

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036326.D
 Acq On : 10 Feb 2021 20:36
 Operator : SY/AP
 Sample : M1343-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 11 06:11:22 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	1498148	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3418661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2956049	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2483347	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

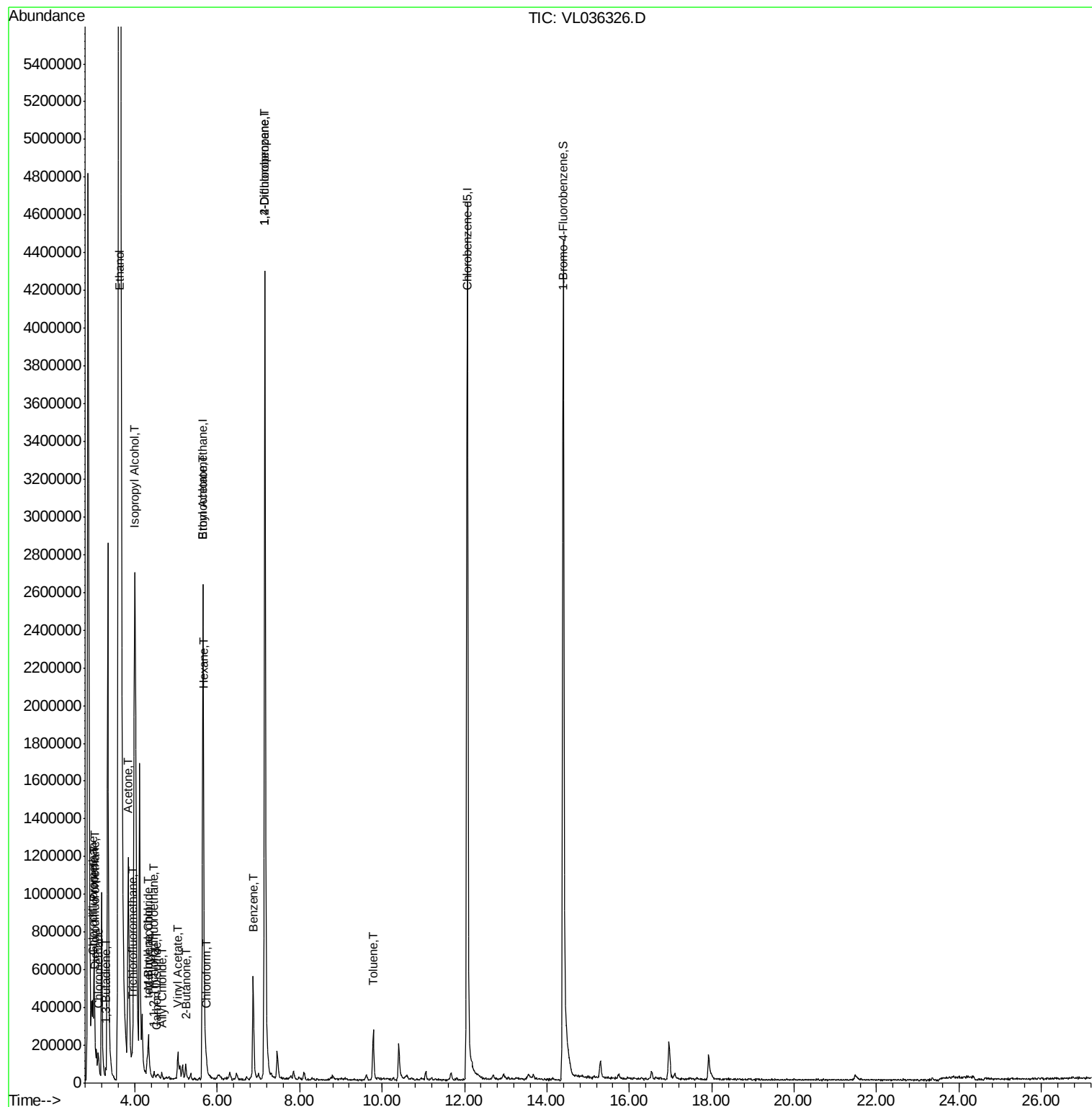
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	57787	0.258	ppbv	89
3) Chlorodifluoromethane	2.97	51	620757	3.335	ppbv #	85
4) Chloromethane	3.12	50	28940	0.322	ppbv	90
9) Propene	3.01	41	179769	2.590	ppbv #	81
11) Trichlorofluoromethane	3.93	101	46432	0.212	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4173	0.031	ppbv #	13
13) Ethanol	3.63	45	21602950	1657.209	ppbv	96
15) Acetone	3.84	43	1476781	8.064	ppbv	100
16) 1,3-Butadiene	3.30	39	11952	0.136	ppbv #	9
17) tert-Butyl alcohol	4.31	59	6033	0.042	ppbv #	71
19) Isopropyl Alcohol	4.00	45	5858692	57.745	ppbv #	98
20) Methylene Chloride	4.33	84	57881	0.980	ppbv	93
21) Allyl Chloride	4.65	41	12993	0.127	ppbv #	1
23) Vinyl Acetate	5.04	43	127615	0.593	ppbv #	71
25) Ethyl Acetate	5.66	43	217980	0.617	ppbv #	96
26) Hexane	5.67	57	64307	0.443	ppbv #	53
27) Carbon Disulfide	4.53	76	13484	0.101	ppbv #	62
29) Chloroform	5.74	83	16320	0.070	ppbv	89
34) 2-Butanone	5.23	43	46004	0.203	ppbv #	55
36) Benzene	6.87	78	481795	1.659	ppbv	97
39) 1,2-Dichloropropane	7.15	63	987994	8.375	ppbv #	23
53) Toluene	9.79	91	178548	0.568	ppbv	95

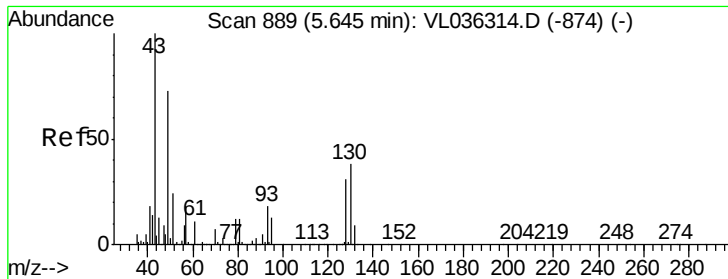
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 11 06:11:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampled :

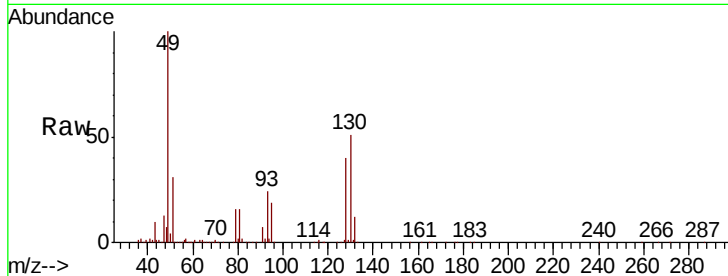
Tot Ion: 49 Resp: 1498148

Ion Ratio Lower Upper

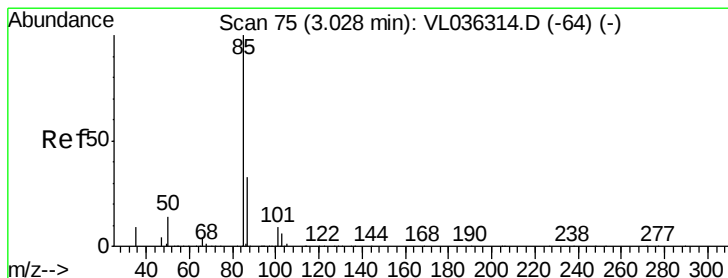
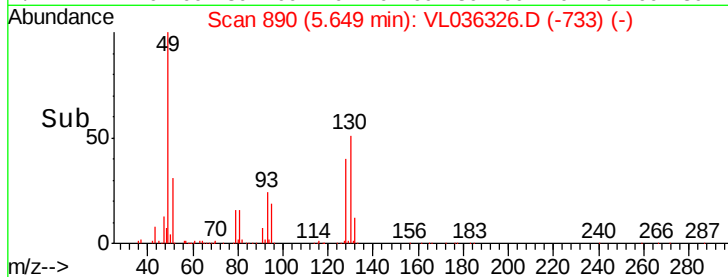
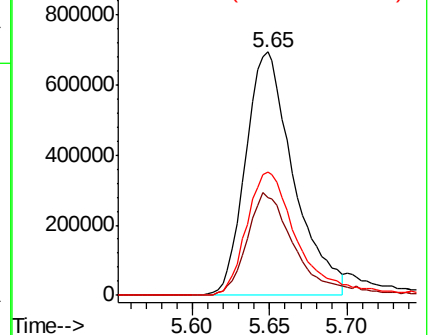
49 100

128 43.7 20.8 62.5

130 55.5 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: 0.258 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036326.D

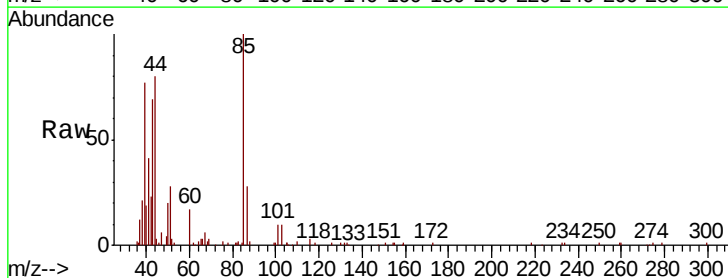
Acq: 10 Feb 2021 20:36

Tgt Ion: 85 Resp: 57787

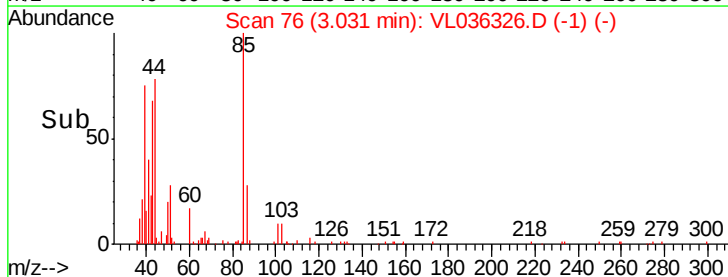
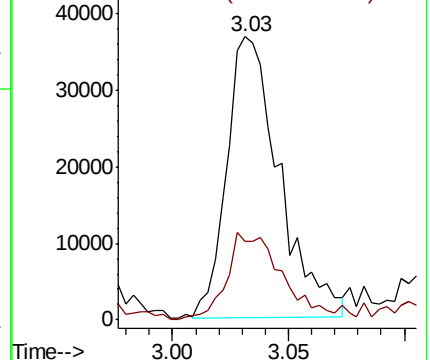
Ion Ratio Lower Upper

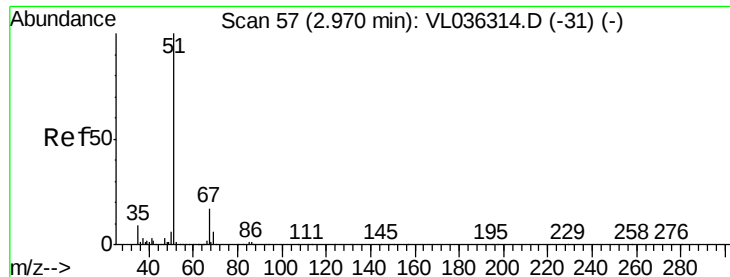
85 100

87 26.6 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: 3.335 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

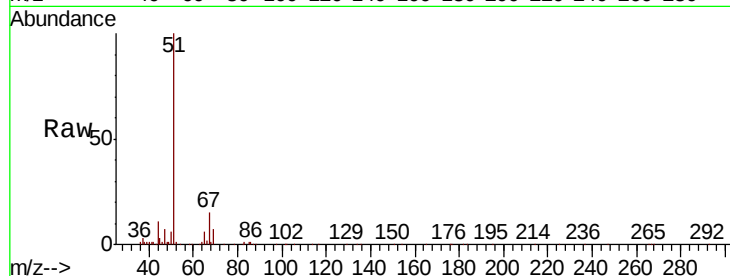
ClientSampleId :

Tot Ion: 51 Resp: 620757

Ion Ratio Lower Upper

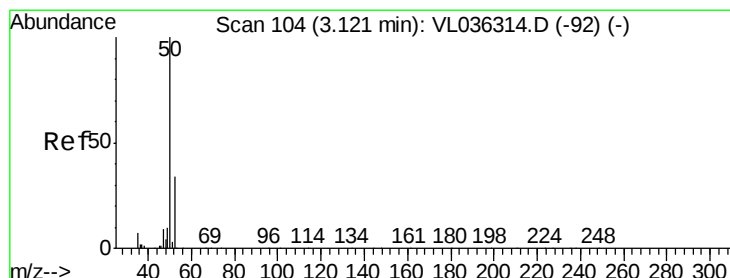
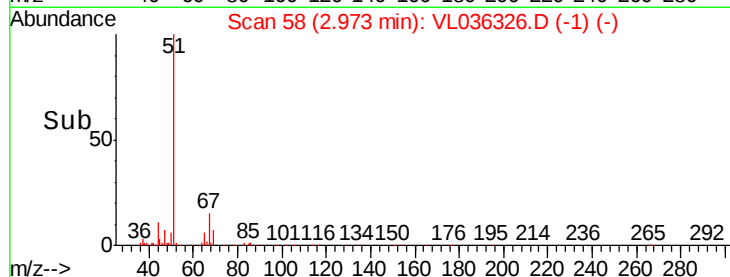
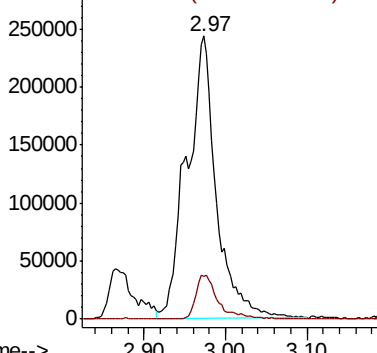
51 100

67 11.8 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: 0.322 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL036326.D

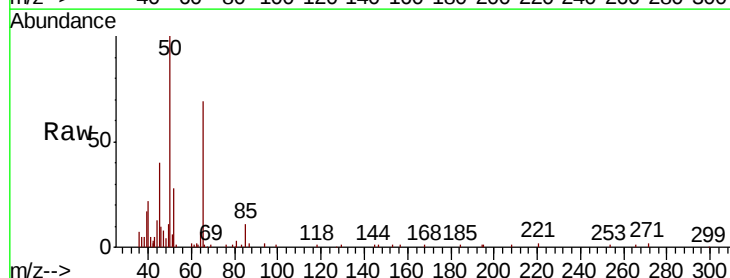
Acq: 10 Feb 2021 20:36

Tgt Ion: 50 Resp: 28940

Ion Ratio Lower Upper

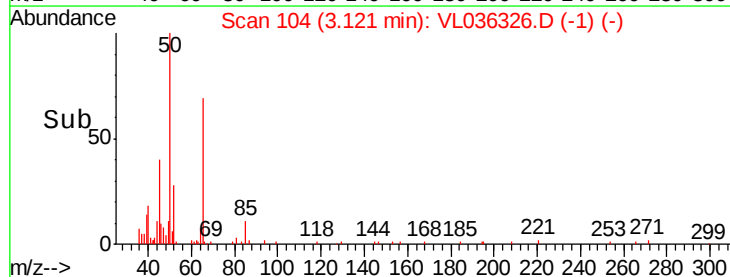
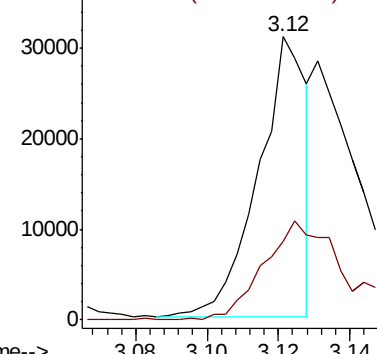
50 100

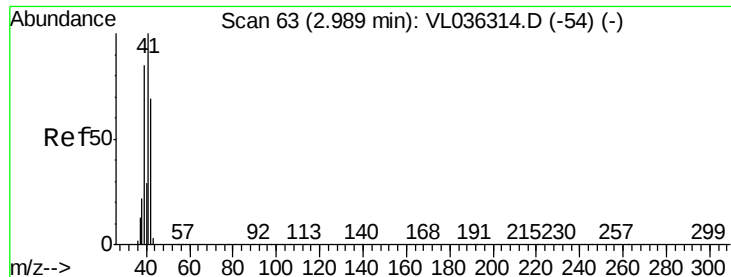
52 28.2 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.590 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

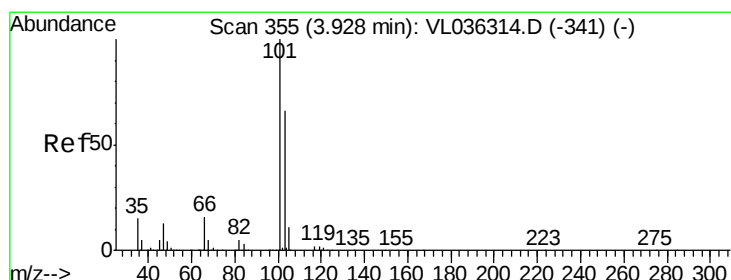
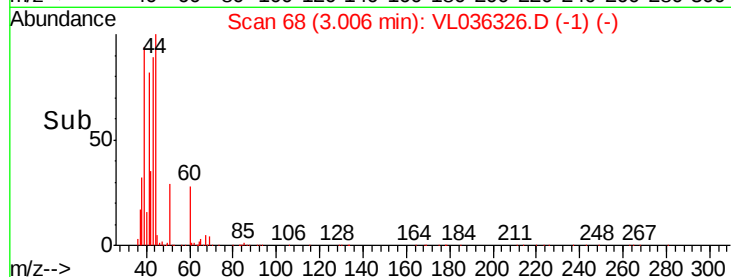
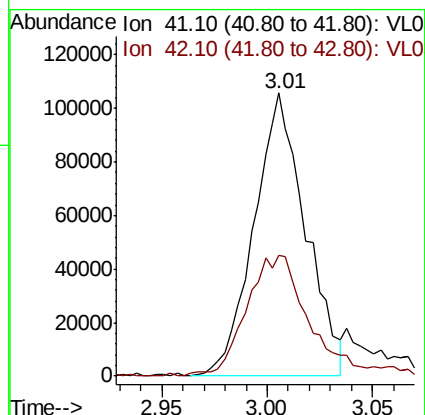
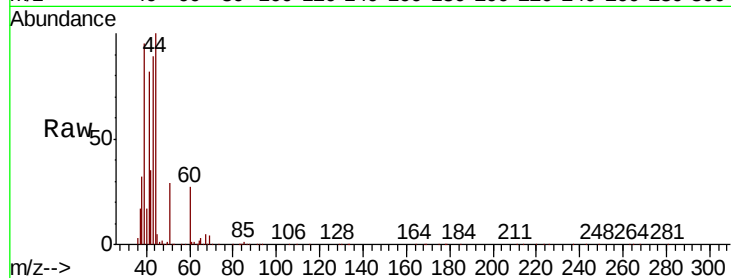
ClientSampleId :

Tot Ion: 41 Resp: 179769

Ion Ratio Lower Upper

41 100

42 54.5 56.2 84.2#



#11

Trichlorofluoromethane

Concen: 0.212 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

Lab File: VL036326.D

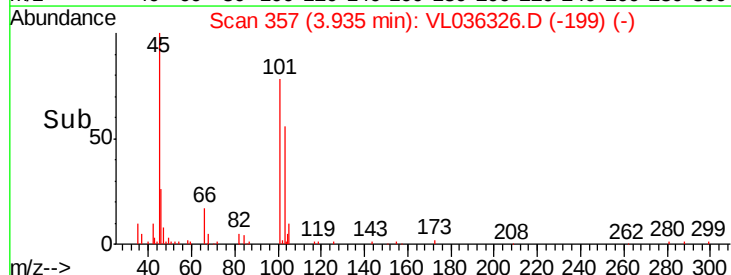
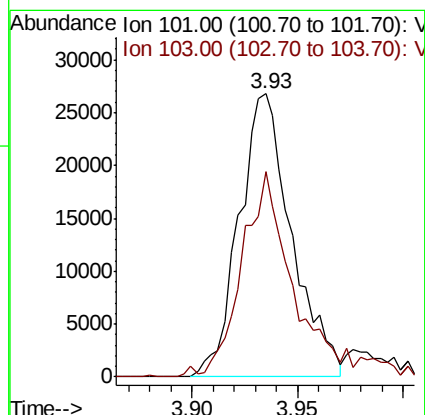
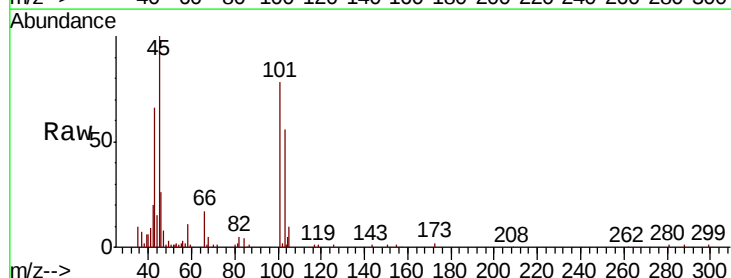
Acq: 10 Feb 2021 20:36

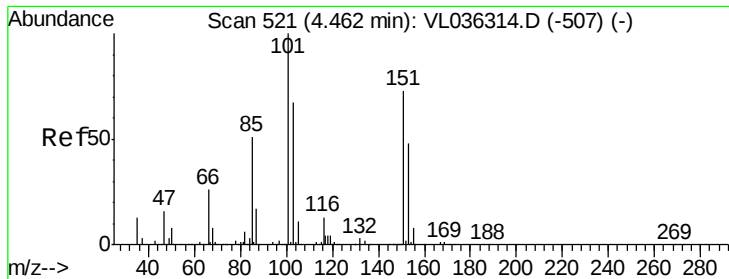
Tgt Ion: 101 Resp: 46432

Ion Ratio Lower Upper

101 100

103 68.8 52.9 79.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.47 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

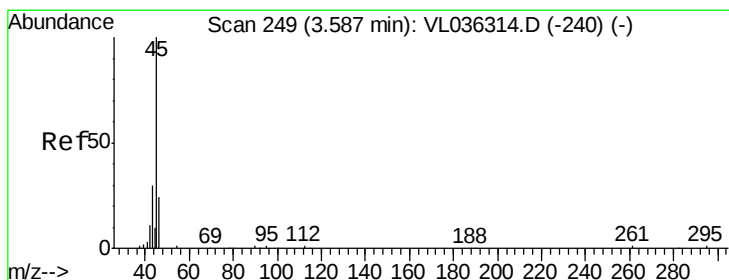
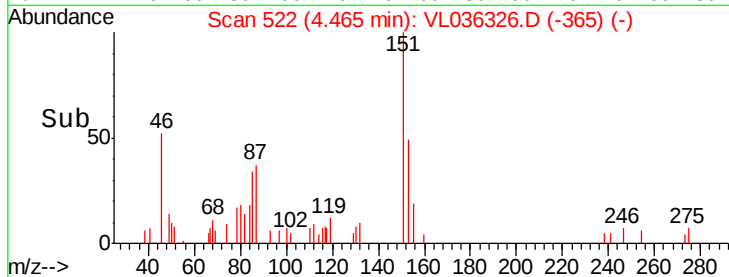
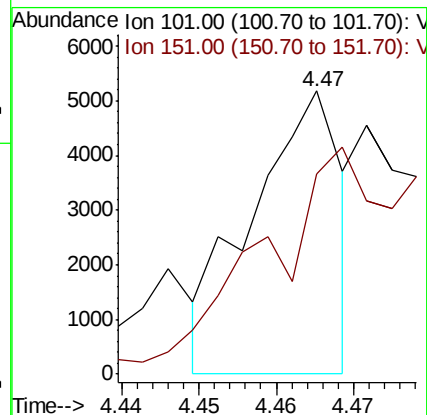
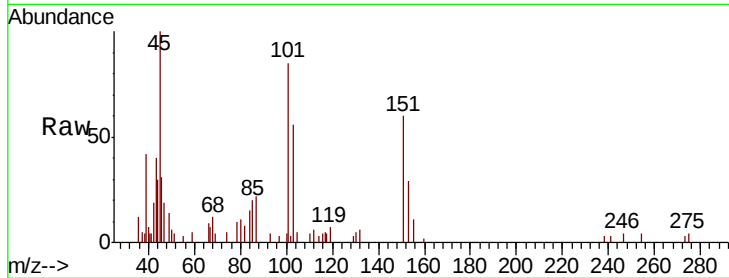
ClientSampleId :

Tot Ion:101 Resp: 4173

Ion Ratio Lower Upper

101 100

151 0.0 58.2 87.4#



#13

Ethanol

Concen: 1657.209 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.04 min

Lab File: VL036326.D

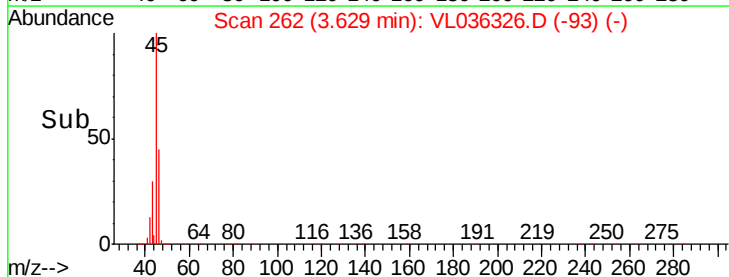
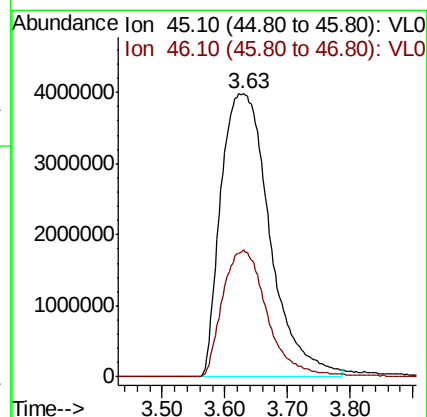
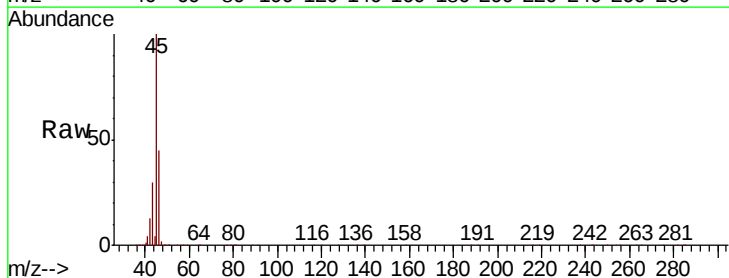
Acq: 10 Feb 2021 20:36

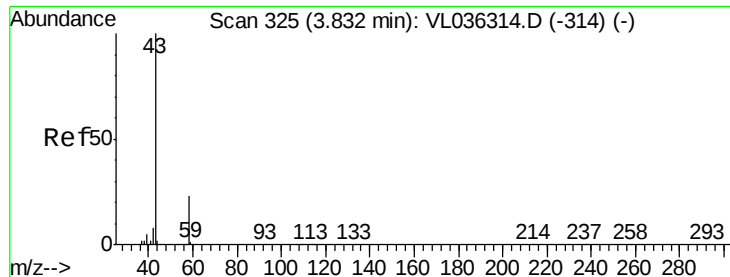
Tgt Ion: 45 Resp:21602950

Ion Ratio Lower Upper

45 100

46 41.4 17.7 70.7

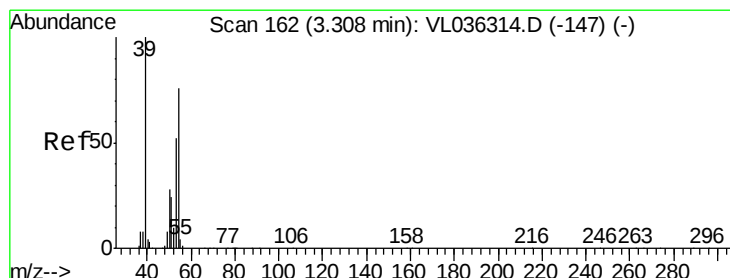
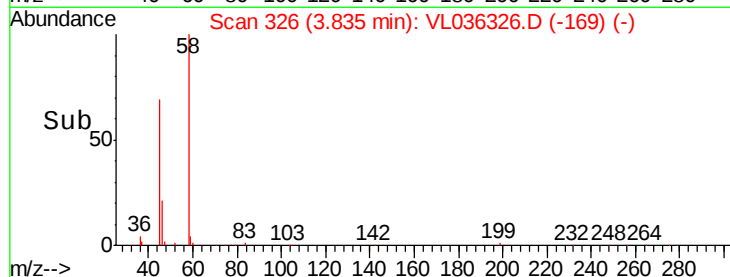
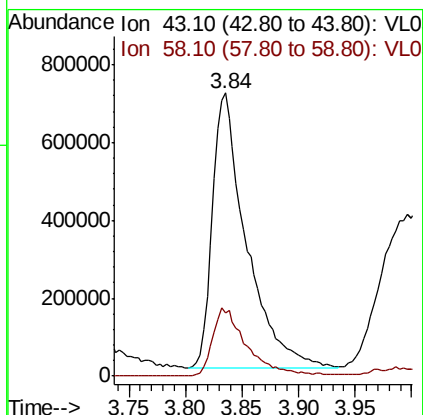
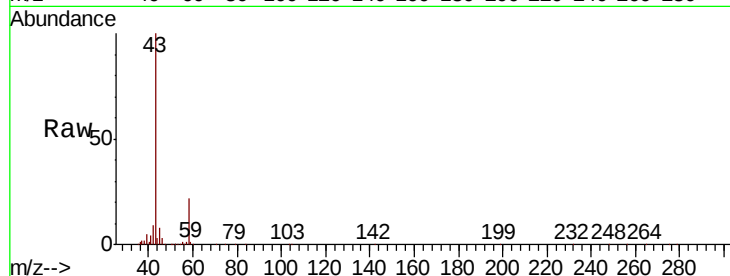




#15
Acetone
Concen: 8.064 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

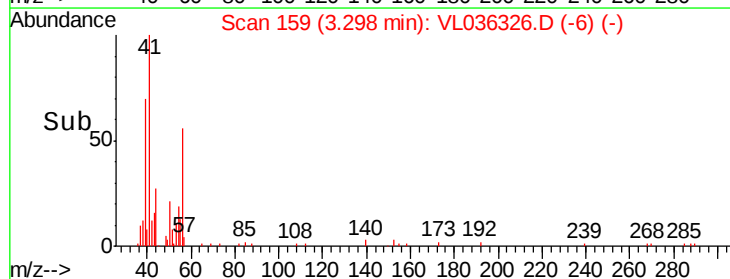
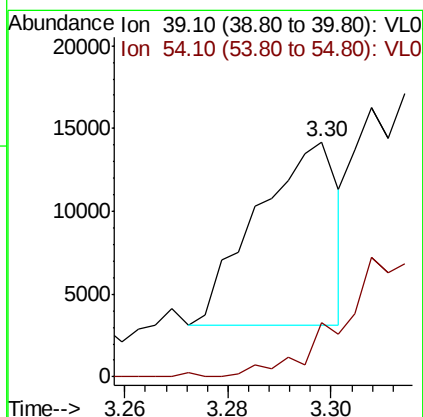
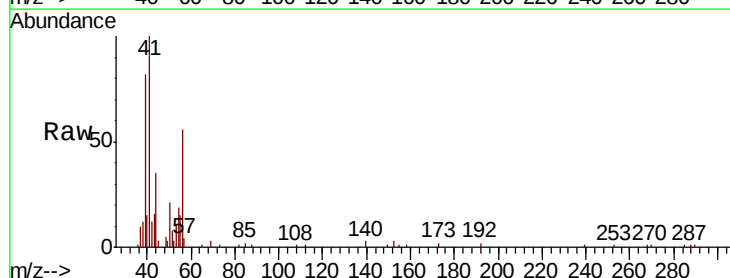
Instrument :
MSVOA_L
ClientSampleId :

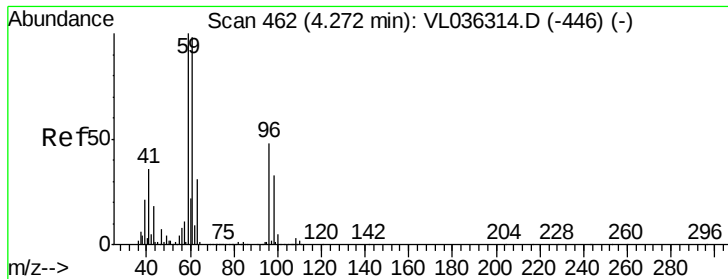
Tot Ion: 43 Resp: 1476781
Ion Ratio Lower Upper
43 100
58 25.6 20.3 30.5



#16
1,3-Butadiene
Concen: 0.136 ppbv
RT: 3.30 min Scan# 159
Delta R.T. -0.01 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion: 39 Resp: 11952
Ion Ratio Lower Upper
39 100
54 0.0 64.4 96.6#



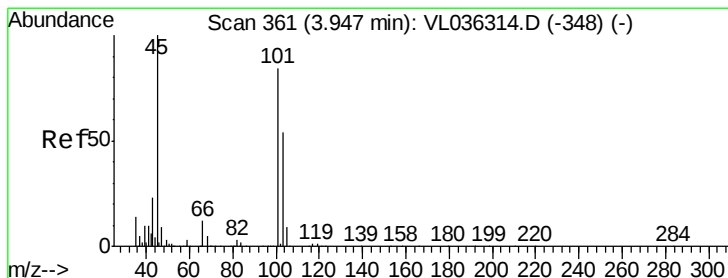
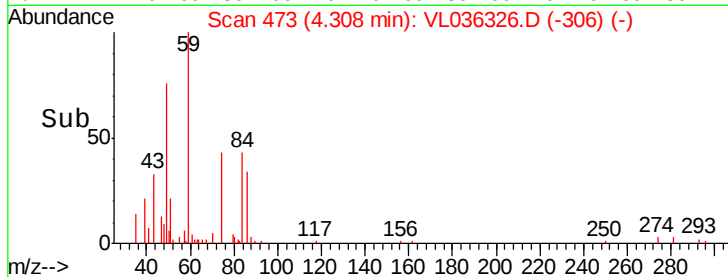
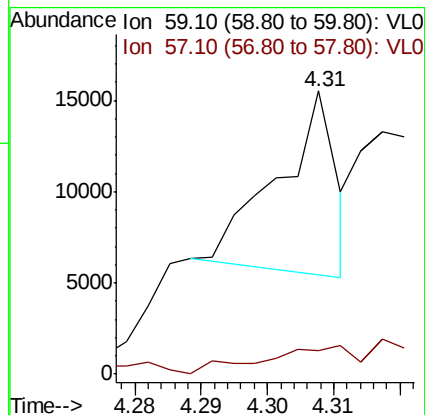
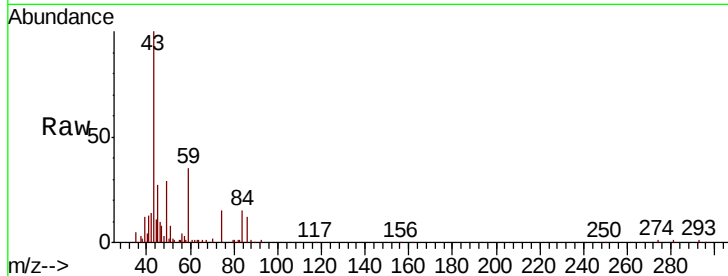


#17

tert-Butyl alcohol
Concen: 0.042 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampled :

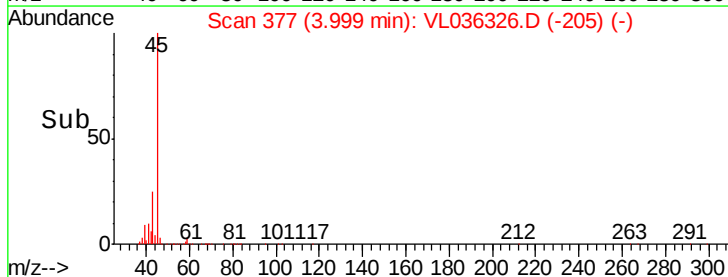
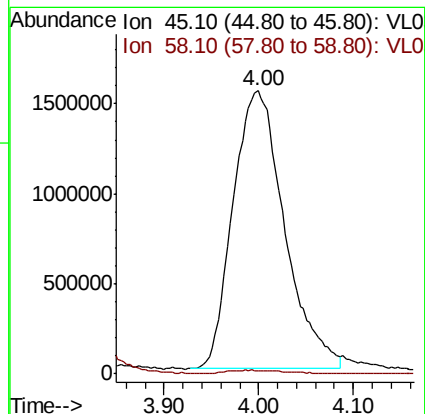
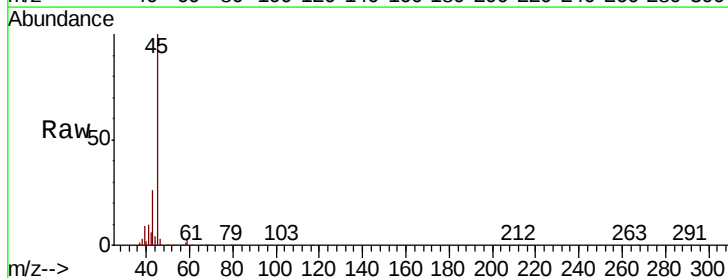
Tot Ion: 59 Resp: 6033
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

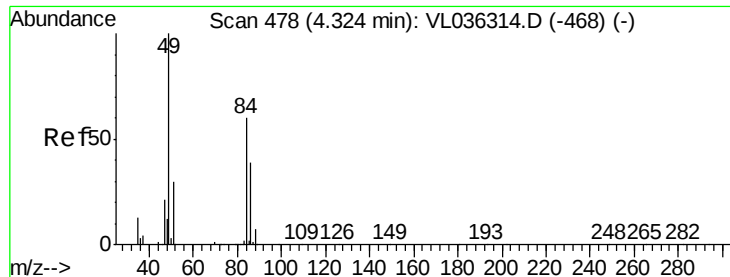


#19

Isopropyl Alcohol
Concen: 57.745 ppbv
RT: 4.00 min Scan# 377
Delta R.T. 0.05 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion: 45 Resp: 5858692
Ion Ratio Lower Upper
45 100
58 1.6 1.9 2.9#

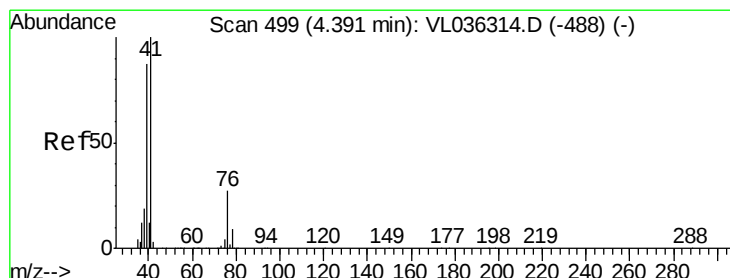
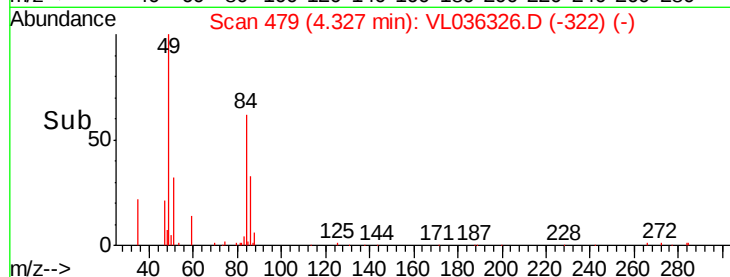
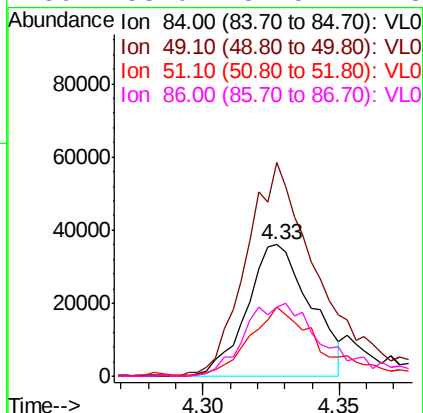
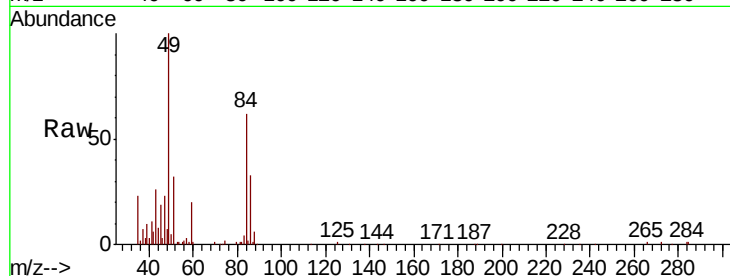




#20
Methylene Chloride
Concen: 0.980 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

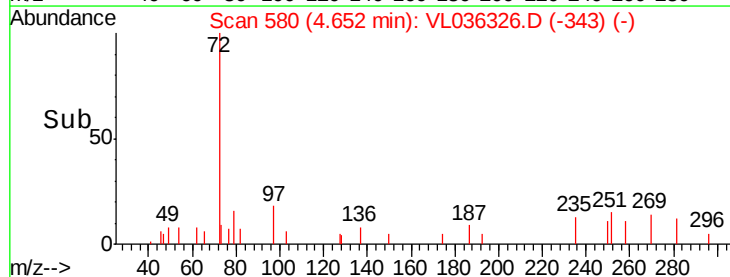
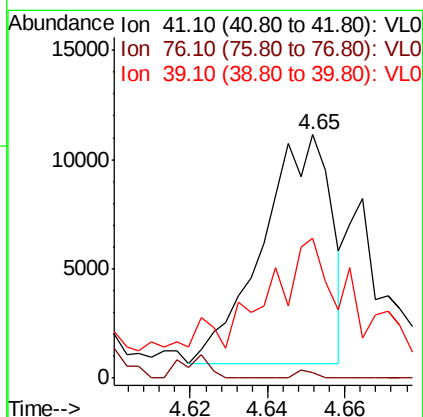
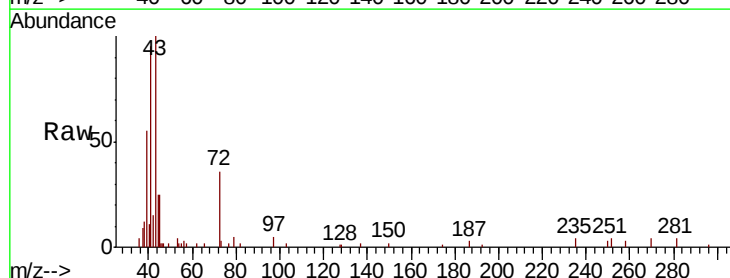
Instrument :
MSVOA_L
ClientSampled :

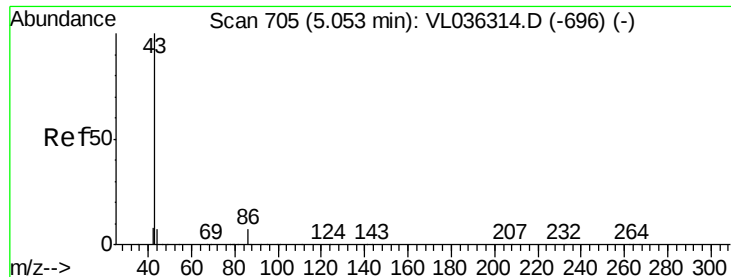
Tot Ion:	84	Resp:	57881
Ion	Ratio	Lower	Upper
84	100		
49	159.6	133.8	200.8
51	51.1	41.4	62.0
86	53.0	51.5	77.3



#21
Allyl Chloride
Concen: 0.127 ppbv
RT: 4.65 min Scan# 580
Delta R.T. 0.26 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion:	41	Resp:	12993
Ion	Ratio	Lower	Upper
41	100		
76	168.9	22.0	33.0#
39	0.0	70.2	105.2#





#23

Vinyl Acetate

Concen: 0.593 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 127615

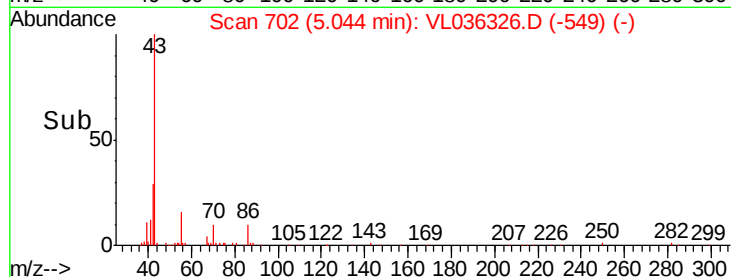
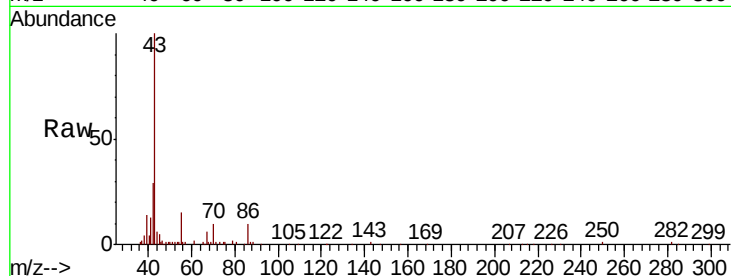
Ion Ratio Lower Upper

43 100

86 9.9 4.8 7.2#

42 29.0 7.4 11.0#

44 3.6 4.8 7.2#

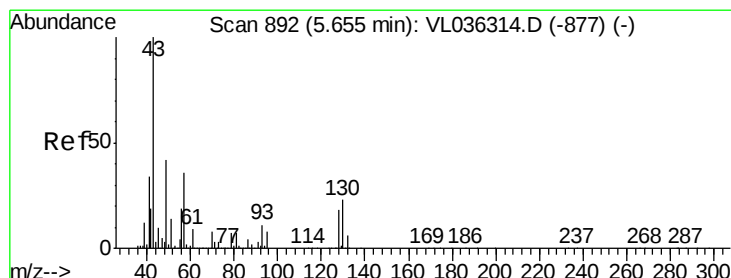
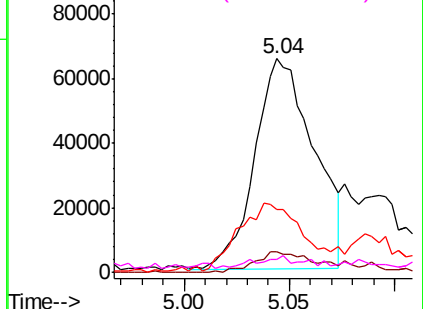


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.617 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Tgt Ion: 43 Resp: 217980

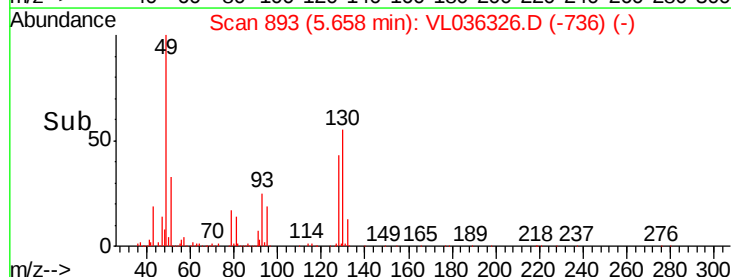
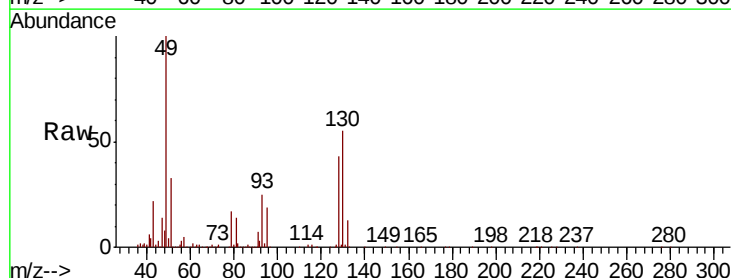
Ion Ratio Lower Upper

43 100

45 12.9 8.3 12.5#

61 9.8 7.3 10.9

70 7.9 5.4 8.0

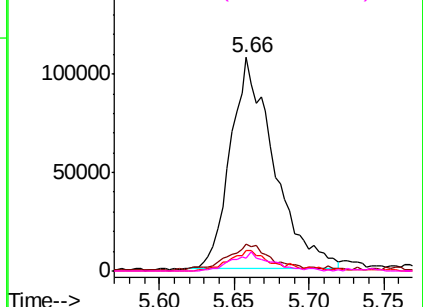


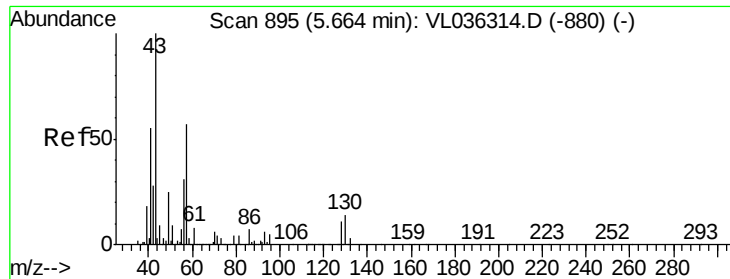
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

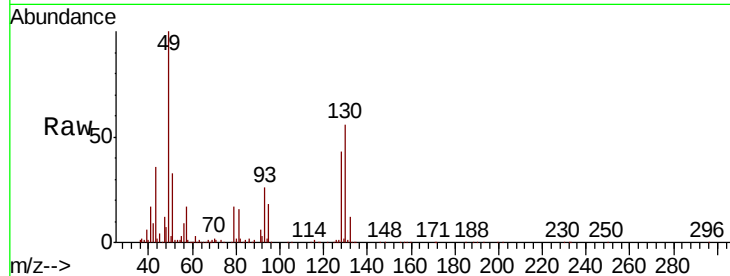




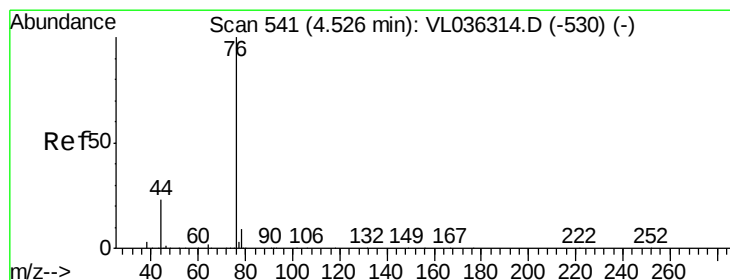
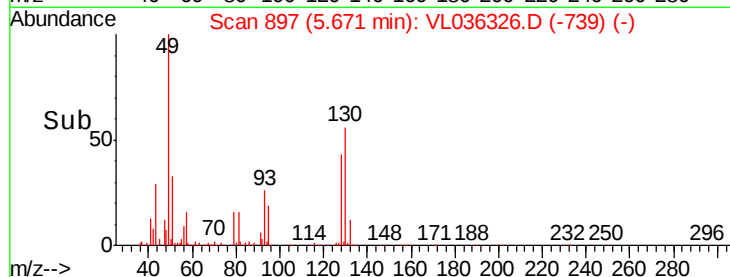
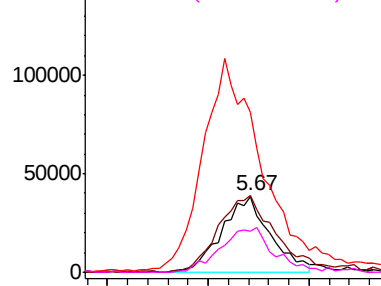
#26
Hexane
Concen: 0.443 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 64307
Ion Ratio Lower Upper
57 100
41 126.2 81.7 122.5#
43 359.0 199.1 298.7#
56 66.6 44.0 66.0#

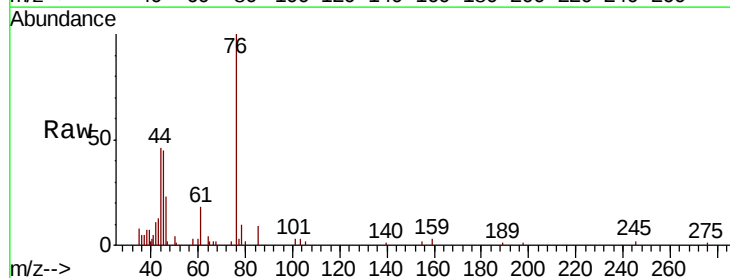


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

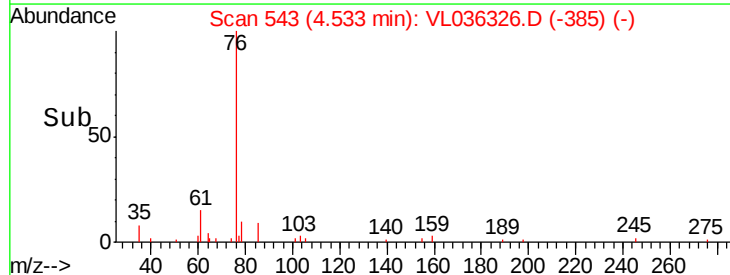
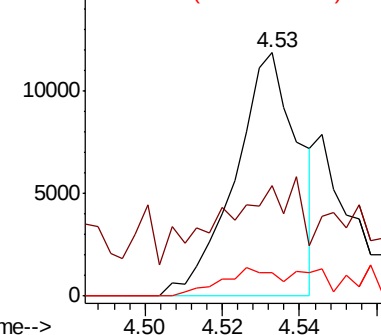


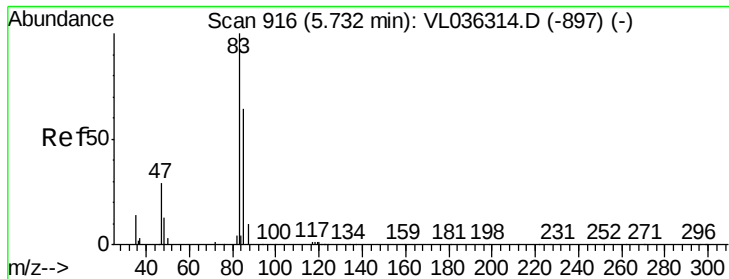
#27
Carbon Disulfide
Concen: 0.101 ppbv
RT: 4.53 min Scan# 543
Delta R.T. 0.01 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion: 76 Resp: 13484
Ion Ratio Lower Upper
76 100
44 0.0 18.4 27.6#
78 15.8 8.0 12.0#



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





#29

Chloroform

Concen: 0.070 ppbv

RT: 5.74 min Scan# 917

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

Instrument :

MSVOA_L

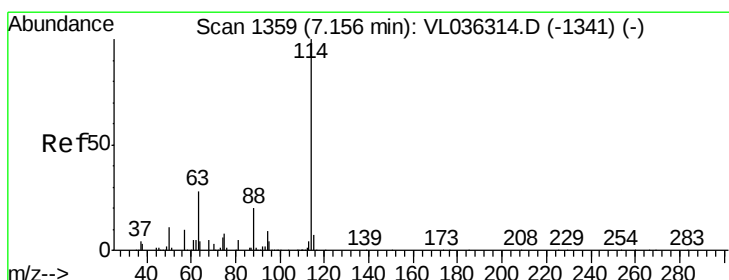
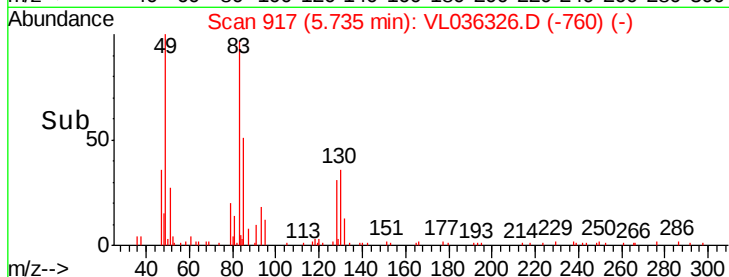
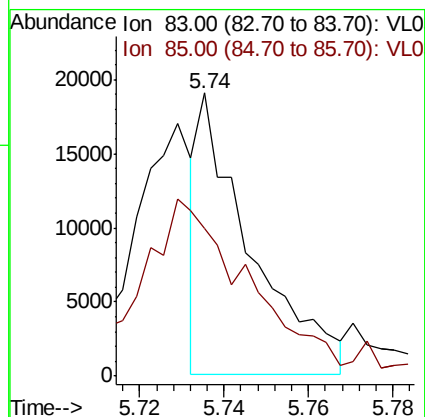
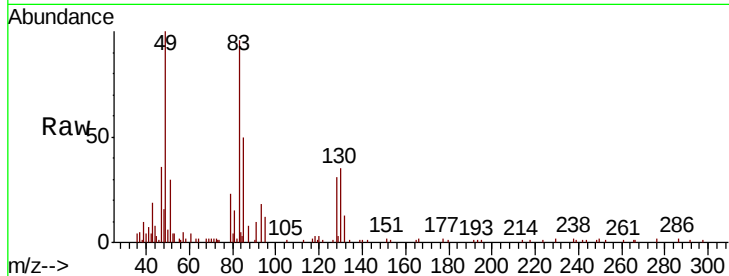
ClientSampleId :

Tot Ion: 83 Resp: 16320

Ion Ratio Lower Upper

83 100

85 55.7 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VL036326.D

Acq: 10 Feb 2021 20:36

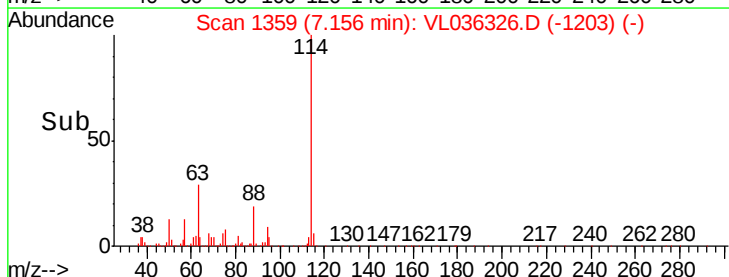
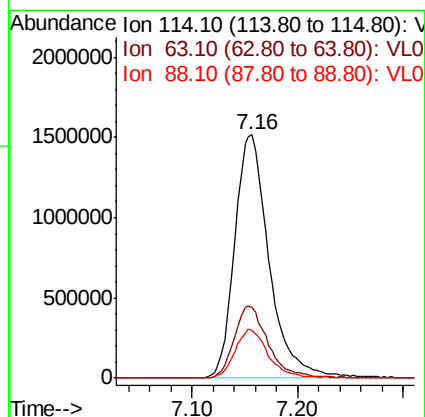
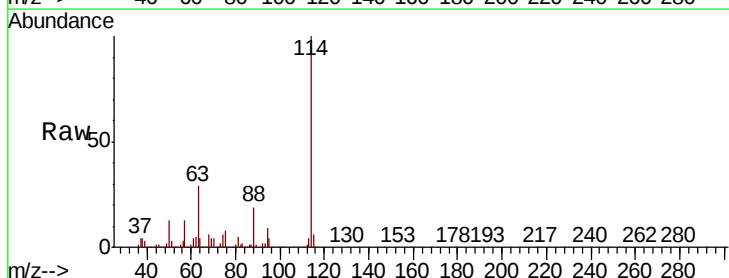
Tgt Ion: 114 Resp: 3418661

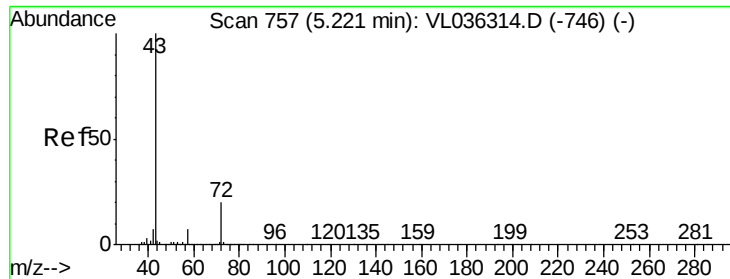
Ion Ratio Lower Upper

114 100

63 29.7 24.1 36.1

88 19.8 16.0 24.0

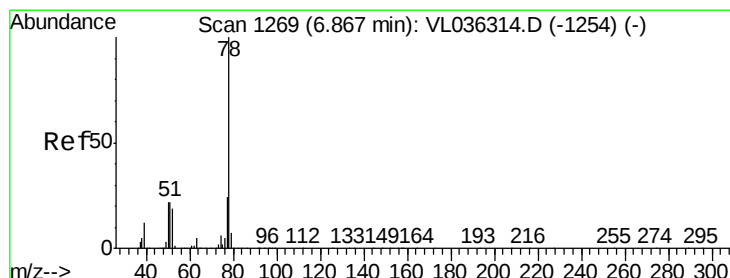
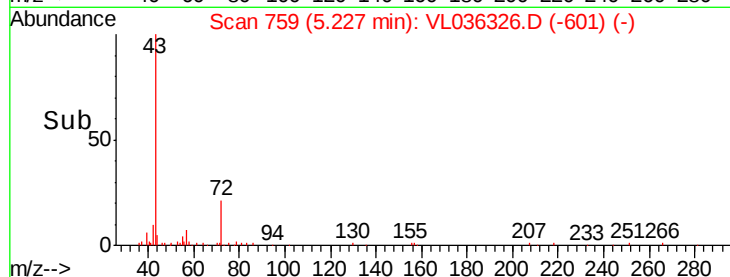
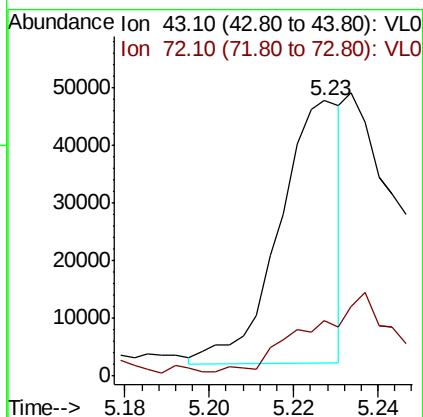
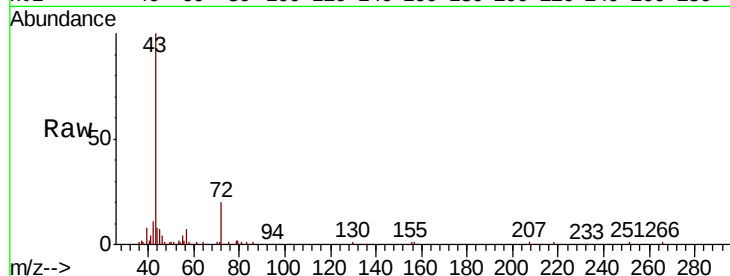




#34
2-Butanone
Concen: 0.203 ppbv
RT: 5.23 min Scan# 759
Delta R.T. 0.01 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

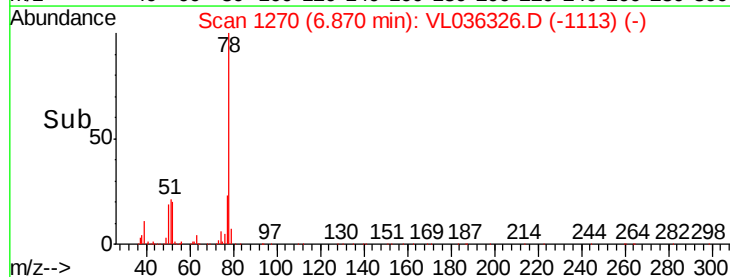
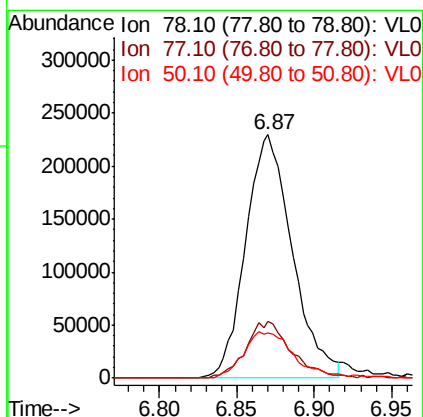
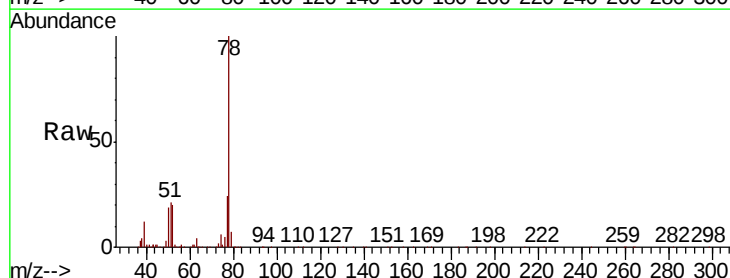
Instrument :
MSVOA_L
ClientSampled :

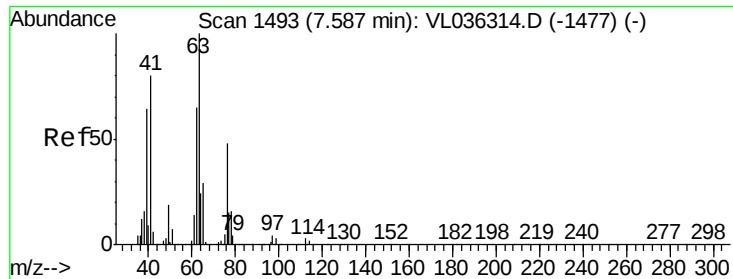
Tot Ion: 43 Resp: 46004
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#



#36
Benzene
Concen: 1.659 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion: 78 Resp: 481795
Ion Ratio Lower Upper
78 100
77 23.5 18.9 28.3
50 18.7 17.3 25.9

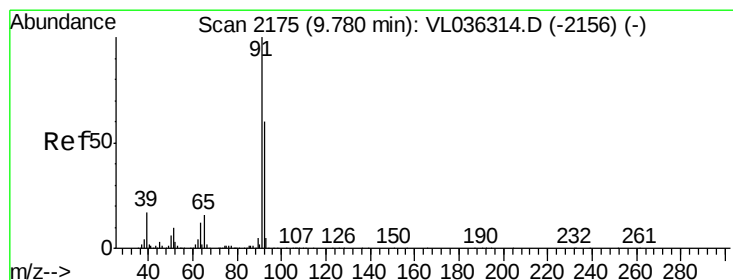
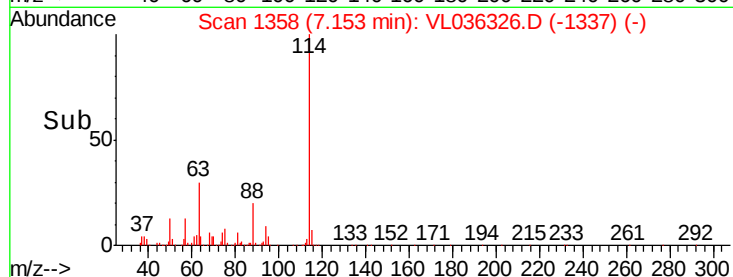
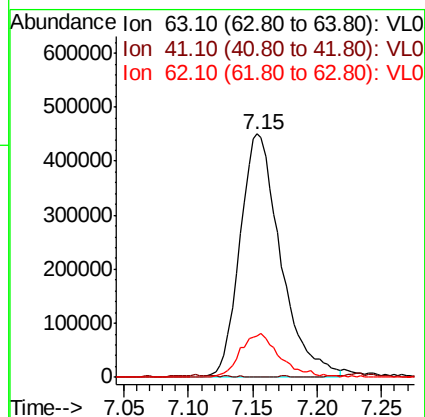
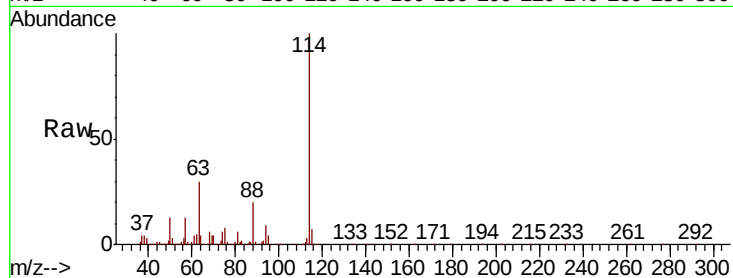




#39
 1,2-Dichloropropane
 Concen: 8.375 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.43 min
 Lab File: VL036326.D
 Acq: 10 Feb 2021 20:36

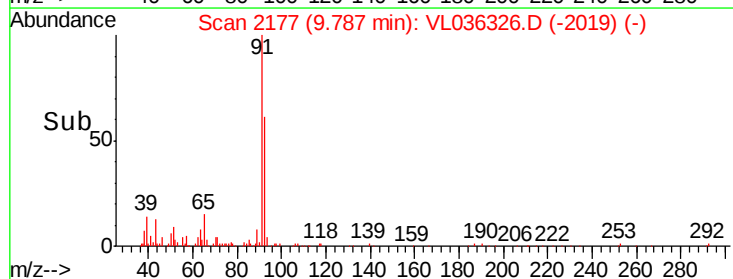
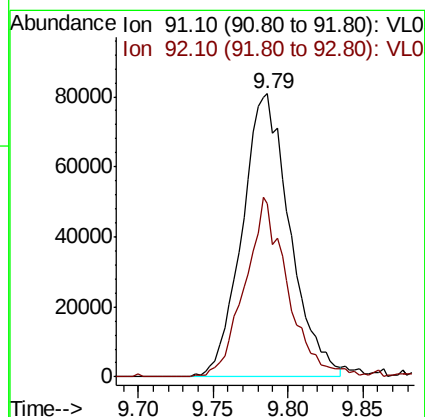
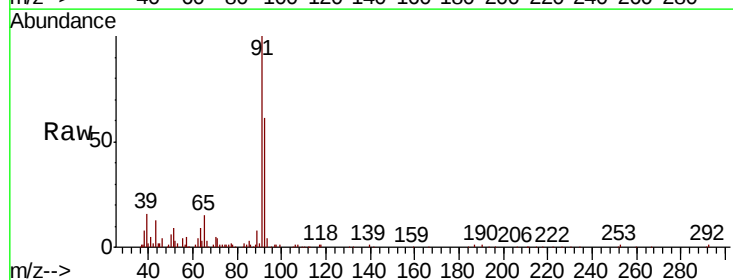
Instrument :
 MSVOA_L
 ClientSampleId :

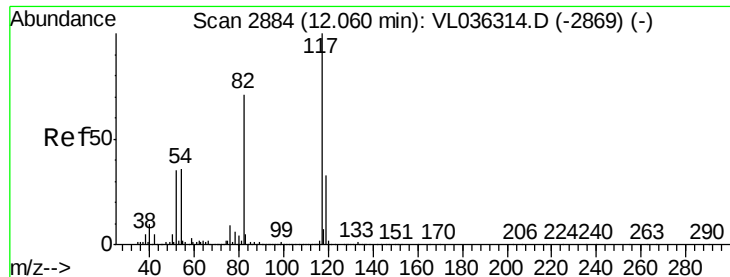
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.8	95.6#
62	16.8	52.3	78.5#



#53
 Toluene
 Concen: 0.568 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. 0.01 min
 Lab File: VL036326.D
 Acq: 10 Feb 2021 20:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.1	48.6	72.8

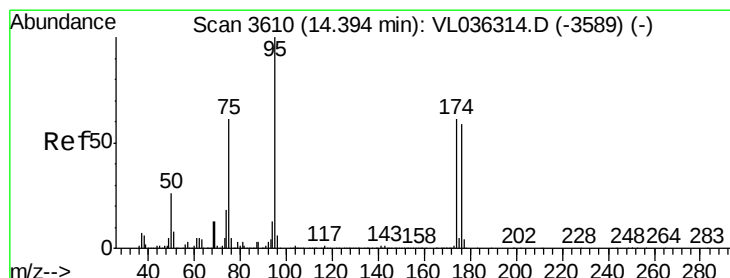
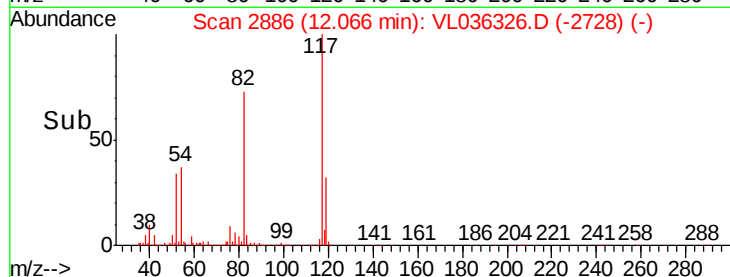
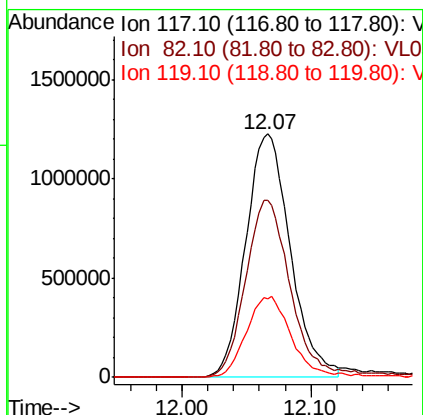
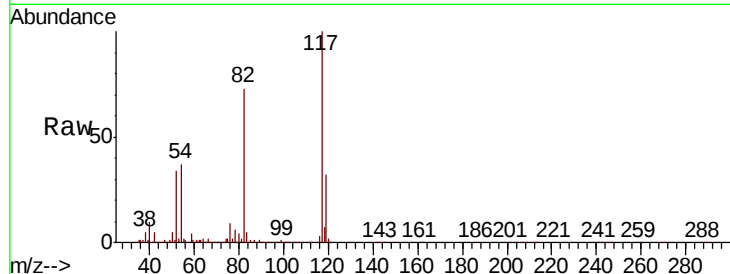




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2956049
Ion Ratio Lower Upper
117 100
82 75.4 59.1 88.7
119 34.2 46.3 69.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.211 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. 0.00 min
Lab File: VL036326.D
Acq: 10 Feb 2021 20:36

Tgt Ion: 95 Resp: 2483347
Ion Ratio Lower Upper
95 100
174 61.2 49.8 74.6
175 4.5 3.7 5.5

