

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036563.D
 Acq On : 30 Mar 2021 10:16
 Operator : SY/AP
 Sample : M1759-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 05:12:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1330802	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3071735	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	2734029	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2130859	9.78	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

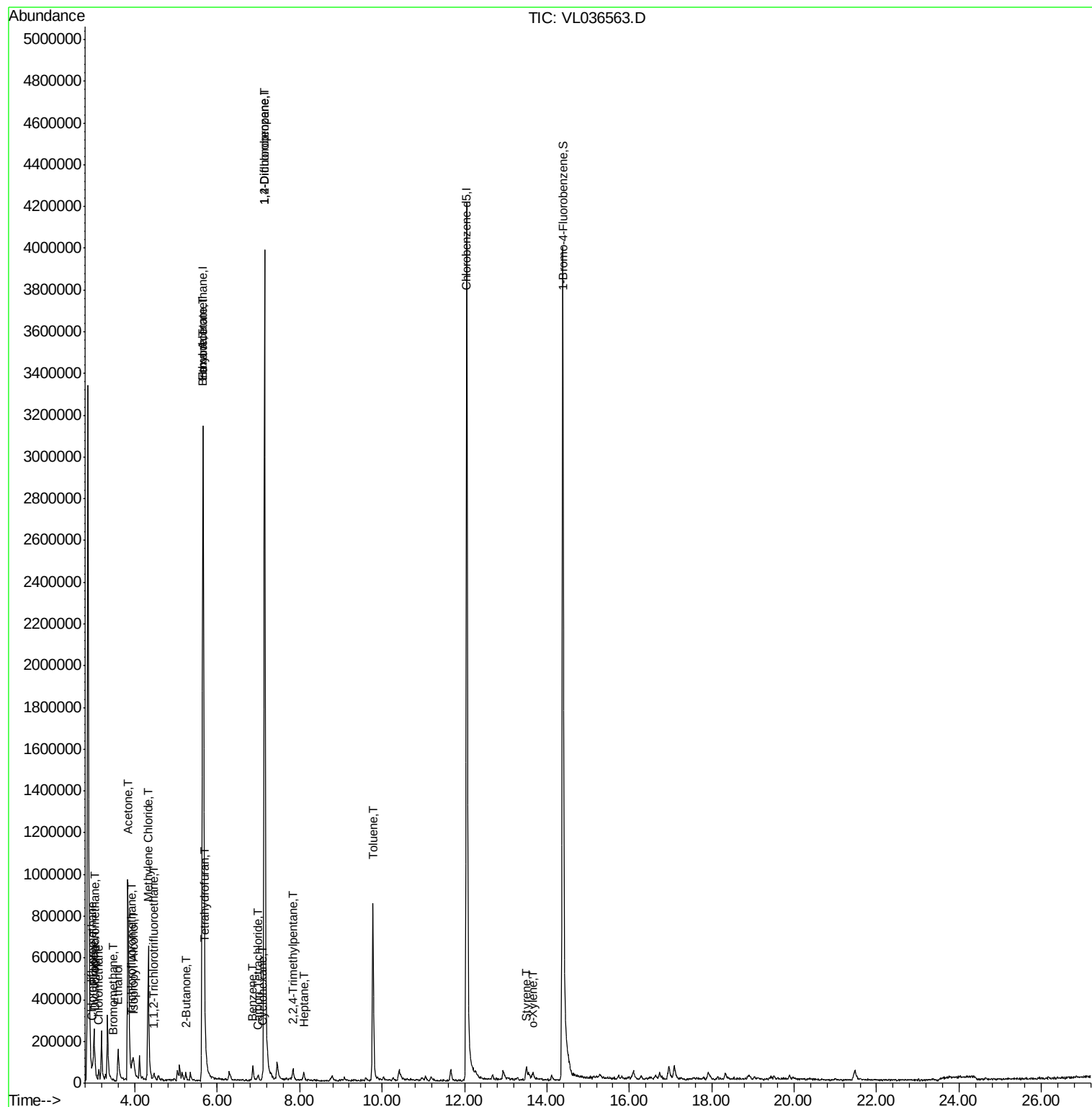
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	47481	0.219	ppbv 99
3) Chlorodifluoromethane	2.97	51	89552	0.360	ppbv # 89
4) Chloromethane	3.12	50	27601	0.314	ppbv 97
6) Bromomethane	3.45	94	1038	0.021	ppbv # 64
9) Propene	3.00	41	63315	0.799	ppbv 92
10) Heptane	8.09	43	7126	0.035	ppbv # 49
11) Trichlorofluoromethane	3.93	101	45762	0.207	ppbv 89
12) 1,1,2-Trichlorotrifluoroet	4.46	101	4390	0.031	ppbv # 11
13) Ethanol	3.59	45	190372	20.168	ppbv 98
15) Acetone	3.83	43	1353961	10.337	ppbv 97
19) Isopropyl Alcohol	3.97	45	101450	1.408	ppbv # 89
20) Methylene Chloride	4.32	84	243600	3.972	ppbv 94
25) Ethyl Acetate	5.66	43	644056	2.068	ppbv # 78
26) Hexane	5.66	57	836597	5.789	ppbv # 48
30) Cyclohexane	7.10	84	2922	0.025	ppbv # 1
34) 2-Butanone	5.23	43	31866	0.213	ppbv # 74
35) Carbon Tetrachloride	6.99	117	14928	0.063	ppbv 85
36) Benzene	6.87	78	28221	0.100	ppbv # 87
39) 1,2-Dichloropropane	7.15	63	847694	7.376	ppbv # 24
41) Tetrahydrofuran	5.70	42	13578	0.196	ppbv # 42
44) 2,2,4-Trimethylpentane	7.84	57	29419	0.059	ppbv # 51
53) Toluene	9.78	91	651155	2.158	ppbv 100
60) o-Xylene	13.67	91	11304	0.034	ppbv # 31
61) Styrene	13.49	104	18538	0.110	ppbv # 26

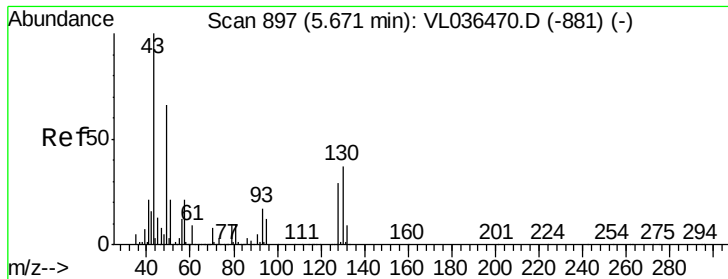
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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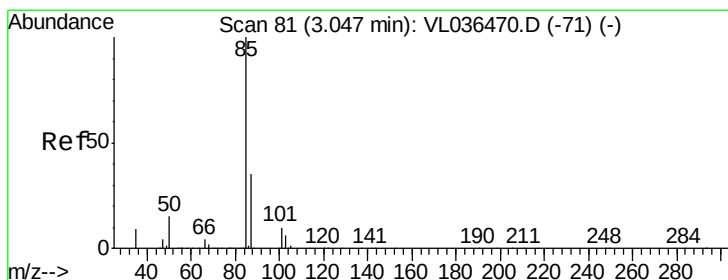
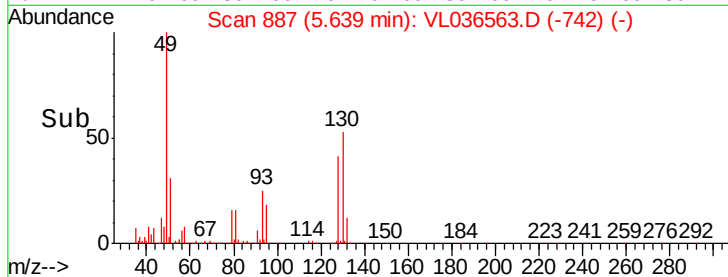
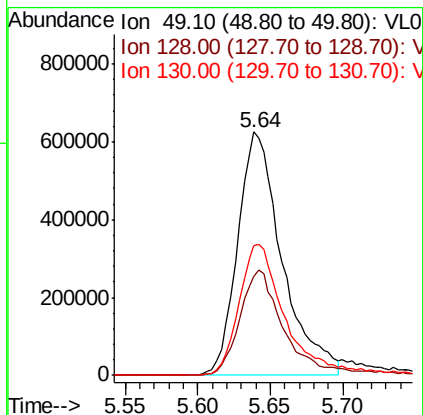
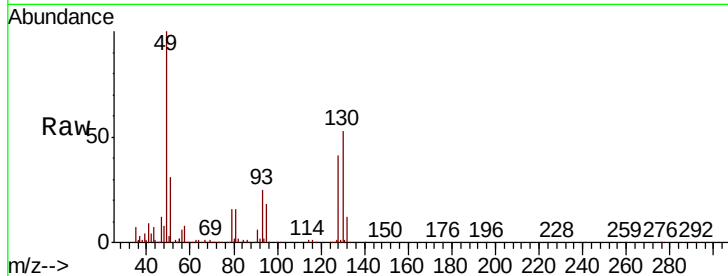




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 887
 Delta R.T. -0.03 min
 Lab File: VL036563.D
 Acq: 30 Mar 2021 10:16

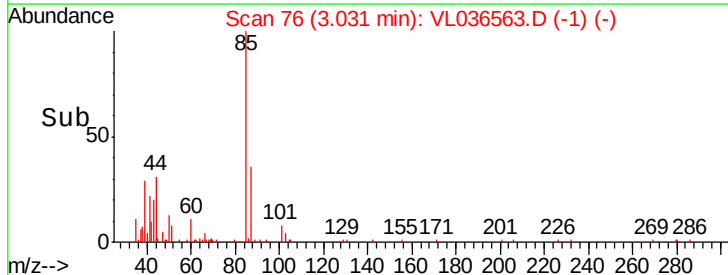
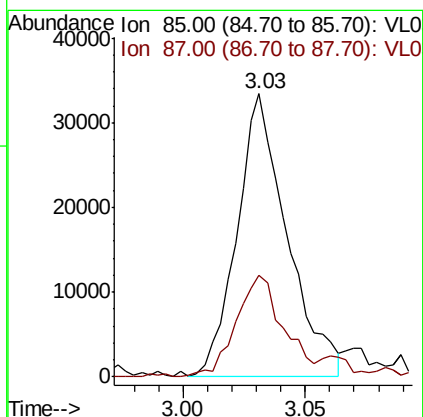
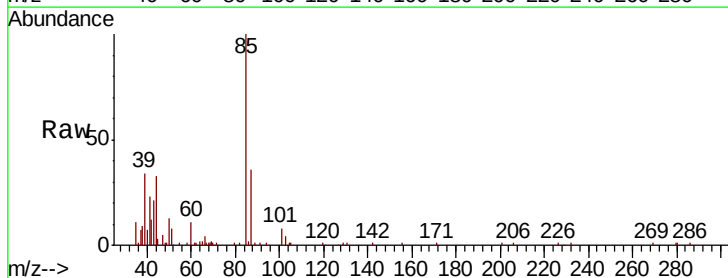
Instrument :
 MSVOA_L
 ClientSampleId :

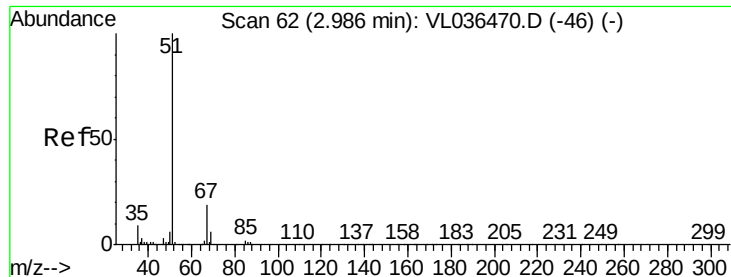
Tot Ion: 49 Resp: 1330802
 Ion Ratio Lower Upper
 49 100
 128 44.9 23.5 70.6
 130 58.2 29.1 87.4



#2
 Dichlorodifluoromethane
 Concen: 0.219 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. -0.02 min
 Lab File: VL036563.D
 Acq: 30 Mar 2021 10:16

Tgt Ion: 85 Resp: 47481
 Ion Ratio Lower Upper
 85 100
 87 35.3 27.8 41.8

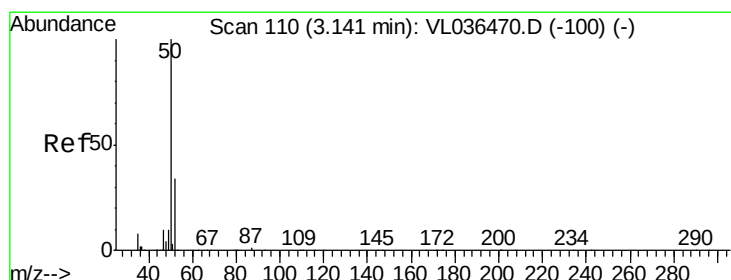
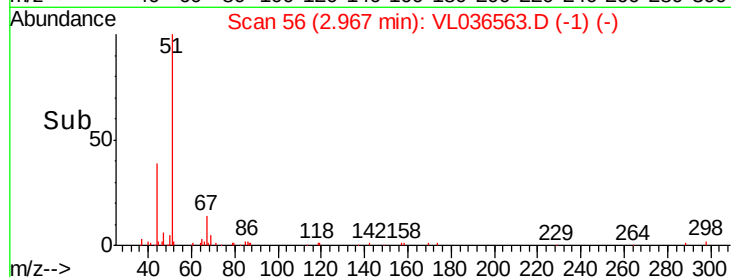
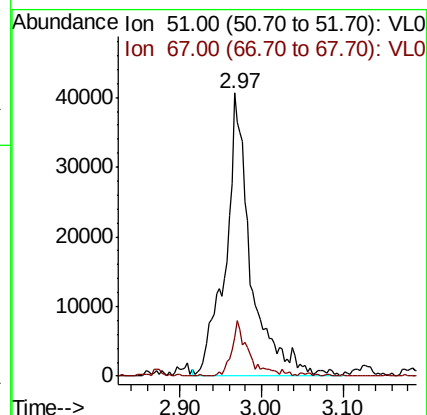
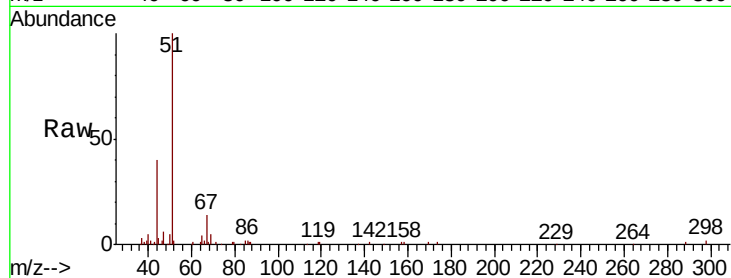




#3
Chlorodifluoromethane
Concen: 0.360 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.02 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

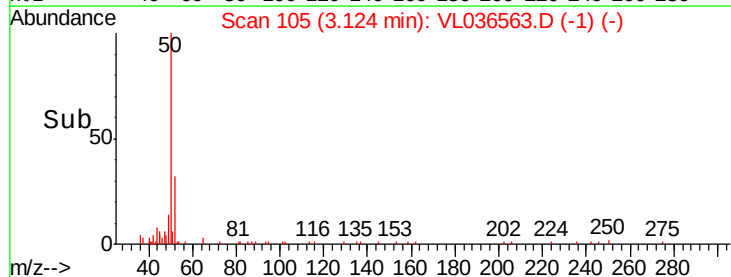
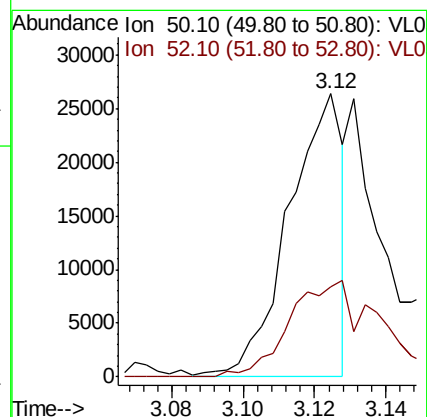
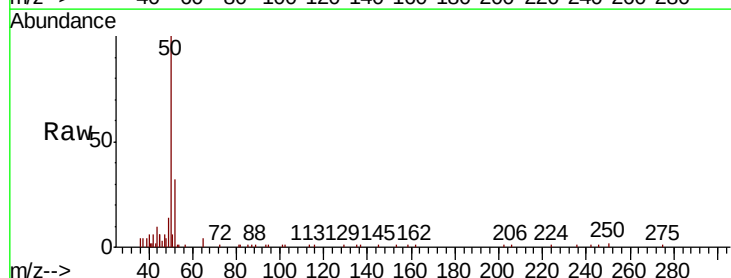
Instrument :
MSVOA_L
ClientSampleId :

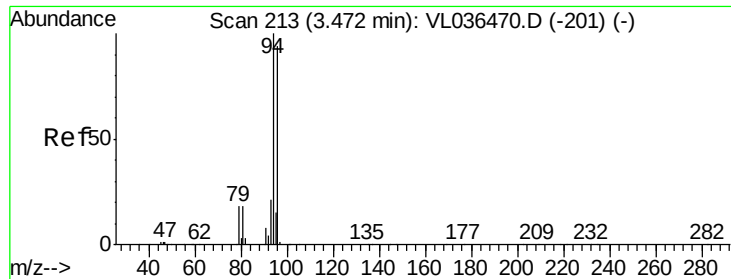
Tot Ion: 51 Resp: 89552
Ion Ratio Lower Upper
51 100
67 13.4 14.7 22.1#



#4
Chloromethane
Concen: 0.314 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.02 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

Tgt Ion: 50 Resp: 27601
Ion Ratio Lower Upper
50 100
52 32.1 27.0 40.6





#6

Bromomethane

Concen: 0.021 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.02 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :

MSVOA_L

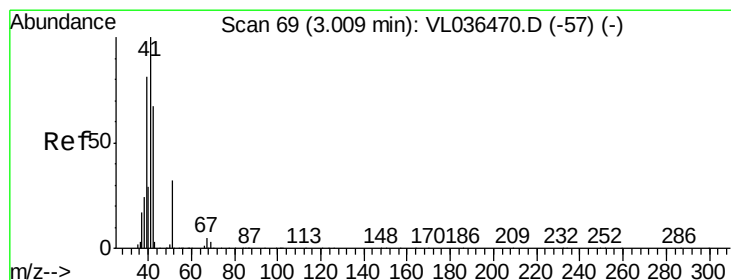
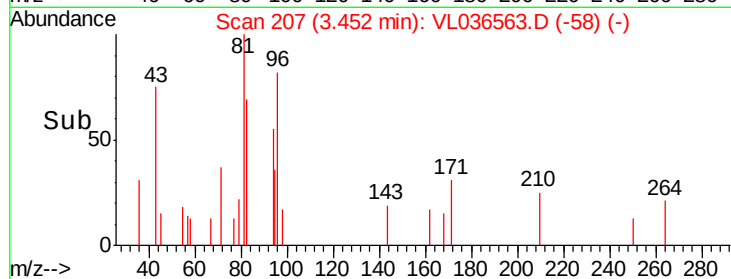
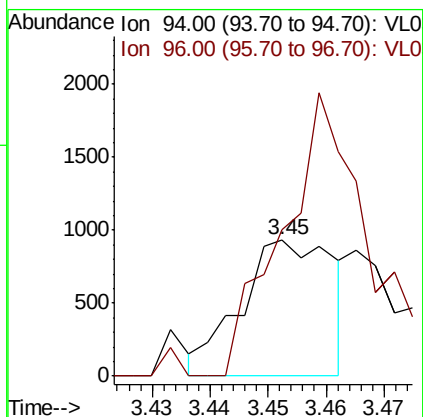
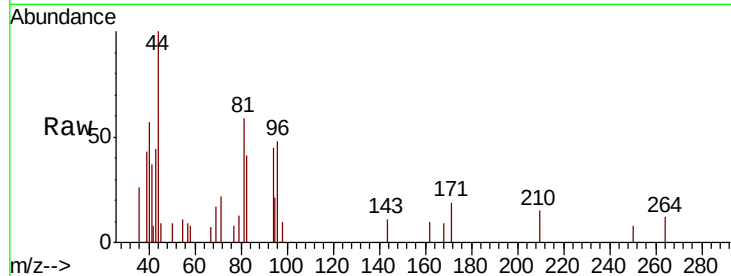
ClientSampled :

Tot Ion: 94 Resp: 1038

Ion Ratio Lower Upper

94 100

96 128.0 74.9 112.3#



#9

Propene

Concen: 0.799 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036563.D

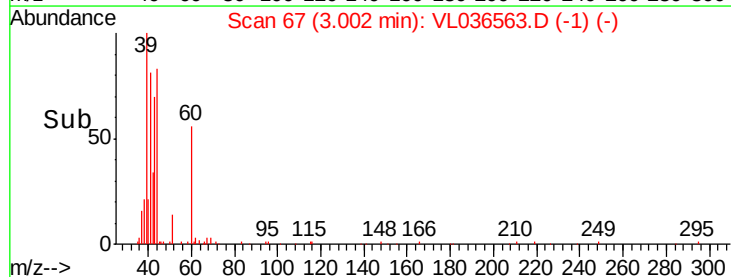
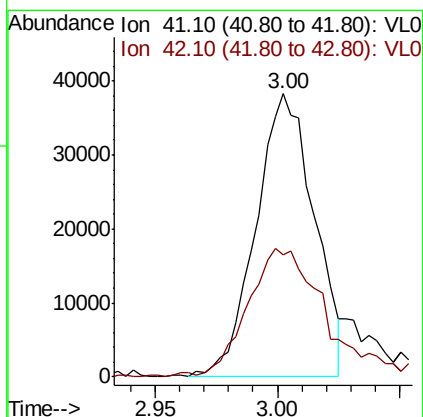
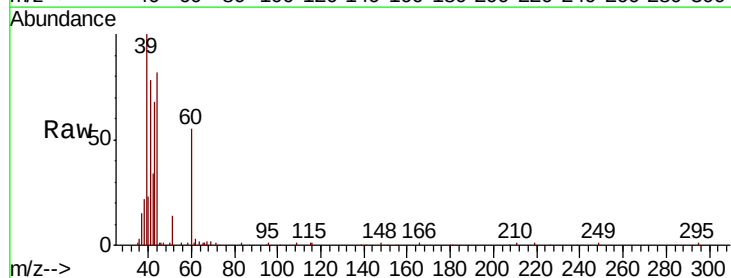
Acq: 30 Mar 2021 10:16

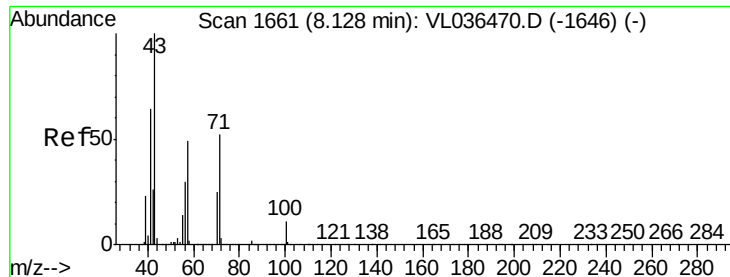
Tgt Ion: 41 Resp: 63315

Ion Ratio Lower Upper

41 100

42 64.3 57.0 85.4

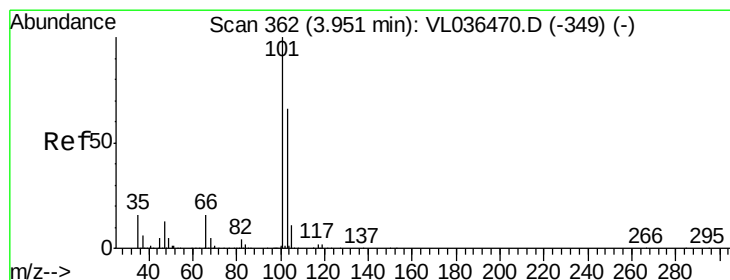
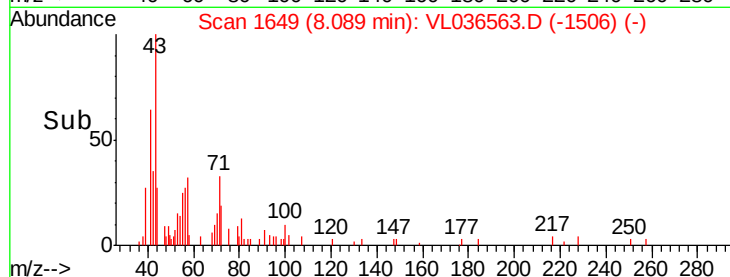
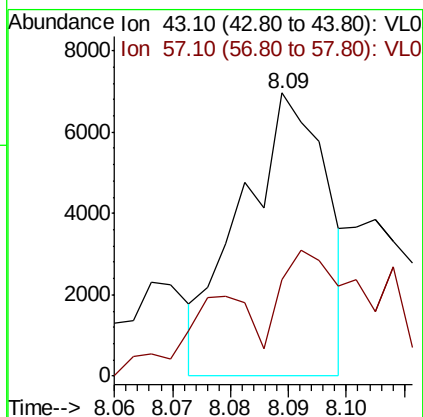
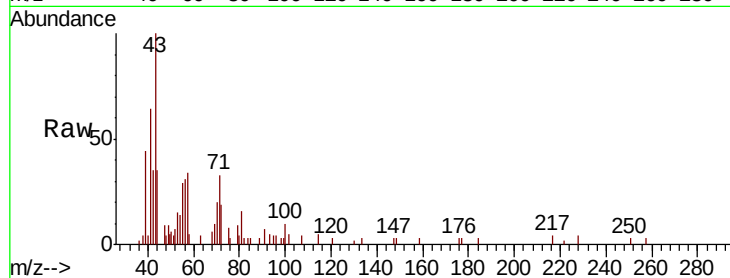




#10
 Heptane
 Concen: 0.035 ppbv
 RT: 8.09 min Scan# 1649
 Delta R.T. -0.04 min
 Lab File: VL036563.D
 Acq: 30 Mar 2021 10:16

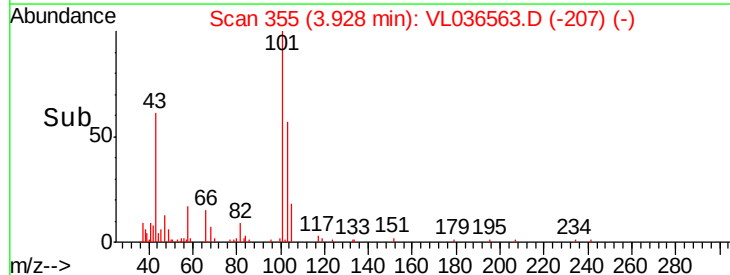
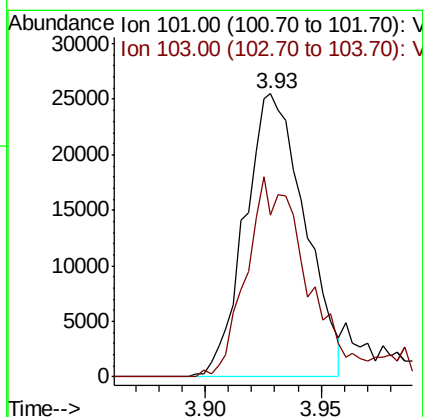
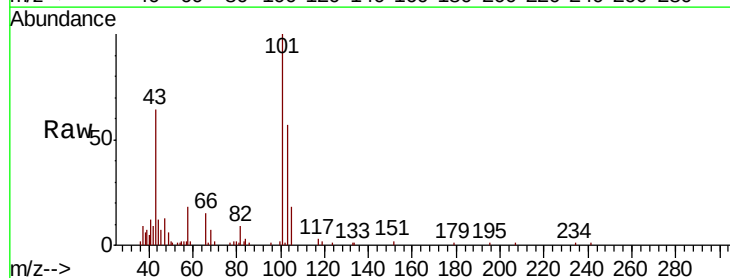
Instrument :
 MSVOA_L
 ClientSampled :

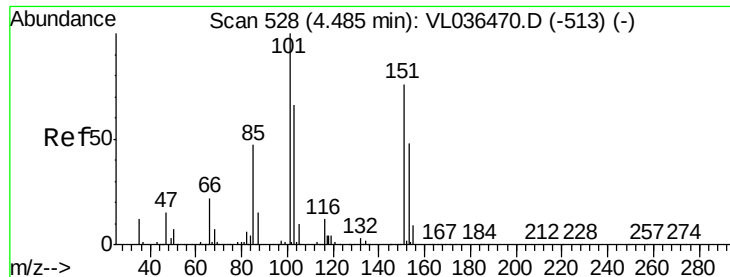
Tot Ion: 43 Resp: 7126
 Ion Ratio Lower Upper
 43 100
 57 83.7 39.0 58.6#



#11
 Trichlorofluoromethane
 Concen: 0.207 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.02 min
 Lab File: VL036563.D
 Acq: 30 Mar 2021 10:16

Tgt Ion: 101 Resp: 45762
 Ion Ratio Lower Upper
 101 100
 103 57.1 52.5 78.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.03 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :

MSVOA_L

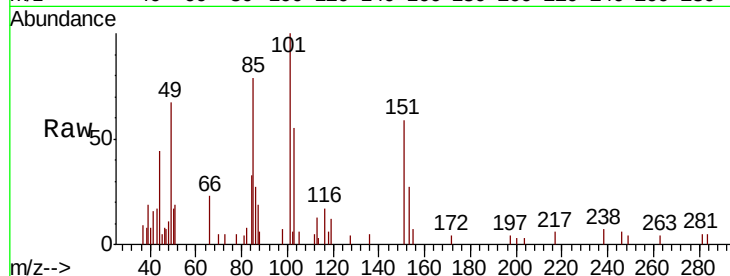
ClientSampleId :

Tot Ion:101 Resp: 4390

Ion Ratio Lower Upper

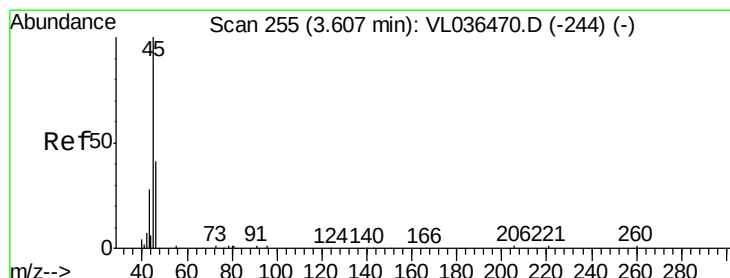
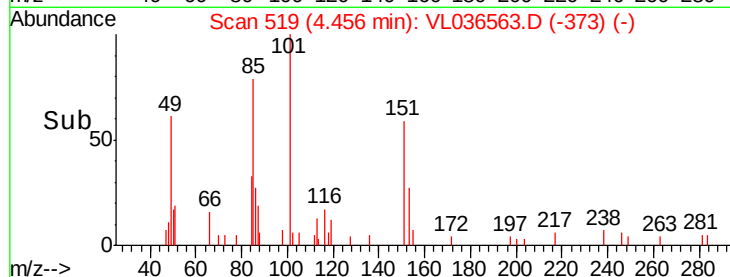
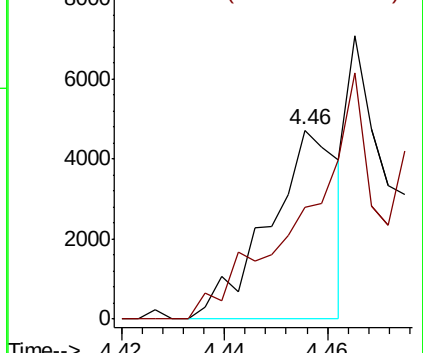
101 100

151 0.0 60.9 91.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 20.168 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL036563.D

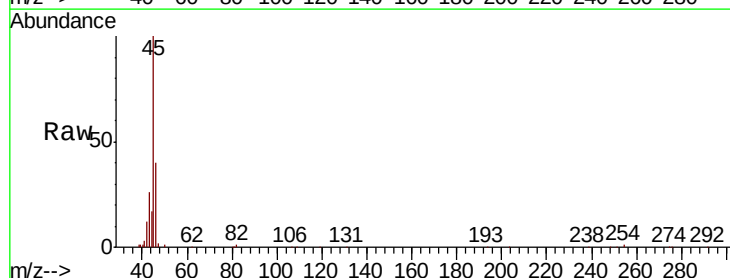
Acq: 30 Mar 2021 10:16

Tgt Ion: 45 Resp: 190372

Ion Ratio Lower Upper

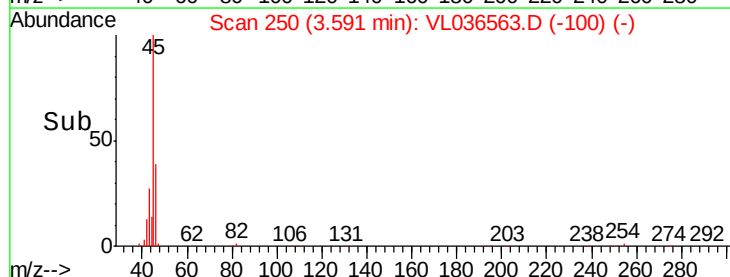
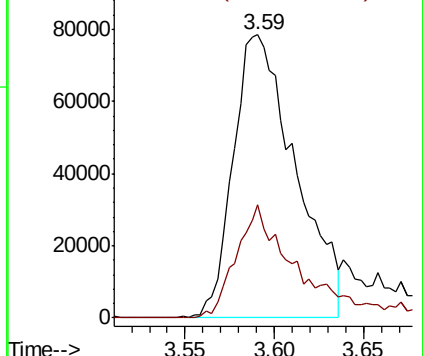
45 100

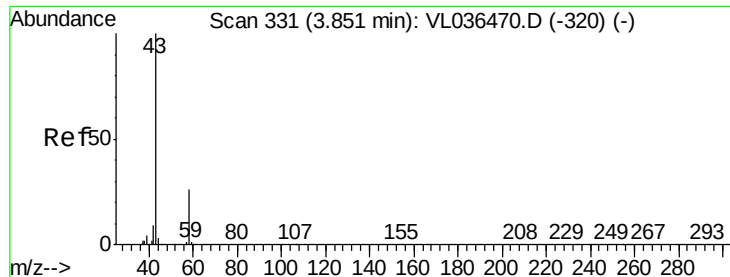
46 42.7 16.6 66.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.337 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

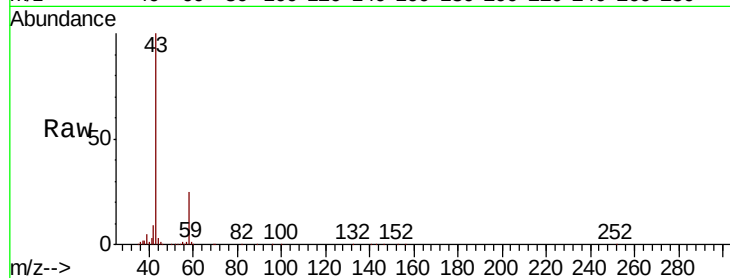
Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1353961

Ion	Ratio	Lower	Upper
43	100		
58	24.9	21.2	31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

600000

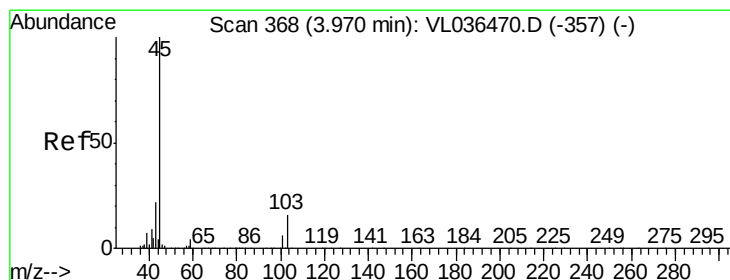
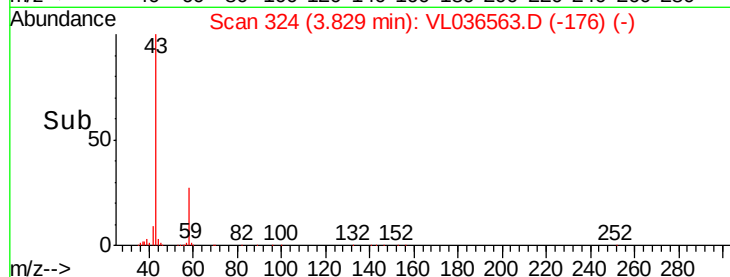
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200000

0

Time-->

3.80 3.90



#19

Isopropyl Alcohol

Concen: 1.408 ppbv

RT: 3.97 min Scan# 367

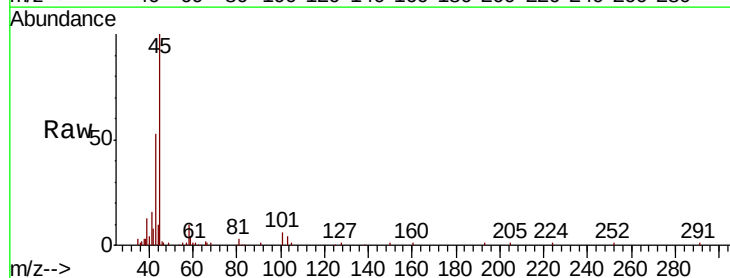
Delta R.T. -0.00 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Tgt Ion: 45 Resp: 101450

Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.9	4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

50000

40000

30000

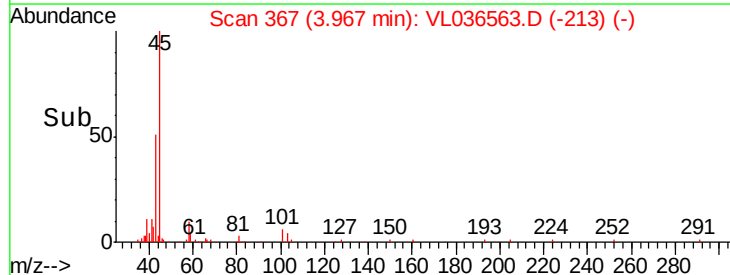
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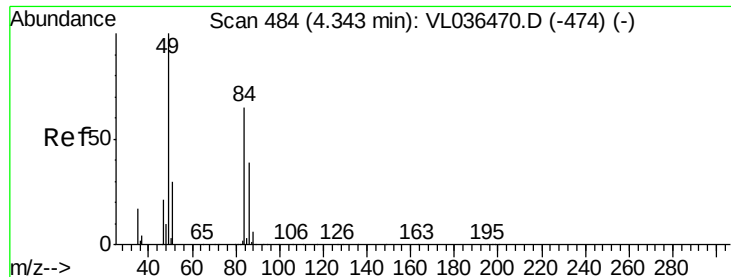
10000

0

Time-->

3.90 3.95 4.00

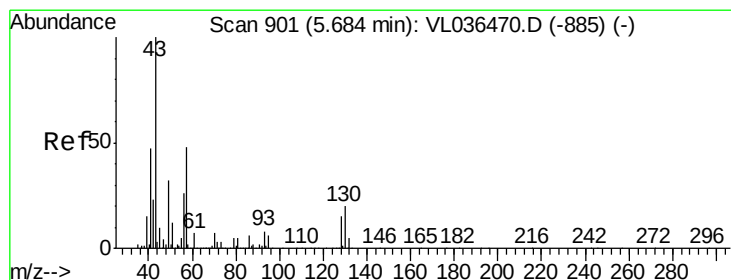
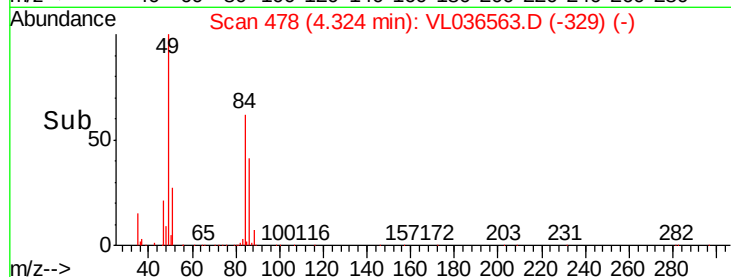
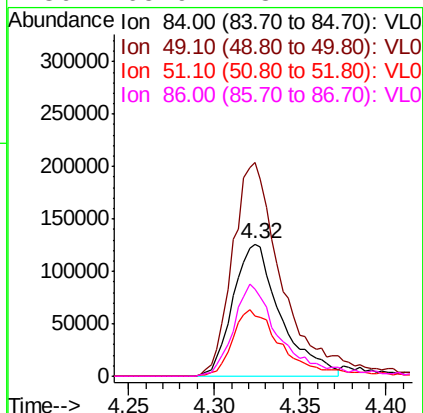
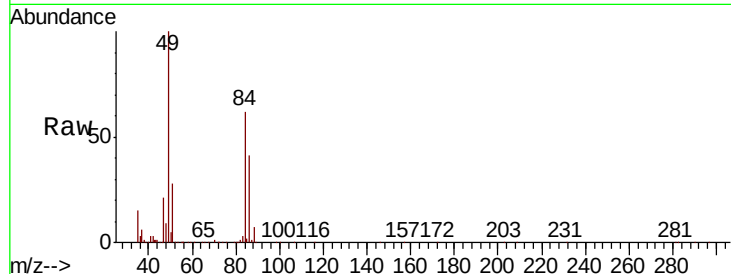




#20
Methylene Chloride
Concen: 3.972 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

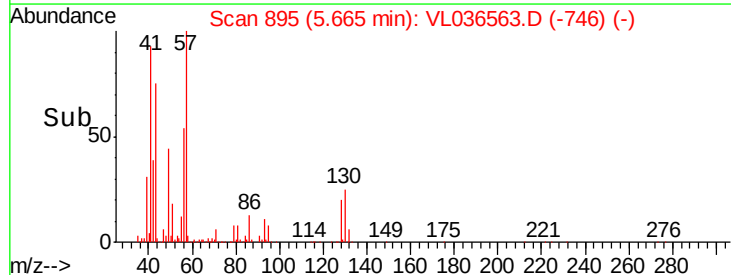
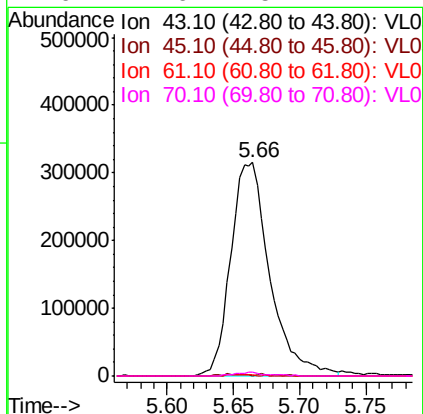
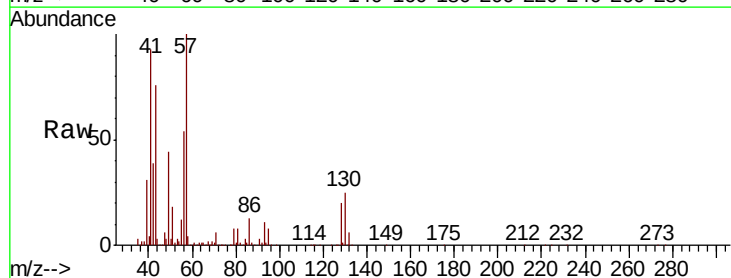
Instrument :
MSVOA_L
ClientSampleId :

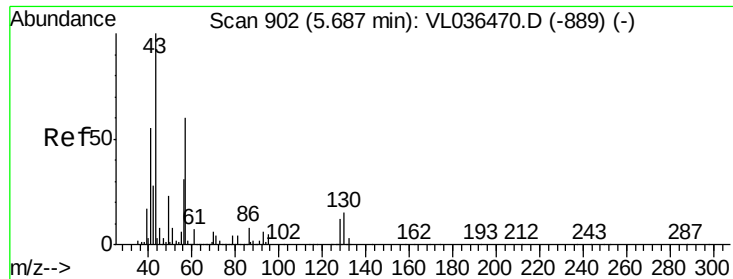
Tot Ion:	84	Resp:	243600
Ion	Ratio	Lower	Upper
84	100		
49	161.2	122.9	184.3
51	45.1	36.9	55.3
86	65.9	48.2	72.4



#25
Ethyl Acetate
Concen: 2.068 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

Tgt Ion:	43	Resp:	644056
Ion	Ratio	Lower	Upper
43	100		
45	1.0	7.9	11.9#
61	0.7	7.4	11.2#
70	1.6	5.1	7.7#

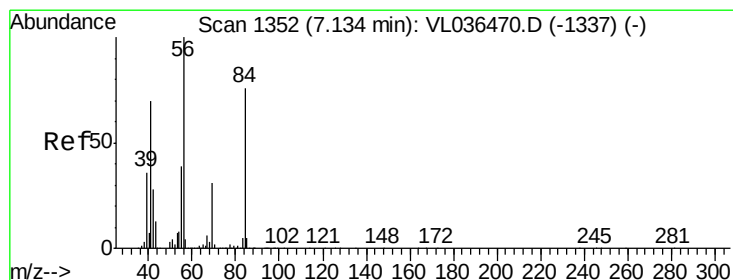
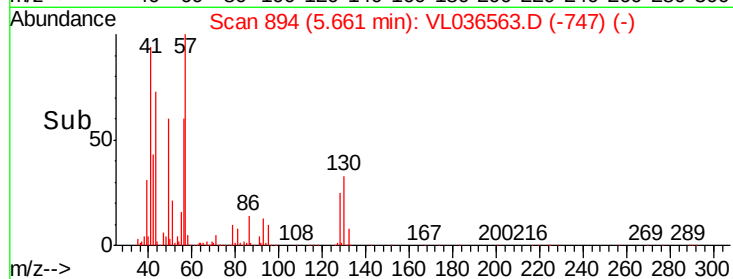
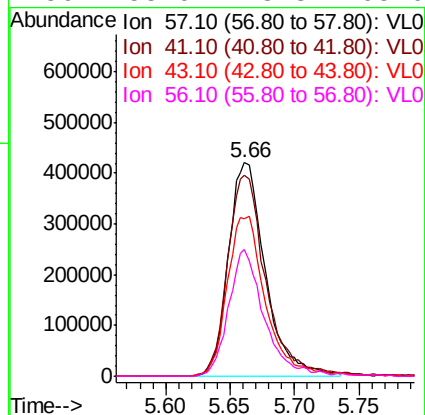
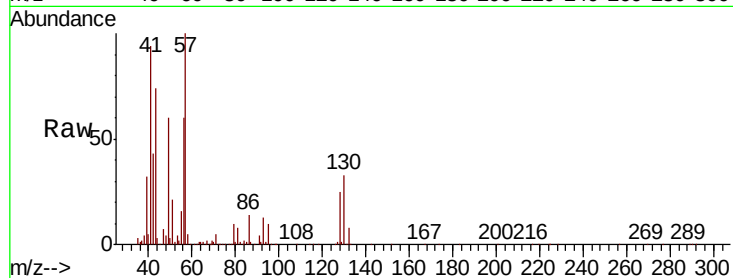




#26
Hexane
Concen: 5.789 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

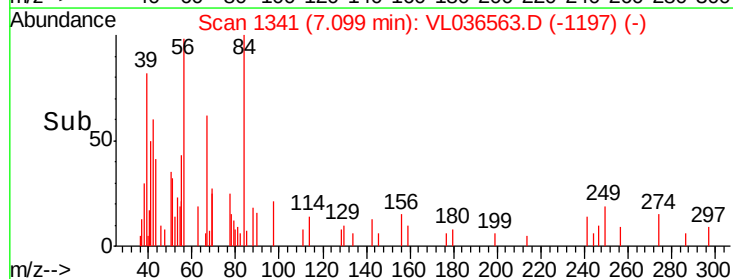
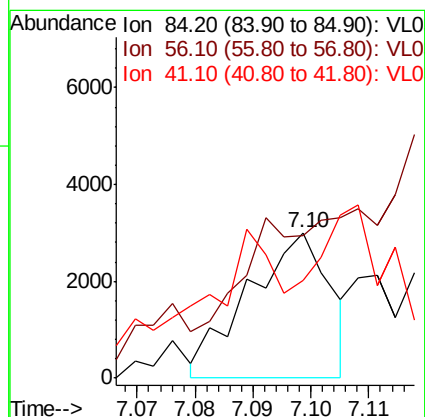
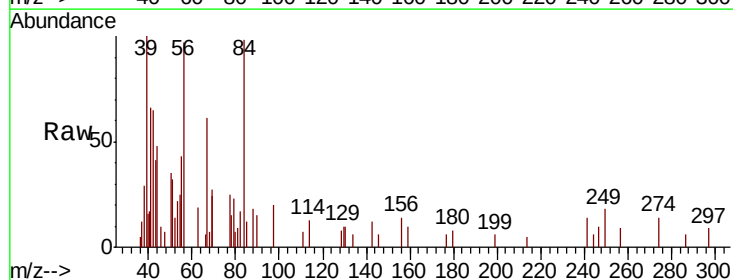
Instrument :
MSVOA_L
ClientSampled :

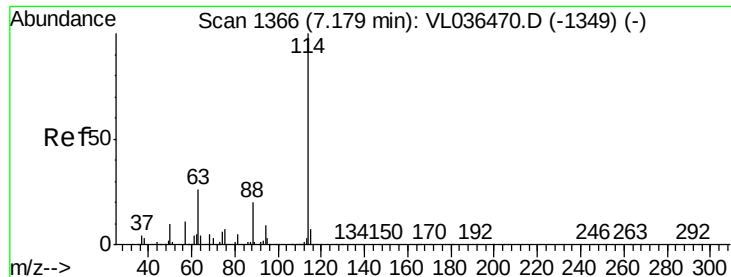
Tot Ion:	57	Resp:	836597
Ion	Ratio	Lower	Upper
57	100		
41	98.3	77.2	115.8
43	78.4	173.8	260.6#
56	58.0	43.8	65.6



#30
Cyclohexane
Concen: 0.025 ppbv
RT: 7.10 min Scan# 1341
Delta R.T. -0.04 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

Tgt Ion:	84	Resp:	2922
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	0.0	75.3	112.9#

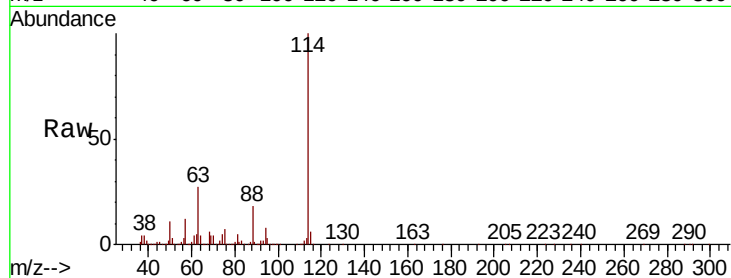




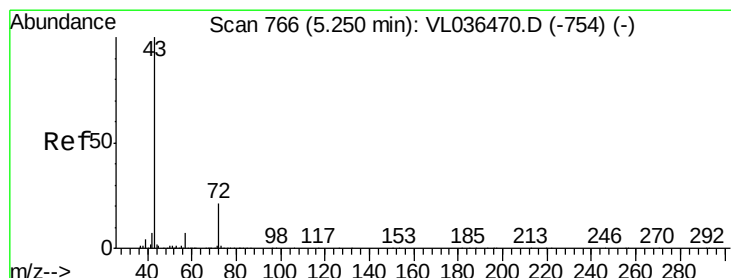
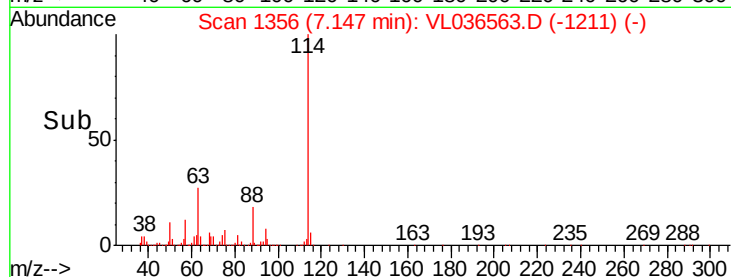
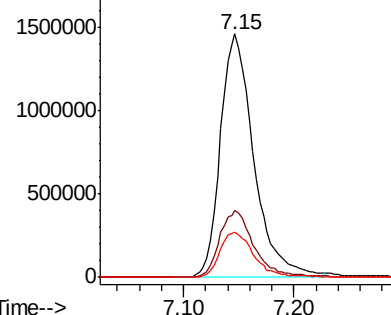
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL036563.D
 Acq: 30 Mar 2021 10:16

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3071735
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.4 33.6
 88 19.3 15.4 23.0

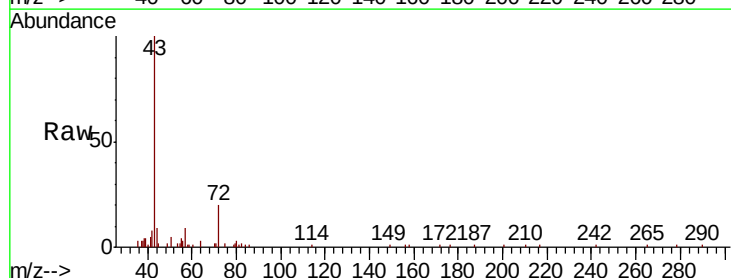


Abundance Ion 114.10 (113.80 to 114.80): V
 2000000
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

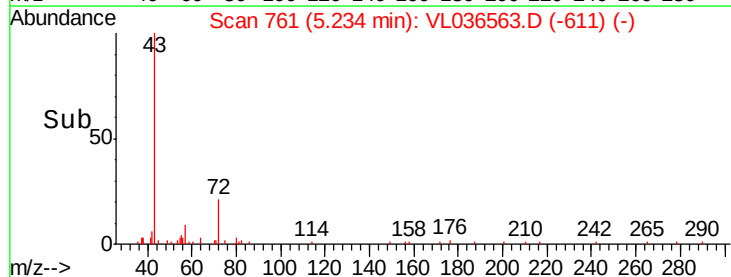
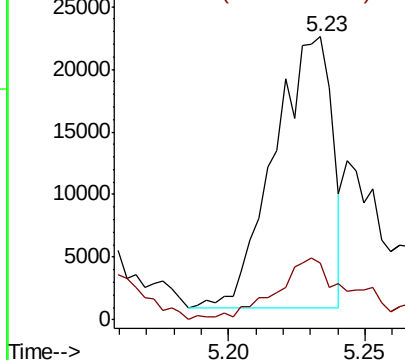


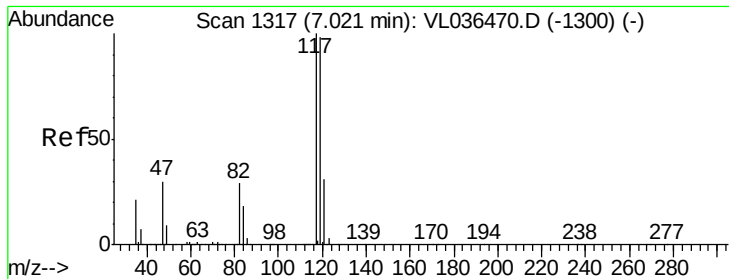
#34
 2-Butanone
 Concen: 0.213 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.02 min
 Lab File: VL036563.D
 Acq: 30 Mar 2021 10:16

Tgt Ion: 43 Resp: 31866
 Ion Ratio Lower Upper
 43 100
 72 33.6 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 25000
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.063 ppbv

RT: 6.99 min Scan# 1306

Delta R.T. -0.04 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :

MSVOA_L

ClientSampleId :

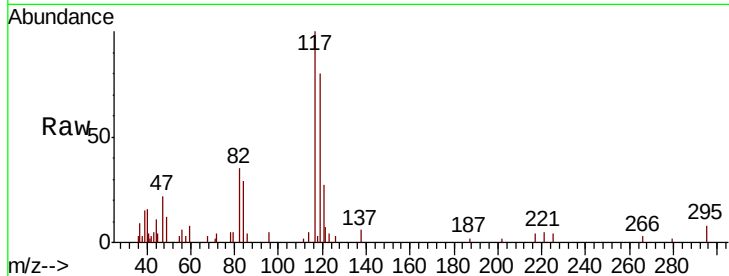
Tot Ion:117 Resp: 14928

Ion Ratio Lower Upper

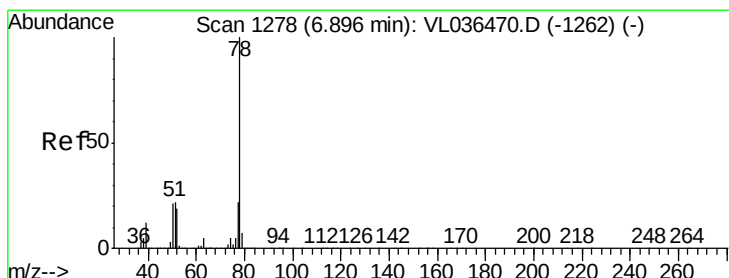
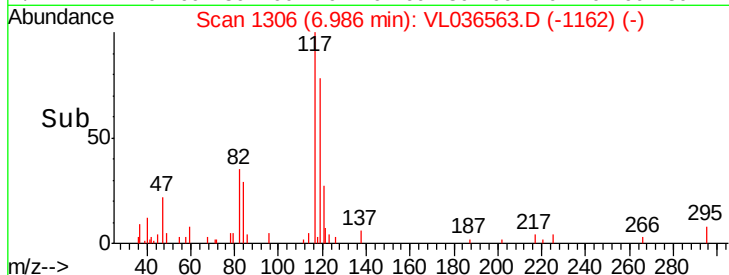
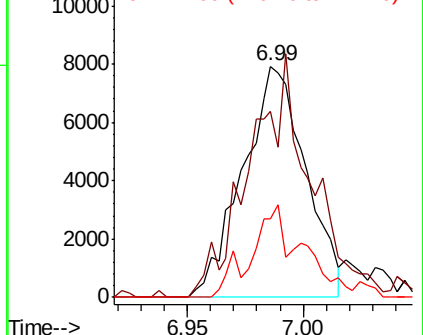
117 100

119 80.4 78.2 117.2

121 34.0 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.100 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

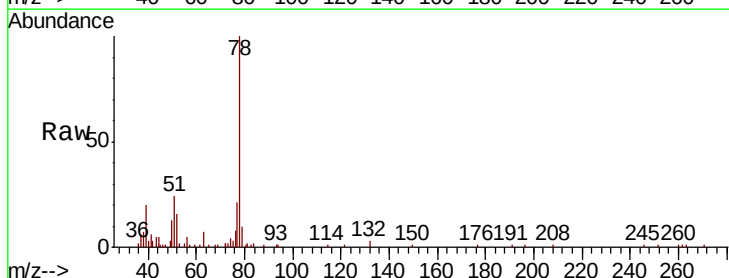
Tgt Ion: 78 Resp: 28221

Ion Ratio Lower Upper

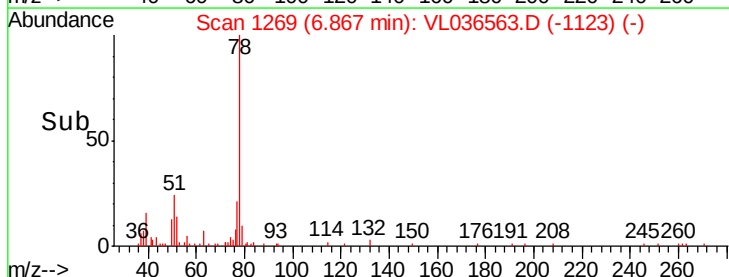
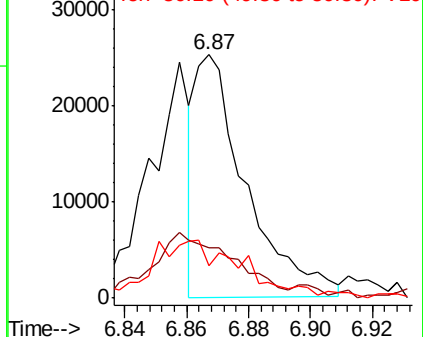
78 100

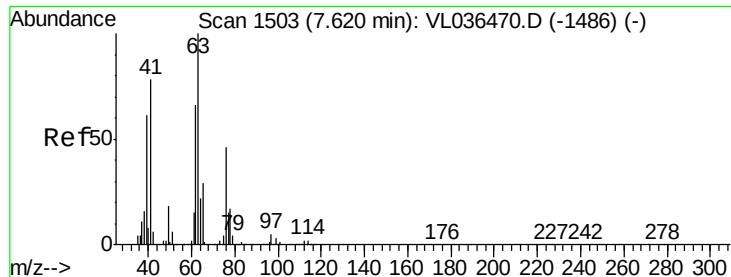
77 19.4 18.0 27.0

50 11.5 16.5 24.7#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 7.376 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.47 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :

MSVOA_L

ClientSampleId :

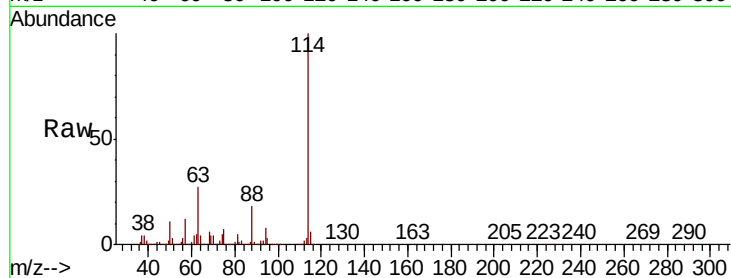
Tot Ion: 63 Resp: 847694

Ion Ratio Lower Upper

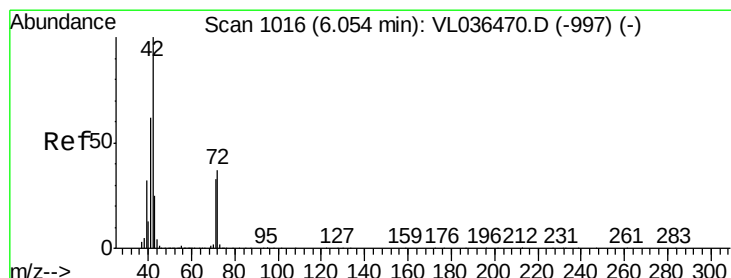
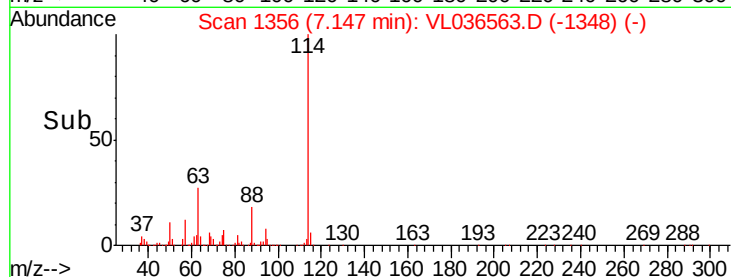
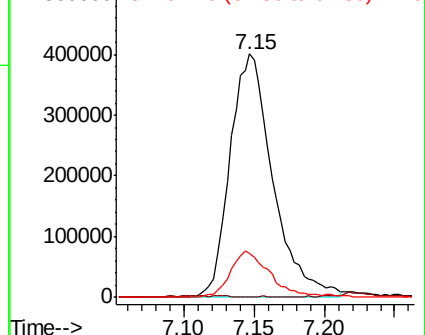
63 100

41 0.0 62.4 93.6#

62 17.9 52.8 79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.196 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.35 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

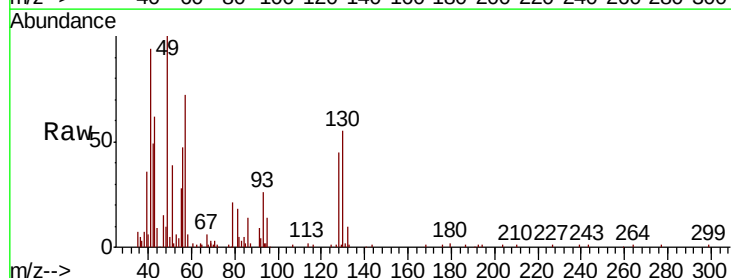
Tgt Ion: 42 Resp: 13578

Ion Ratio Lower Upper

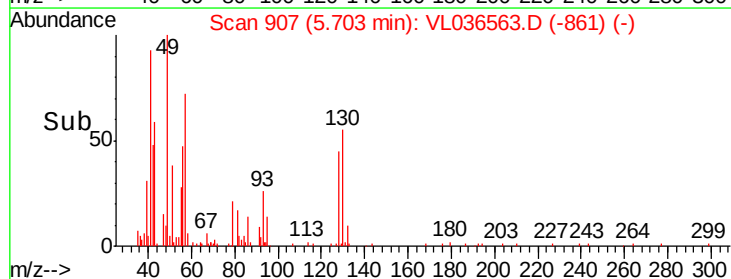
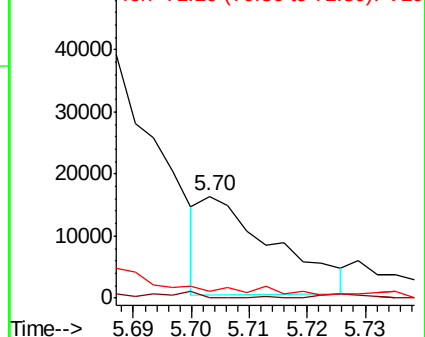
42 100

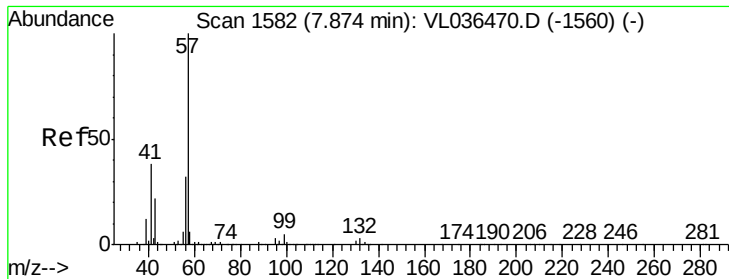
72 1.7 27.6 41.4#

71 0.0 27.0 40.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.059 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.03 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :

MSVOA_L

ClientSampled :

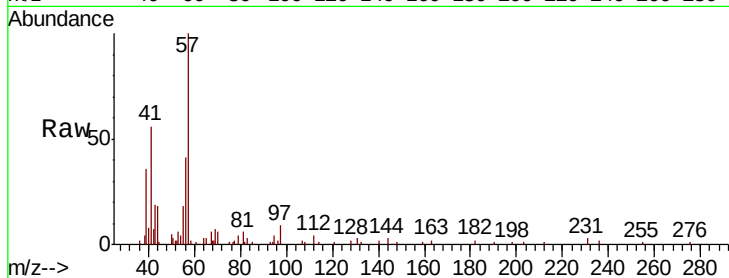
Tot Ion: 57 Resp: 29419

Ion Ratio Lower Upper

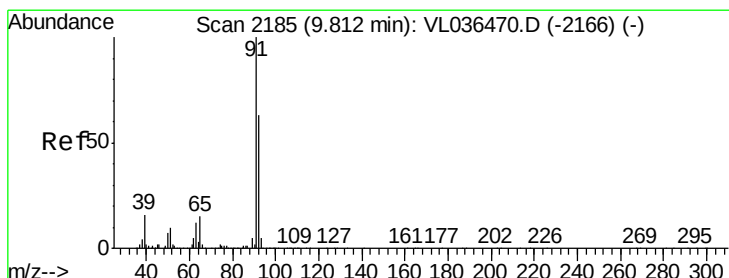
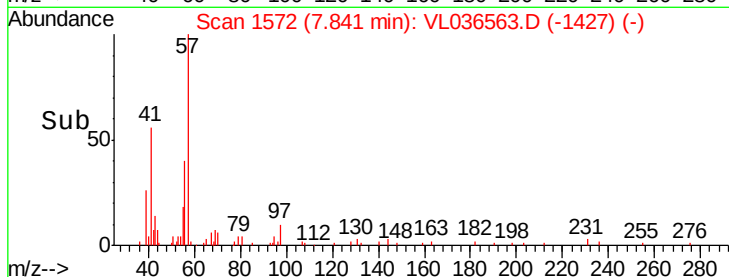
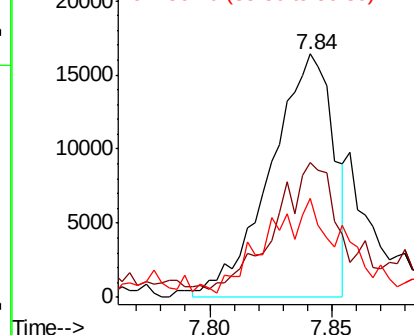
57 100

41 70.3 28.8 43.2#

56 54.6 26.1 39.1#



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



#53

Toluene

Concen: 2.158 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL036563.D

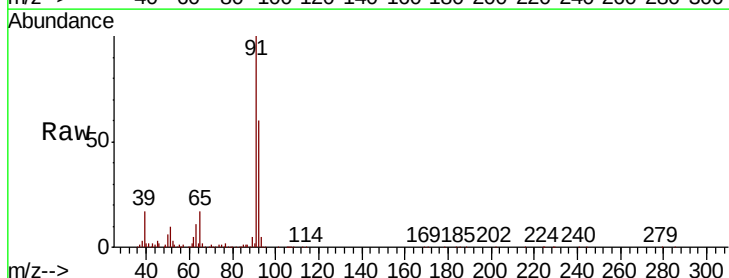
Acq: 30 Mar 2021 10:16

Tgt Ion: 91 Resp: 651155

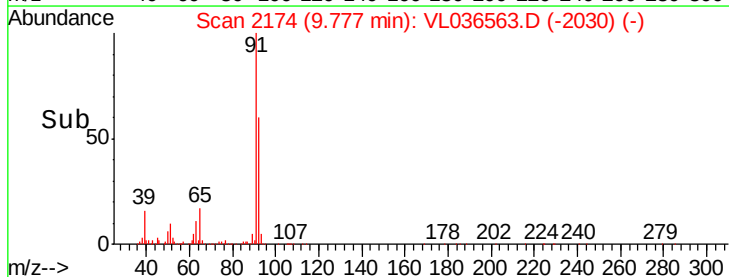
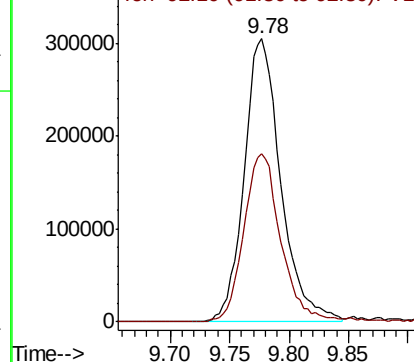
Ion Ratio Lower Upper

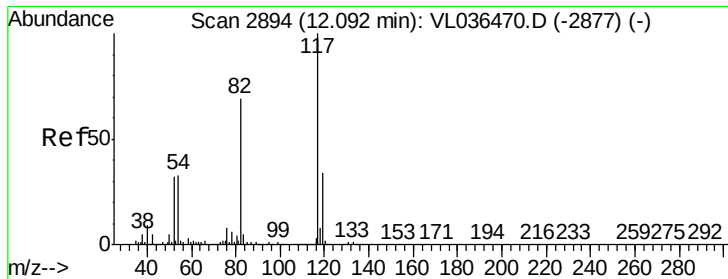
91 100

92 60.9 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

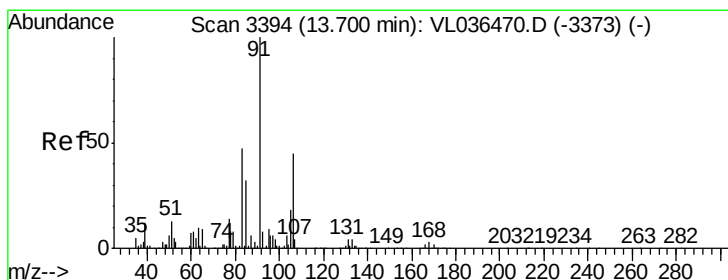
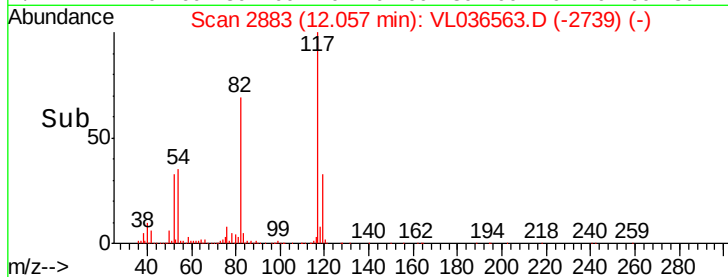
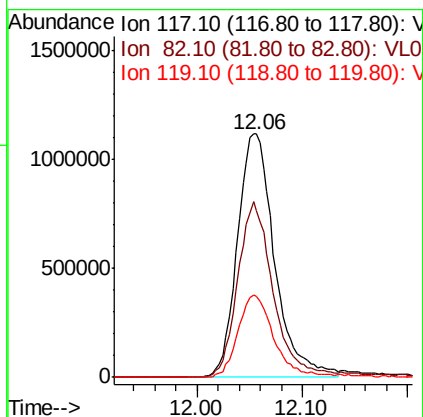
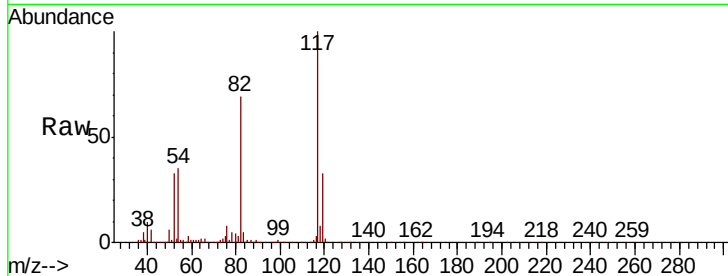




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.04 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

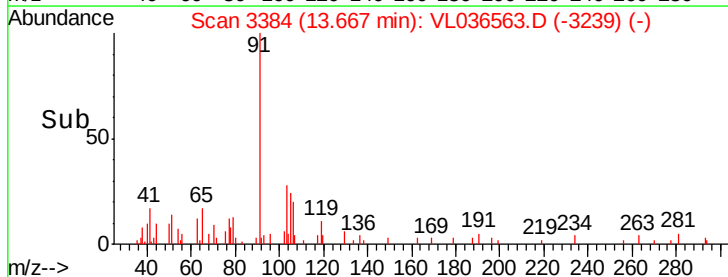
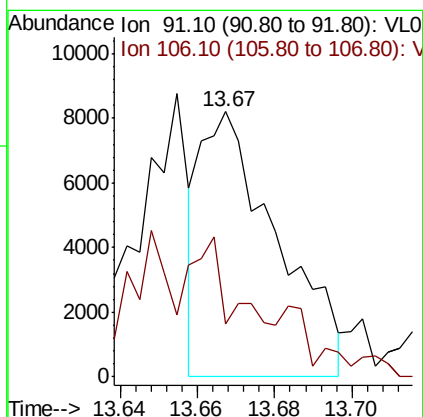
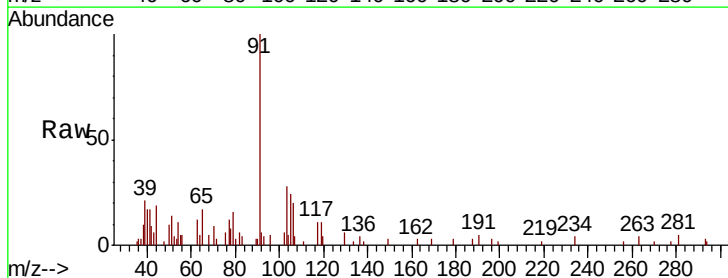
Instrument :
MSVOA_L
ClientSampled :

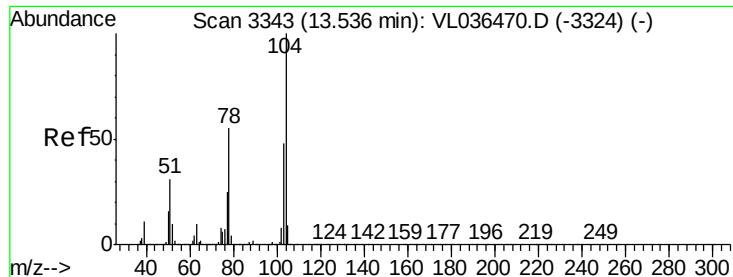
Tot Ion:117 Resp: 2734029
Ion Ratio Lower Upper
117 100
82 70.6 57.4 86.0
119 33.8 47.4 71.0#



#60
o-Xylene
Concen: 0.034 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.03 min
Lab File: VL036563.D
Acq: 30 Mar 2021 10:16

Tgt Ion: 91 Resp: 11304
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#





#61

Stvrene

Concen: 0.110 ppbv

RT: 13.49 min Scan# 3330

Delta R.T. -0.04 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Instrument :

MSVOA_L

ClientSampleId :

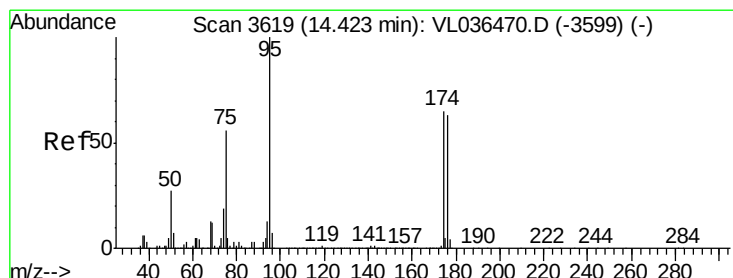
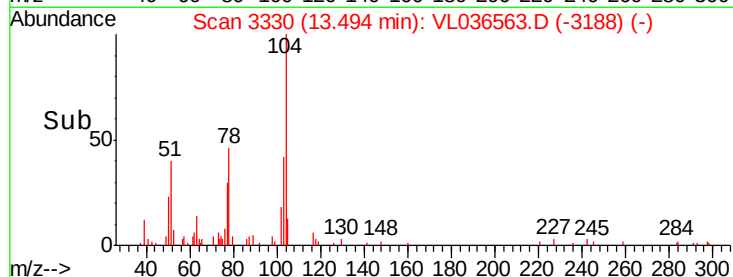
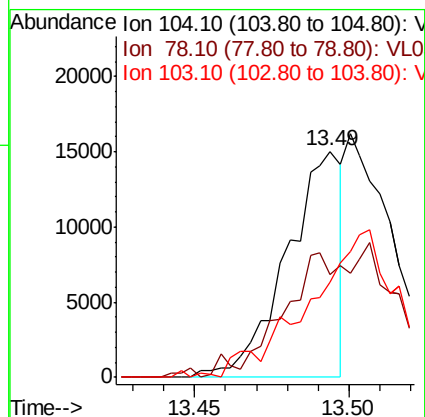
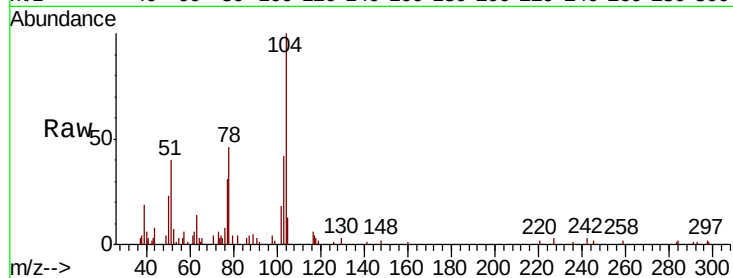
Tot Ion:104 Resp: 18538

Ion Ratio Lower Upper

104 100

78 0.0 43.8 65.8#

103 0.0 38.3 57.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.779 ppbv

RT: 14.38 min Scan# 3607

Delta R.T. -0.04 min

Lab File: VL036563.D

Acq: 30 Mar 2021 10:16

Tgt Ion: 95 Resp: 2130859

Ion Ratio Lower Upper

95 100

174 67.2 51.0 76.6

175 5.2 3.9 5.9

