

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037225.D
 Acq On : 22 Jun 2021 20:30
 Operator : SY/AP
 Sample : M2807-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 23 01:42:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1556728	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4523558	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4022349	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2974958	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

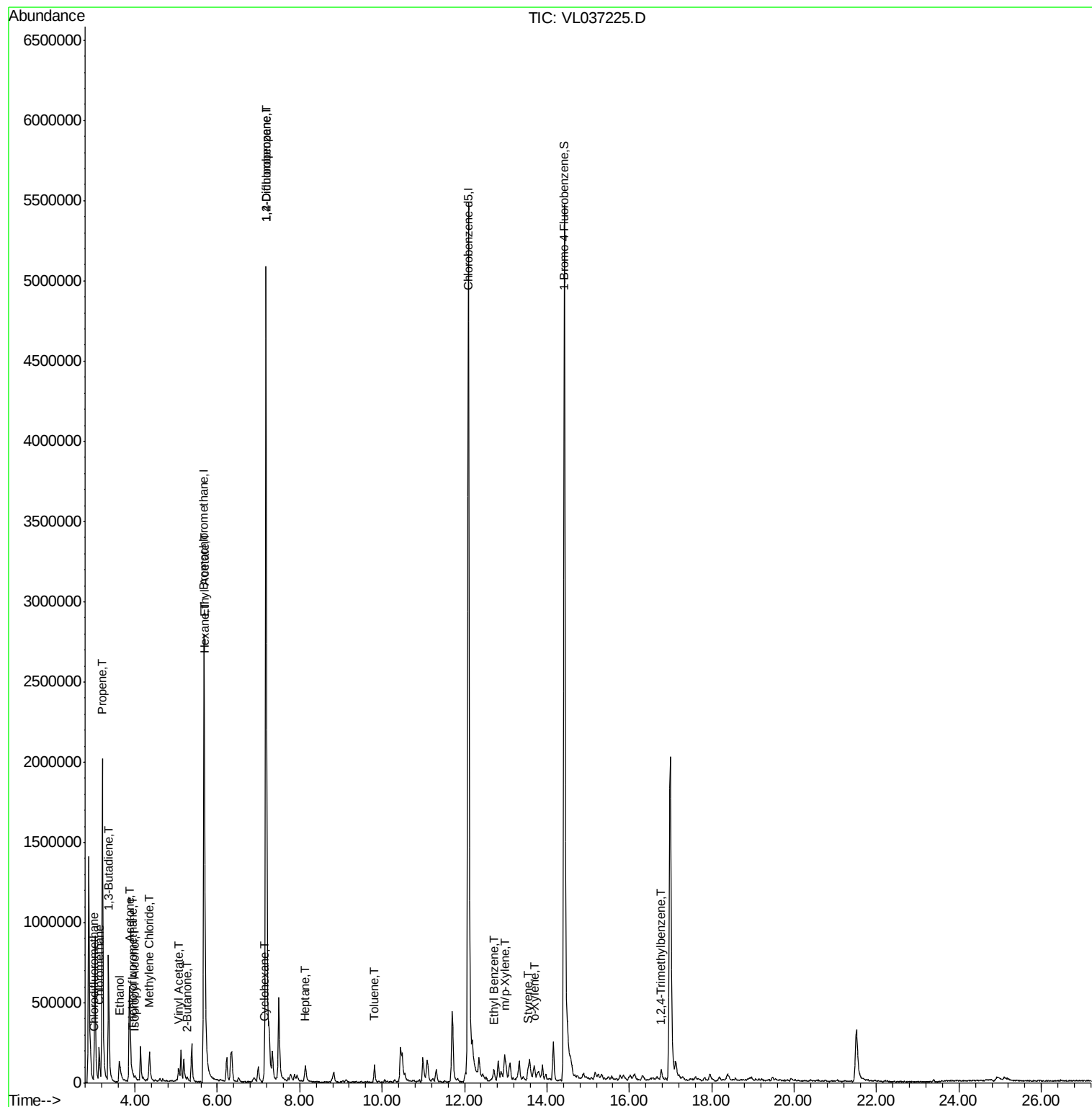
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	18779	0.062 ppbv	# 80
4) Chloromethane	3.15	50	2273	0.023 ppbv	# 52
9) Propene	3.21	41	770328	7.959 ppbv	93
10) Heptane	8.13	43	16439	0.070 ppbv	# 1
11) Trichlorofluoromethane	3.96	101	5793	0.020 ppbv	100
13) Ethanol	3.62	45	214153	14.303 ppbv	54
15) Acetone	3.86	43	889952	5.070 ppbv	96
16) 1,3-Butadiene	3.36	39	122964	1.185 ppbv	# 14
19) Isopropyl Alcohol	3.99	45	6363	0.060 ppbv	# 1
20) Methylene Chloride	4.35	84	37332	0.355 ppbv	97
23) Vinyl Acetate	5.07	43	15283	0.061 ppbv	# 1
25) Ethyl Acetate	5.69	43	138321	0.364 ppbv	# 92
26) Hexane	5.69	57	143511	0.747 ppbv	# 61
30) Cyclohexane	7.13	84	17474	0.109 ppbv	# 19
34) 2-Butanone	5.26	43	13193	0.075 ppbv	# 1
39) 1,2-Dichloropropane	7.18	63	1110358	8.169 ppbv	# 23
53) Toluene	9.81	91	51567	0.118 ppbv	# 53
58) Ethyl Benzene	12.72	91	36272	0.066 ppbv	98
59) m/p-Xylene	12.98	91	95797	0.204 ppbv	# 30
60) o-Xylene	13.70	91	35615	0.080 ppbv	# 30
61) Styrene	13.54	104	9470	0.041 ppbv	# 21
74) 1,2,4-Trimethylbenzene	16.77	105	21943	0.043 ppbv	# 69

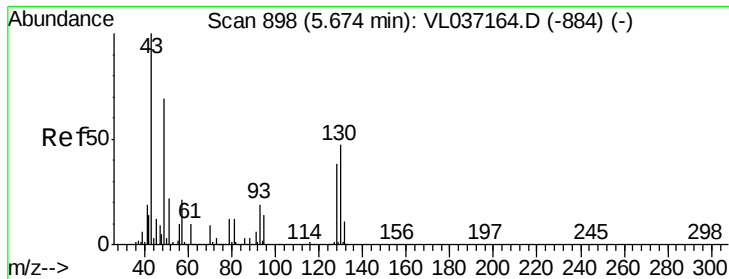
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
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QLast Update : Wed Jun 16 14:06:32 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL037225.D

Acq: 22 Jun 2021 20:30

Instrument :

MSVOA_L

ClientSampleId :

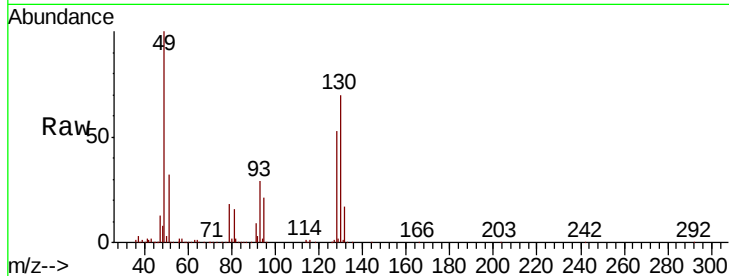
Tot Ion: 49 Resp: 1556728

Ion Ratio Lower Upper

49 100

128 57.3 29.3 88.0

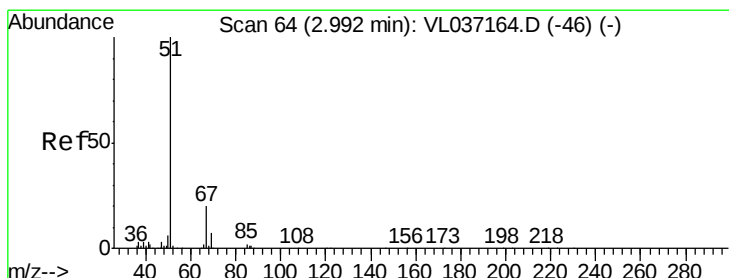
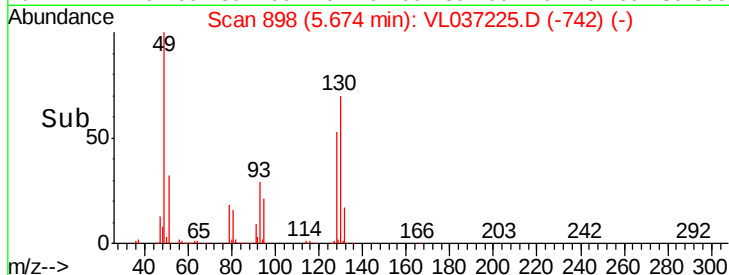
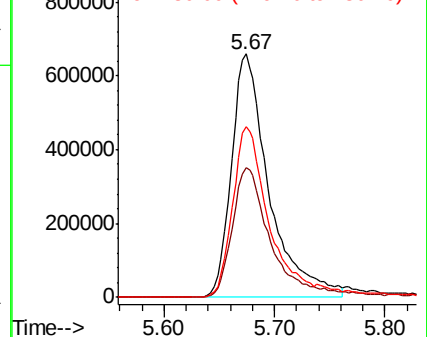
130 71.7 35.9 107.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.062 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL037225.D

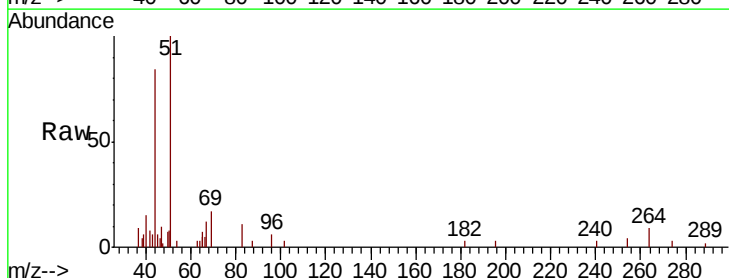
Acq: 22 Jun 2021 20:30

Tgt Ion: 51 Resp: 18779

Ion Ratio Lower Upper

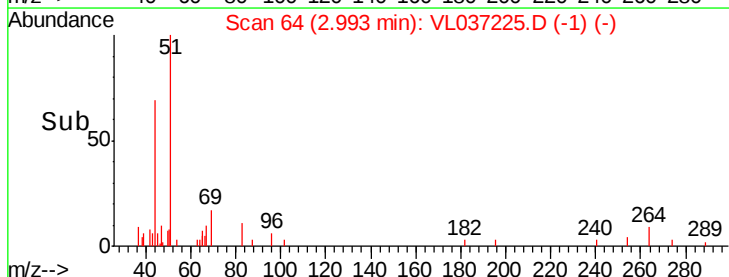
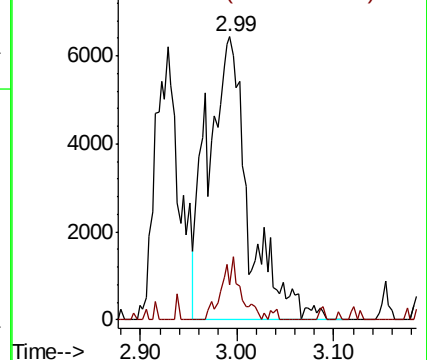
51 100

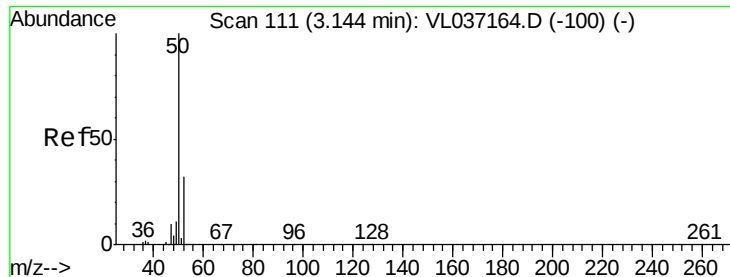
67 10.3 15.8 23.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL037225.D

Acq: 22 Jun 2021 20:30

Instrument :

MSVOA_L

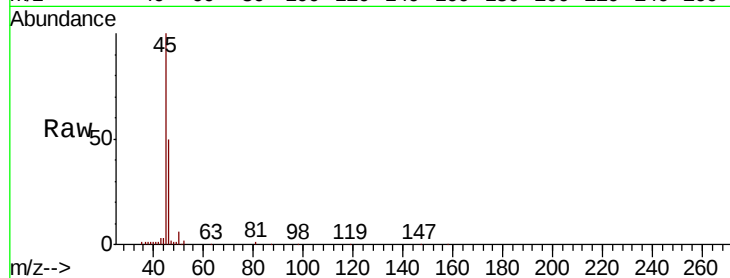
ClientSampleId :

Tot Ion: 50 Resp: 2273

Ion Ratio Lower Upper

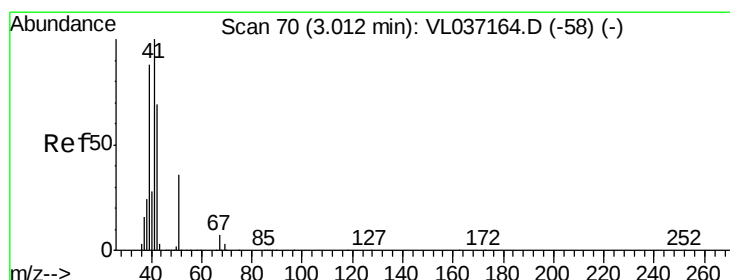
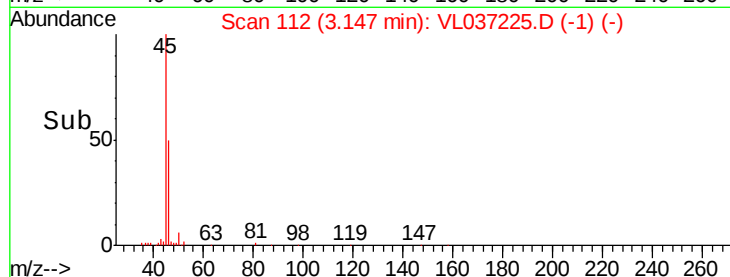
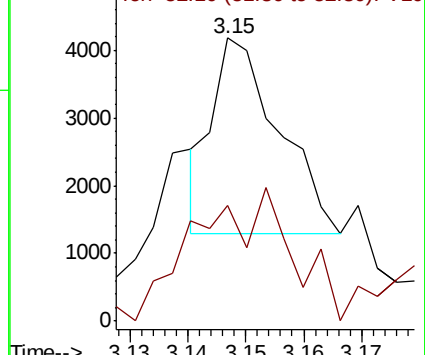
50 100

52 59.3 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 7.959 ppbv

RT: 3.21 min Scan# 132

Delta R.T. 0.20 min

Lab File: VL037225.D

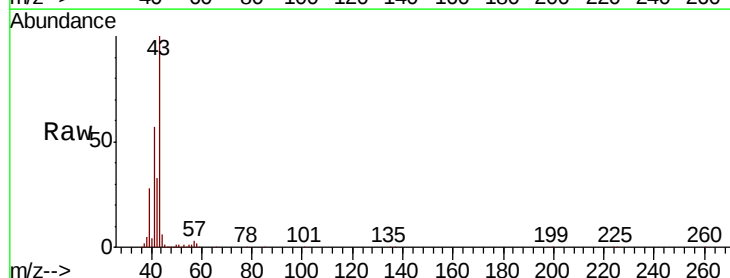
Acq: 22 Jun 2021 20:30

Tgt Ion: 41 Resp: 770328

Ion Ratio Lower Upper

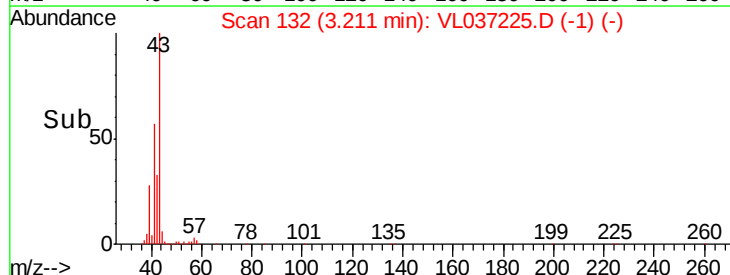
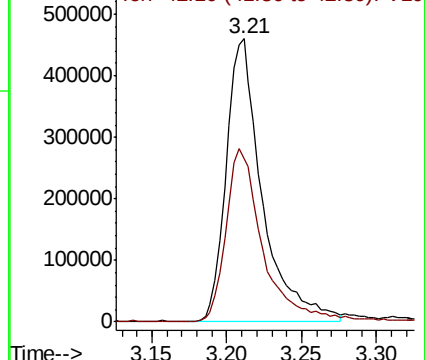
41 100

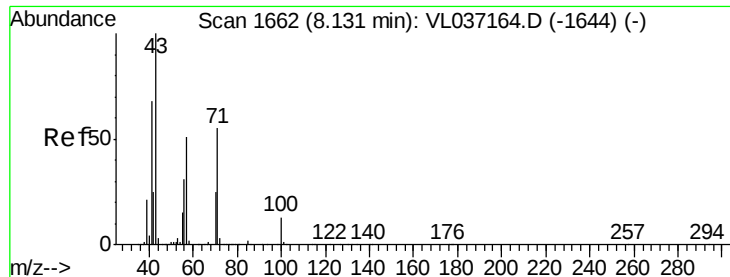
42 62.1 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

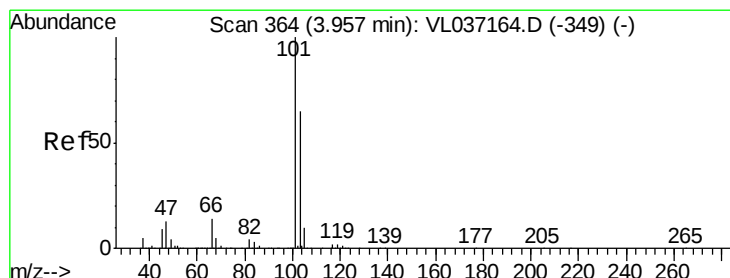
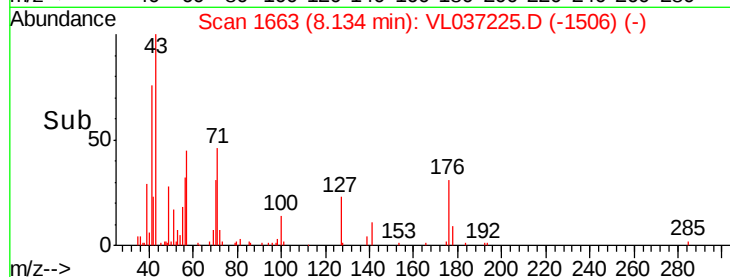
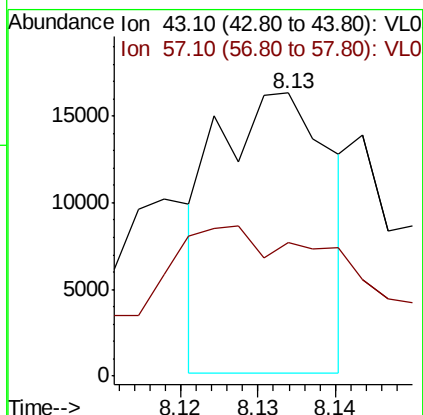
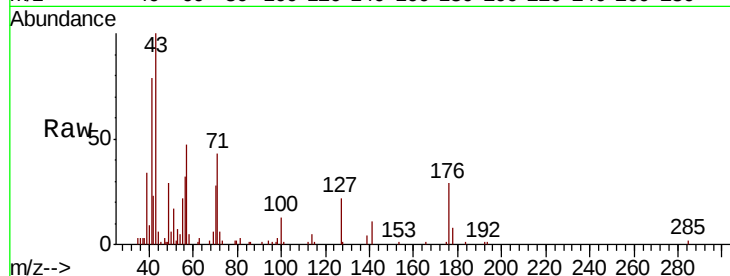




#10
 Heptane
 Concen: 0.070 ppbv
 RT: 8.13 min Scan# 1663
 Delta R.T. 0.00 min
 Lab File: VL037225.D
 Acq: 22 Jun 2021 20:30

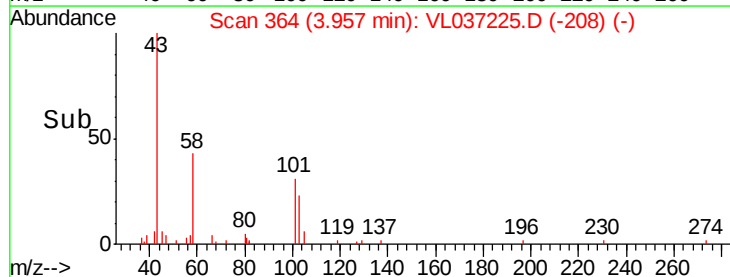
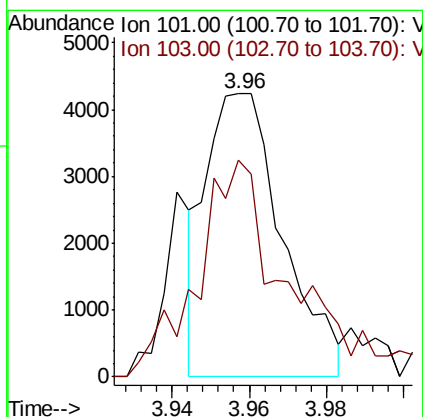
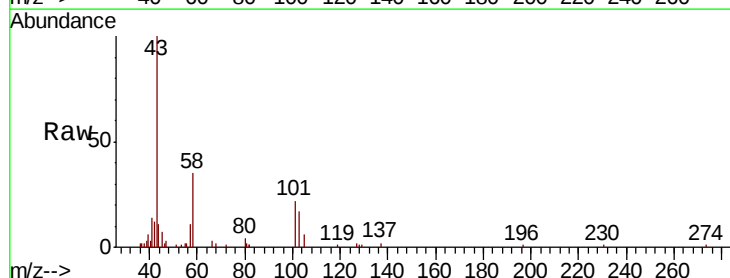
Instrument :
 MSVOA_L
 ClientSampled :

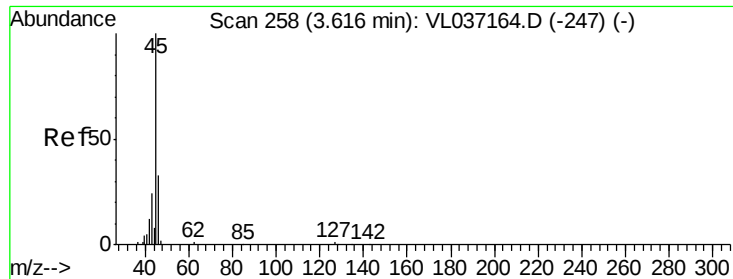
Tot Ion: 43 Resp: 16439
 Ion Ratio Lower Upper
 43 100
 57 131.0 40.6 61.0#



#11
 Trichlorofluoromethane
 Concen: 0.020 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL037225.D
 Acq: 22 Jun 2021 20:30

Tgt Ion: 101 Resp: 5793
 Ion Ratio Lower Upper
 101 100
 103 65.2 52.2 78.4

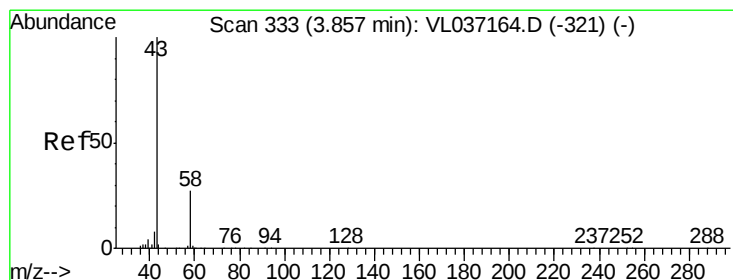
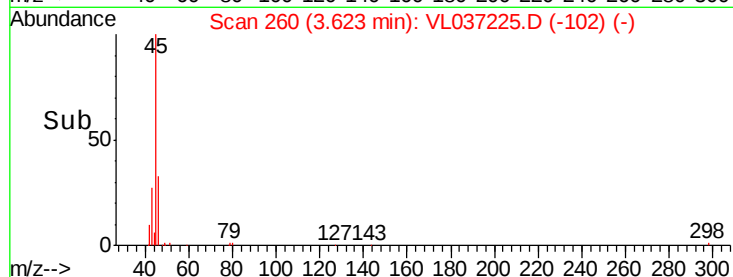
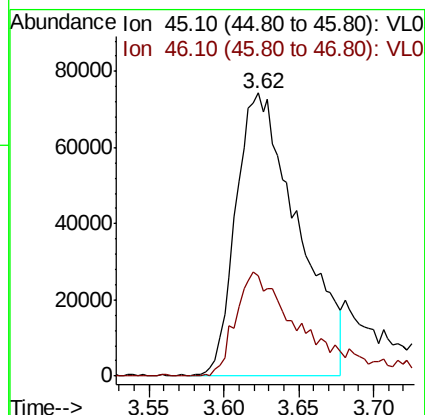
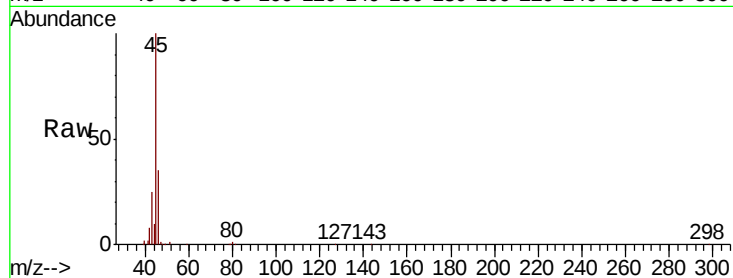




#13
Ethanol
Concen: 14.303 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.01 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

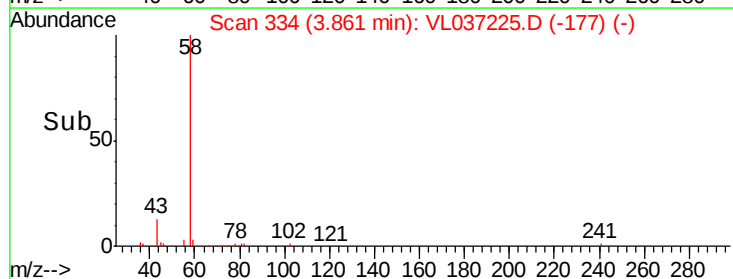
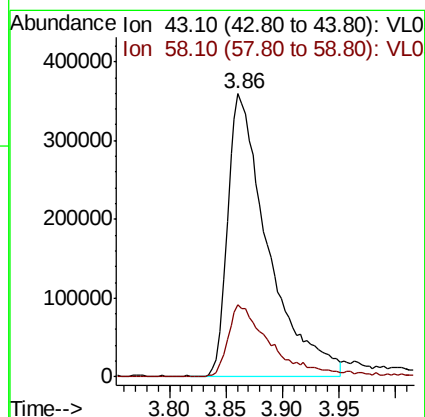
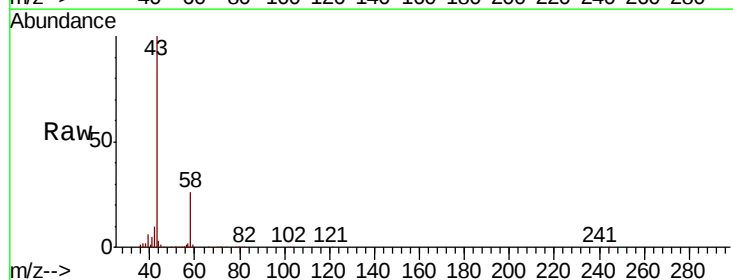
Instrument :
MSVOA_L
ClientSampleId :

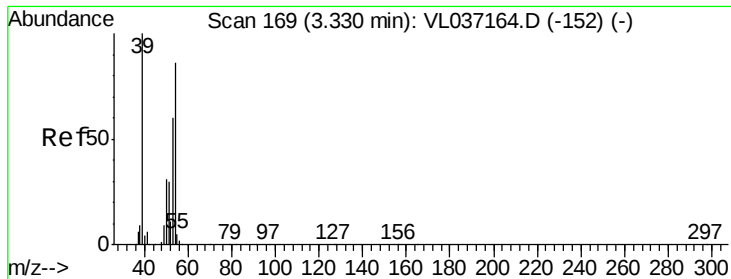
Tot Ion: 45 Resp: 214153
Ion Ratio Lower Upper
45 100
46 43.4 34.2 137.0



#15
Acetone
Concen: 5.070 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

Tgt Ion: 43 Resp: 889952
Ion Ratio Lower Upper
43 100
58 27.2 23.7 35.5

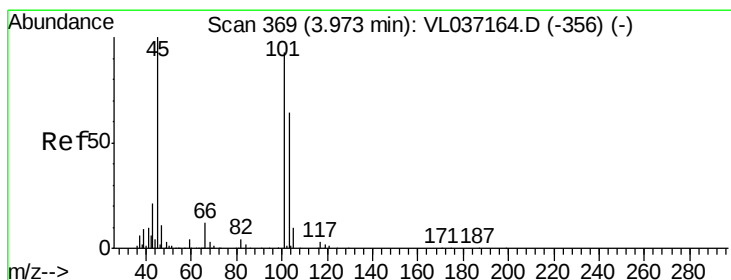
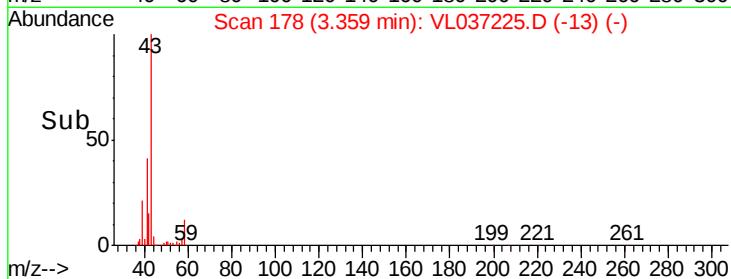
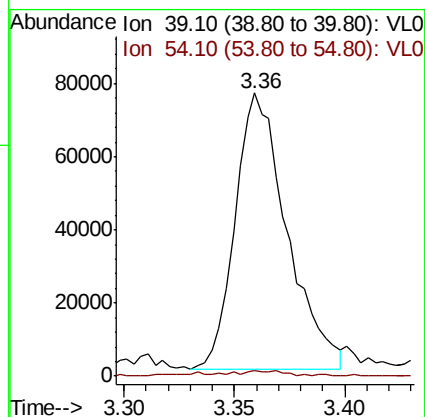
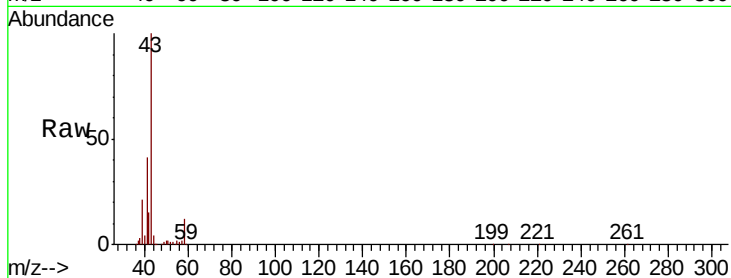




#16
 1,3-Butadiene
 Concen: 1.185 ppbv
 RT: 3.36 min Scan# 178
 Delta R.T. 0.03 min
 Lab File: VL037225.D
 Acq: 22 Jun 2021 20:30

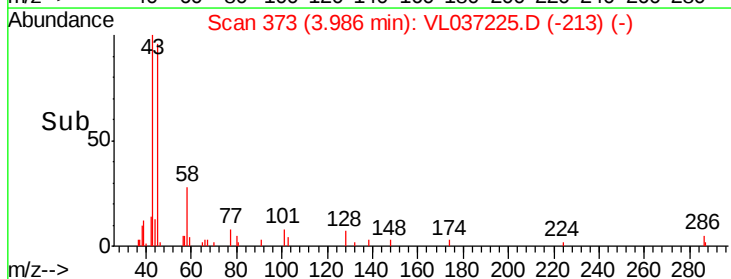
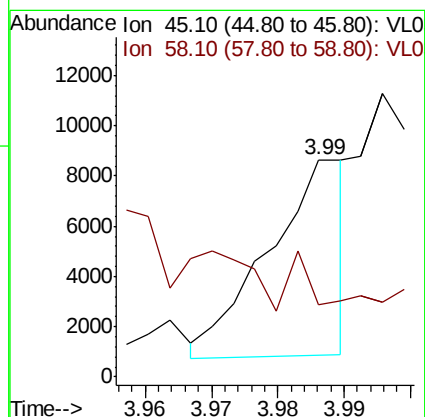
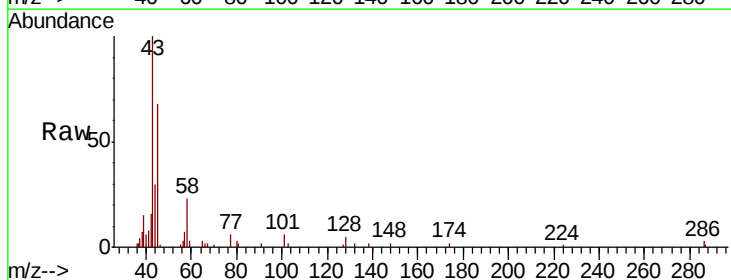
Instrument :
 MSVOA_L
 ClientSampleId :

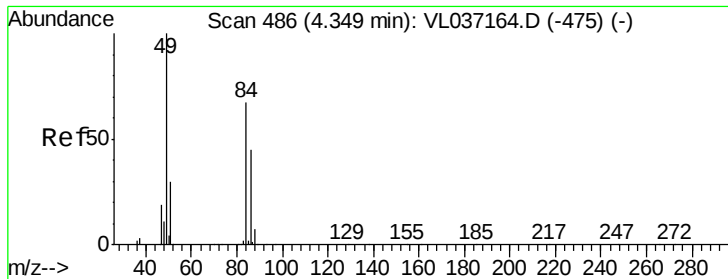
Tot Ion: 39 Resp: 122964
 Ion Ratio Lower Upper
 39 100
 54 2.9 61.2 91.8#



#19
 Isopropyl Alcohol
 Concen: 0.060 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VL037225.D
 Acq: 22 Jun 2021 20:30

Tgt Ion: 45 Resp: 6363
 Ion Ratio Lower Upper
 45 100
 58 188.2 2.4 3.6#

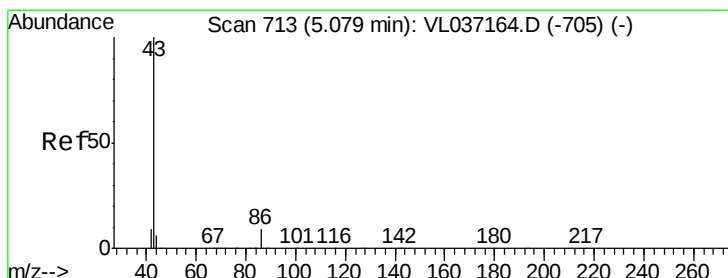
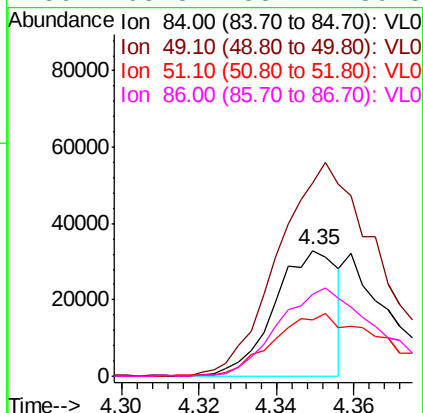
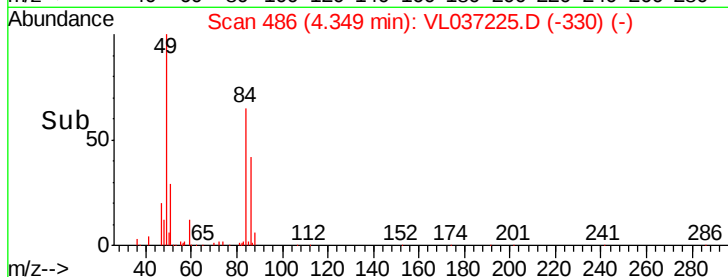
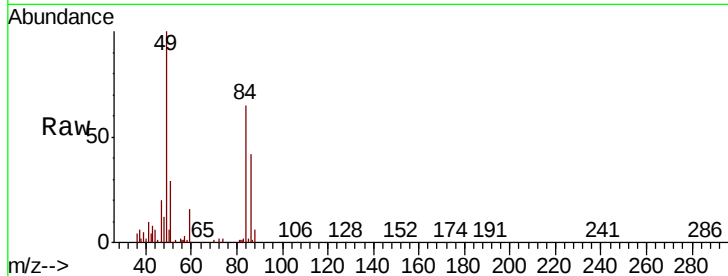




#20
Methylene Chloride
Concen: 0.355 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

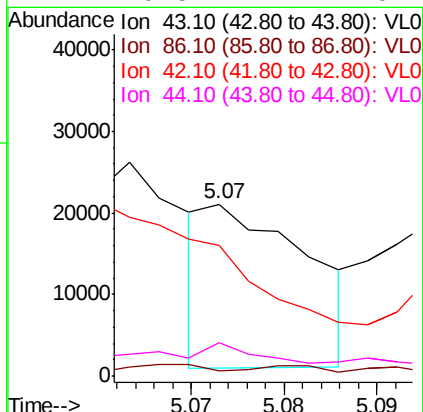
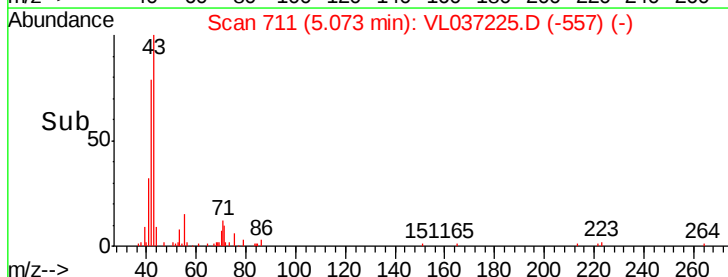
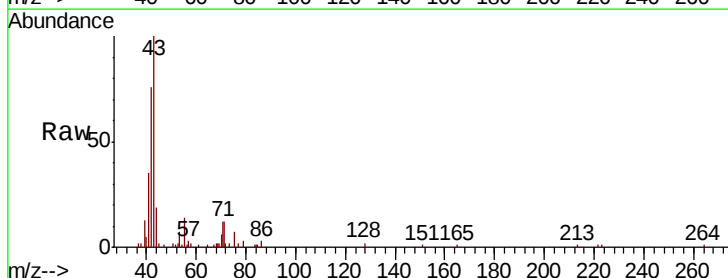
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ClientSampleId :

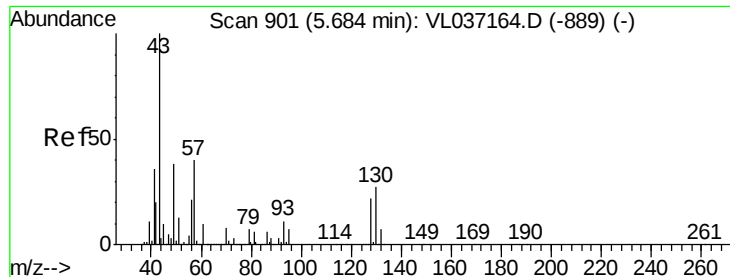
Tot Ion:	84	Resp:	37332
Ion	Ratio	Lower	Upper
84	100		
49	154.0	119.7	179.5
51	42.3	36.1	54.1
86	65.3	53.7	80.5



#23
Vinyl Acetate
Concen: 0.061 ppbv
RT: 5.07 min Scan# 711
Delta R.T. -0.01 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

Tgt Ion:	43	Resp:	15283
Ion	Ratio	Lower	Upper
43	100		
86	2.7	5.8	8.8#
42	118.6	8.2	12.2#
44	29.5	4.2	6.4#

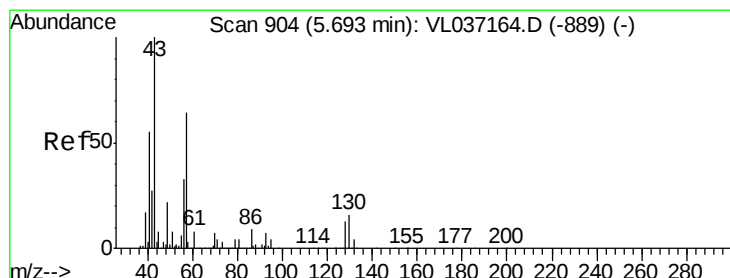
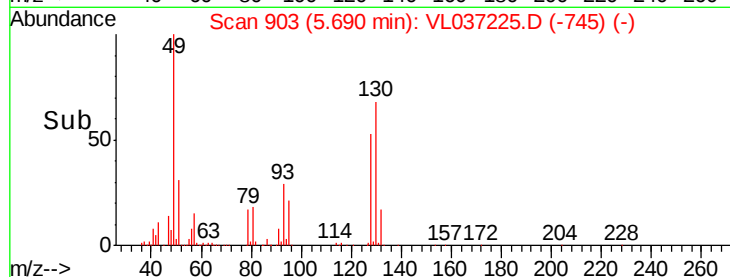
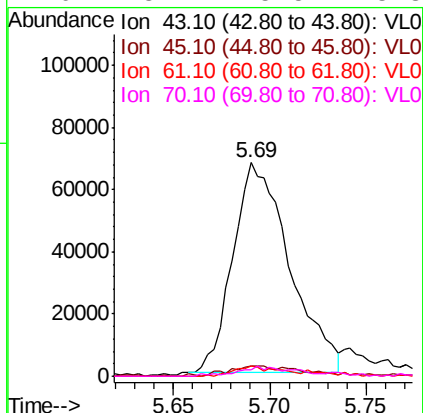
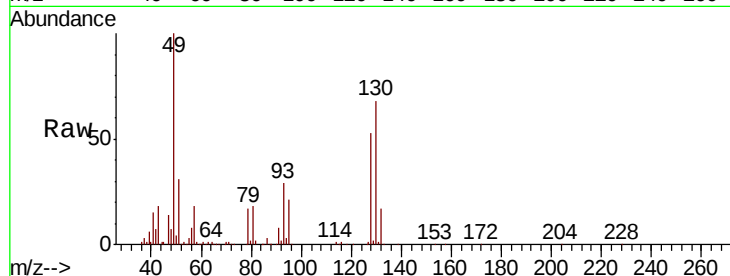




#25
Ethyl Acetate
Concen: 0.364 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

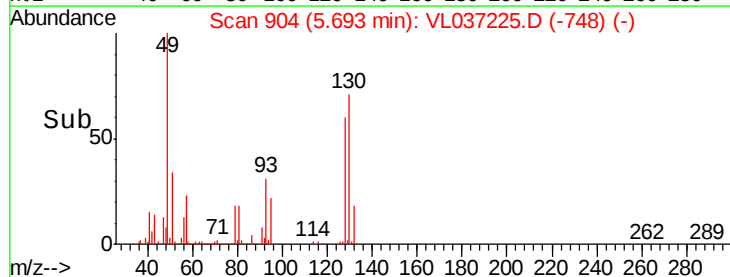
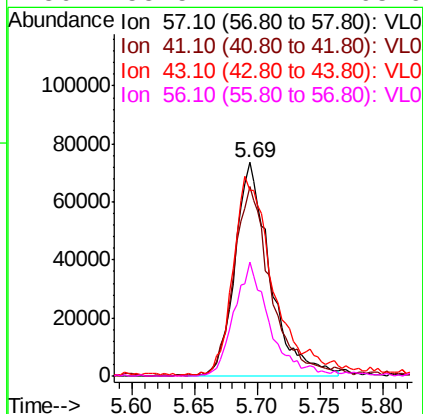
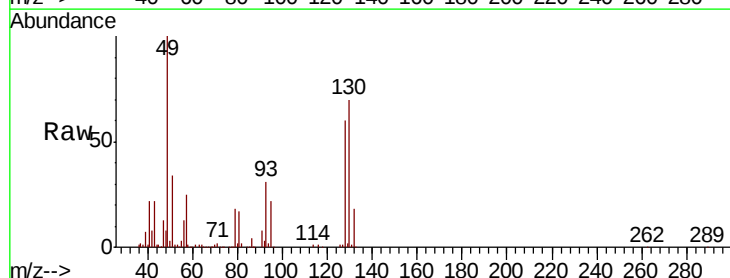
Instrument :
MSVOA_L
ClientSampleId :

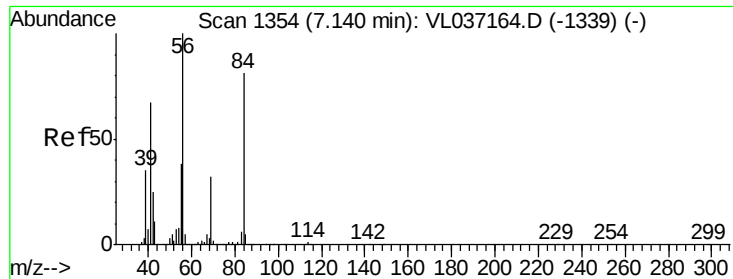
Tot Ion:	43	Resp:	138321
Ion	Ratio	Lower	Upper
43	100		
45	7.9	8.0	12.0#
61	5.7	8.1	12.1#
70	5.2	5.5	8.3#



#26
Hexane
Concen: 0.747 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

Tgt Ion:	57	Resp:	143511
Ion	Ratio	Lower	Upper
57	100		
41	96.7	73.5	110.3
43	113.6	170.7	256.1#
56	55.5	42.4	63.6

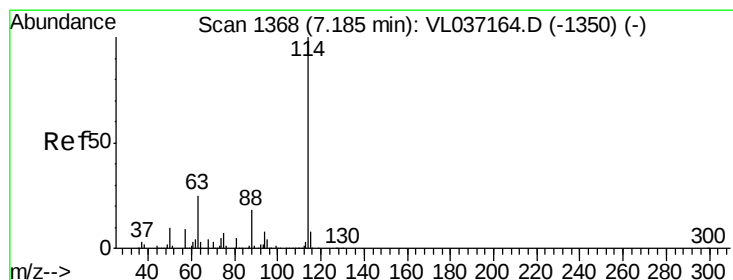
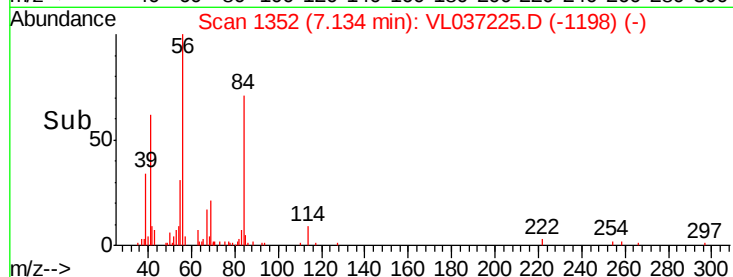
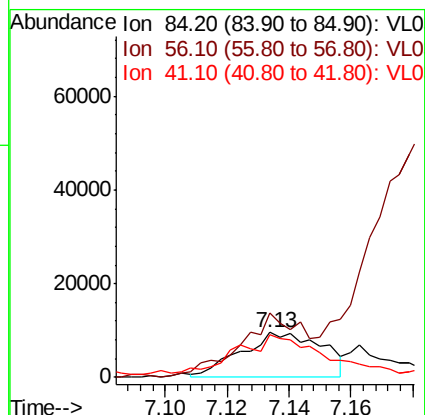
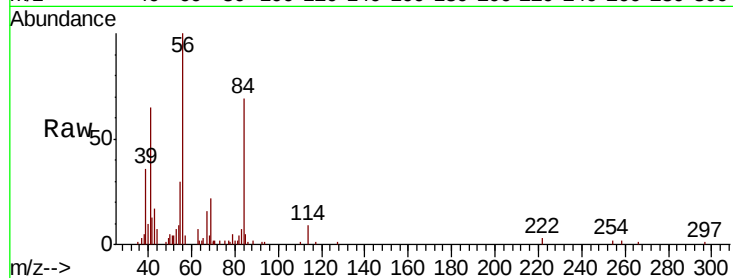




#30
Cyclohexane
Concen: 0.109 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

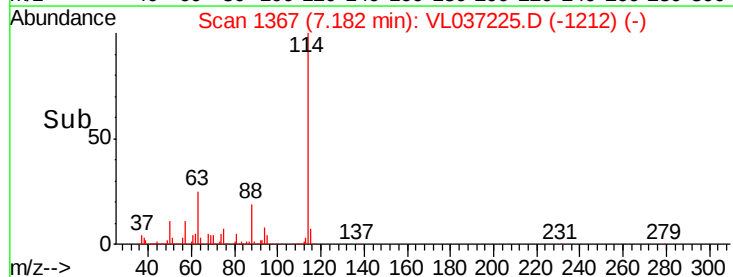
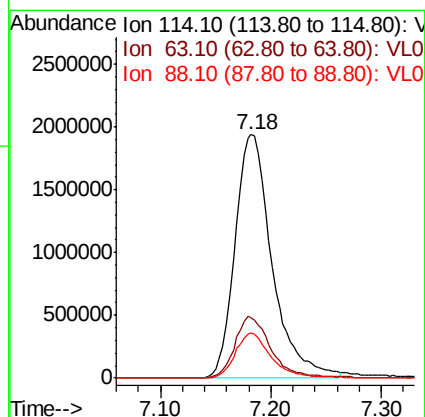
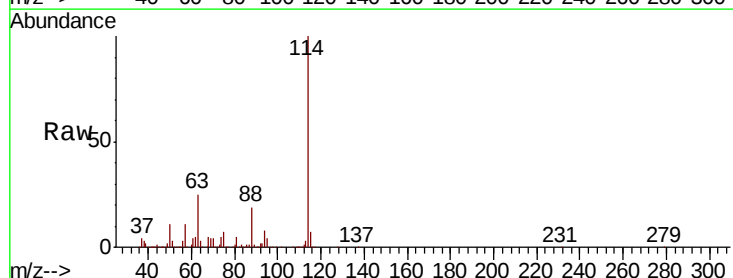
Instrument :
MSVOA_L
ClientSampleId :

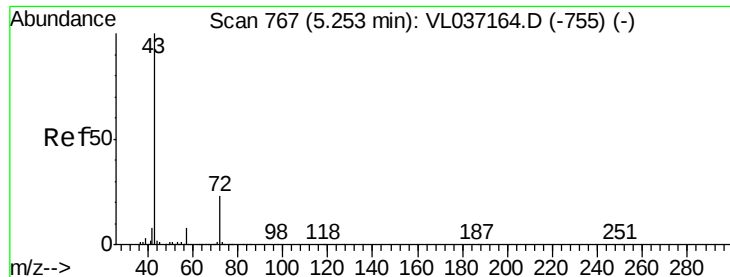
Tot Ion: 84 Resp: 17474
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 115.0 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

Tgt Ion: 114 Resp: 4523558
Ion Ratio Lower Upper
114 100
63 25.1 19.6 29.4
88 18.2 14.2 21.2

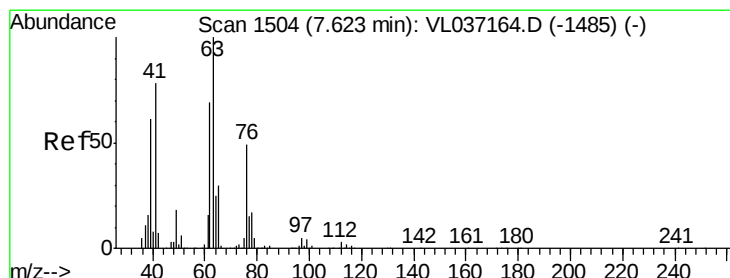
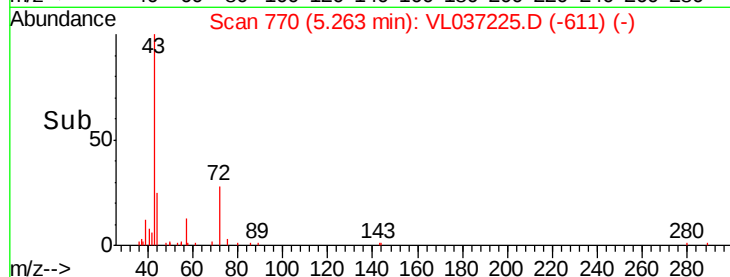
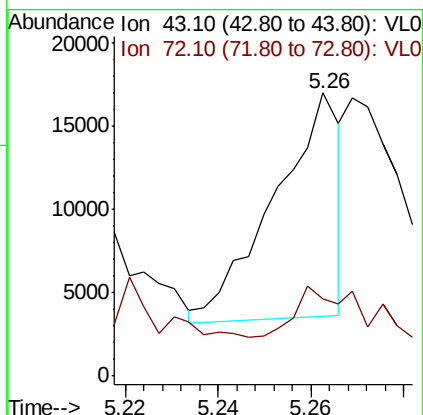
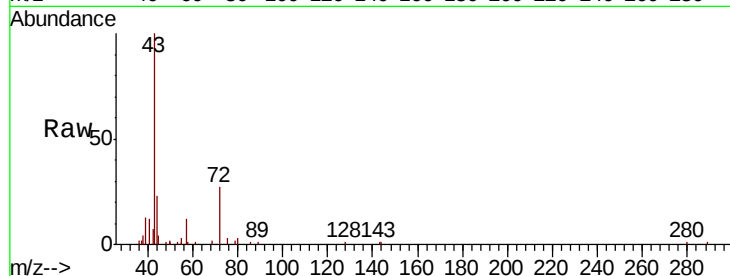




#34
2-Butanone
Concen: 0.075 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

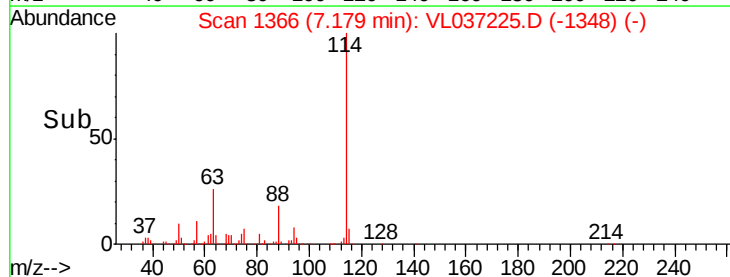
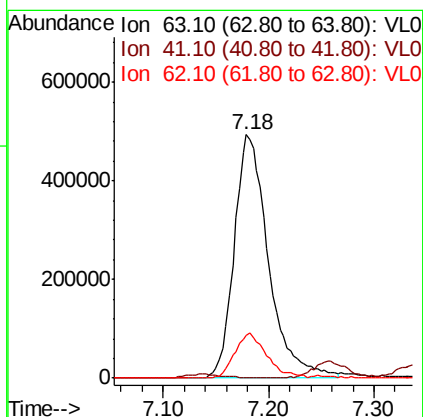
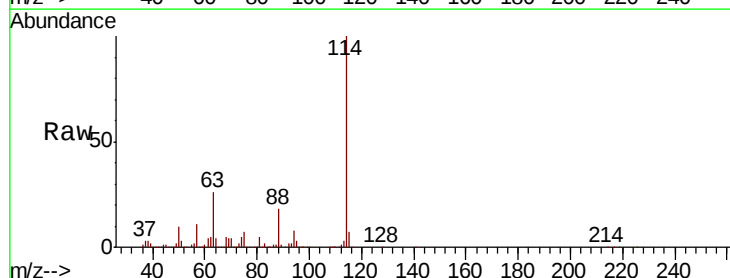
Instrument :
MSVOA_L
ClientSampled :

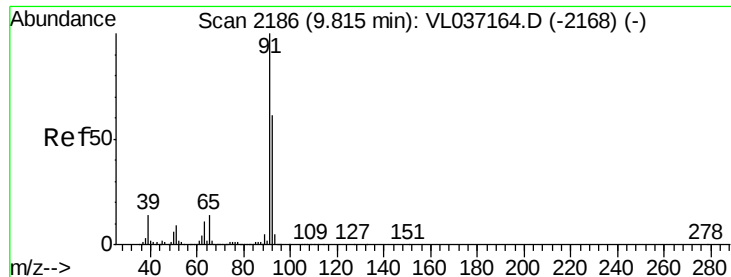
Tot Ion: 43 Resp: 13193
Ion Ratio Lower Upper
43 100
72 96.8 18.9 28.3#



#39
1,2-Dichloropropane
Concen: 8.169 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.44 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

Tgt Ion: 63 Resp: 1110358
Ion Ratio Lower Upper
63 100
41 0.0 62.0 93.0#
62 17.6 54.9 82.3#





#53

Toluene

Concen: 0.118 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL037225.D

Acq: 22 Jun 2021 20:30

Instrument :

MSVOA_L

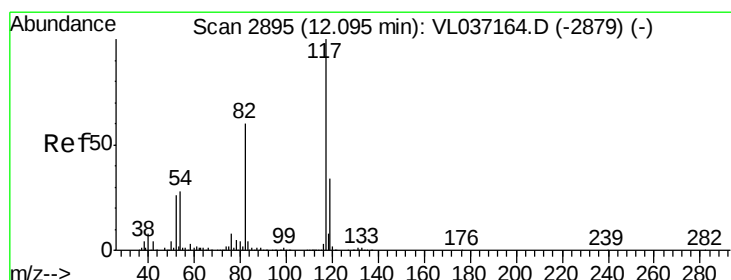
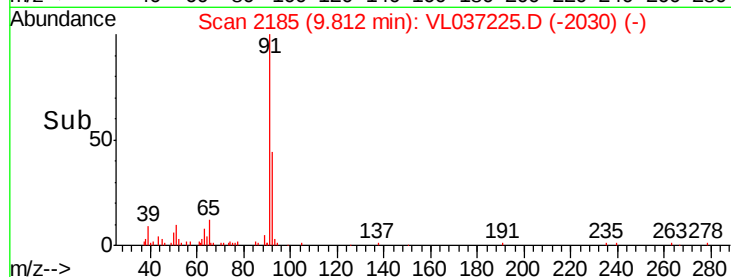
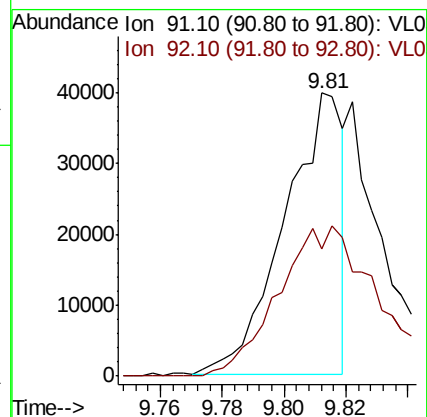
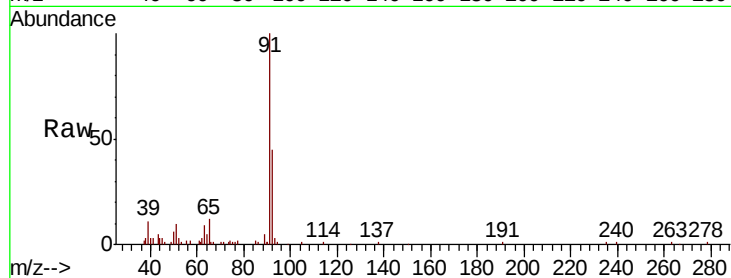
ClientSampleId :

Tot Ion: 91 Resp: 51567

Ion Ratio Lower Upper

91 100

92 95.8 48.3 72.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL037225.D

Acq: 22 Jun 2021 20:30

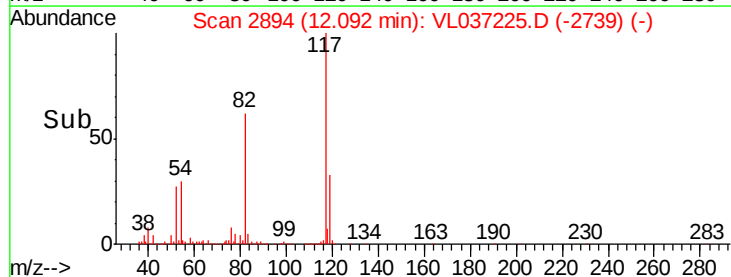
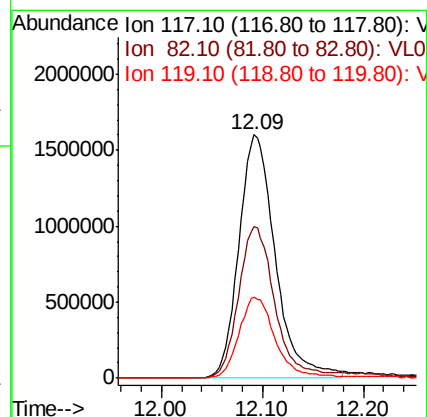
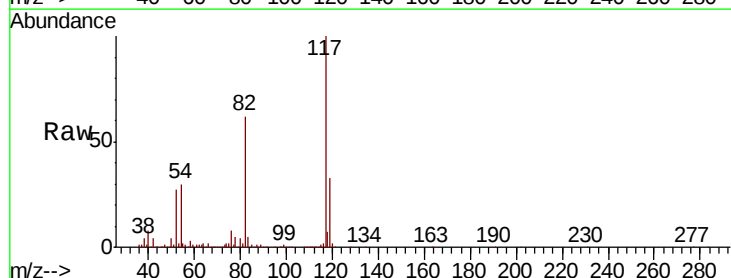
Tgt Ion: 117 Resp: 4022349

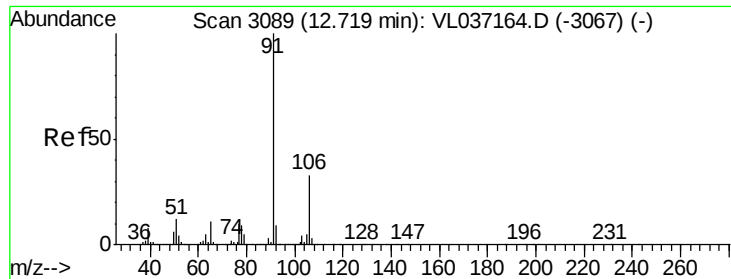
Ion Ratio Lower Upper

117 100

82 65.0 51.7 77.5

119 34.3 47.6 71.4#





#58

Ethyl Benzene

Concen: 0.066 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL037225.D

Acq: 22 Jun 2021 20:30

Instrument :

MSVOA_L

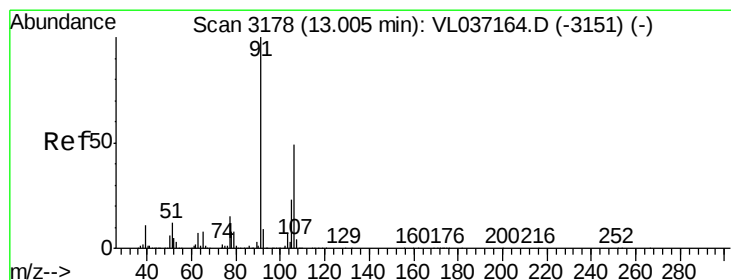
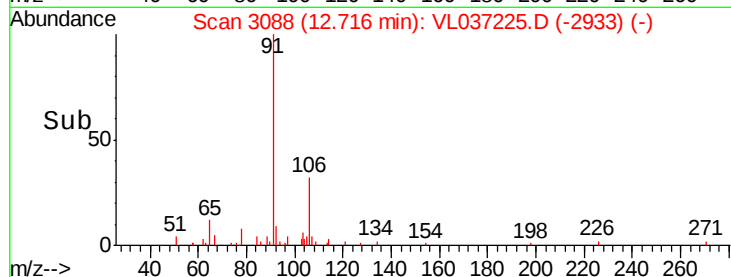
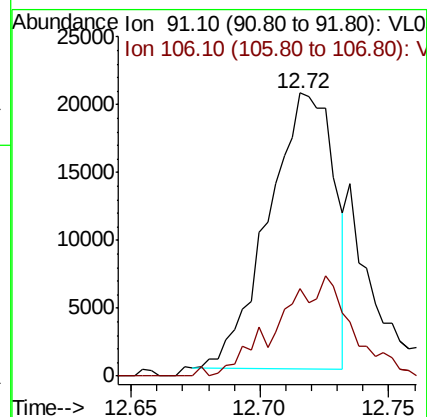
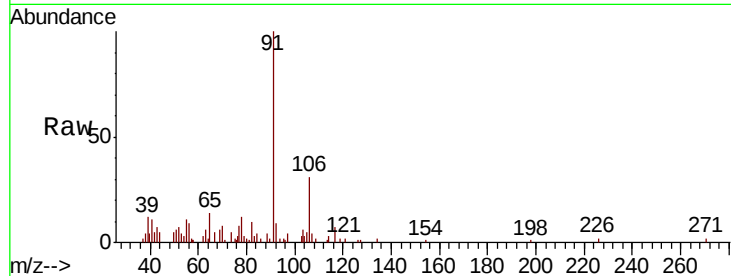
ClientSampleId :

Tot Ion: 91 Resp: 36272

Ion Ratio Lower Upper

91 100

106 32.0 26.3 39.5



#59

m/p-Xylene

Concen: 0.204 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.03 min

Lab File: VL037225.D

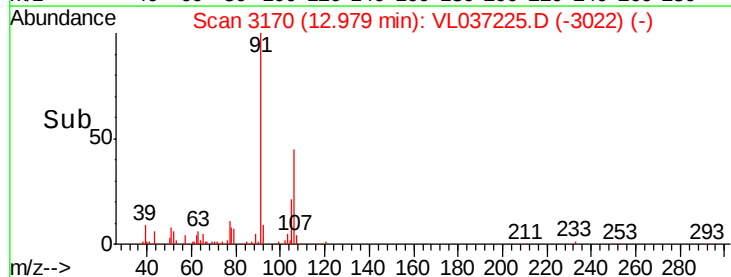
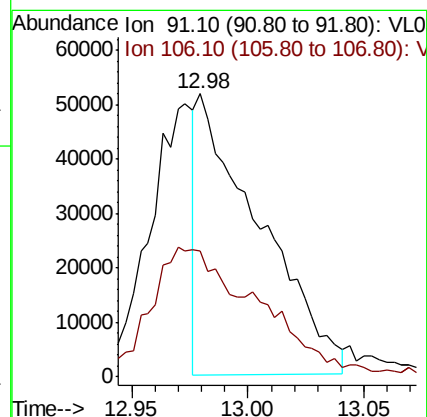
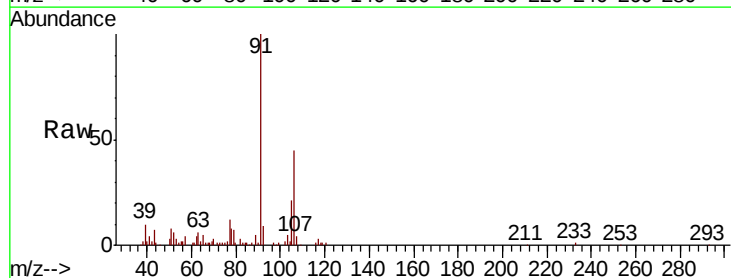
Acq: 22 Jun 2021 20:30

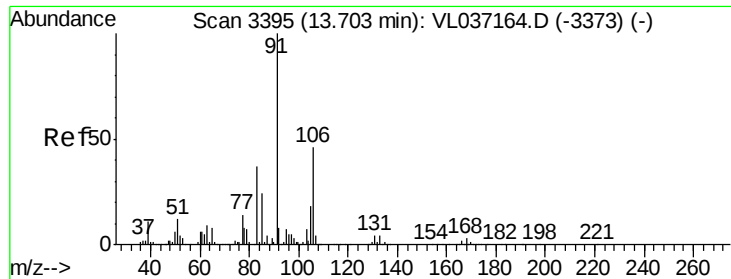
Tgt Ion: 91 Resp: 95797

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.4#

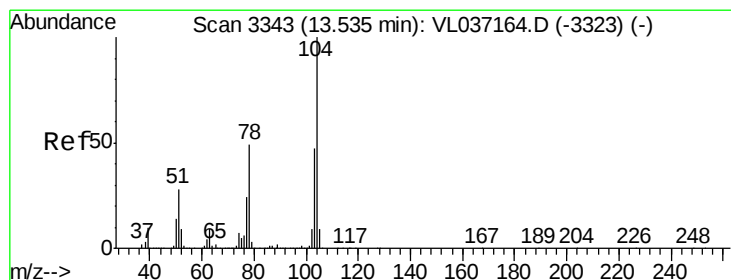
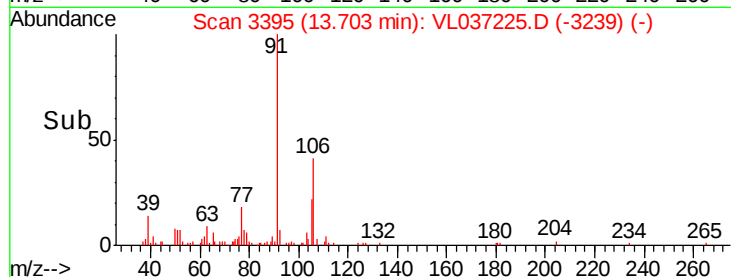
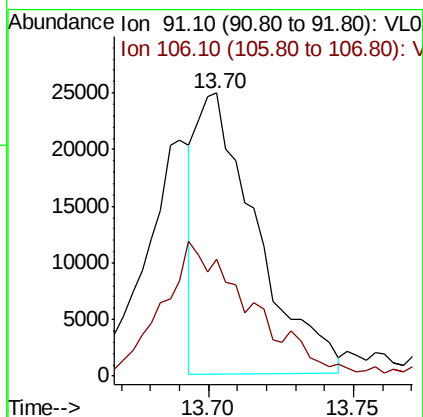
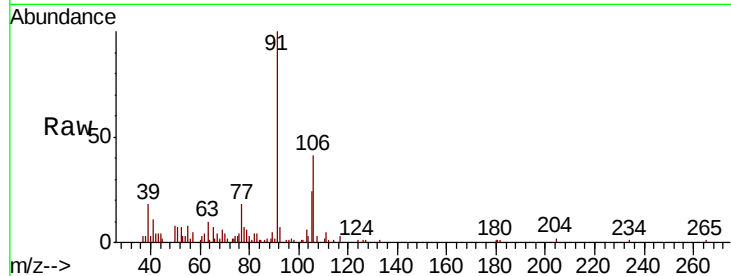




#60
o-Xylene
Concen: 0.080 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

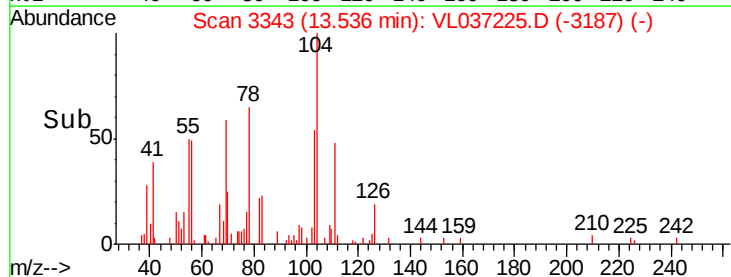
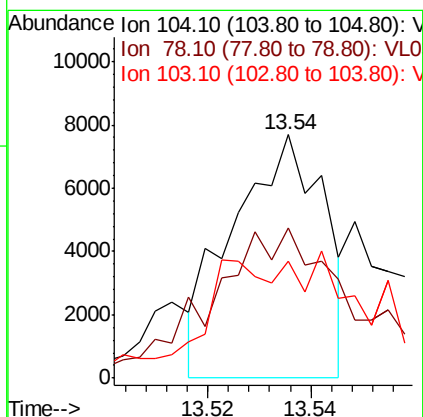
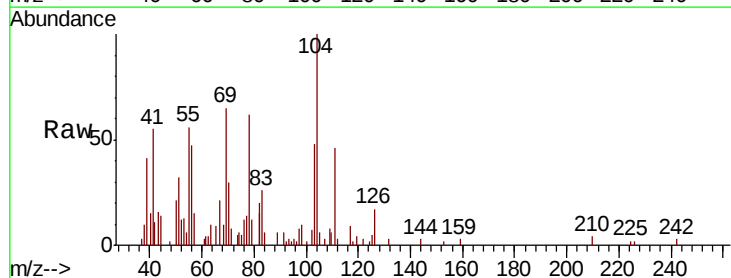
Instrument :
MSVOA_L
ClientSampled :

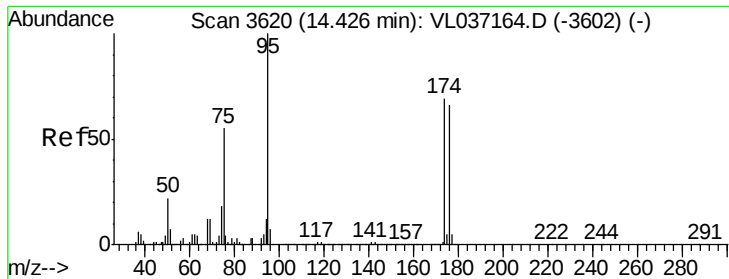
Tot Ion: 91 Resp: 35615
Ion Ratio Lower Upper
91 100
106 0.0 23.0 69.0#



#61
Styrene
Concen: 0.041 ppbv
RT: 13.54 min Scan# 3343
Delta R.T. 0.00 min
Lab File: VL037225.D
Acq: 22 Jun 2021 20:30

Tgt Ion: 104 Resp: 9470
Ion Ratio Lower Upper
104 100
78 109.5 39.7 59.5#
103 0.0 37.6 56.4#

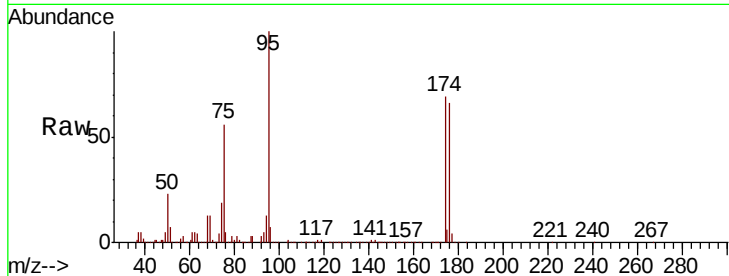




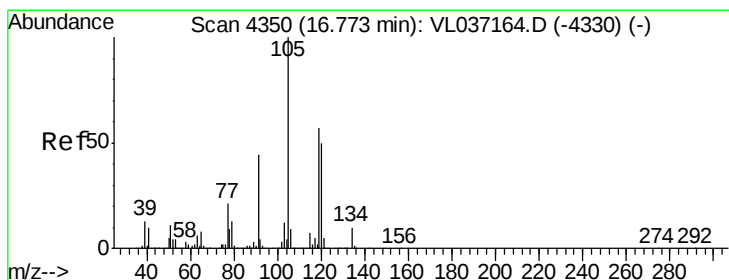
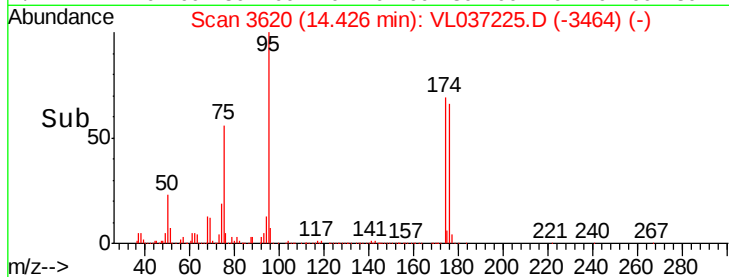
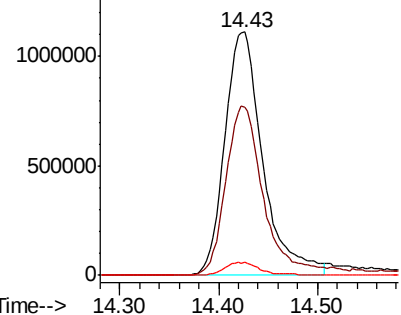
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.760 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T. 0.00 min
 Lab File: VL037225.D
 Acq: 22 Jun 2021 20:30

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2974958
 Ion Ratio Lower Upper
 95 100
 174 73.6 57.0 85.4
 175 5.3 4.4 6.6

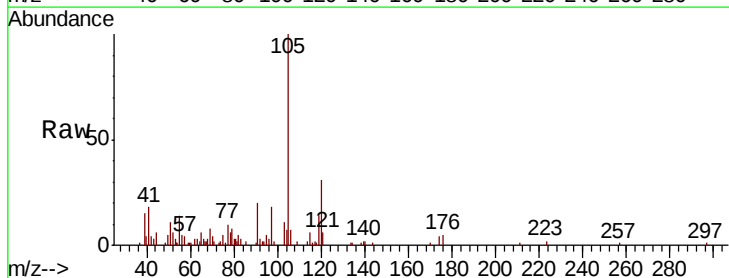


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#74
 1,2,4-Trimethylbenzene
 Concen: 0.043 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.00 min
 Lab File: VL037225.D
 Acq: 22 Jun 2021 20:30

Tgt Ion: 105 Resp: 21943
 Ion Ratio Lower Upper
 105 100
 120 36.0 39.8 59.8#
 91 18.2 37.0 55.4#
 77 6.1 17.0 25.4#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

