

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037302.D
 Acq On : 31 Jul 2021 3:58
 Operator : SY/AP
 Sample : M3121-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 05:02:23 2021
 Quant Method : Z:\VOASRV\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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1092315	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3509951	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	3149165	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2202389	9.61	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

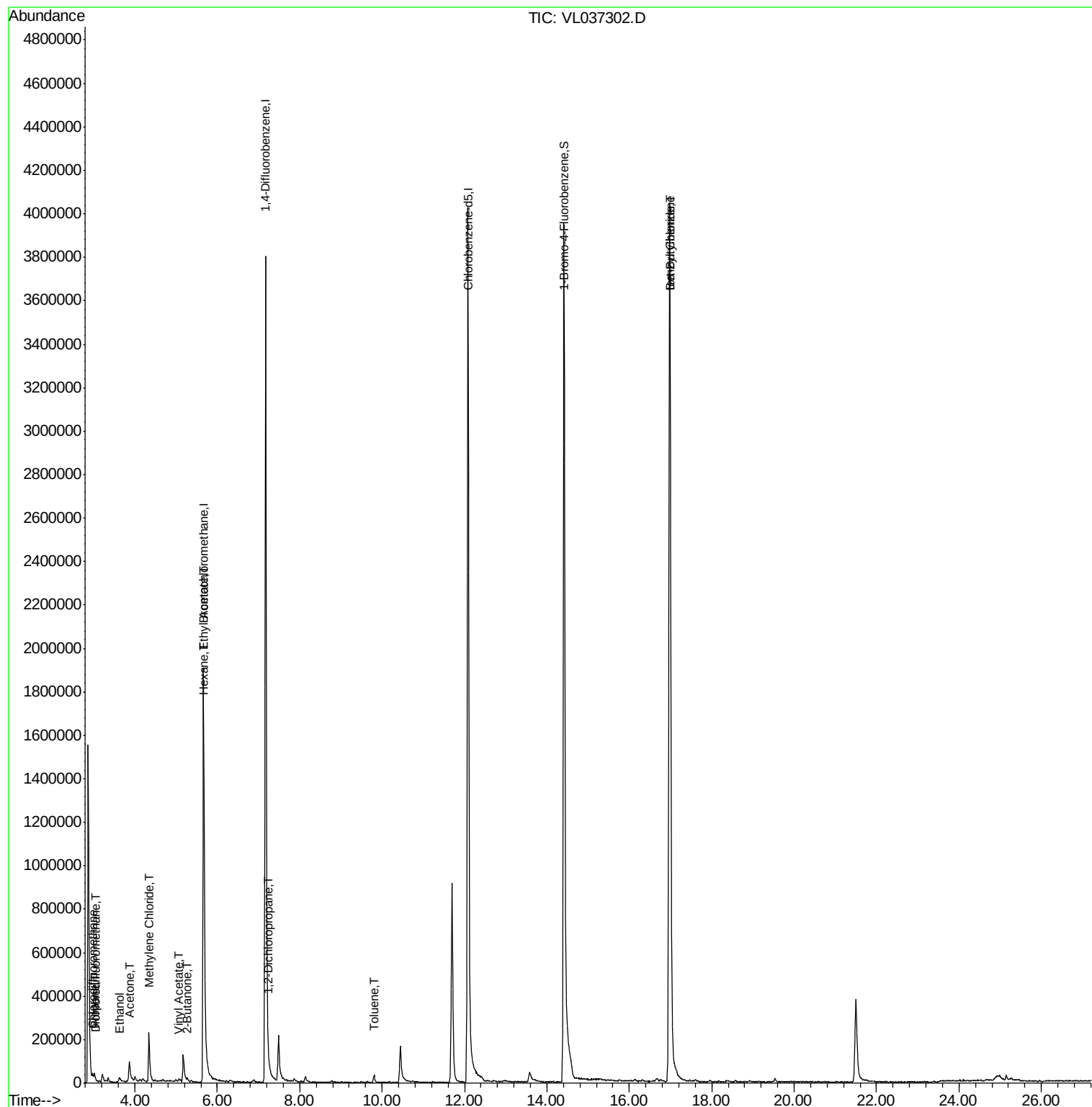
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	10909	0.069	ppbv	90
3) Chlorodifluoromethane	2.98	51	55796	0.255	ppbv #	91
9) Propene	3.01	41	9446	0.128	ppbv	90
13) Ethanol	3.62	45	16416	1.014	ppbv	80
15) Acetone	3.86	43	116138	0.590	ppbv #	50
20) Methylene Chloride	4.34	84	91592	1.203	ppbv	94
23) Vinyl Acetate	5.07	43	5686	0.034	ppbv #	85
25) Ethyl Acetate	5.68	43	16337	0.057	ppbv #	88
26) Hexane	5.68	57	44787	0.294	ppbv #	52
34) 2-Butanone	5.25	43	5000	0.033	ppbv #	52
39) 1,2-Dichloropropane	7.24	63	9813	0.088	ppbv #	22
53) Toluene	9.80	91	12542	0.036	ppbv #	21
65) tert-Butylbenzene	16.98	119	56484	0.121	ppbv #	29
66) Benzyl Chloride	16.98	91	740	0.032	ppbv #	63

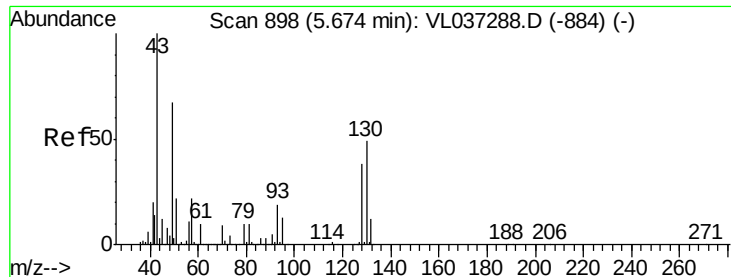
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jul 31 05:02:23 2021
Quant Method : Z:\VOASRV\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# 894

Delta R.T. -0.01 min

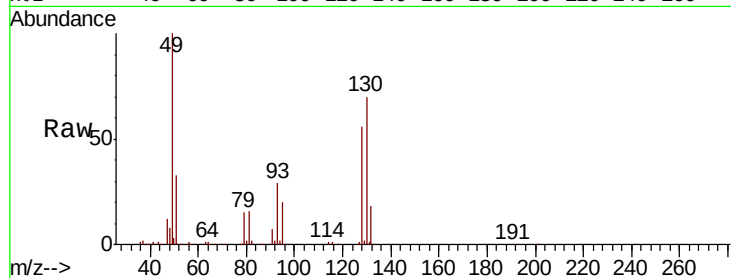
Lab File: VL037302.D

Acq: 31 Jul 2021 3:58

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1092315

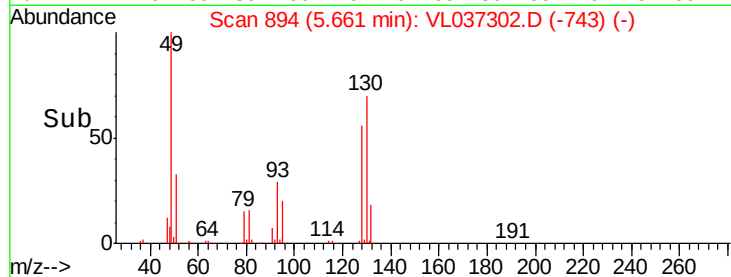
Ion	Ratio	Lower	Upper
49	100		
128	62.4	30.6	92.0
130	78.8	37.8	113.4



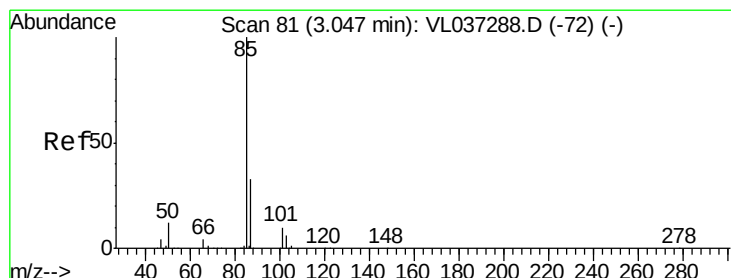
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 0.069 ppbv

RT: 3.04 min Scan# 80

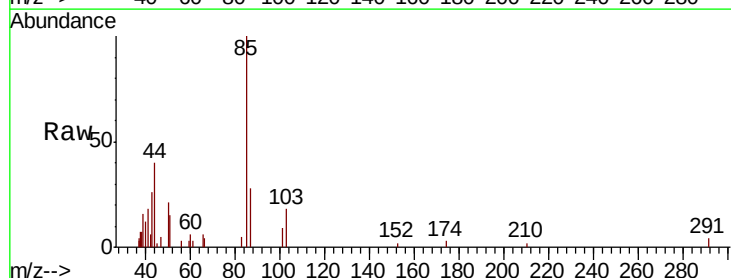
Delta R.T. -0.00 min

Lab File: VL037302.D

Acq: 31 Jul 2021 3:58

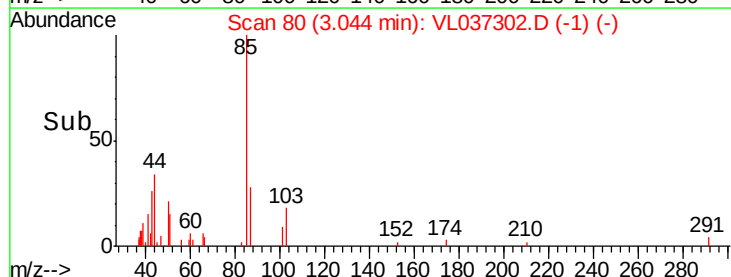
Tgt Ion: 85 Resp: 10909

Ion	Ratio	Lower	Upper
85	100		
87	27.7	26.6	40.0

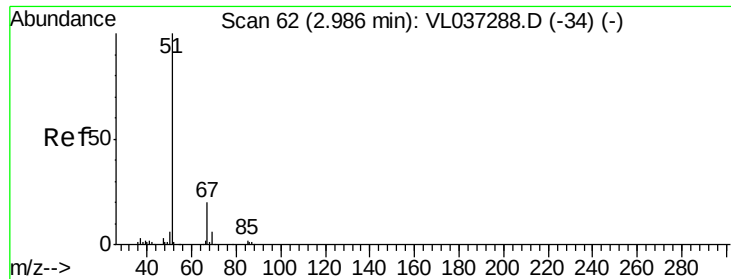


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.255 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037302.D

Acq: 31 Jul 2021 3:58

Instrument :

MSVOA_L

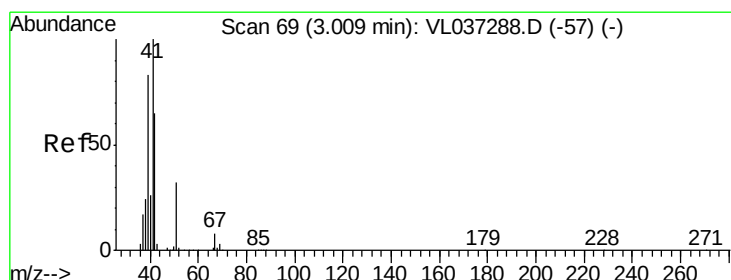
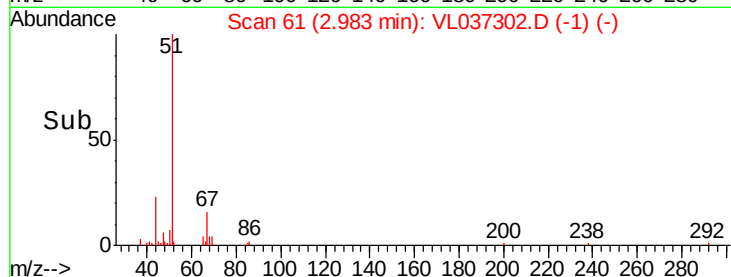
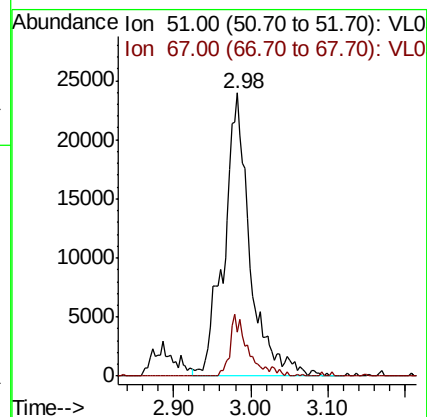
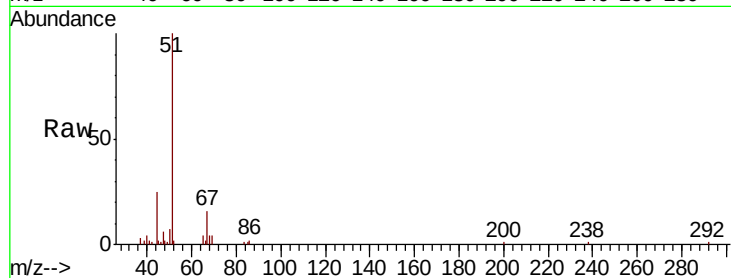
ClientSampleId :

Tot Ion: 51 Resp: 55796

Ion Ratio Lower Upper

51 100

67 15.1 15.2 22.8#



#9

Propene

Concen: 0.128 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037302.D

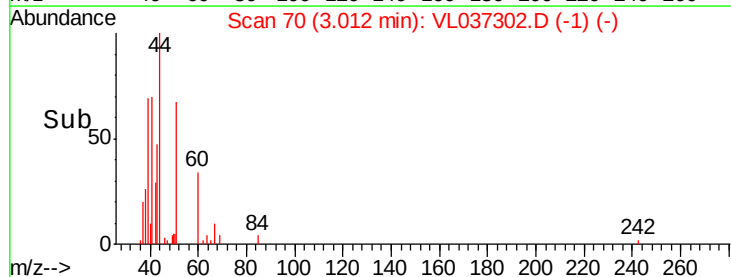
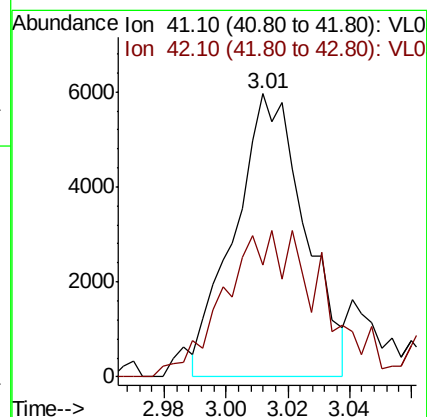
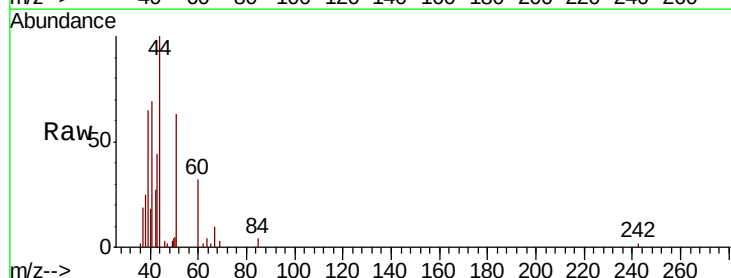
Acq: 31 Jul 2021 3:58

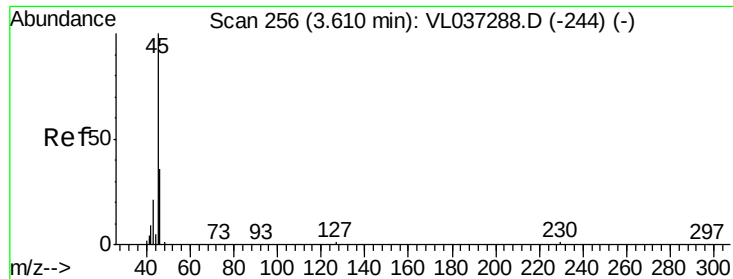
Tgt Ion: 41 Resp: 9446

Ion Ratio Lower Upper

41 100

42 75.5 54.0 81.0

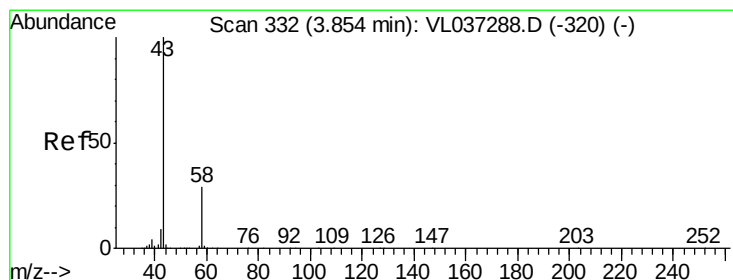
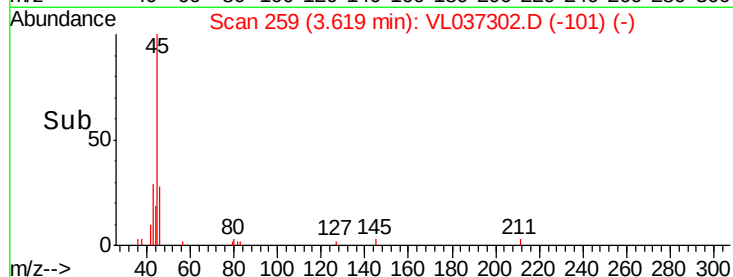
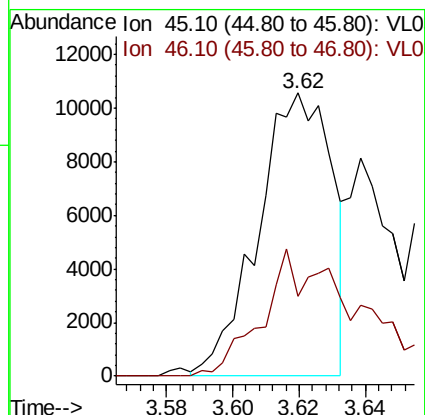
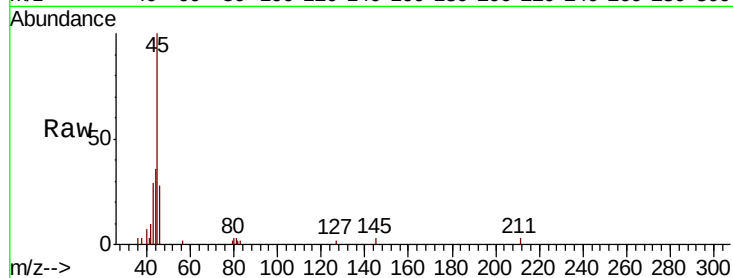




#13
Ethanol
Concen: 1.014 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

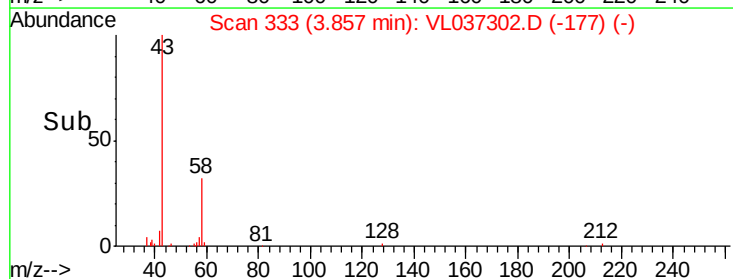
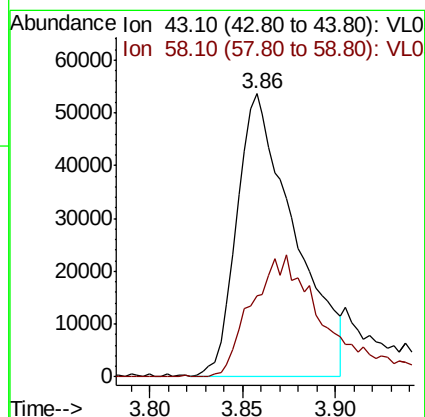
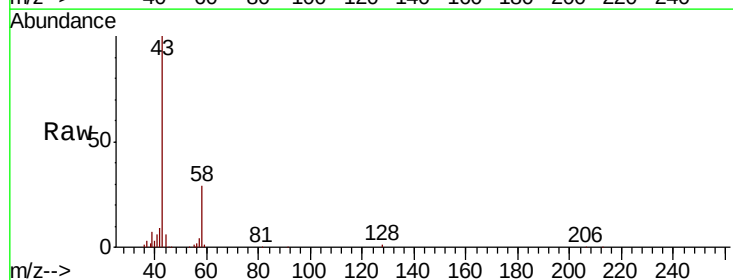
Instrument :
MSVOA_L
ClientSampled :

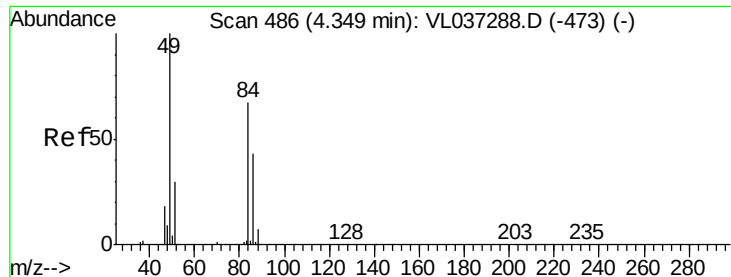
Tot Ion: 45 Resp: 16416
Ion Ratio Lower Upper
45 100
46 53.1 16.2 64.8



#15
Acetone
Concen: 0.590 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

Tgt Ion: 43 Resp: 116138
Ion Ratio Lower Upper
43 100
58 57.4 24.2 36.4#

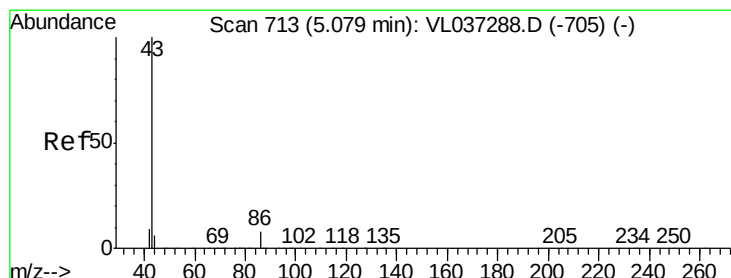
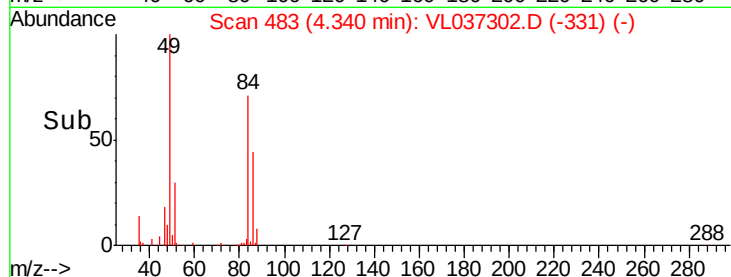
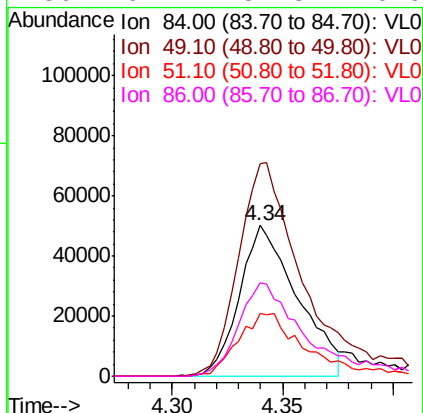
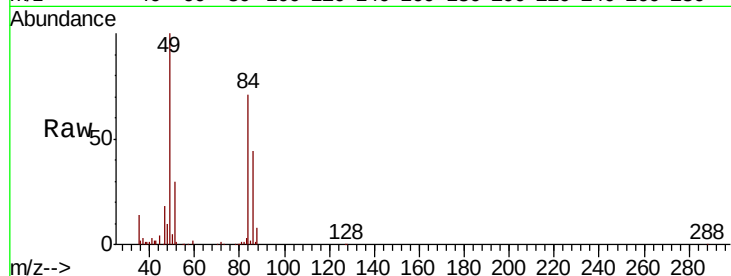




#20
Methvlene Chloride
Concen: 1.203 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

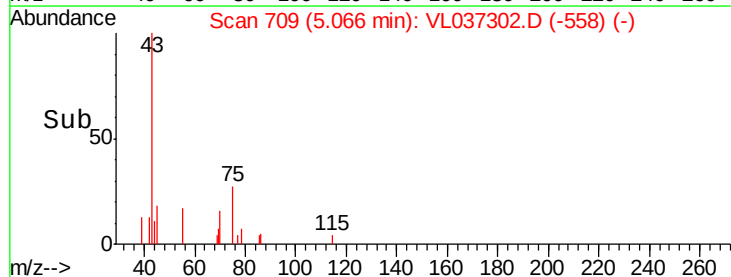
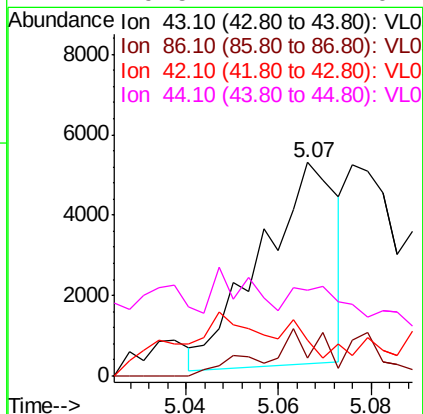
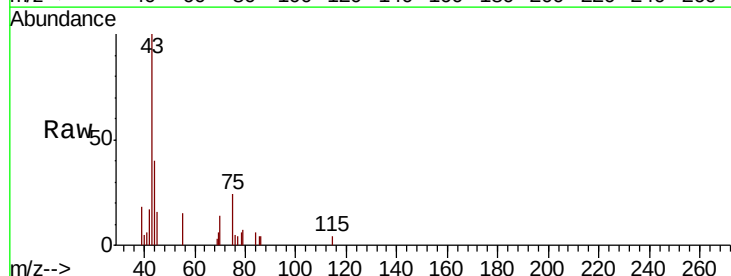
Instrument :
MSVOA_L
ClientSampleId :

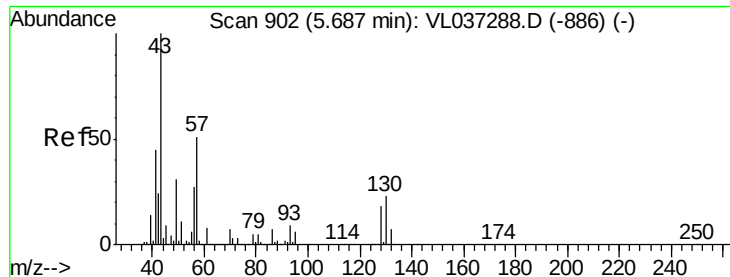
Tot Ion:	84	Resp:	91592
Ion	Ratio	Lower	Upper
84	100		
49	140.8	120.2	180.4
51	41.9	36.5	54.7
86	62.1	51.3	76.9



#23
Vinyl Acetate
Concen: 0.034 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

Tgt Ion:	43	Resp:	5686
Ion	Ratio	Lower	Upper
43	100		
86	9.7	5.7	8.5#
42	2.3	8.1	12.1#
44	9.5	4.1	6.1#

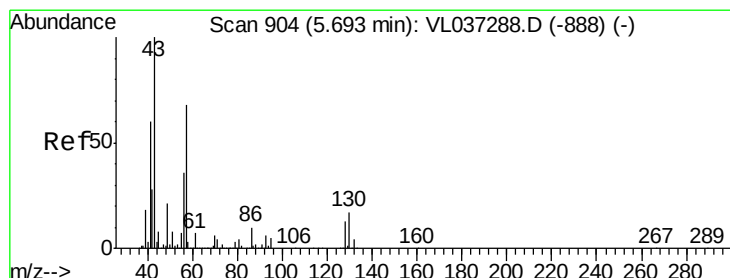
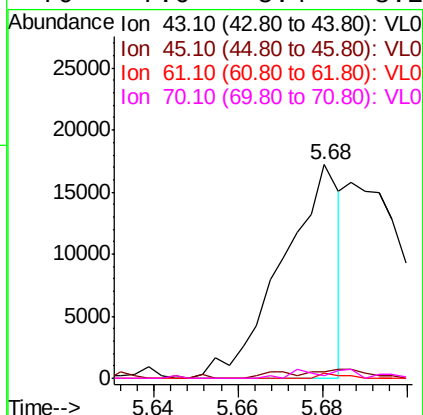
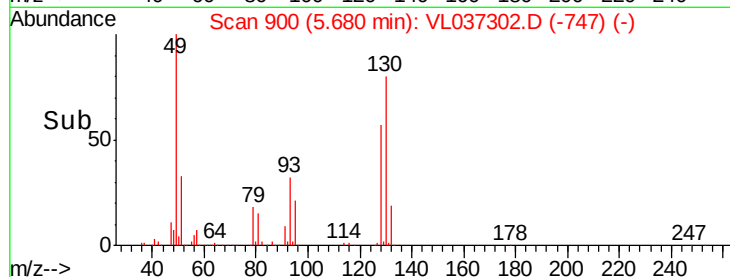
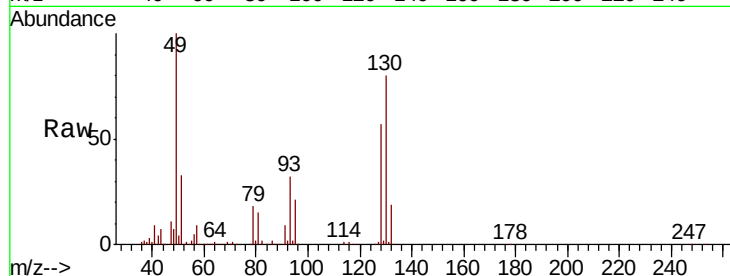




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

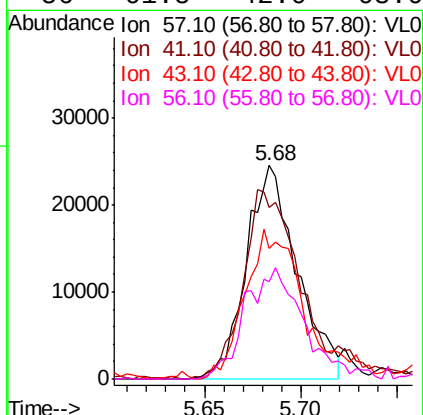
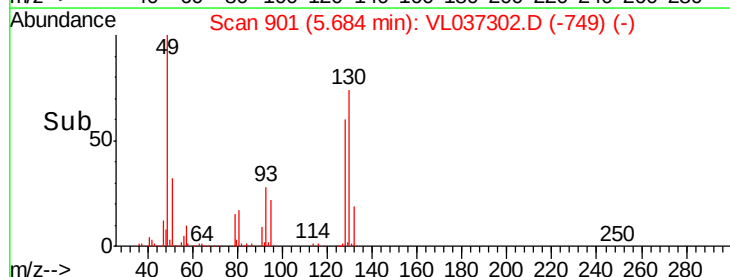
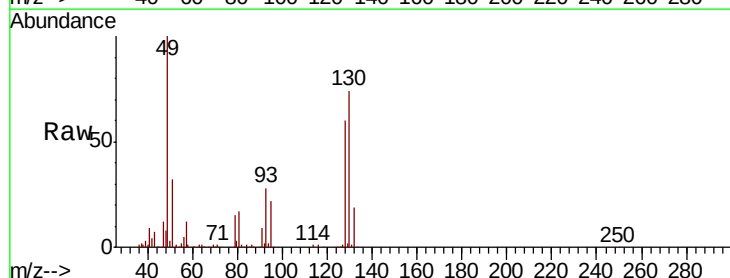
Instrument :
MSVOA_L
ClientSampled :

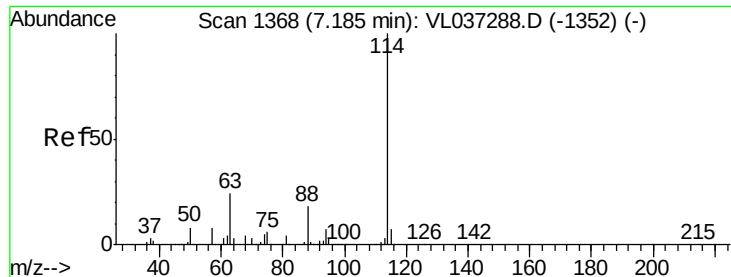
Tot Ion:	43	Resp:	16337
Ion	Ratio	Lower	Upper
43	100		
45	6.3	7.4	11.2#
61	1.0	7.8	11.6#
70	7.0	5.4	8.2



#26
Hexane
Concen: 0.294 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

Tgt Ion:	57	Resp:	44787
Ion	Ratio	Lower	Upper
57	100		
41	101.9	71.0	106.6
43	84.5	155.0	232.4#
56	61.5	42.0	63.0

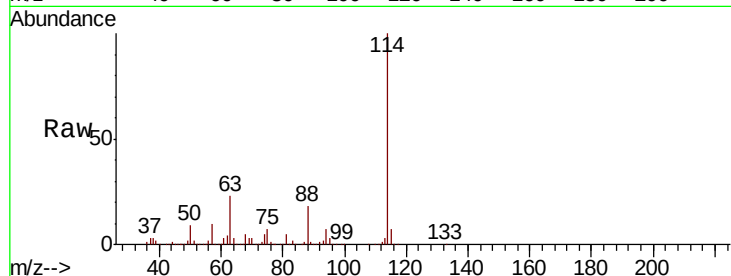




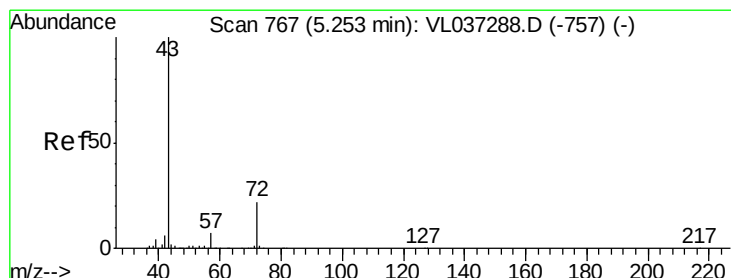
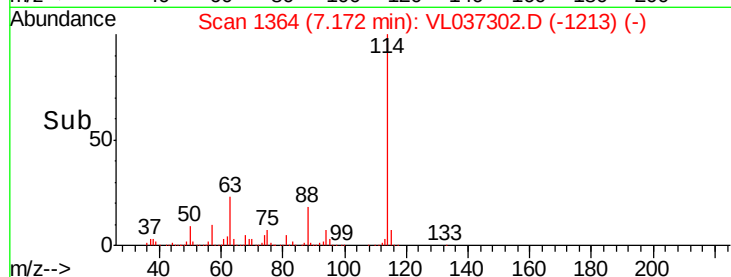
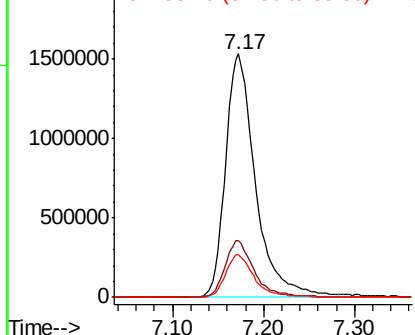
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL037302.D
 Acq: 31 Jul 2021 3:58

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3509951
 Ion Ratio Lower Upper
 114 100
 63 23.2 19.0 28.4
 88 17.3 14.0 21.0

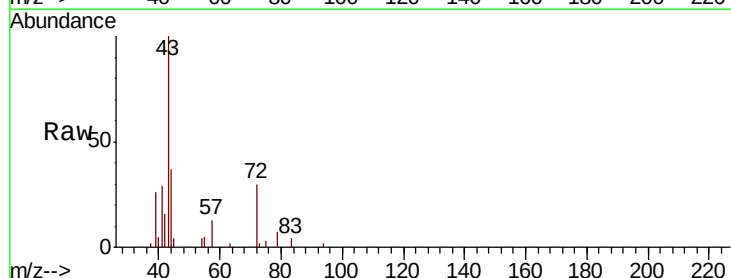


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

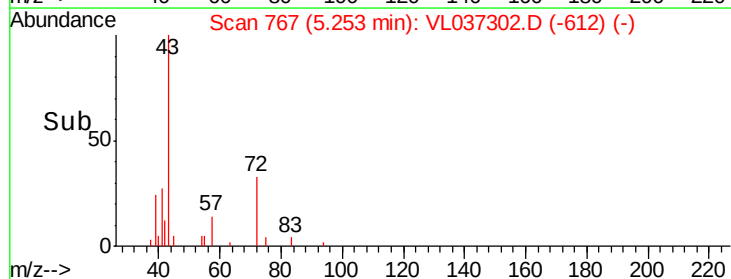
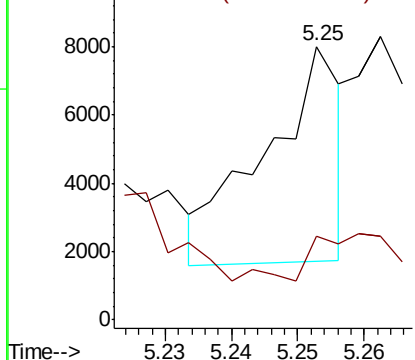


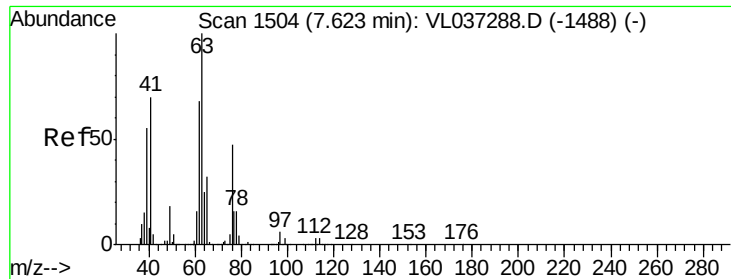
#34
 2-Butanone
 Concen: 0.033 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: VL037302.D
 Acq: 31 Jul 2021 3:58

Tgt Ion: 43 Resp: 5000
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.5 27.7#



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





#39

1,2-Dichloropropane

Concen: 0.088 ppbv

RT: 7.24 min Scan# 1385

Delta R.T. -0.38 min

Lab File: VL037302.D

Acq: 31 Jul 2021 3:58

Instrument :

MSVOA_L

ClientSampleId :

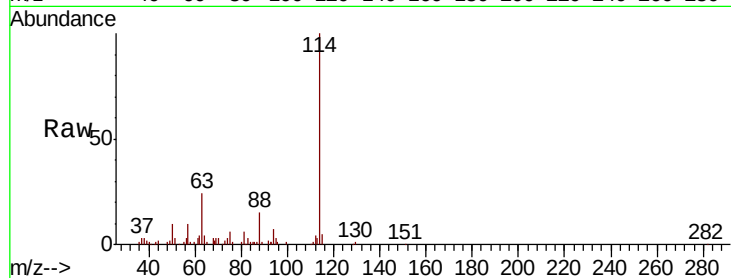
Tot Ion: 63 Resp: 9813

Ion Ratio Lower Upper

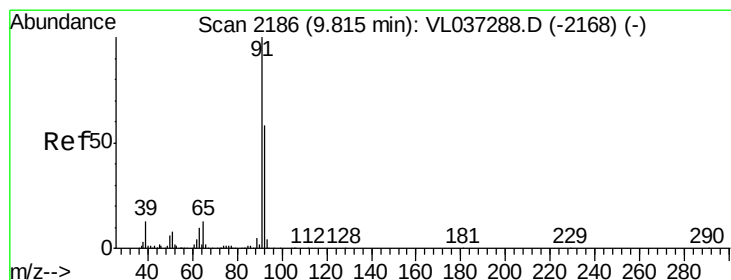
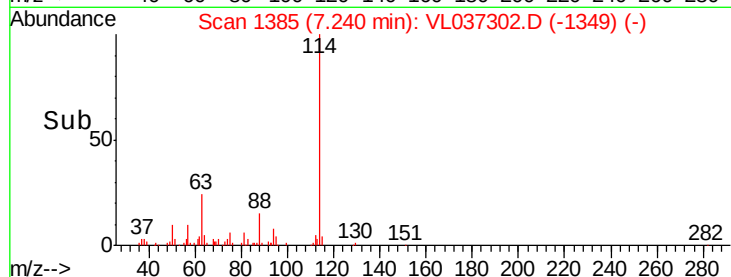
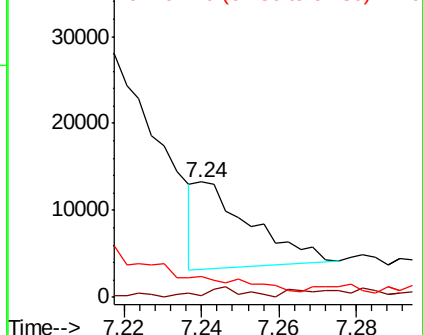
63 100

41 0.0 56.4 84.6#

62 12.2 54.6 82.0#



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



#53

Toluene

Concen: 0.036 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.02 min

Lab File: VL037302.D

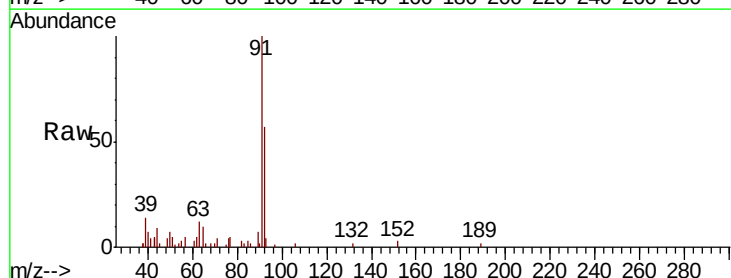
Acq: 31 Jul 2021 3:58

Tgt Ion: 91 Resp: 12542

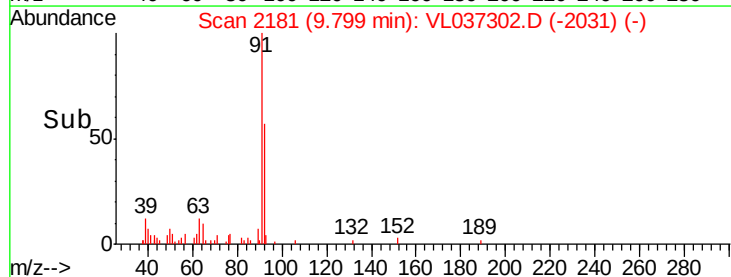
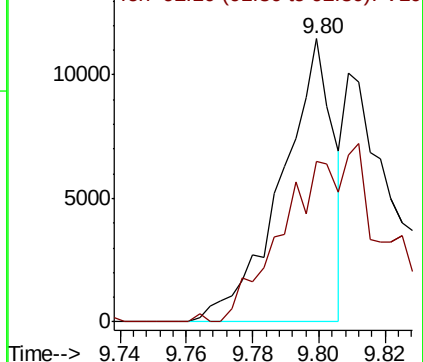
Ion Ratio Lower Upper

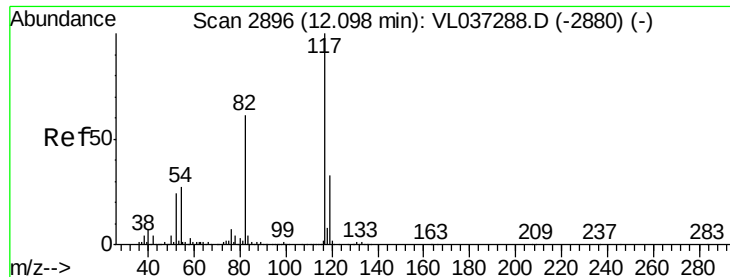
91 100

92 0.0 48.2 72.2#



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

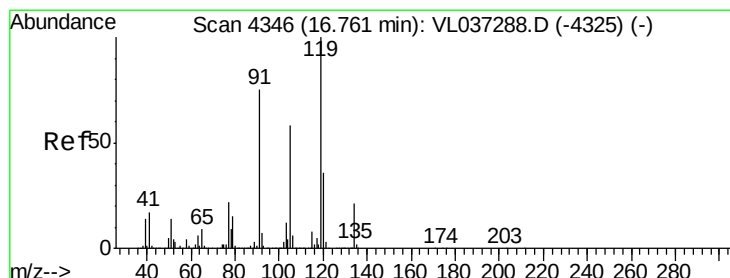
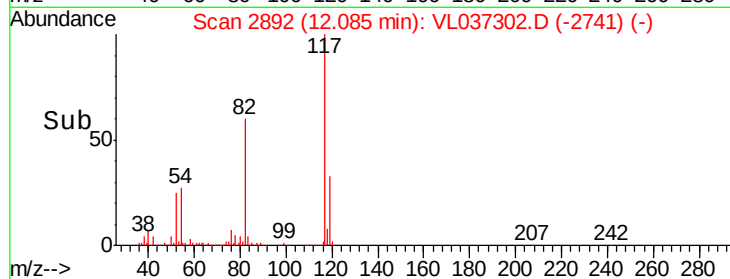
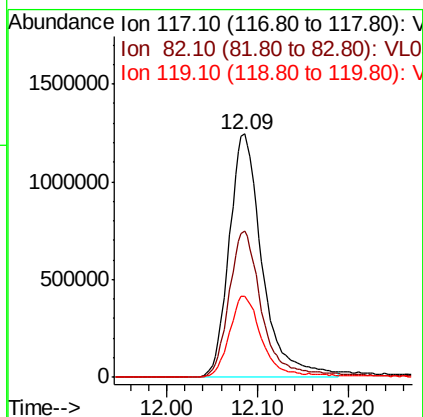
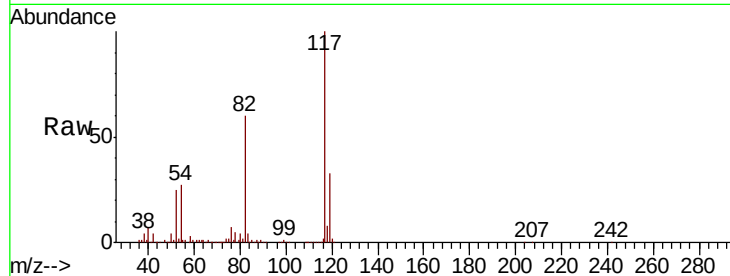




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

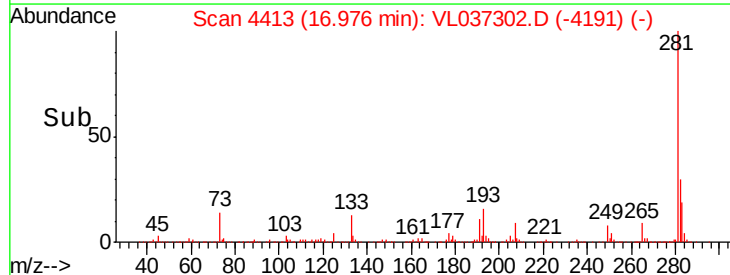
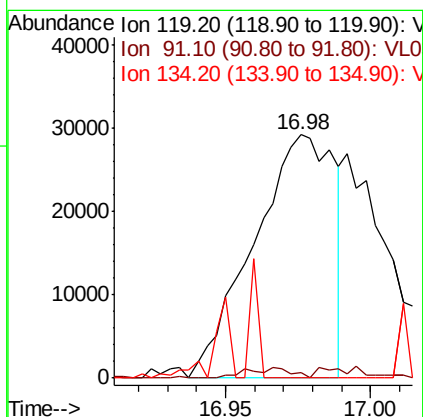
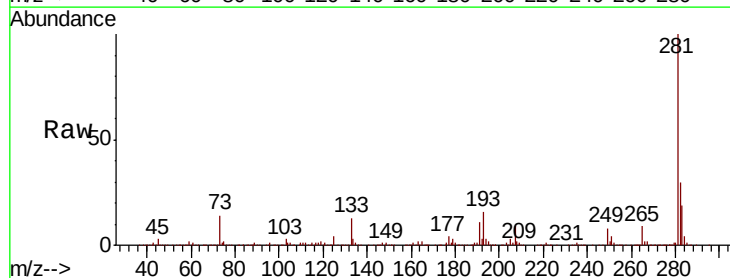
Instrument :
MSVOA_L
ClientSampleId :

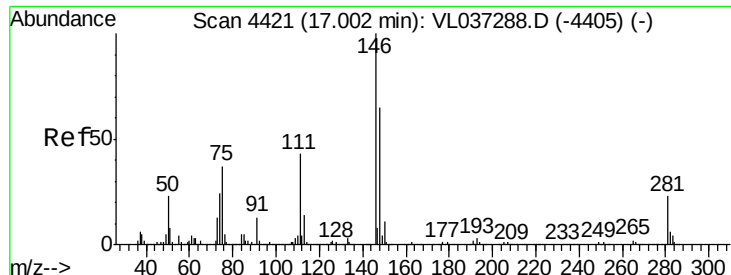
Tot Ion:117 Resp: 3149165
Ion Ratio Lower Upper
117 100
82 61.4 47.2 70.8
119 33.6 45.8 68.8#



#65
tert-Butylbenzene
Concen: 0.121 ppbv
RT: 16.98 min Scan# 4413
Delta R.T. 0.22 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

Tgt Ion:119 Resp: 56484
Ion Ratio Lower Upper
119 100
91 2.4 60.5 90.7#
134 12.0 16.2 24.4#

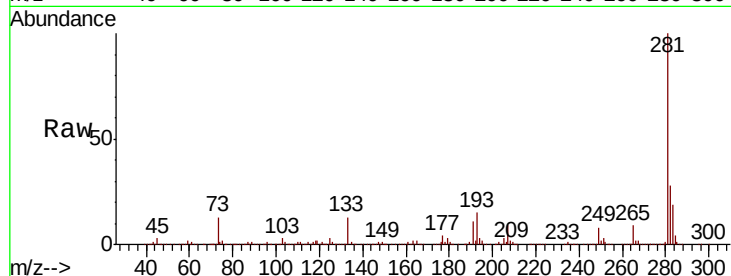




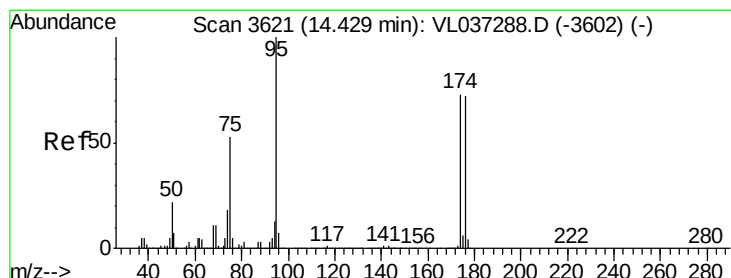
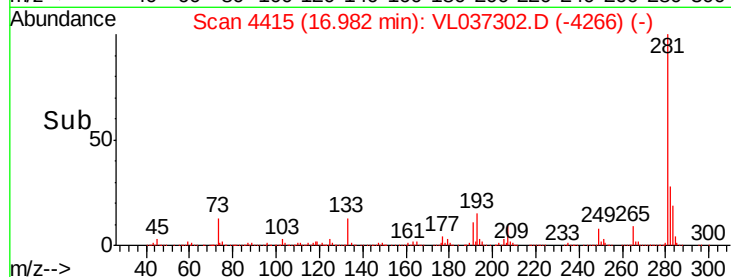
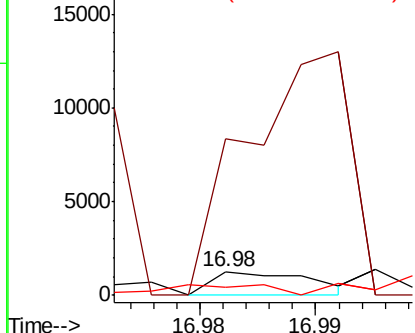
#66
Benzyl Chloride
Concen: 0.032 ppbv
RT: 16.98 min Scan# 4415
Delta R.T. -0.02 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 91 Resp: 740
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.0#
128 0.0 5.0 7.4#

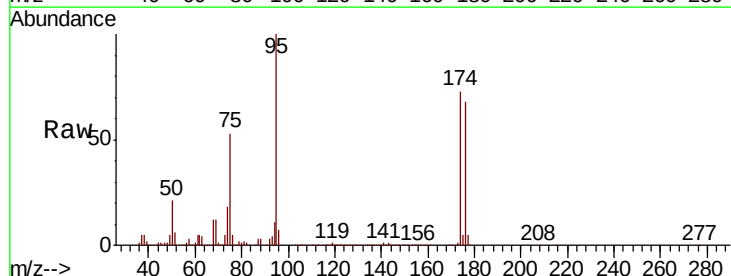


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.613 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.02 min
Lab File: VL037302.D
Acq: 31 Jul 2021 3:58

Tgt Ion: 95 Resp: 2202389
Ion Ratio Lower Upper
95 100
174 79.5 59.8 89.6
175 6.1 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

