

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036877.D
 Acq On : 28 Apr 2021 13:23
 Operator : SY/AP
 Sample : M2172-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 29 03:08:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1451933	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3501293	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3207248	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2405384	9.34	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.40%

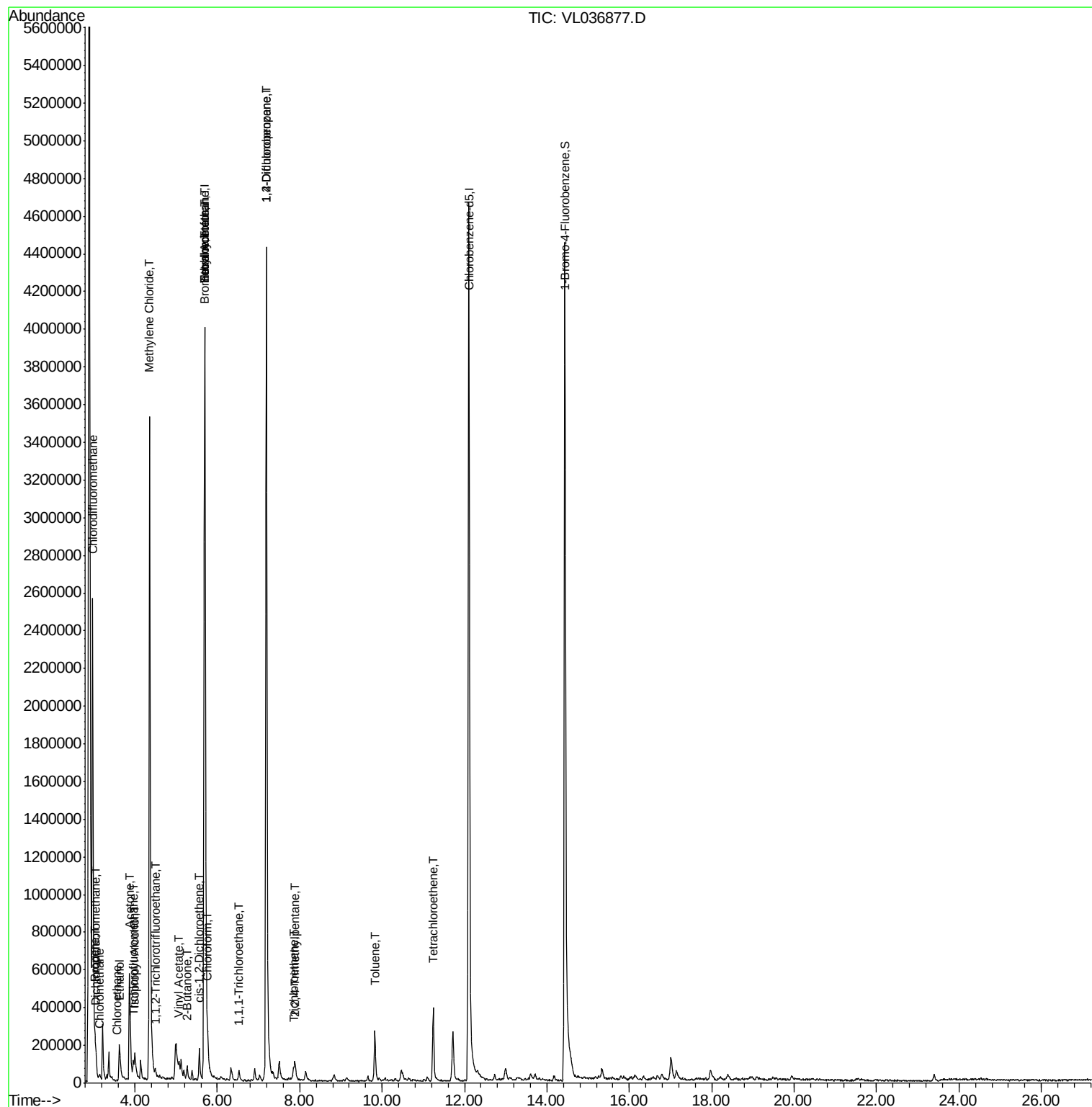
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	59950	0.262	ppbv 94
3) Chlorodifluoromethane	2.97	51	1951471	7.379	ppbv # 60
4) Chloromethane	3.15	50	9884	0.114	ppbv # 86
7) Chloroethane	3.56	64	1054	0.037	ppbv 89
9) Propene	3.03	41	38545	0.478	ppbv 90
11) Trichlorofluoromethane	3.96	101	59783	0.293	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.50	101	8047	0.059	ppbv # 79
13) Ethanol	3.62	45	102300	9.954	ppbv # 5
15) Acetone	3.86	43	786537	5.748	ppbv 98
19) Isopropyl Alcohol	3.99	45	53275	0.786	ppbv # 89
20) Methylene Chloride	4.36	84	1405606	21.479	ppbv 96
23) Vinyl Acetate	5.08	43	38049	0.204	ppbv # 61
25) Ethyl Acetate	5.70	43	888231	2.657	ppbv # 80
26) Hexane	5.70	57	1183269	7.566	ppbv # 45
29) Chloroform	5.77	83	35462	0.145	ppbv 87
31) cis-1,2-Dichloroethene	5.56	61	47706	0.340	ppbv 96
32) 1,1,1-Trichloroethane	6.53	97	31112	0.125	ppbv 91
34) 2-Butanone	5.27	43	89081	0.581	ppbv 94
38) Trichloroethene	7.85	130	16944	0.161	ppbv # 74
39) 1,2-Dichloropropane	7.19	63	936308	7.922	ppbv # 23
41) Tetrahydrofuran	5.70	42	489180	7.291	ppbv # 51
44) 2,2,4-Trimethylpentane	7.89	57	34616	0.068	ppbv # 1
52) Tetrachloroethene	11.24	164	71720	0.714	ppbv 97
53) Toluene	9.83	91	192638	0.624	ppbv 98

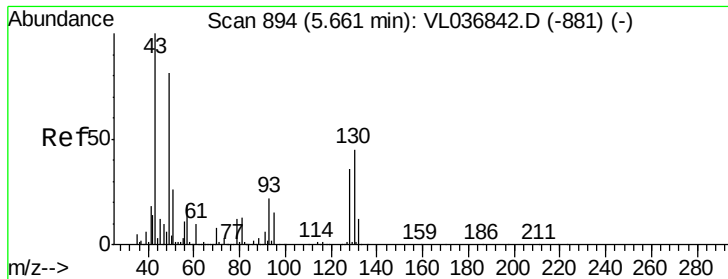
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.02 min

Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

Instrument :

MSVOA_L

ClientSampleId :

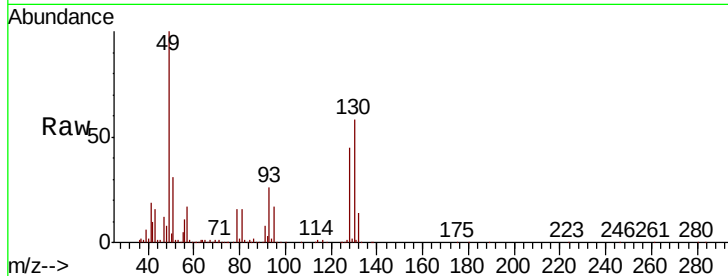
Tot Ion: 49 Resp: 1451933

Ion Ratio Lower Upper

49 100

128 49.2 24.4 73.2

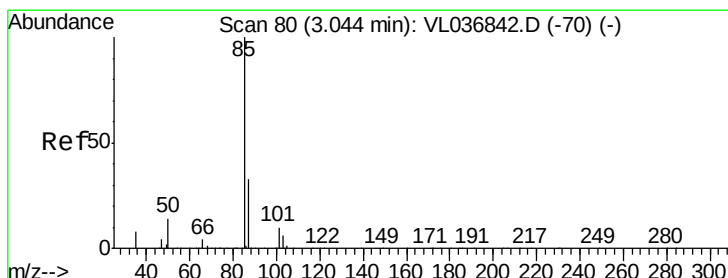
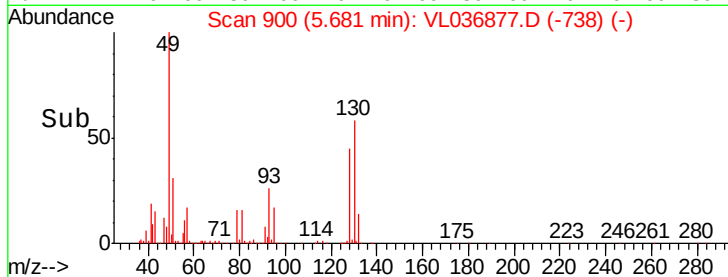
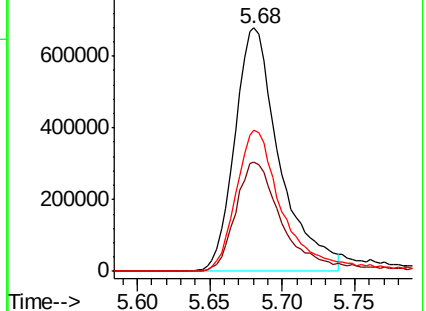
130 62.8 30.3 90.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.262 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036877.D

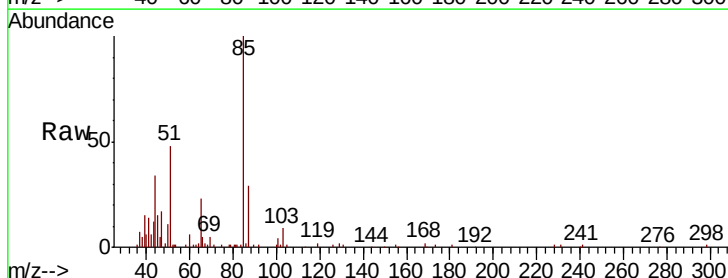
Acq: 28 Apr 2021 13:23

Tgt Ion: 85 Resp: 59950

Ion Ratio Lower Upper

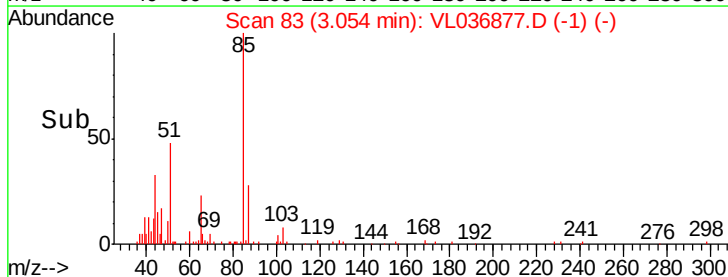
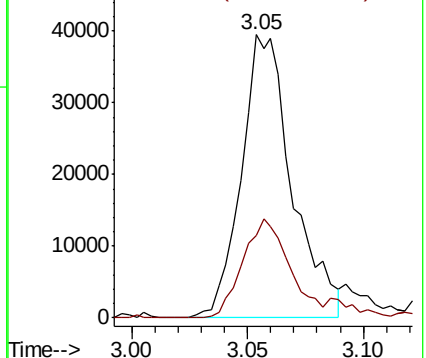
85 100

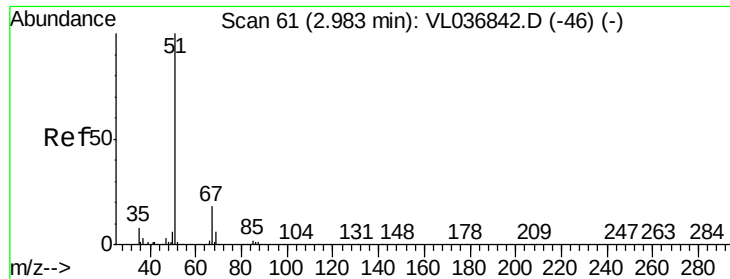
87 29.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

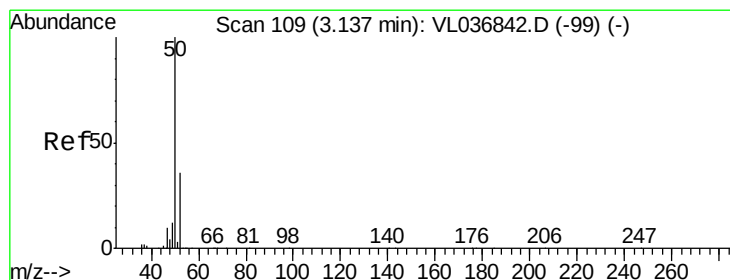
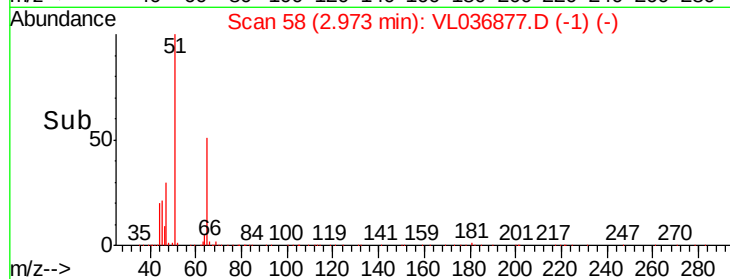
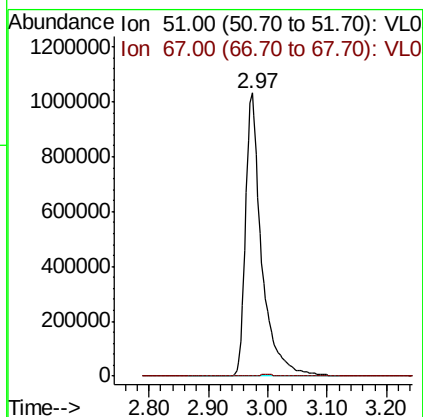
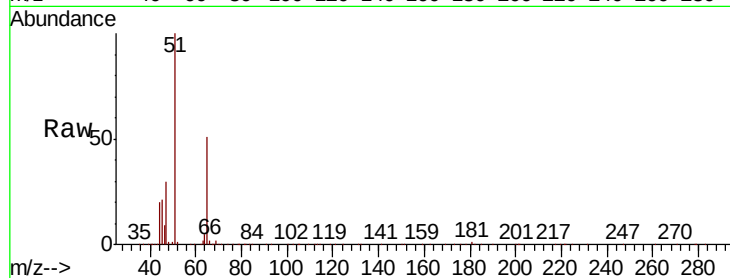




#3
Chlorodifluoromethane
Concen: 7.379 ppbv
RT: 2.97 min Scan# 58
Delta R.T. -0.01 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

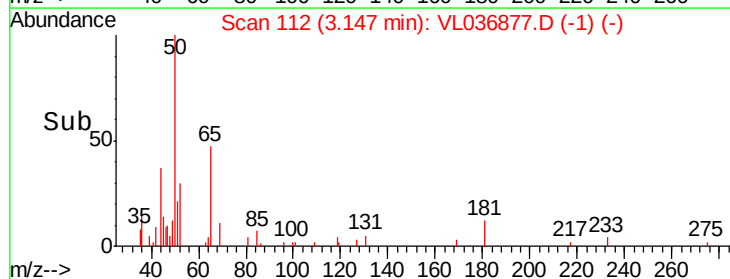
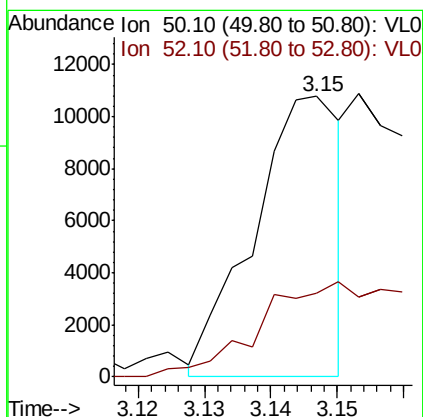
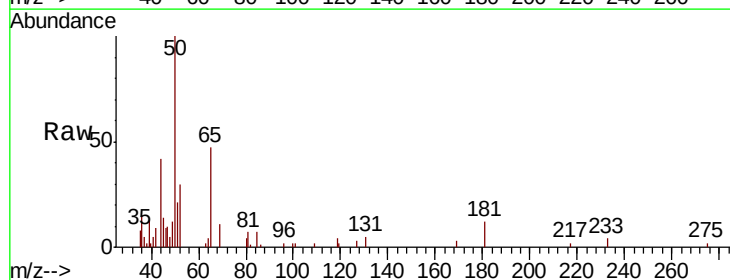
Instrument :
MSVOA_L
ClientSampled :

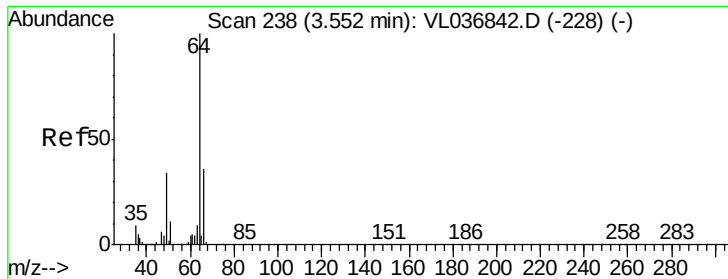
Tot Ion: 51 Resp: 1951471
Ion Ratio Lower Upper
51 100
67 0.7 14.8 22.2#



#4
Chloromethane
Concen: 0.114 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.01 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

Tgt Ion: 50 Resp: 9884
Ion Ratio Lower Upper
50 100
52 27.4 28.5 42.7#





#7

Chloroethane

Concen: 0.037 ppbv

RT: 3.56 min Scan# 242

Delta R.T. 0.01 min

Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

Instrument :

MSVOA_L

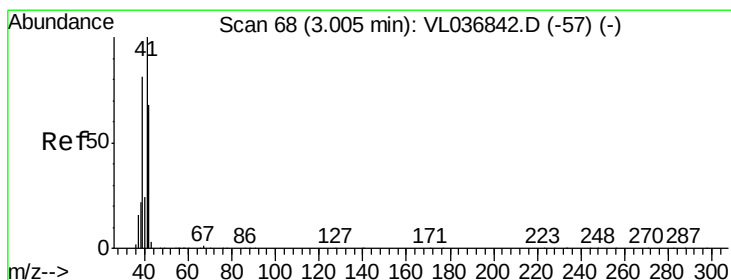
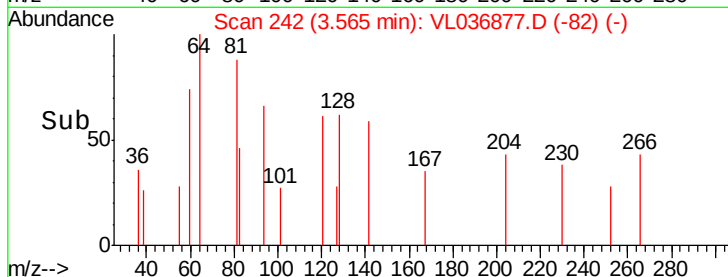
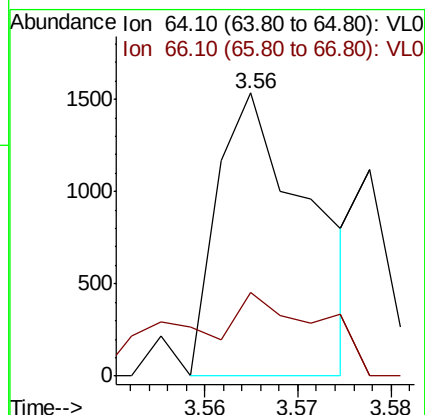
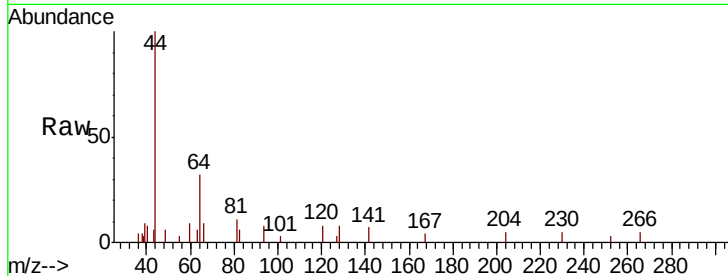
ClientSampleId :

Tot Ion: 64 Resp: 1054

Ion Ratio Lower Upper

64 100

66 29.5 29.0 43.6



#9

Propene

Concen: 0.478 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL036877.D

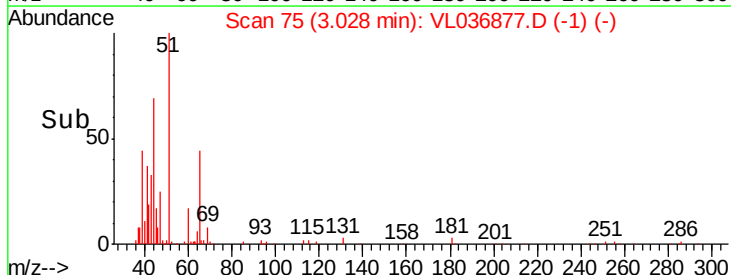
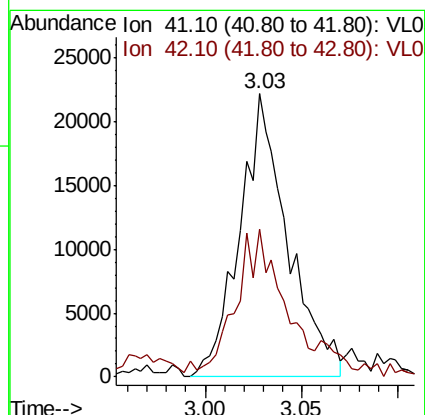
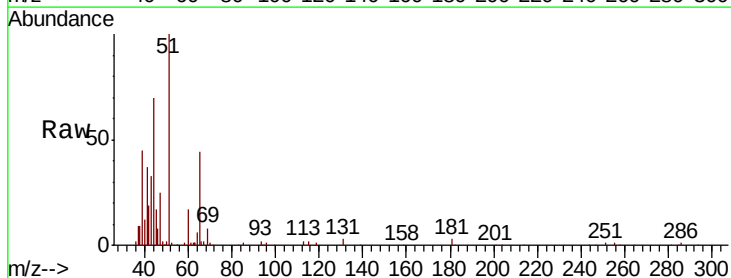
Acq: 28 Apr 2021 13:23

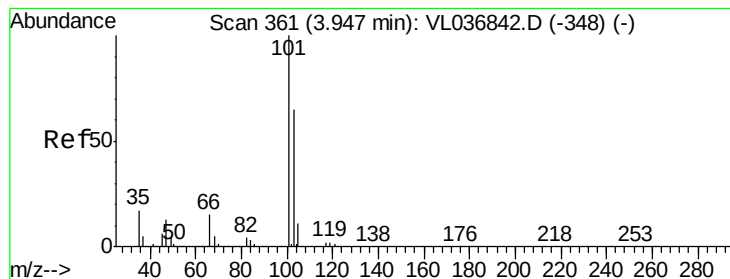
Tgt Ion: 41 Resp: 38545

Ion Ratio Lower Upper

41 100

42 61.8 56.0 84.0





#11

Trichlorofluoromethane

Concen: 0.293 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

Instrument :

MSVOA_L

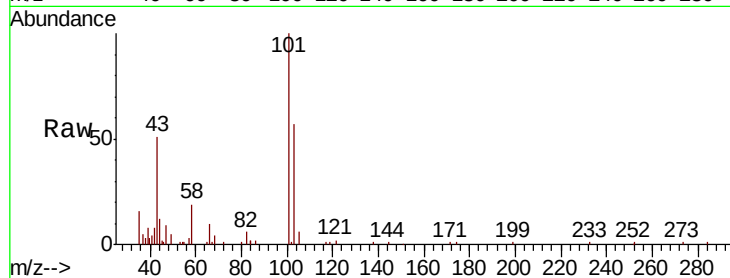
ClientSampleId :

Tot Ion:101 Resp: 59783

Ion Ratio Lower Upper

101 100

103 57.3 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.96

40000

30000

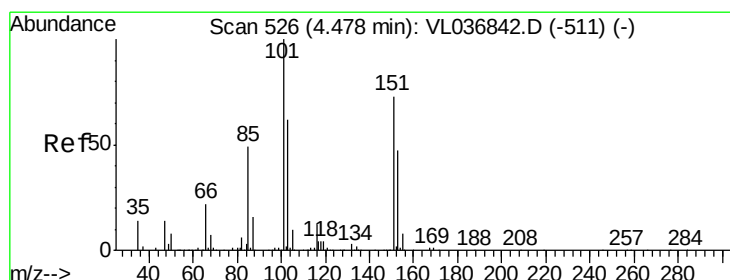
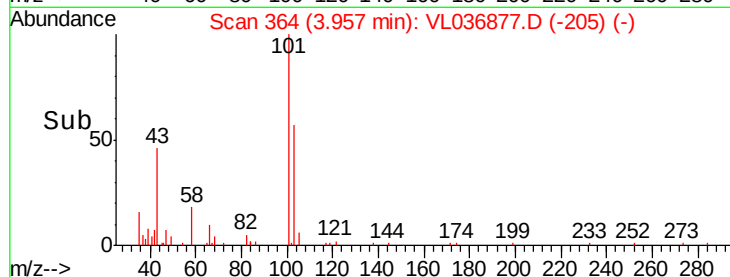
20000

10000

0

Time-->

3.90 3.95 4.00



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.02 min

Lab File: VL036877.D

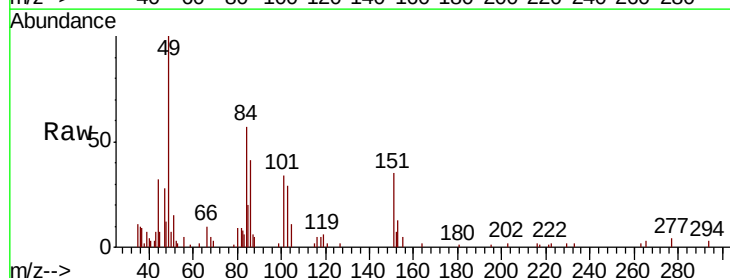
Acq: 28 Apr 2021 13:23

Tgt Ion:101 Resp: 8047

Ion Ratio Lower Upper

101 100

151 94.1 61.1 91.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.50

4000

3000

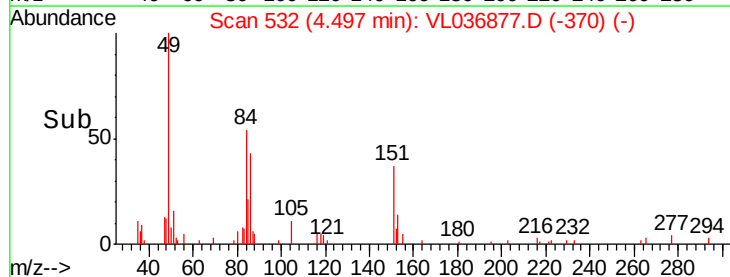
2000

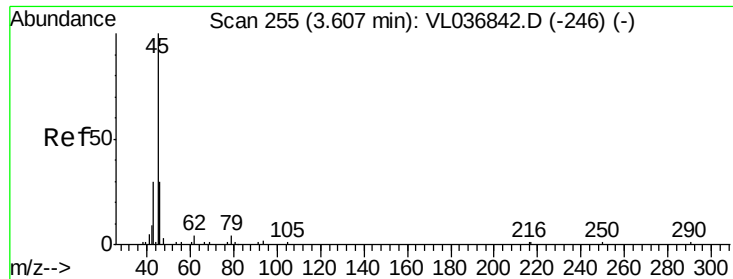
1000

0

Time-->

4.45 4.50

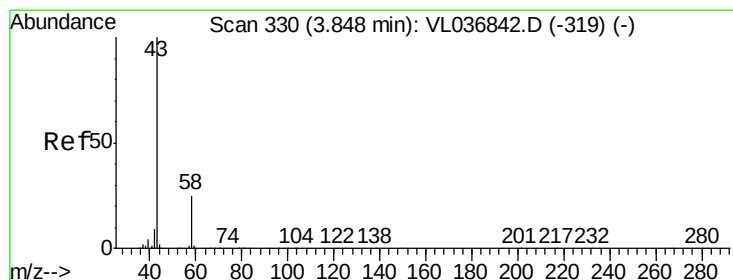
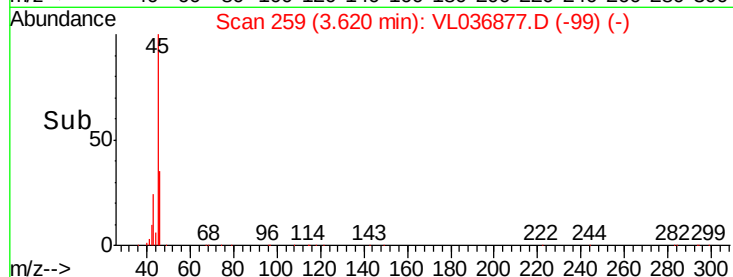
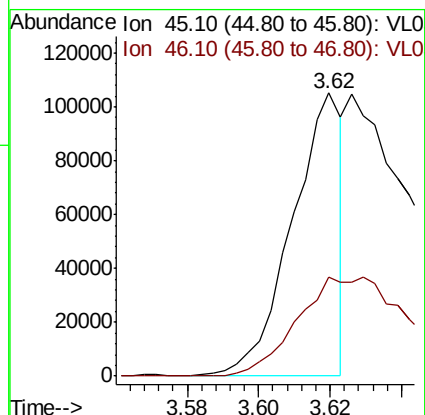
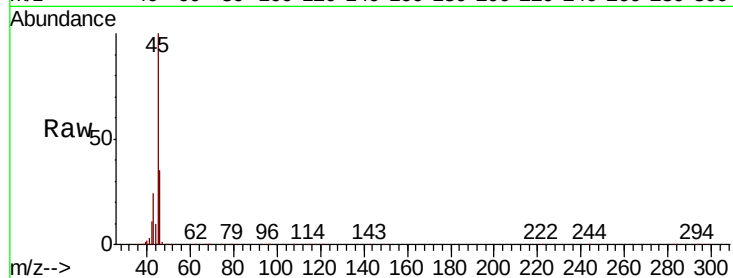




#13
Ethanol
Concen: 9.954 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

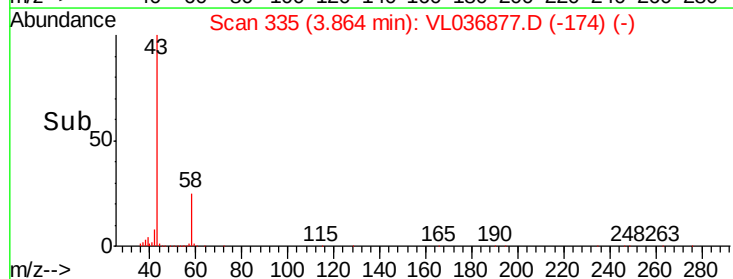
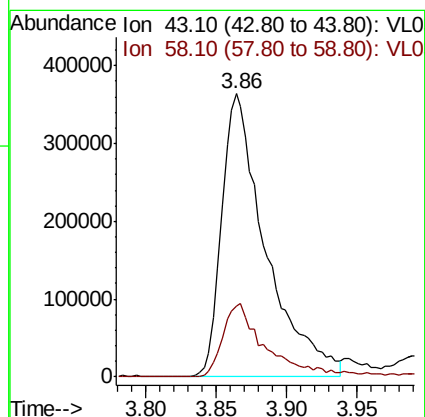
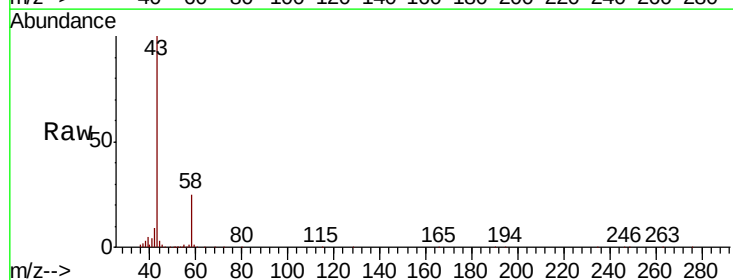
Instrument :
MSVOA_L
ClientSampleId :

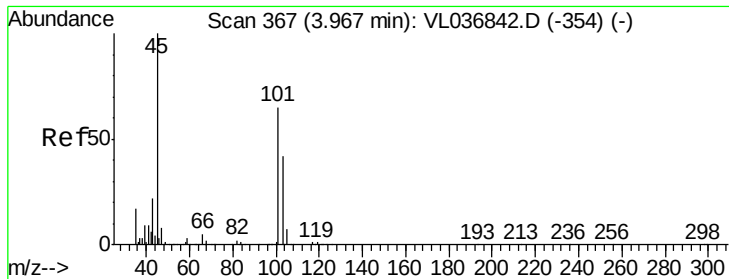
Tot Ion: 45 Resp: 102300
Ion Ratio Lower Upper
45 100
46 102.5 16.8 67.4#



#15
Acetone
Concen: 5.748 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

Tgt Ion: 43 Resp: 786537
Ion Ratio Lower Upper
43 100
58 26.2 21.7 32.5

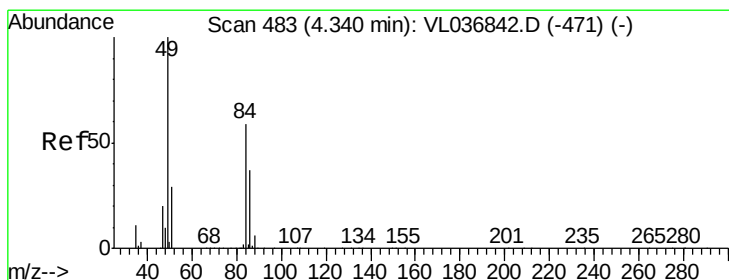
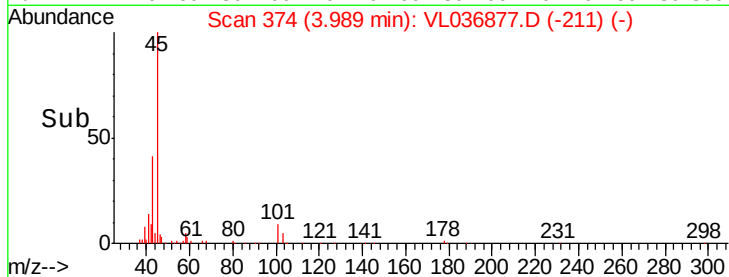
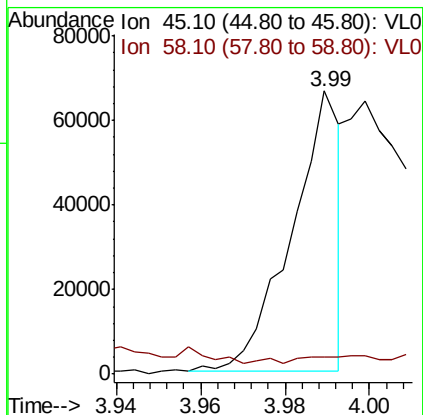
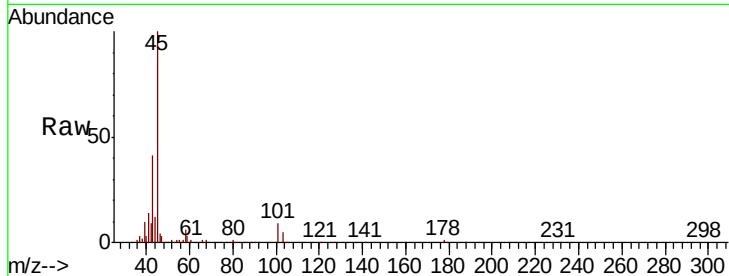




#19
Isopropyl Alcohol
Concen: 0.786 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.02 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

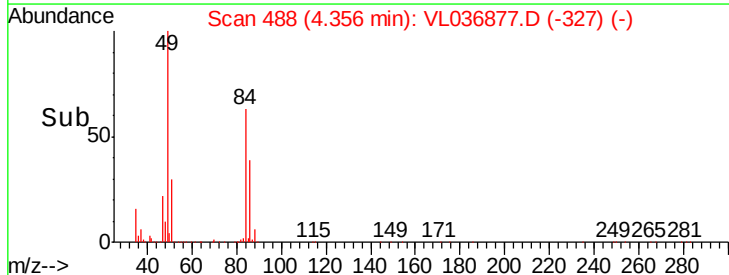
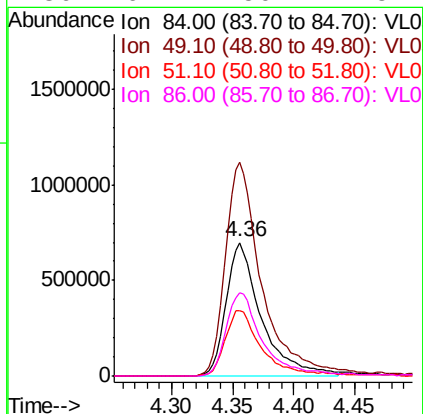
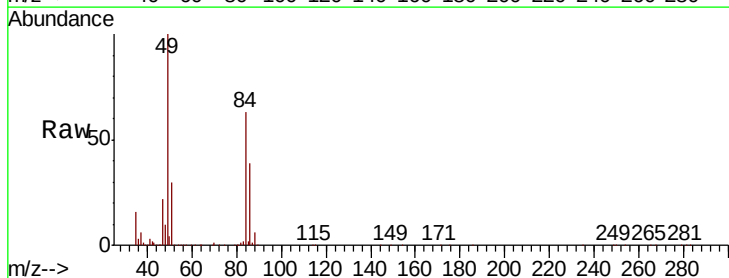
Instrument :
MSVOA_L
ClientSampleId :

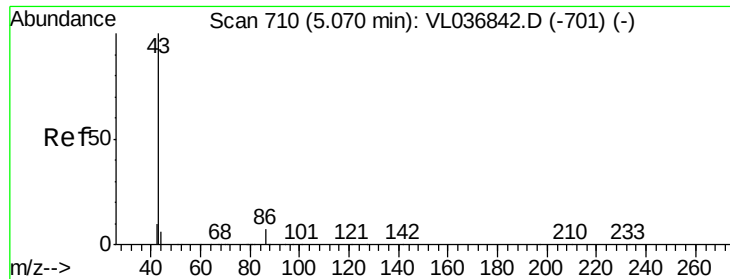
Tot Ion: 45 Resp: 53275
Ion Ratio Lower Upper
45 100
58 0.0 2.8 4.2#



#20
Methylene Chloride
Concen: 21.479 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.02 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

Tgt Ion: 84 Resp: 1405606
Ion Ratio Lower Upper
84 100
49 159.9 135.4 203.0
51 48.5 39.3 58.9
86 62.7 50.2 75.2





#23

Vinyl Acetate

Concen: 0.204 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.01 min

Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 38049

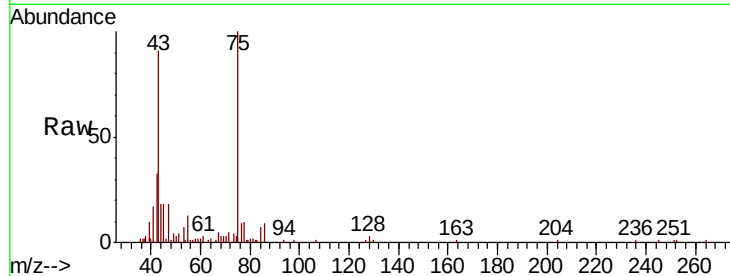
Ion Ratio Lower Upper

43 100

86 9.0 5.3 7.9#

42 37.8 8.7 13.1#

44 1.8 3.9 5.9#

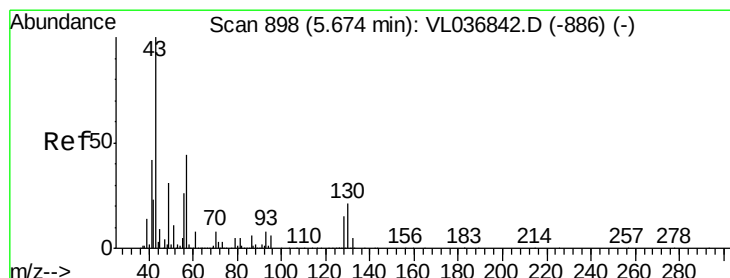
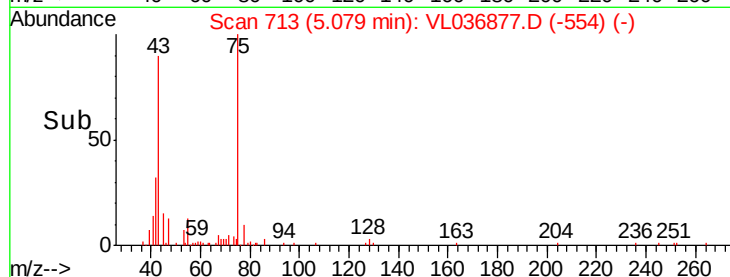
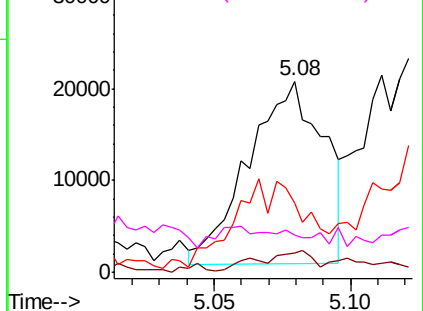


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.657 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.03 min

Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

Tgt Ion: 43 Resp: 888231

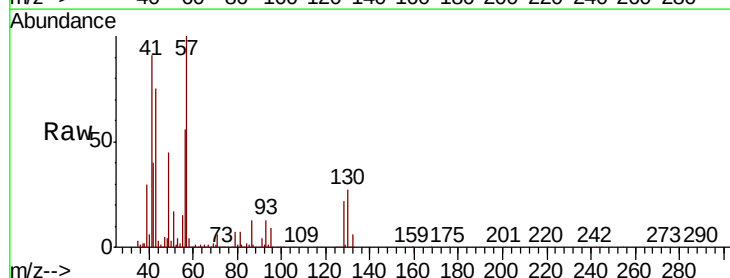
Ion Ratio Lower Upper

43 100

45 1.6 7.8 11.8#

61 1.6 7.4 11.0#

70 2.1 5.4 8.0#

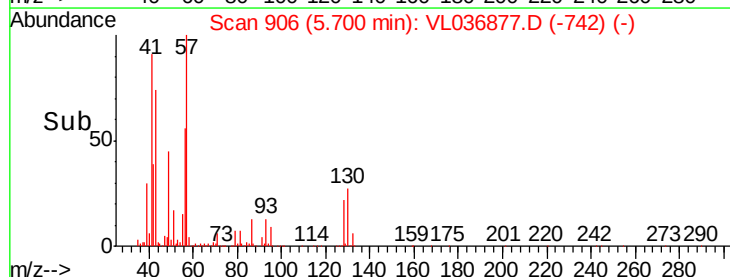
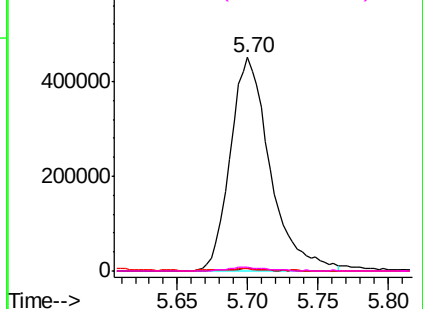


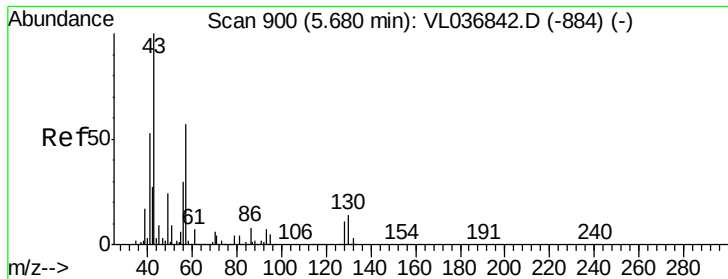
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 7.566 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

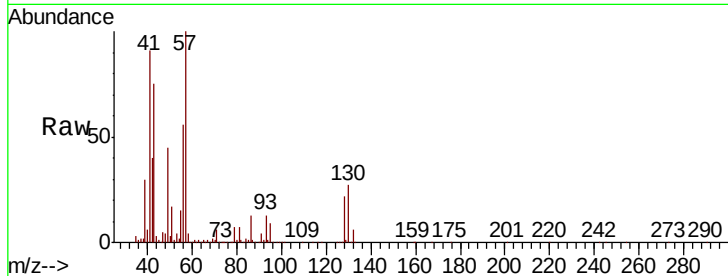
Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

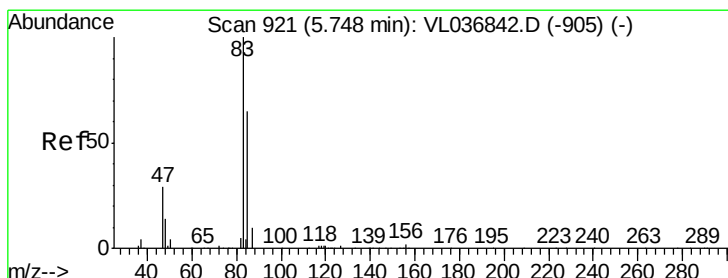
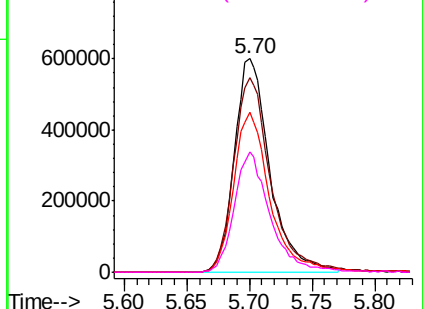
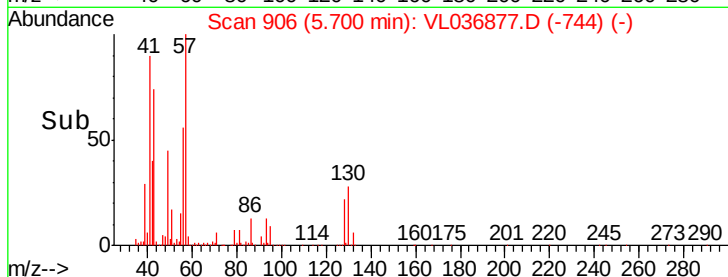
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 1183269

Ion	Ratio	Lower	Upper
57	100		
41	96.6	77.7	116.5
43	77.0	180.5	270.7#
56	57.2	44.6	66.8



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



#29

Chloroform

Concen: 0.145 ppbv

RT: 5.77 min Scan# 927

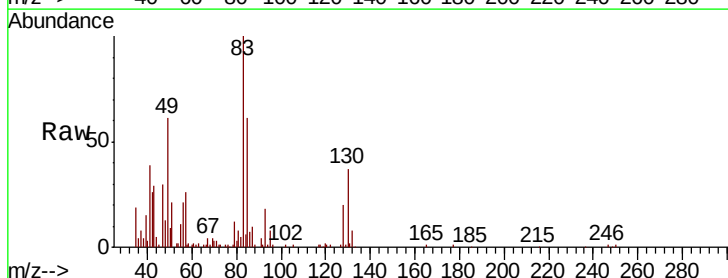
Delta R.T. 0.02 min

Lab File: VL036877.D

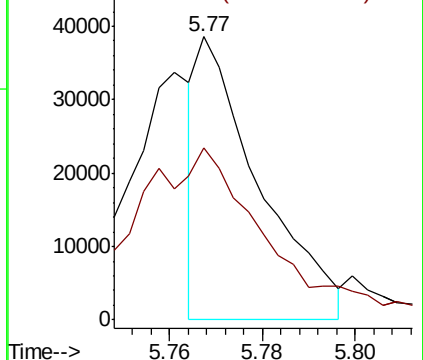
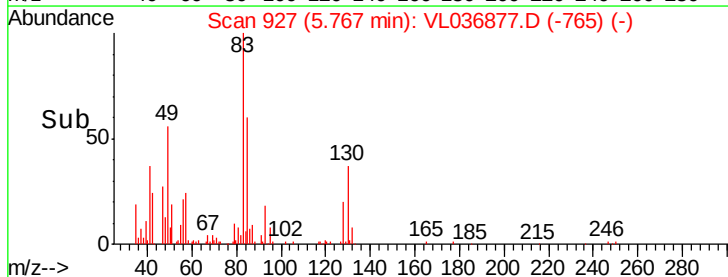
Acq: 28 Apr 2021 13:23

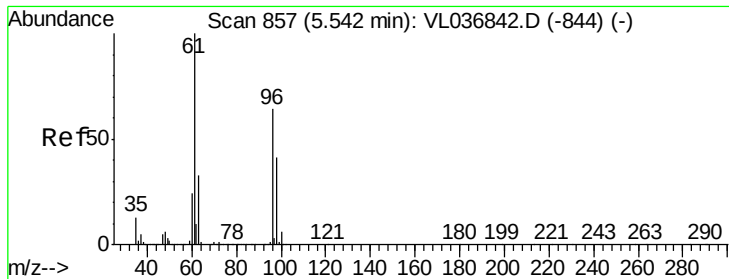
Tgt Ion: 83 Resp: 35462

Ion	Ratio	Lower	Upper
83	100		
85	55.2	52.2	78.4



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



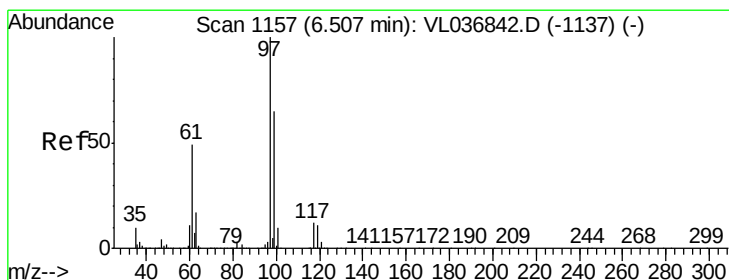
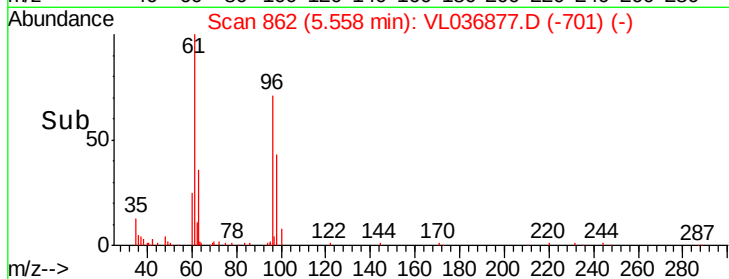
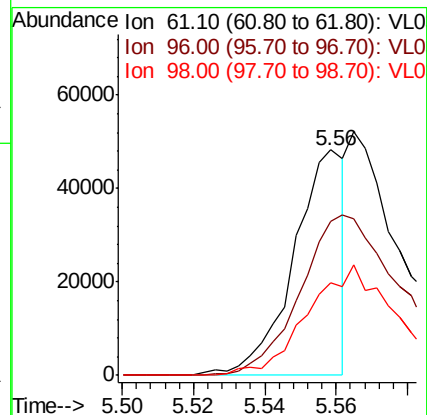
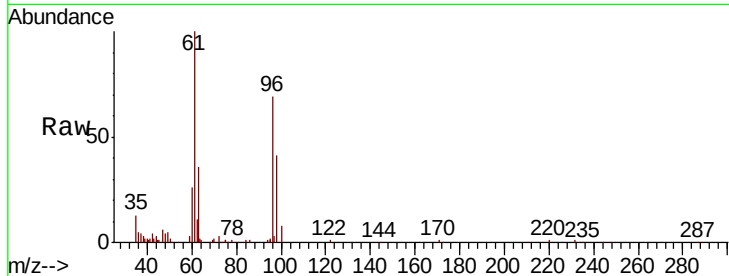


#31

cis-1,2-Dichloroethene
 Concen: 0.340 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. 0.02 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

Instrument :
 MSVOA_L
 ClientSampleId :

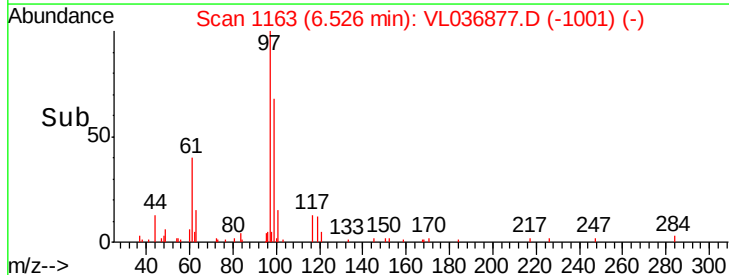
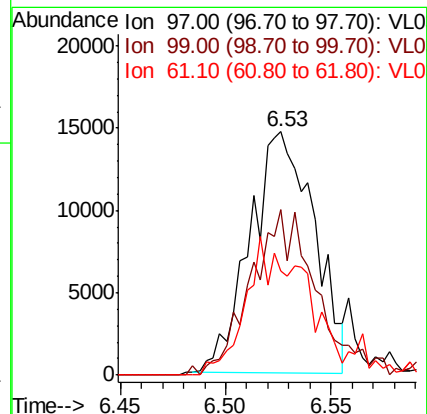
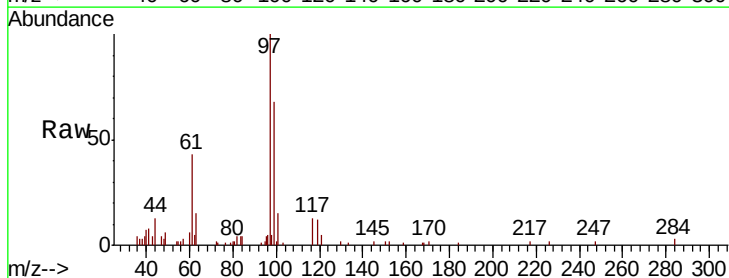
Tot Ion	Ratio	Lower	Upper
61	100		
96	68.5	51.0	76.6
98	41.3	32.7	49.1

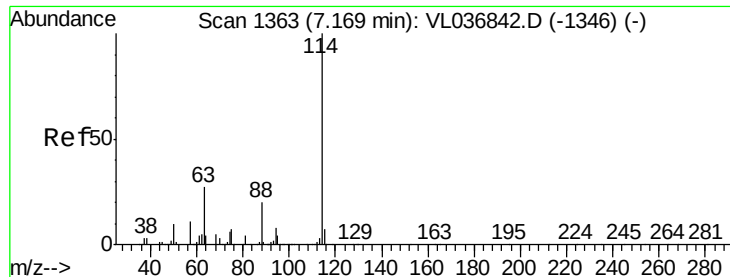


#32

1,1,1-Trichloroethane
 Concen: 0.125 ppbv
 RT: 6.53 min Scan# 1163
 Delta R.T. 0.02 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	71.2	51.8	77.6
61	58.5	40.8	61.2

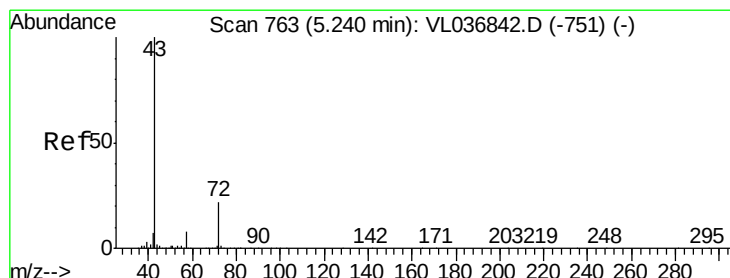
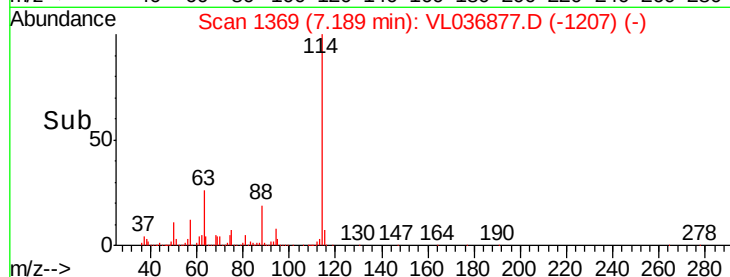
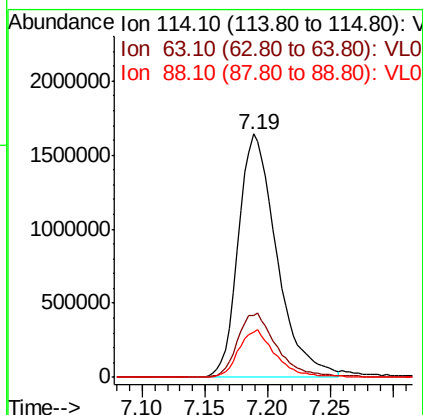
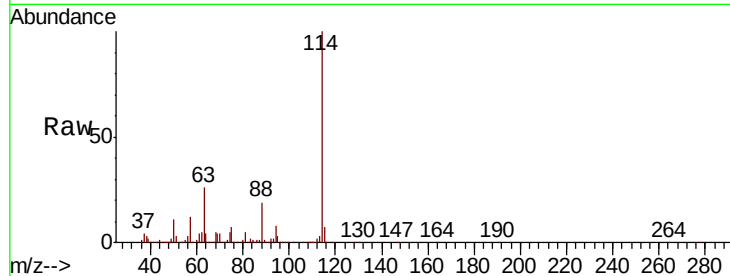




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.02 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

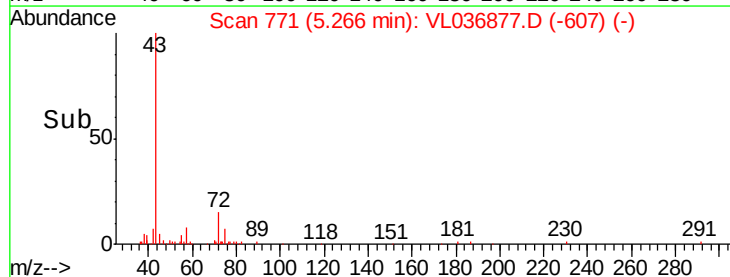
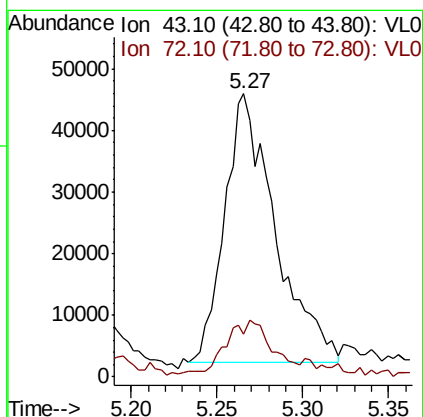
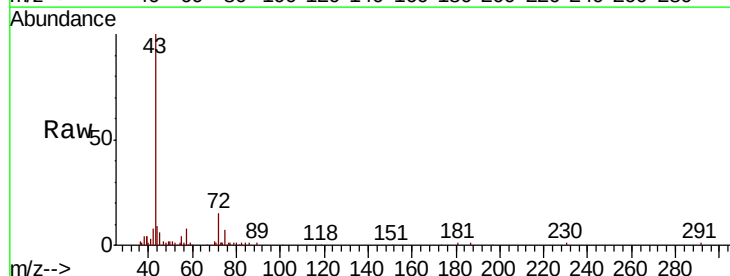
Instrument :
 MSVOA_L
 ClientSampleId :

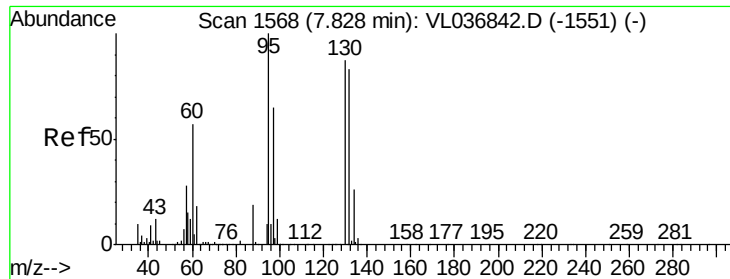
Tot Ion:114 Resp: 3501293
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.9 32.9
 88 19.2 15.1 22.7



#34
 2-Butanone
 Concen: 0.581 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.03 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

Tgt Ion: 43 Resp: 89081
 Ion Ratio Lower Upper
 43 100
 72 24.9 17.6 26.4

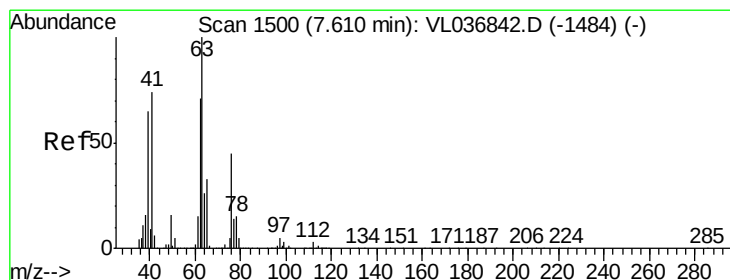
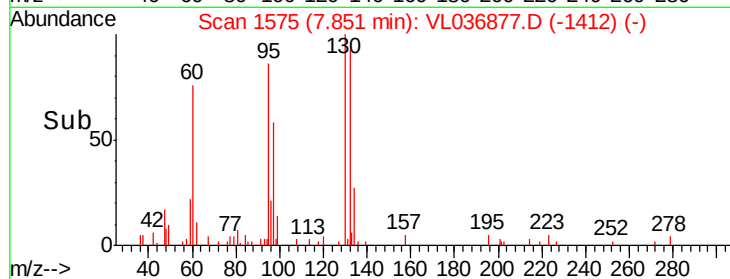
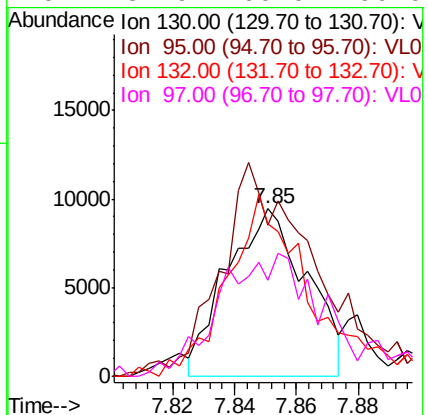
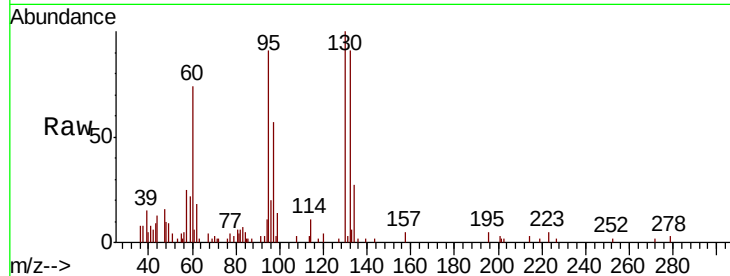




#38
 Trichloroethene
 Concen: 0.161 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.02 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

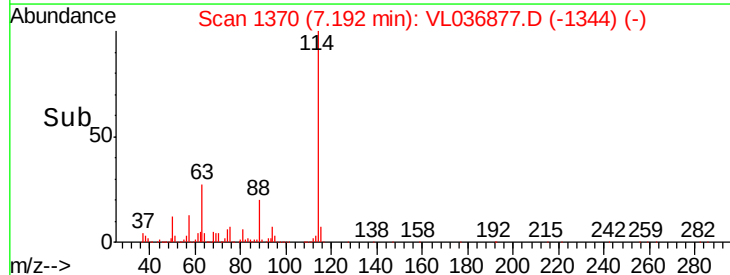
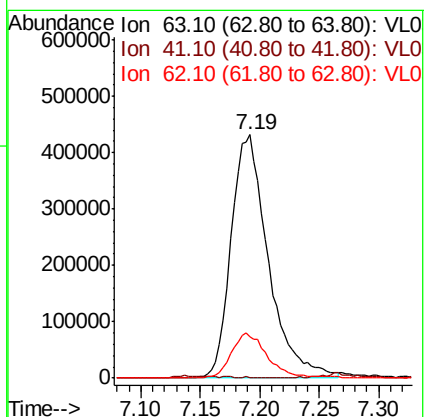
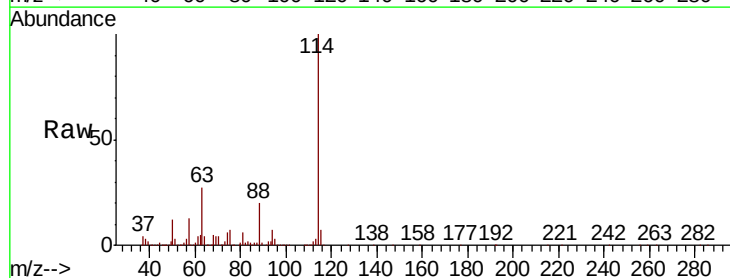
Instrument :
 MSVOA_L
 ClientSampleId :

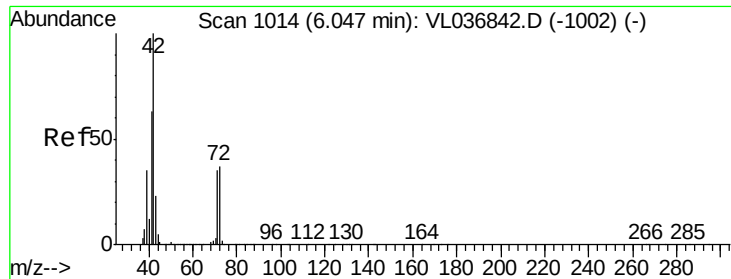
Tot Ion	Ratio	Lower	Upper
130	100		
95	86.3	92.3	138.5#
132	84.0	76.8	115.2
97	37.9	60.0	90.0#



#39
 1,2-Dichloropropane
 Concen: 7.922 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.42 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.1	88.7#
62	17.2	56.9	85.3#

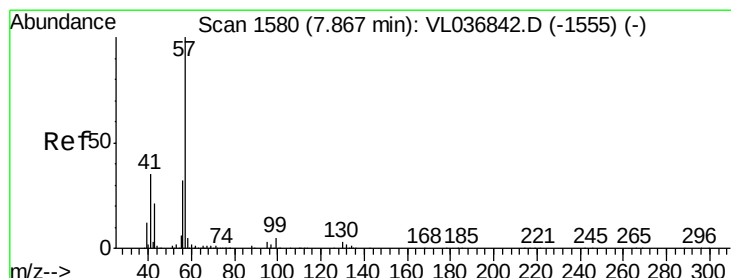
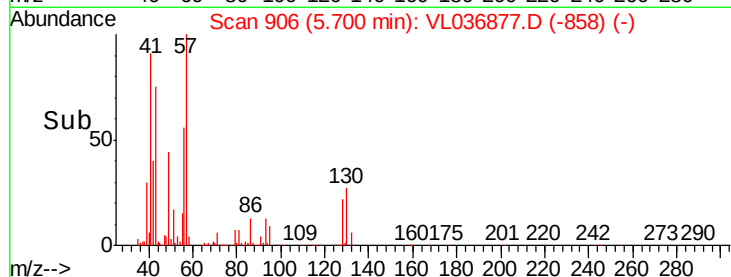
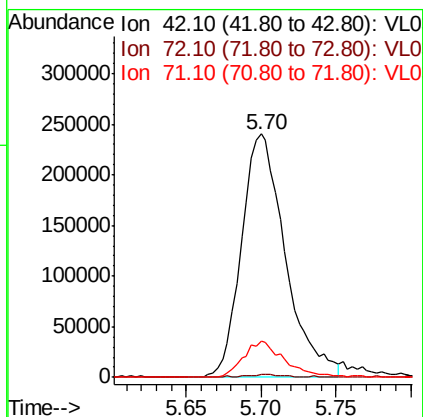
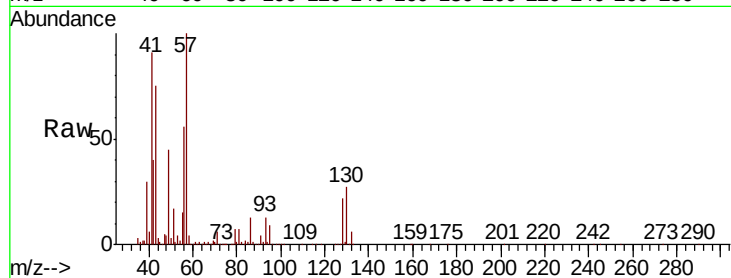




#41
 Tetrahydrofuran
 Concen: 7.291 ppbv
 RT: 5.70 min Scan# 906
 Delta R.T. -0.35 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

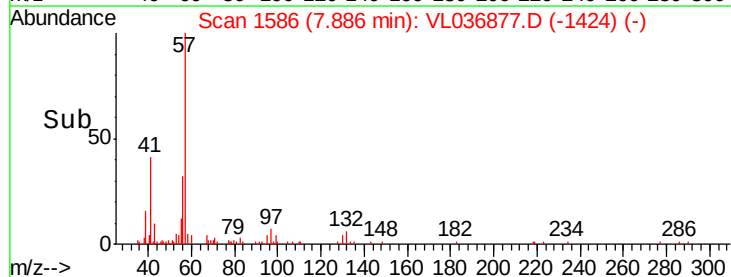
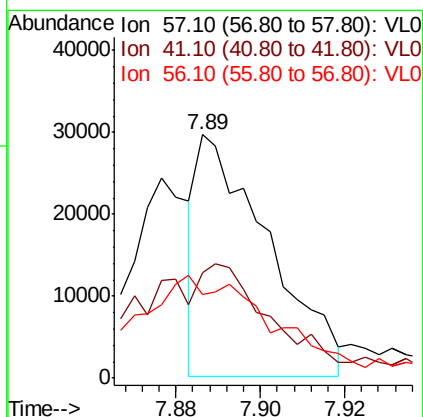
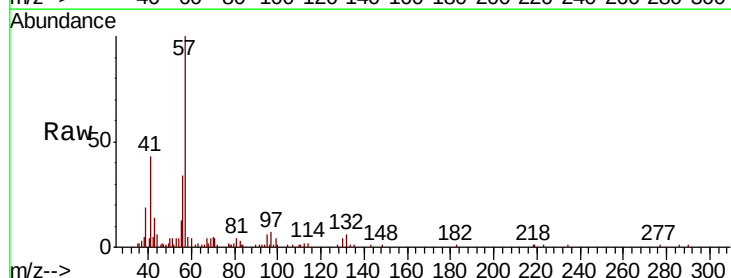
Instrument :
 MSVOA_L
 ClientSampleId :

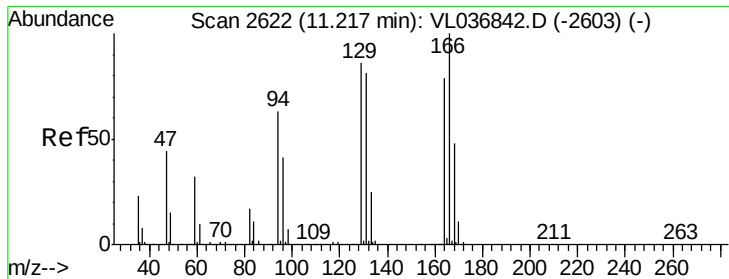
Tot Ion	Ratio	Lower	Upper
42	100		
72	1.4	29.7	44.5#
71	14.3	29.0	43.6#



#44
 2,2,4-Trimethylpentane
 Concen: 0.068 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. 0.02 min
 Lab File: VL036877.D
 Acq: 28 Apr 2021 13:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	107.8	28.2	42.4#
56	89.5	25.9	38.9#





#52

Tetrachloroethene

Concen: 0.714 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.02 min

Lab File: VL036877.D

Acq: 28 Apr 2021 13:23

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 71720

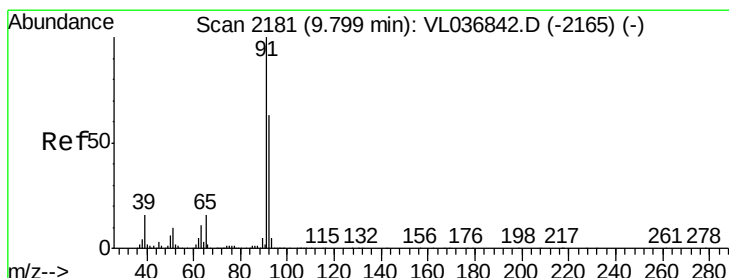
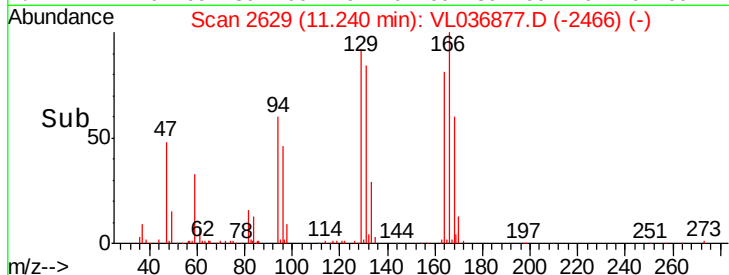
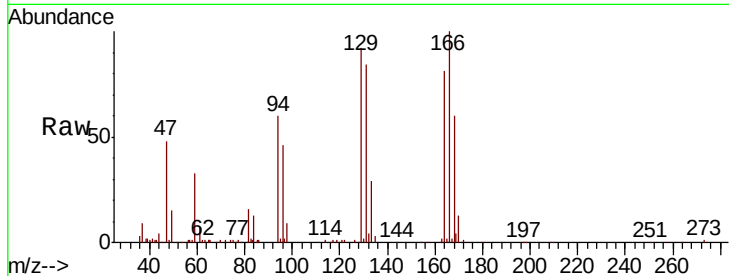
Ion Ratio Lower Upper

164 100

166 121.3 100.9 151.3

129 113.4 87.0 130.4

131 103.0 81.7 122.5



#53

Toluene

Concen: 0.624 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.03 min

Lab File: VL036877.D

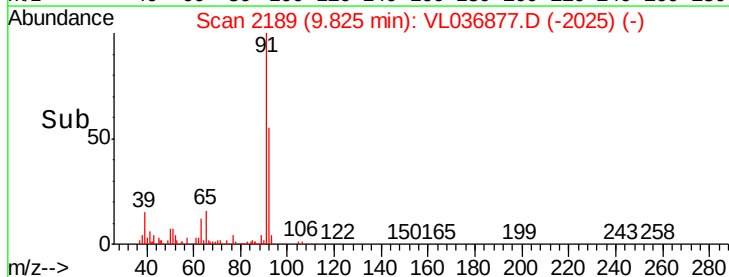
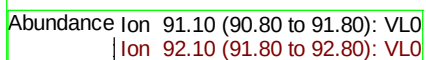
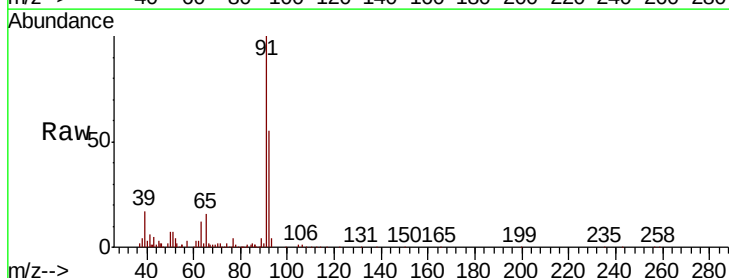
Acq: 28 Apr 2021 13:23

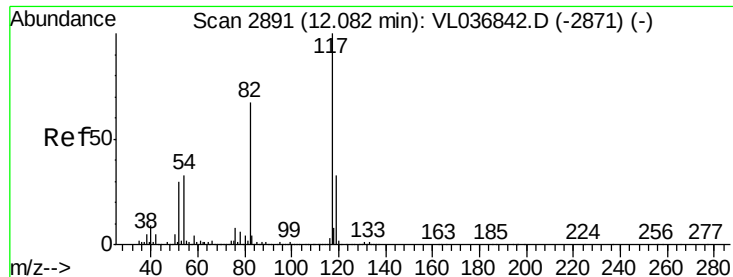
Tgt Ion: 91 Resp: 192638

Ion Ratio Lower Upper

91 100

92 62.5 49.0 73.4

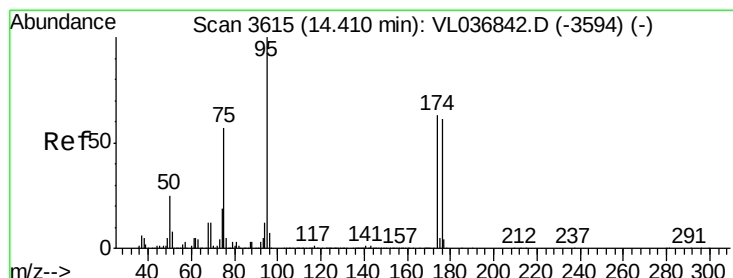
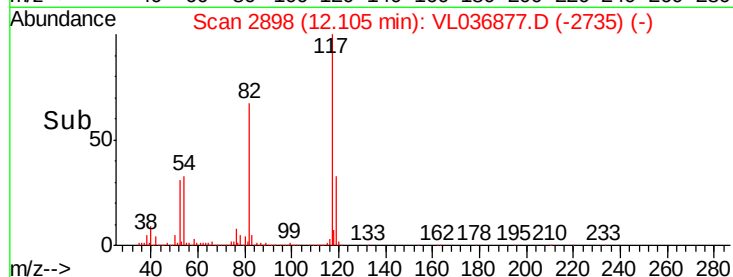
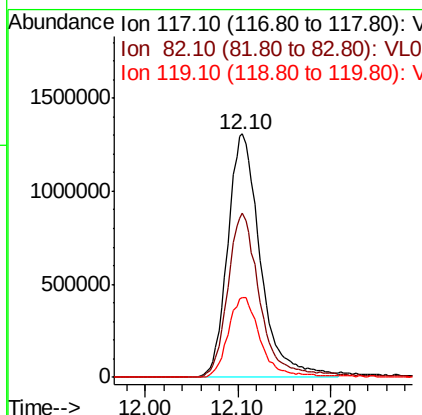
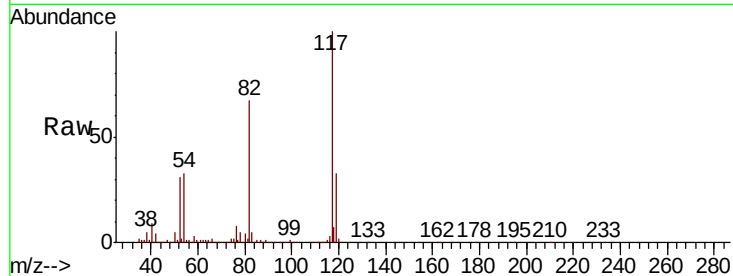




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. 0.02 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3207248
Ion Ratio Lower Upper
117 100
82 67.6 53.5 80.3
119 33.1 25.6 38.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.343 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.02 min
Lab File: VL036877.D
Acq: 28 Apr 2021 13:23

Tgt Ion: 95 Resp: 2405384
Ion Ratio Lower Upper
95 100
174 68.6 52.2 78.2
175 4.8 4.0 6.0

