

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037306.D
 Acq On : 31 Jul 2021 6:37
 Operator : SY/AP
 Sample : M3121-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 07:57:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1122385	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3421796	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	3016172	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2064680	9.41	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

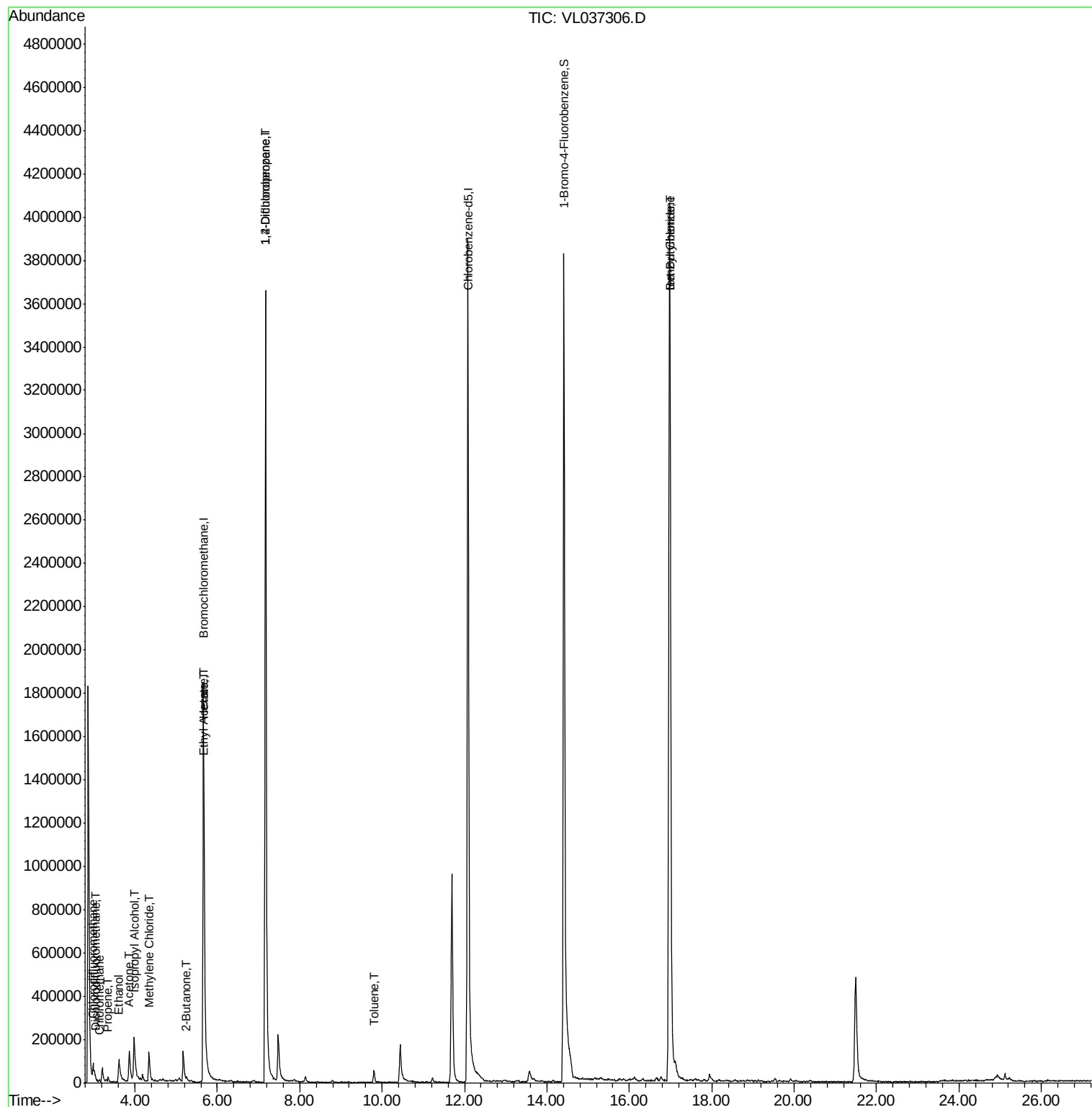
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	12829	0.079	ppbv #	61
3) Chlorodifluoromethane	2.99	51	106276	0.473	ppbv	99
4) Chloromethane	3.14	50	3751	0.048	ppbv	96
9) Propene	3.35	41	4969	0.066	ppbv	97
13) Ethanol	3.61	45	115927	6.972	ppbv	70
15) Acetone	3.86	43	189831	0.939	ppbv #	77
19) Isopropyl Alcohol	3.98	45	293935	3.758	ppbv #	89
20) Methylene Chloride	4.34	84	53613	0.685	ppbv #	82
25) Ethyl Acetate	5.69	43	18884	0.064	ppbv #	89
26) Hexane	5.68	57	21368	0.136	ppbv #	52
34) 2-Butanone	5.26	43	11997	0.082	ppbv #	16
39) 1,2-Dichloropropane	7.17	63	760360	6.979	ppbv #	26
53) Toluene	9.80	91	30700	0.090	ppbv #	21
65) tert-Butylbenzene	16.98	119	86796	0.195	ppbv #	27
66) Benzyl Chloride	16.98	91	755	0.034	ppbv #	61

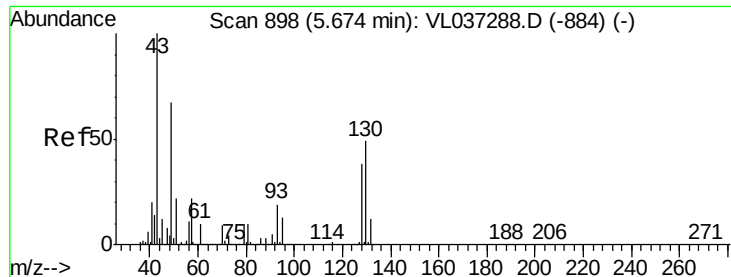
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jul 31 07:57:26 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
QLast Update : Fri Jul 30 23:19:30 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037306.D

Acq: 31 Jul 2021 6:37

Instrument :

MSVOA_L

ClientSampled :

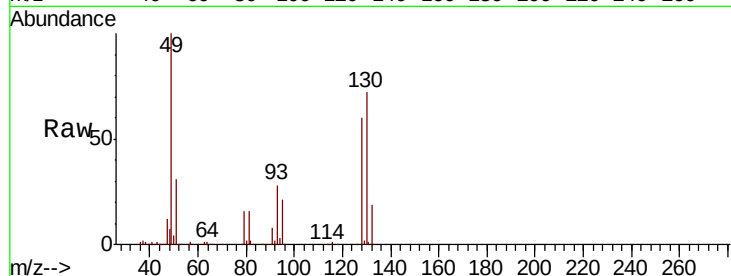
Tot Ion: 49 Resp: 1122385

Ion Ratio Lower Upper

49 100

128 58.7 30.6 92.0

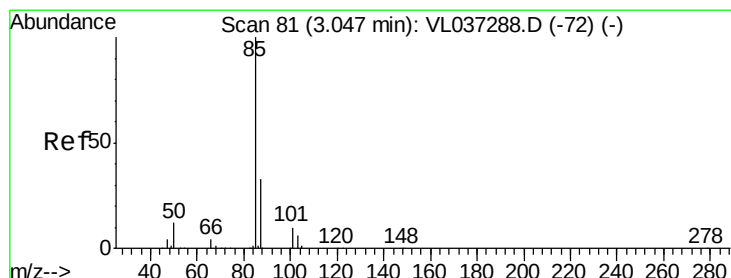
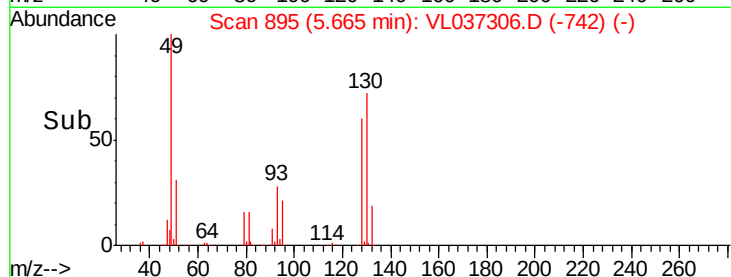
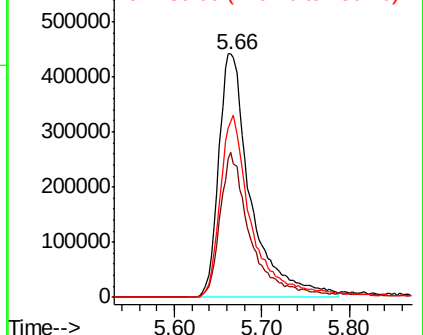
130 74.5 37.8 113.4



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: 0.079 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL037306.D

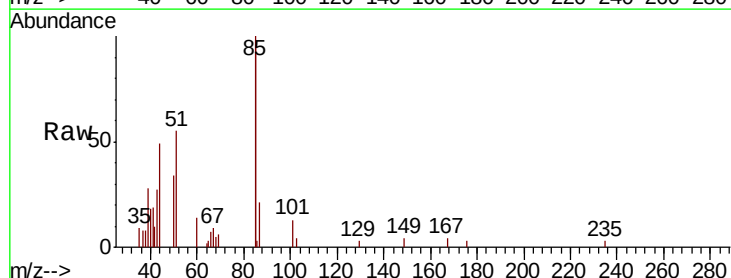
Acq: 31 Jul 2021 6:37

Tgt Ion: 85 Resp: 12829

Ion Ratio Lower Upper

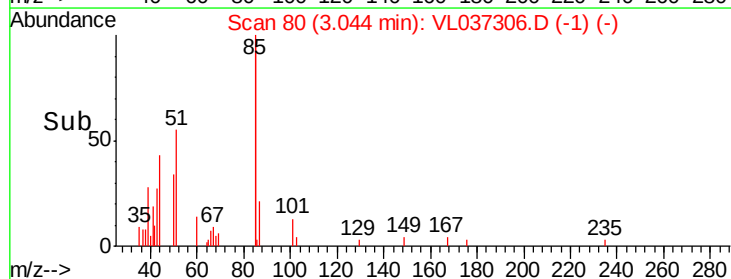
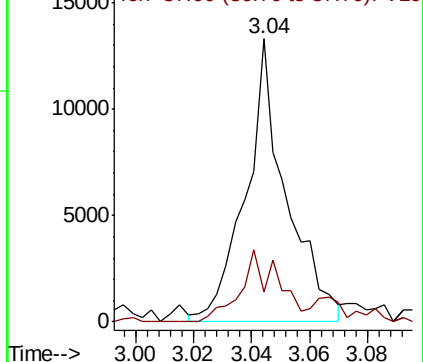
85 100

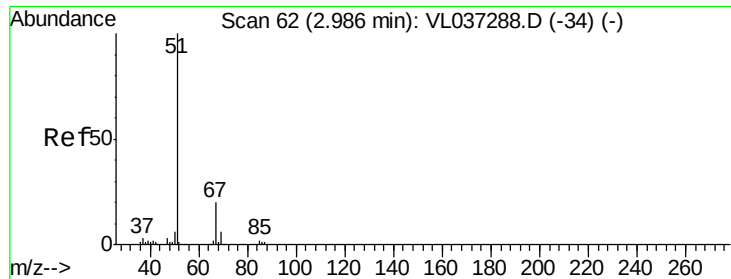
87 10.9 26.6 40.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

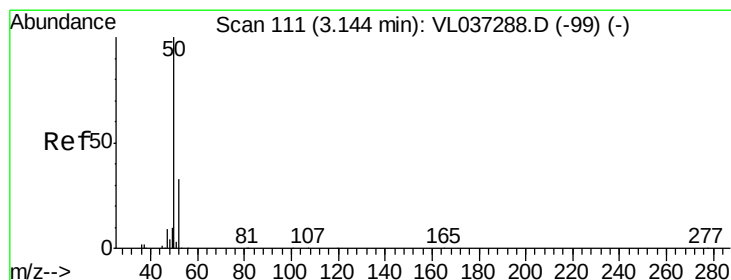
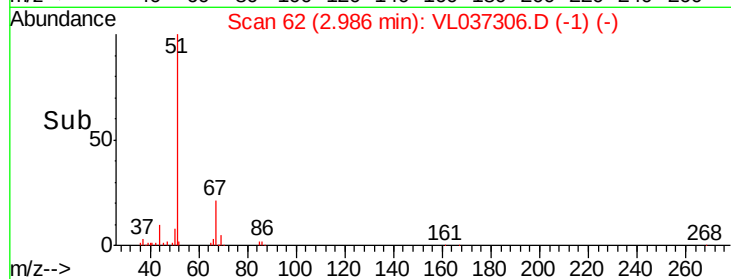
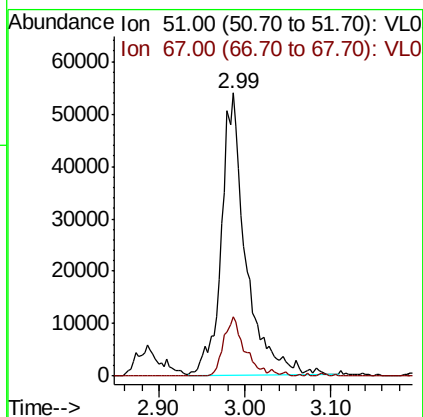
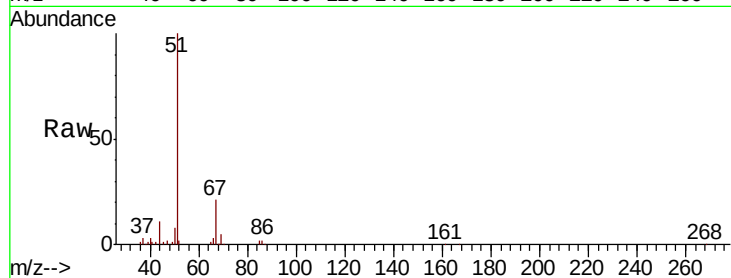




#3
Chlorodifluoromethane
Concen: 0.473 ppbv
RT: 2.99 min Scan# 62
Delta R.T. 0.00 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

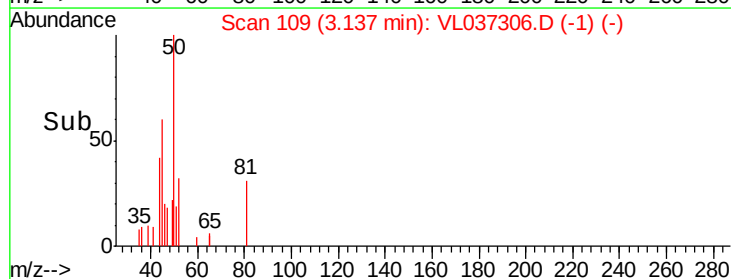
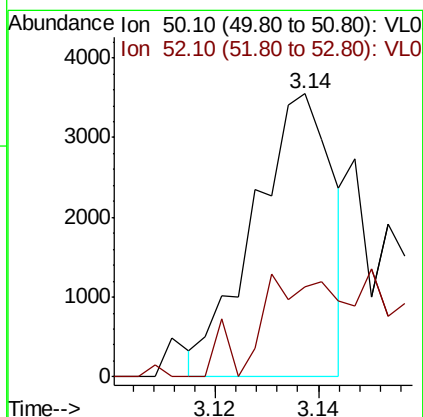
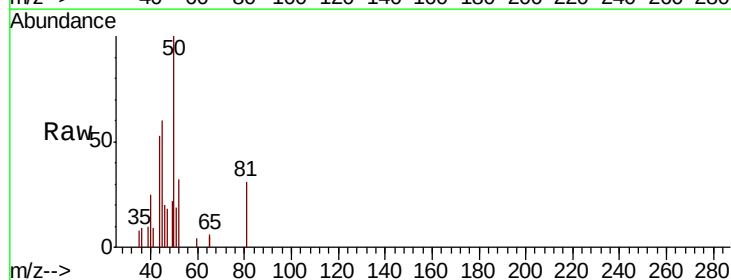
Instrument :
MSVOA_L
ClientSampleId :

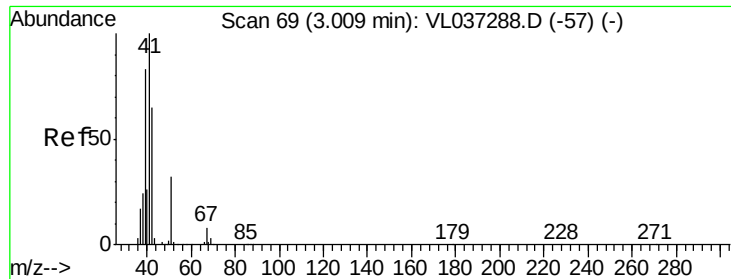
Tot Ion: 51 Resp: 106276
Ion Ratio Lower Upper
51 100
67 18.7 15.2 22.8



#4
Chloromethane
Concen: 0.048 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.01 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

Tgt Ion: 50 Resp: 3751
Ion Ratio Lower Upper
50 100
52 35.1 26.2 39.4

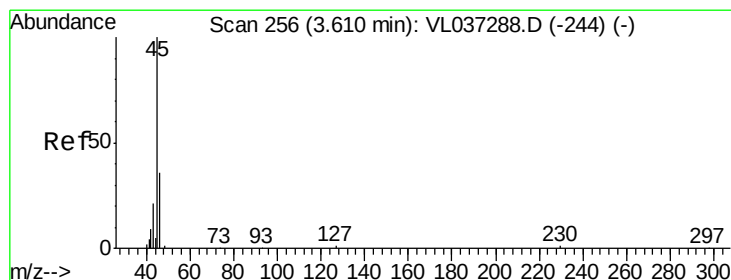
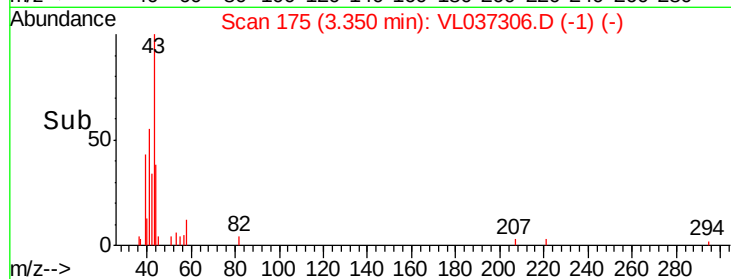
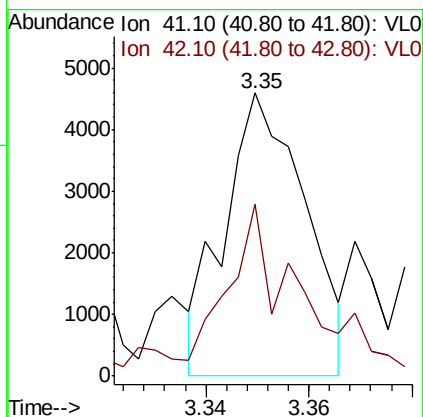
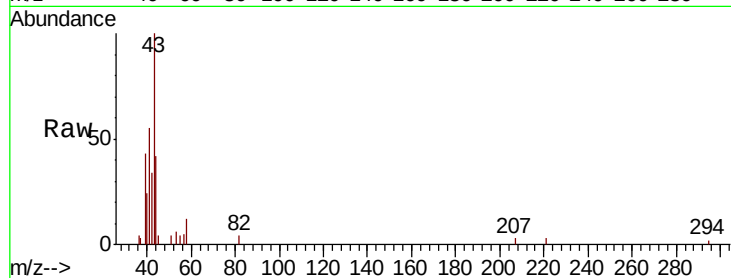




#9
 Propene
 Concen: 0.066 ppbv
 RT: 3.35 min Scan# 175
 Delta R.T. 0.34 min
 Lab File: VL037306.D
 Acq: 31 Jul 2021 6:37

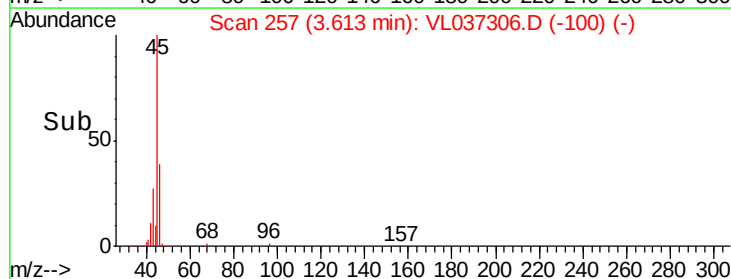
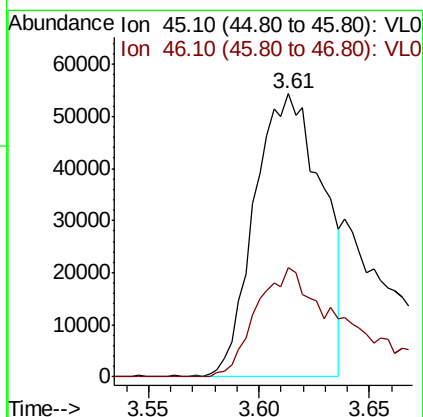
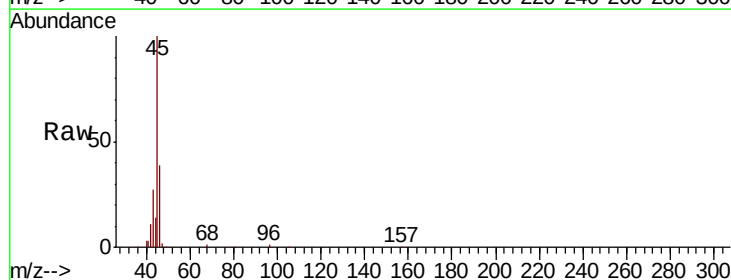
Instrument :
 MSVOA_L
 ClientSampled :

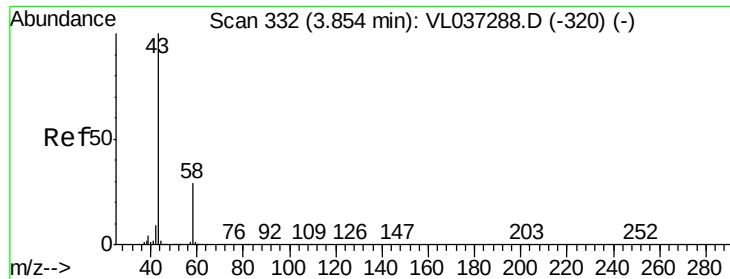
Tot Ion: 41 Resp: 4969
 Ion Ratio Lower Upper
 41 100
 42 64.9 54.0 81.0



#13
 Ethanol
 Concen: 6.972 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.00 min
 Lab File: VL037306.D
 Acq: 31 Jul 2021 6:37

Tgt Ion: 45 Resp: 115927
 Ion Ratio Lower Upper
 45 100
 46 59.3 16.2 64.8

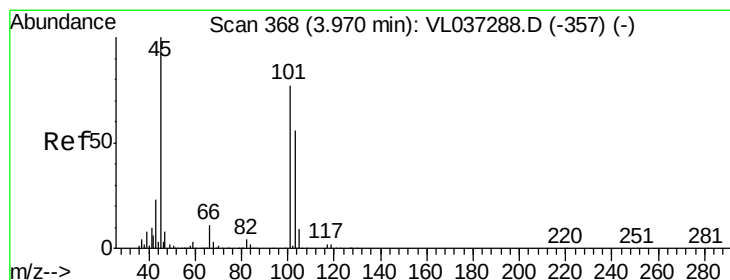
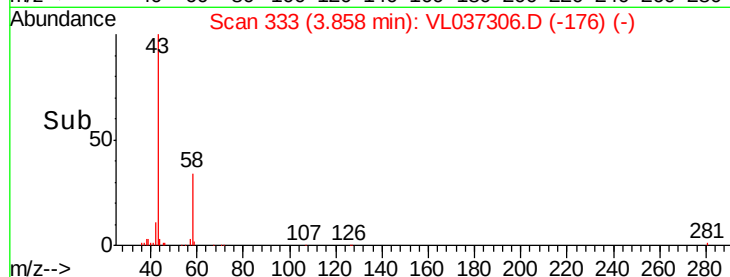
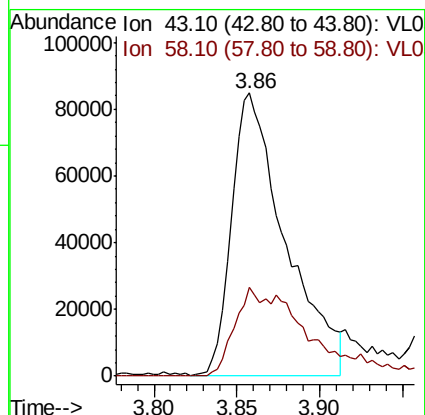
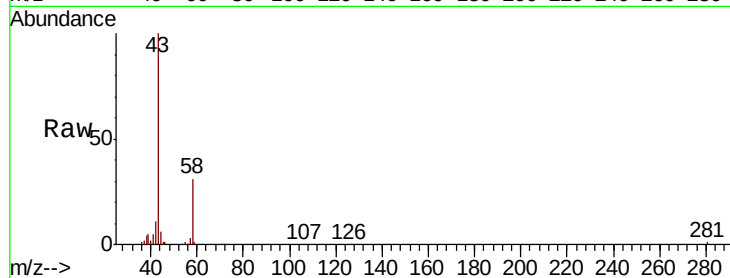




#15
Acetone
Concen: 0.939 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

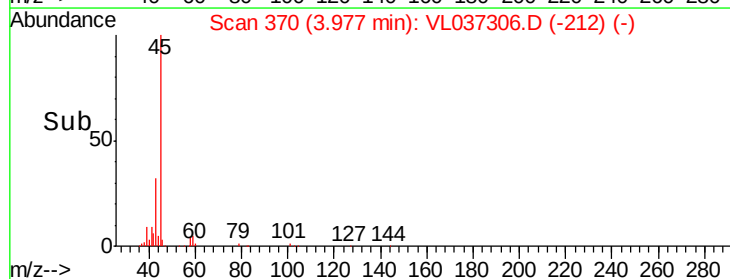
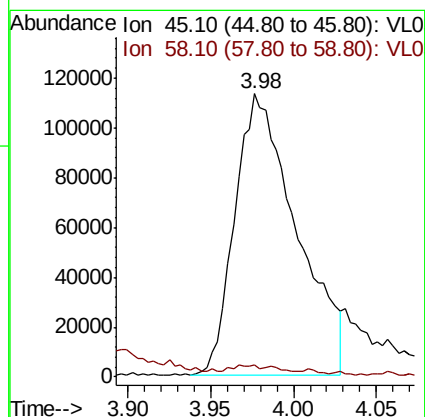
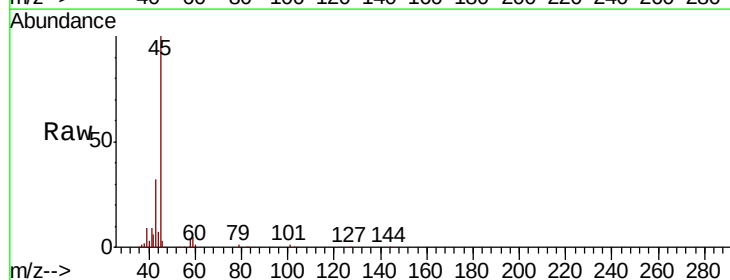
Instrument :
MSVOA_L
ClientSampleId :

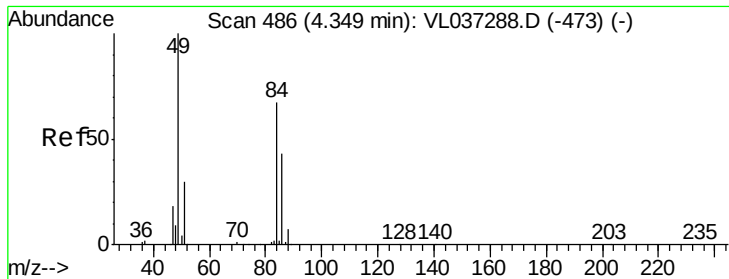
Tot Ion: 43 Resp: 189831
Ion Ratio Lower Upper
43 100
58 42.6 24.2 36.4#



#19
Isopropyl Alcohol
Concen: 3.758 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

Tgt Ion: 45 Resp: 293935
Ion Ratio Lower Upper
45 100
58 6.4 2.2 3.2#

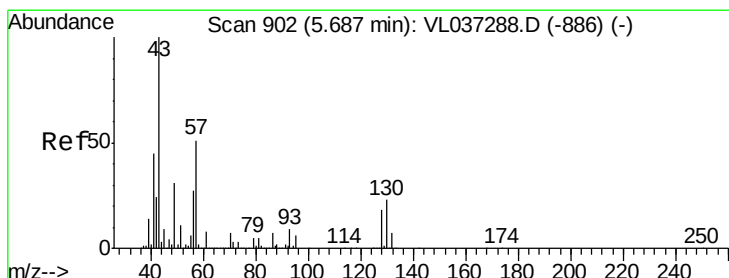
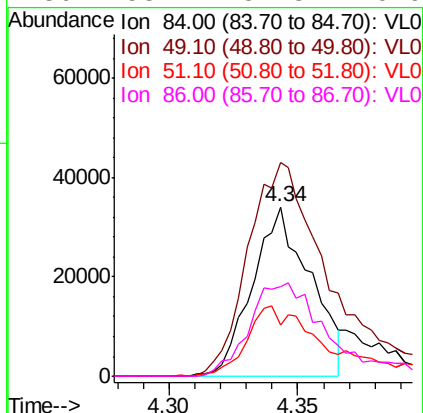
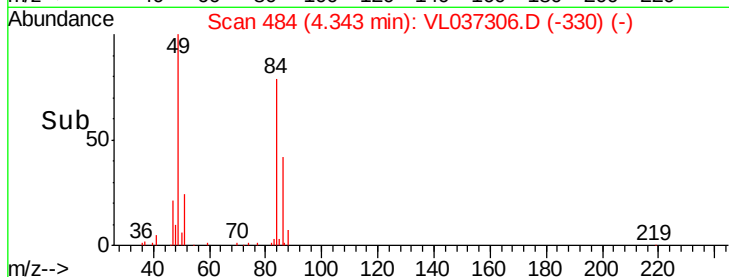
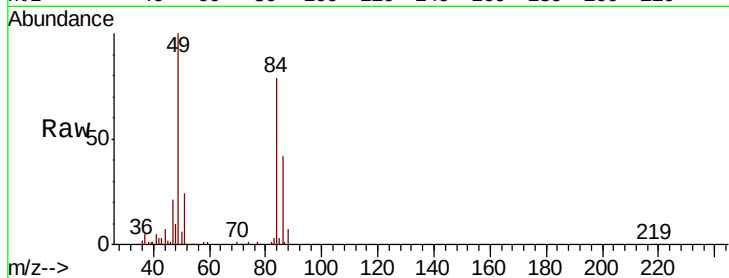




#20
Methylene Chloride
Concen: 0.685 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

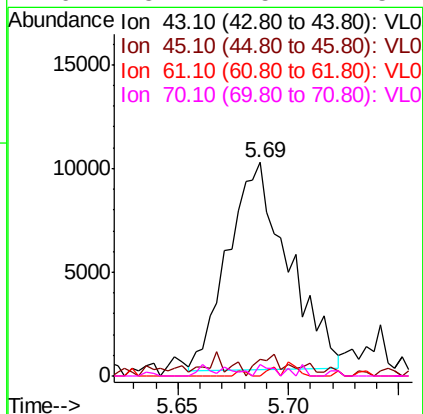
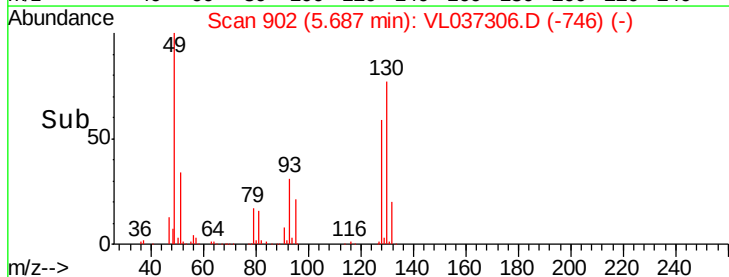
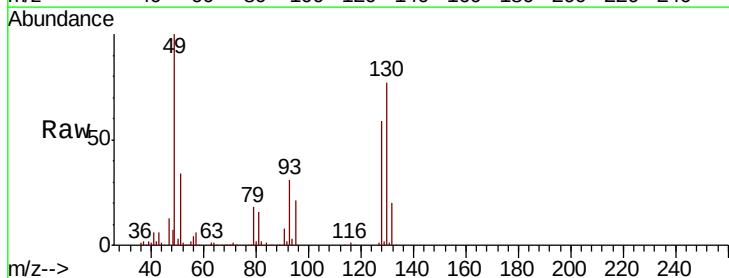
Instrument :
MSVOA_L
ClientSampleId :

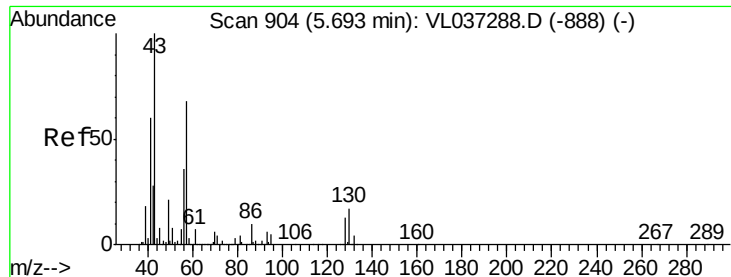
Tot Ion:	84	Resp:	53613
Ion	Ratio	Lower	Upper
84	100		
49	126.3	120.2	180.4
51	30.4	36.5	54.7#
86	53.1	51.3	76.9



#25
Ethyl Acetate
Concen: 0.064 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

Tgt Ion:	43	Resp:	18884
Ion	Ratio	Lower	Upper
43	100		
45	7.1	7.4	11.2#
61	2.4	7.8	11.6#
70	5.1	5.4	8.2#

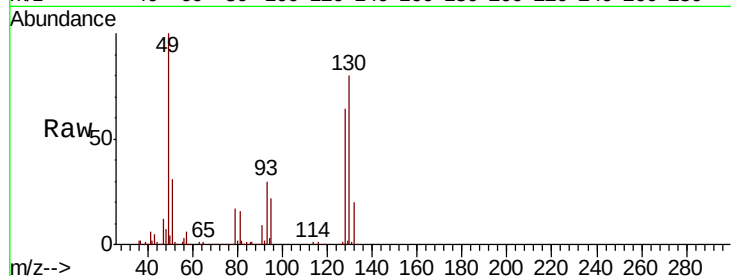




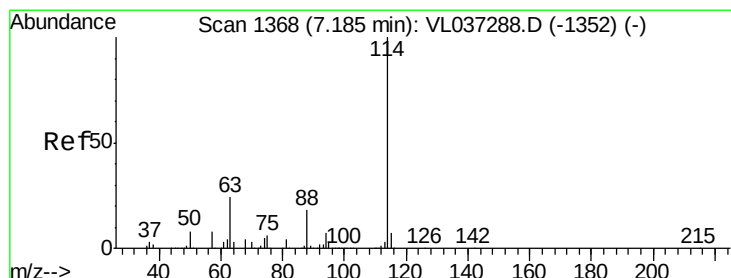
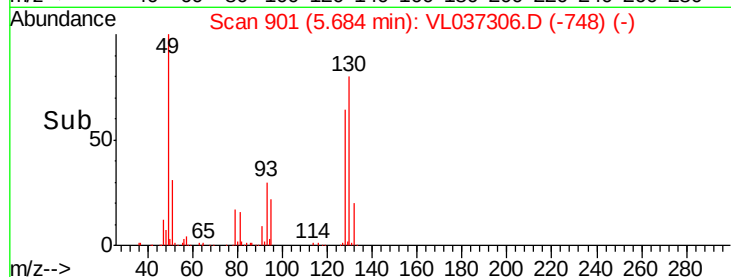
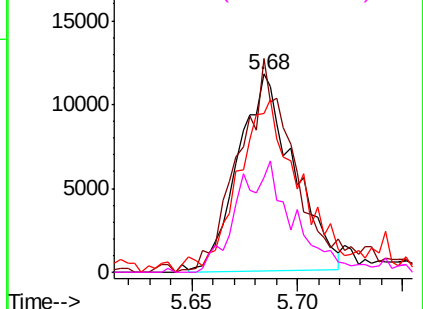
#26
Hexane
Concen: 0.136 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 21368
Ion Ratio Lower Upper
57 100
41 120.2 71.0 106.6#
43 98.5 155.0 232.4#
56 59.6 42.0 63.0

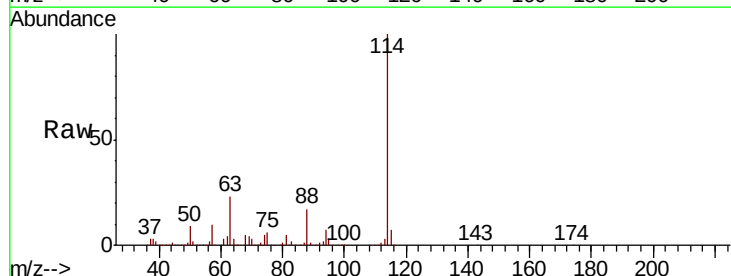


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

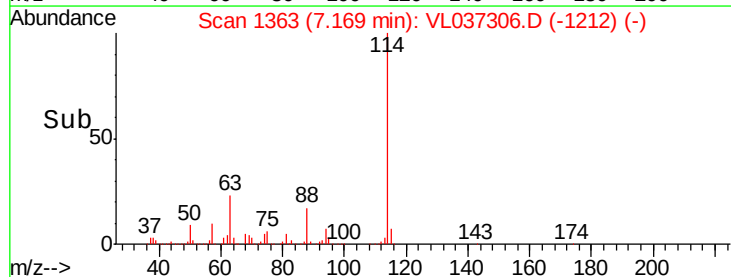
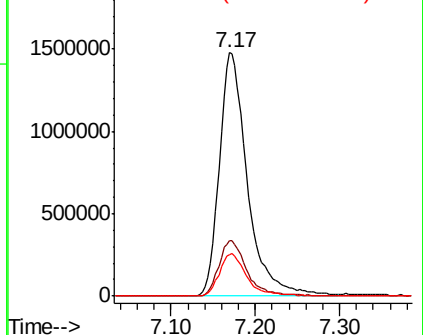


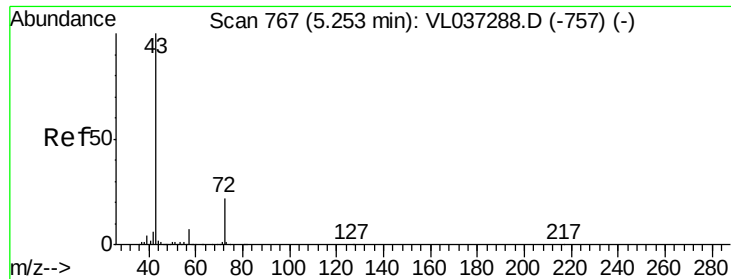
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

Tgt Ion: 114 Resp: 3421796
Ion Ratio Lower Upper
114 100
63 23.1 19.0 28.4
88 17.4 14.0 21.0



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





#34

2-Butanone

Concen: 0.082 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.00 min

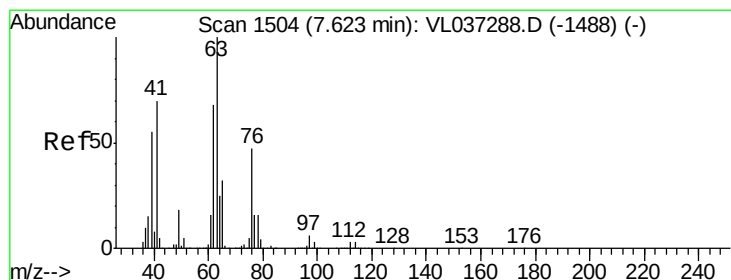
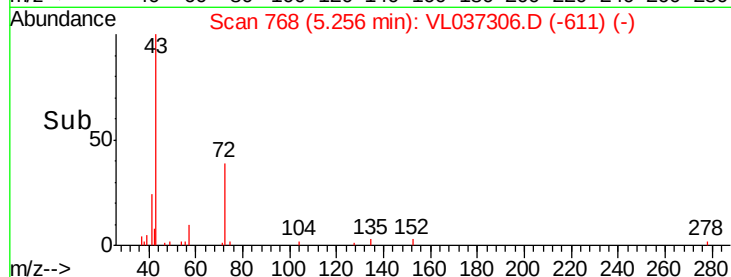
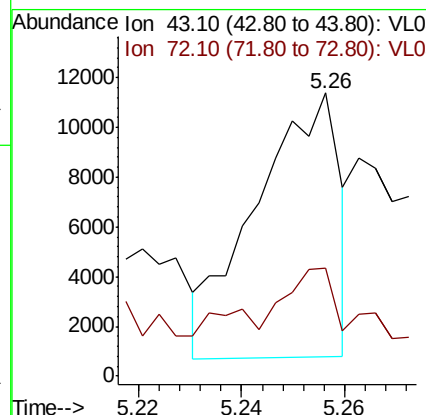
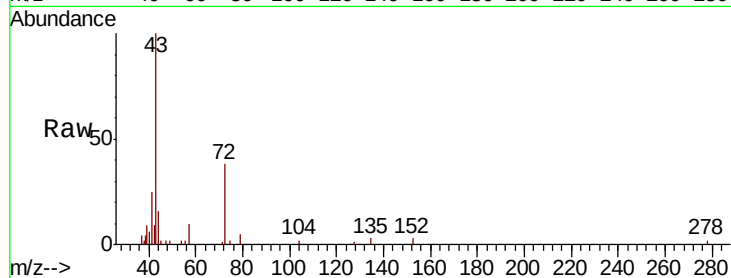
Lab File: VL037306.D

Acq: 31 Jul 2021 6:37

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 11997

Ion	Ratio	Lower	Upper
43	100		
72	63.9	18.5	27.7#



#39

1,2-Dichloropropane

Concen: 6.979 ppbv

RT: 7.17 min Scan# 1364

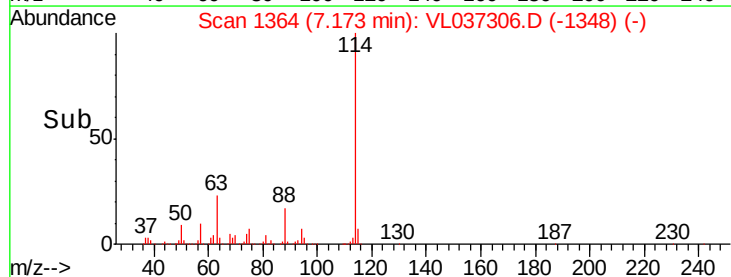
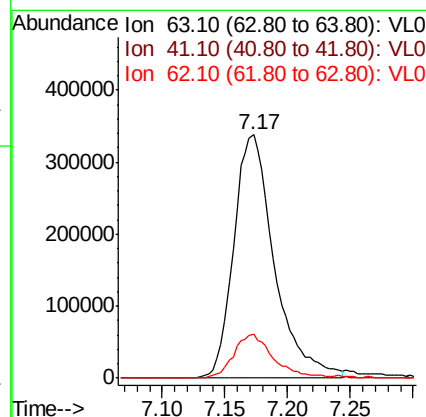
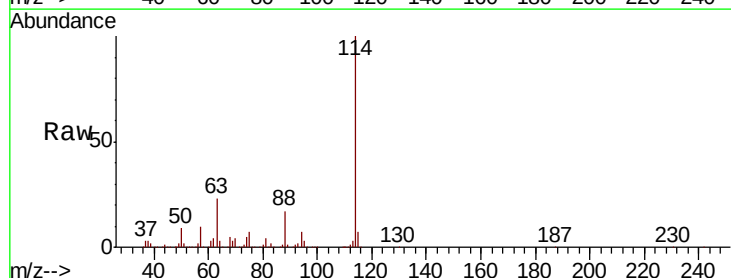
Delta R.T. -0.45 min

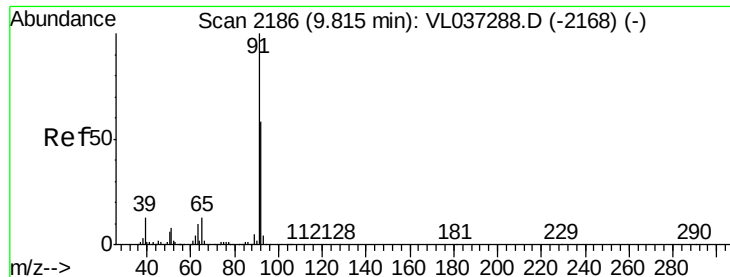
Lab File: VL037306.D

Acq: 31 Jul 2021 6:37

Tgt Ion: 63 Resp: 760360

Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	17.8	54.6	82.0#





#53

Toluene

Concen: 0.090 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.02 min

Lab File: VL037306.D

Acq: 31 Jul 2021 6:37

Instrument :

MSVOA_L

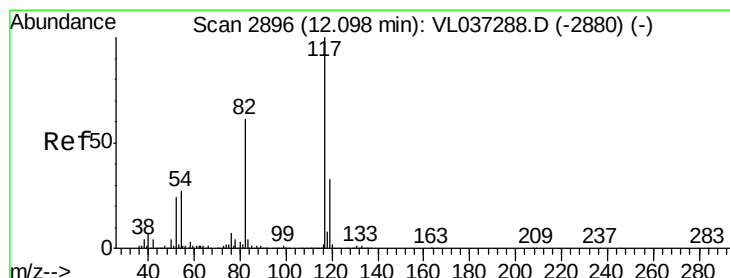
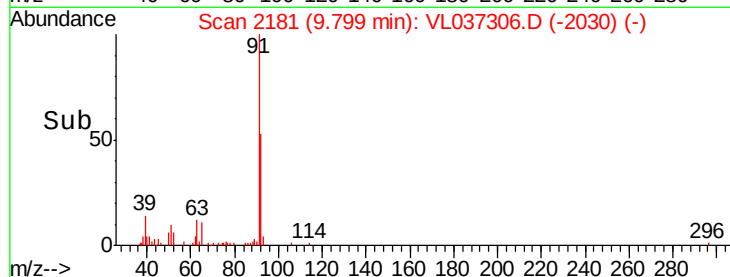
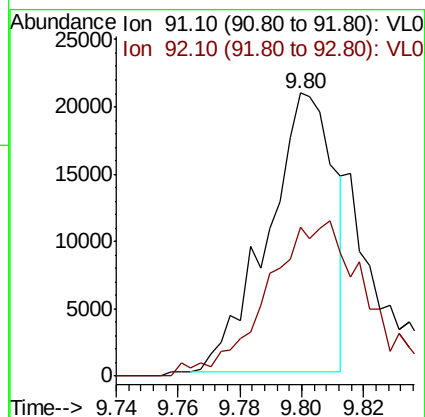
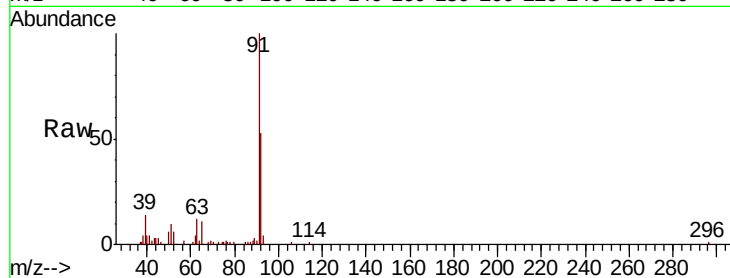
ClientSampleId :

Tot Ion: 91 Resp: 30700

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.02 min

Lab File: VL037306.D

Acq: 31 Jul 2021 6:37

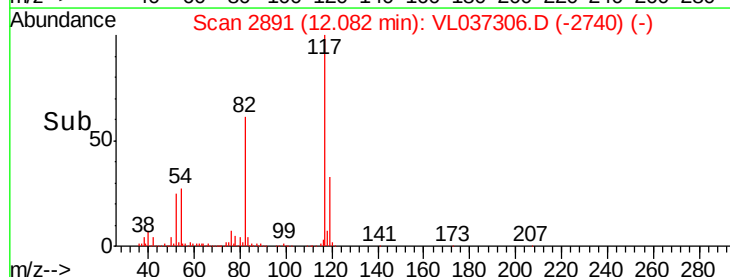
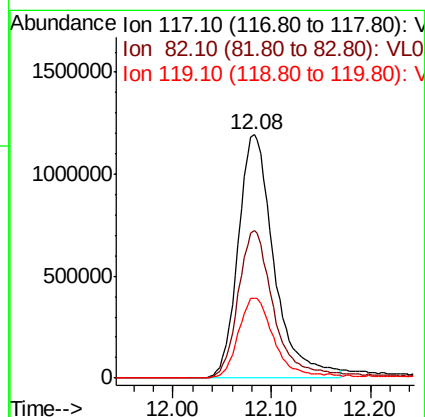
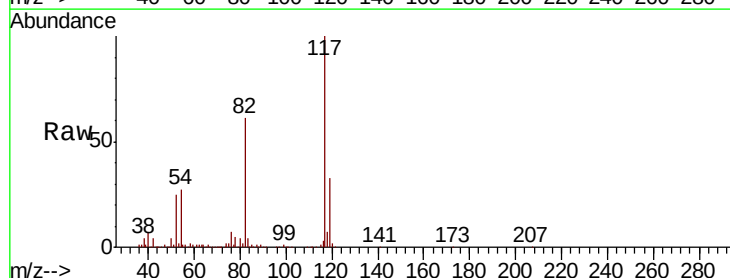
Tgt Ion: 117 Resp: 3016172

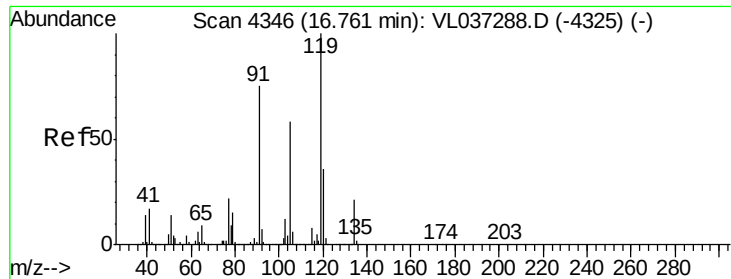
Ion Ratio Lower Upper

117 100

82 63.6 47.2 70.8

119 34.5 45.8 68.8#

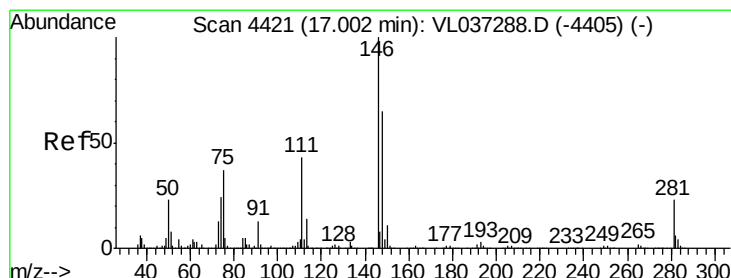
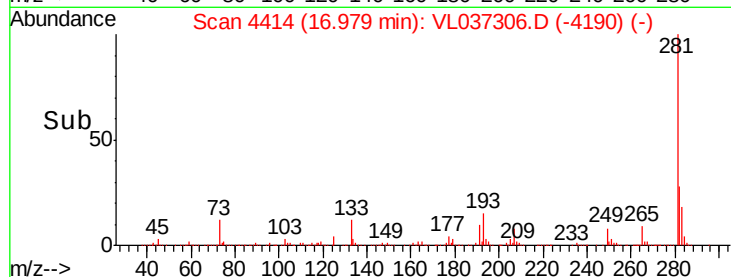
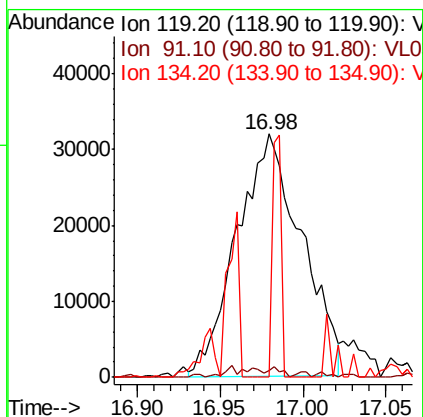
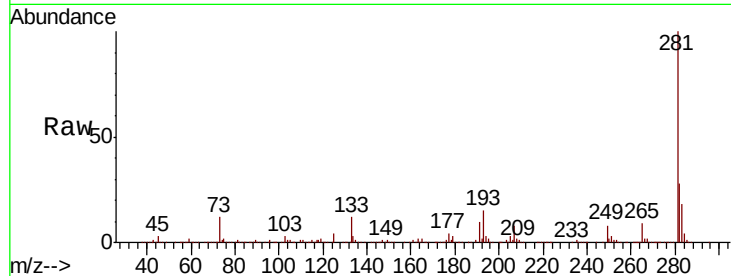




#65
tert-Butylbenzene
Concen: 0.195 ppbv
RT: 16.98 min Scan# 4414
Delta R.T. 0.22 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

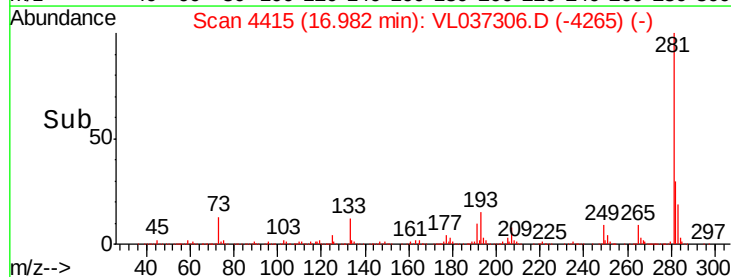
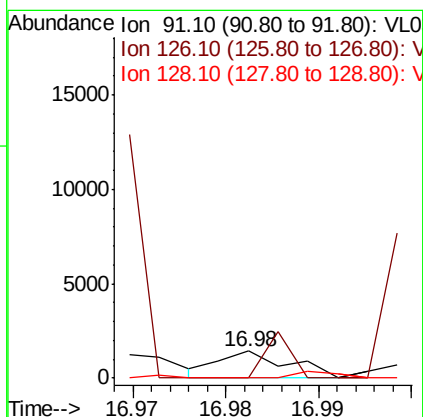
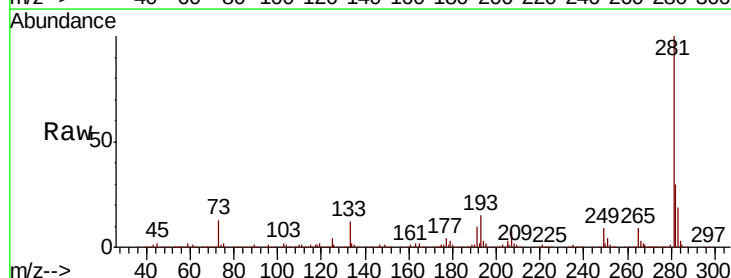
Instrument :
MSVOA_L
ClientSampleId :

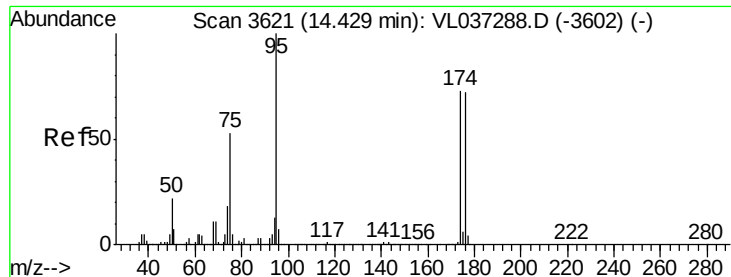
Tot Ion:119 Resp: 86796
Ion Ratio Lower Upper
119 100
91 0.0 60.5 90.7#
134 14.0 16.2 24.4#



#66
Benzyl Chloride
Concen: 0.034 ppbv
RT: 16.98 min Scan# 4415
Delta R.T. -0.02 min
Lab File: VL037306.D
Acq: 31 Jul 2021 6:37

Tgt Ion: 91 Resp: 755
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.0#
128 15.2 5.0 7.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.409 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.02 min

Lab File: VL037306.D

Acq: 31 Jul 2021 6:37

Instrument :

MSVOA_L

ClientSampleId :

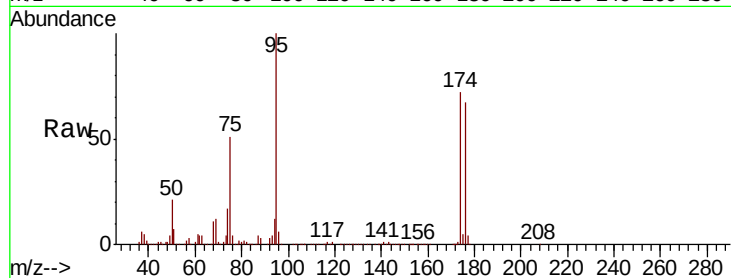
Tot Ion: 95 Resp: 2064680

Ion Ratio Lower Upper

95 100

174 82.0 59.8 89.6

175 5.5 4.5 6.7



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

