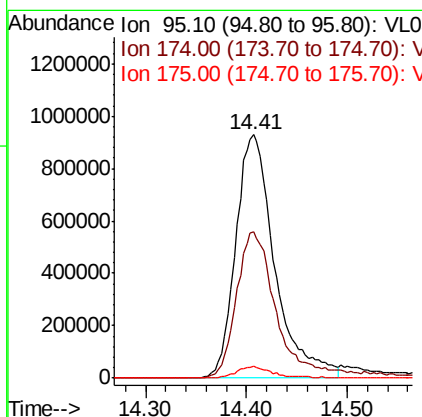
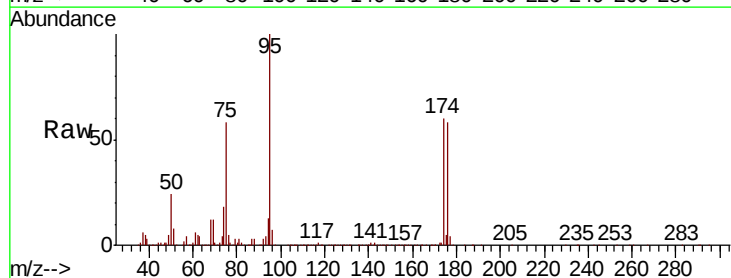
Instrument :
MSVOA_L
ClientSampleId :

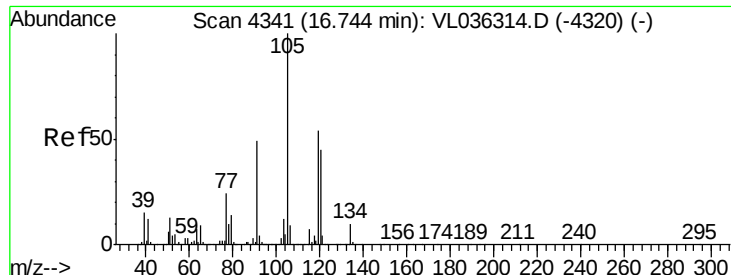
Tot Ion: 91 Resp: 18718
Ion Ratio Lower Upper
91 100
106 143.6 22.0 66.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.811 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. 0.01 min
Lab File: VL036383.D
Acq: 25 Feb 2021 16:18

Tgt Ion: 95 Resp: 2497147
Ion Ratio Lower Upper
95 100
174 64.6 49.8 74.6
175 4.8 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. 0.02 min
 Lab File: VL036383.D
 Acq: 25 Feb 2021 16:18

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	12303
Ion	Ratio	Lower	Upper
105	100		
120	12.3	35.8	53.6#
91	19.9	39.8	59.6#
77	8.2	19.1	28.7#

