

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037330.D
 Acq On : 5 Aug 2021 6:00
 Operator : SY/AP
 Sample : M3211-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 06:37:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 04 22:53:01 2021
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1120910	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3649672	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2979877	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2162285	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

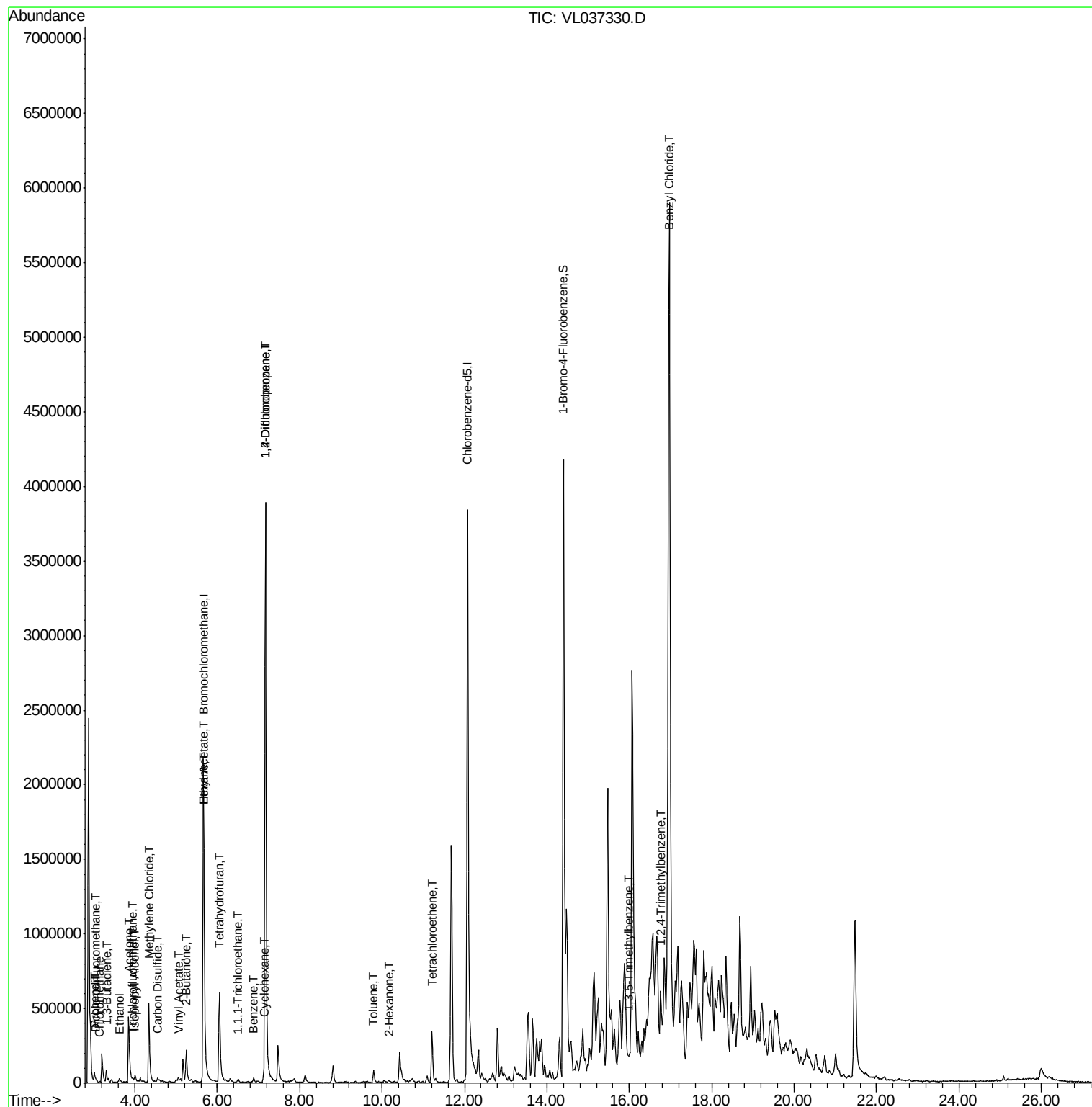
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	14610	0.064	ppbv 94
4) Chloromethane	3.14	50	4725	0.058	ppbv # 85
9) Propene	3.02	41	18407	0.223	ppbv 89
11) Trichlorofluoromethane	3.95	101	6575	0.031	ppbv 98
13) Ethanol	3.62	45	34652	2.792	ppbv 96
15) Acetone	3.85	43	583084	4.789	ppbv 91
16) 1,3-Butadiene	3.32	39	7287	0.093	ppbv # 54
19) Isopropyl Alcohol	3.99	45	8095	0.120	ppbv # 93
20) Methylene Chloride	4.34	84	242534	2.406	ppbv 96
23) Vinyl Acetate	5.06	43	9236	0.050	ppbv # 44
25) Ethyl Acetate	5.68	43	100004	0.316	ppbv # 77
26) Hexane	5.68	57	137849	0.778	ppbv # 48
27) Carbon Disulfide	4.55	76	34956	0.242	ppbv # 75
30) Cyclohexane	7.12	84	14144	0.104	ppbv # 17
32) 1,1,1-Trichloroethane	6.50	97	7327	0.034	ppbv # 89
34) 2-Butanone	5.24	43	298113	2.354	ppbv 96
36) Benzene	6.88	78	13591	0.041	ppbv 94
39) 1,2-Dichloropropane	7.17	63	783895	6.409	ppbv # 30
41) Tetrahydrofuran	6.05	42	451594	6.412	ppbv 97
51) 2-Hexanone	10.16	43	10022	0.114	ppbv # 46
52) Tetrachloroethene	11.21	164	99012	0.700	ppbv 91
53) Toluene	9.80	91	60739	0.157	ppbv 87
66) Benzyl Chloride	16.99	91	903	0.052	ppbv # 1
73) 1,3,5-Trimethylbenzene	15.99	105	14627	0.040	ppbv # 82
74) 1,2,4-Trimethylbenzene	16.75	105	15461	0.040	ppbv # 67

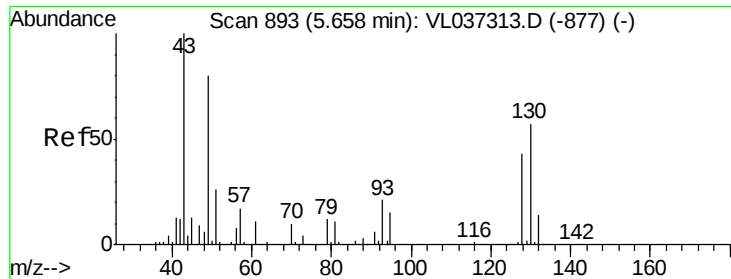
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080421\
Data File : VL037330.D
Acq On : 5 Aug 2021 6:00
Operator : SY/AP
Sample : M3211-02DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Aug 05 06:37:26 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 04 22:53:01 2021
QLast Update : Wed Aug 04 22:53:01 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

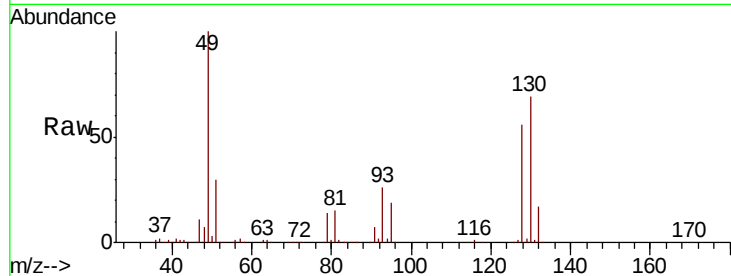
Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1120910

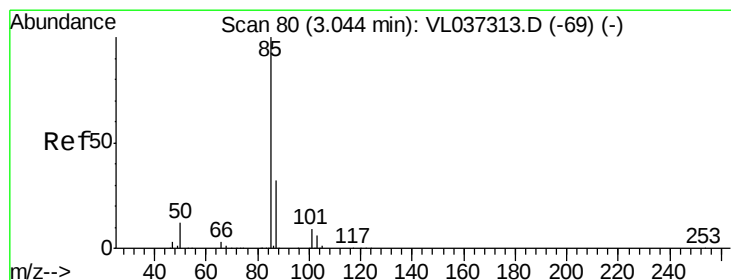
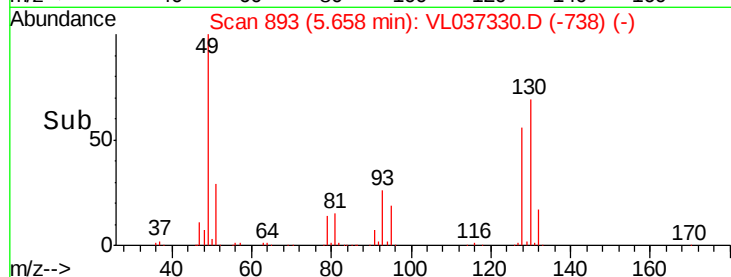
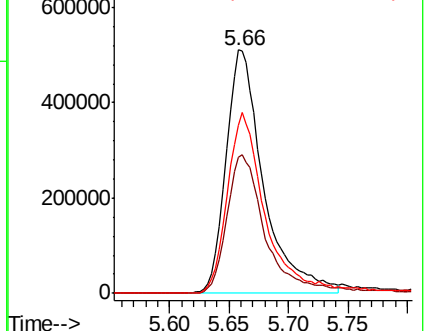
Ion	Ratio	Lower	Upper
49	100		
128	60.2	29.8	89.5
130	78.2	37.5	112.7



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



#2

Dichlorodifluoromethane

Concen: 0.064 ppbv

RT: 3.05 min Scan# 81

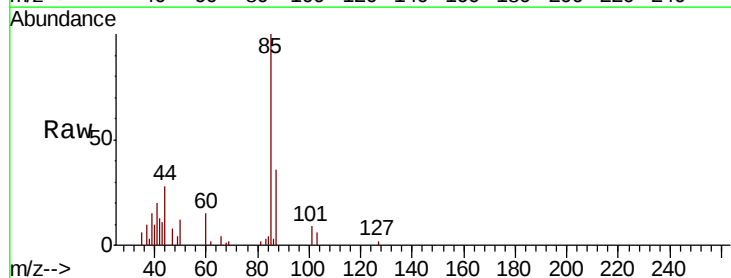
Delta R.T. 0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

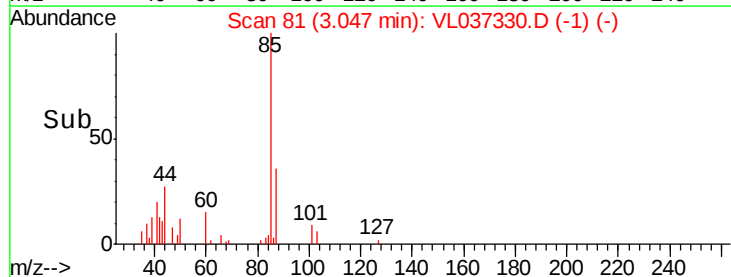
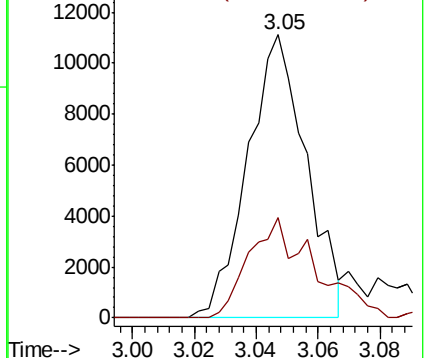
Tgt Ion: 85 Resp: 14610

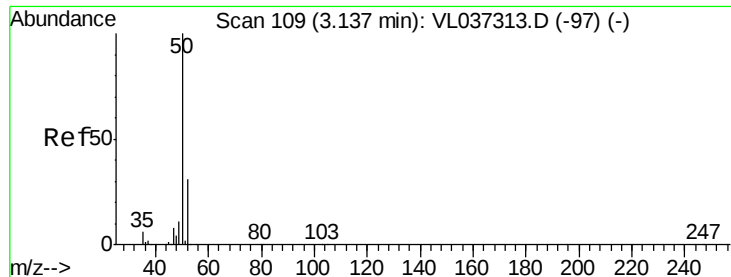
Ion	Ratio	Lower	Upper
85	100		
87	35.5	25.5	38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

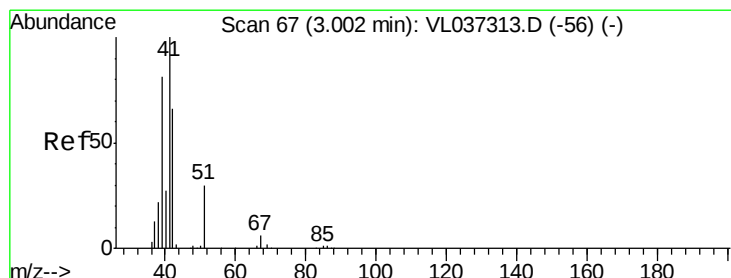
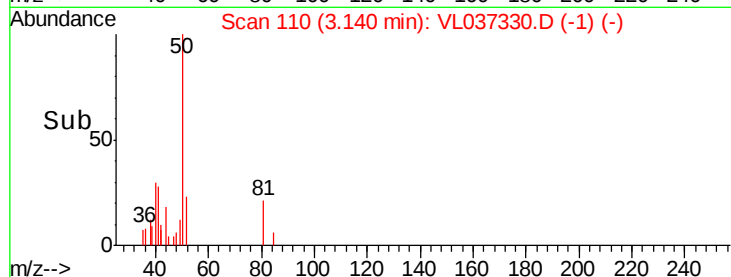
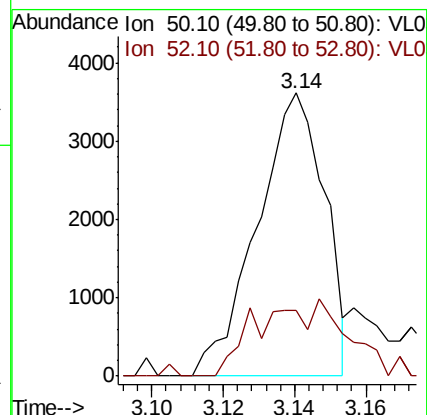
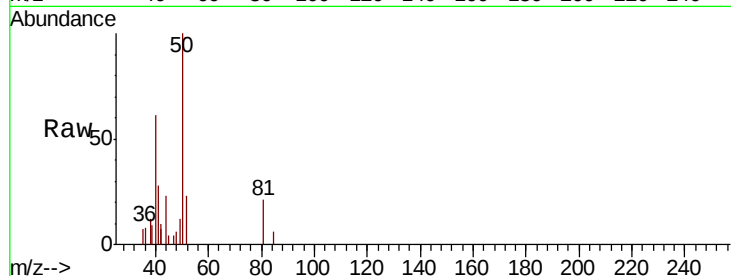
ClientSampled :

Tot Ion: 50 Resp: 4725

Ion Ratio Lower Upper

50 100

52 23.2 25.1 37.7#



#9

Propene

Concen: 0.223 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037330.D

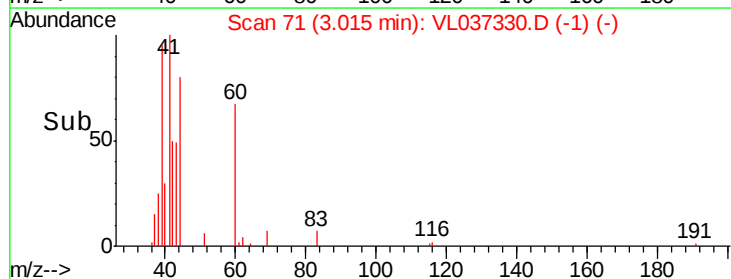
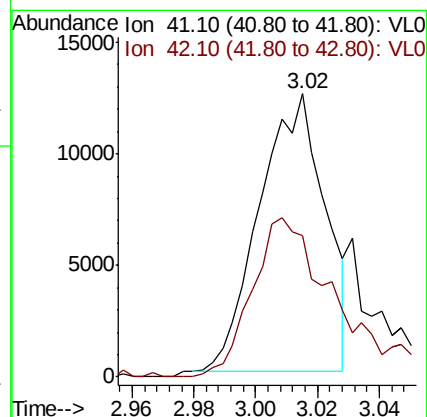
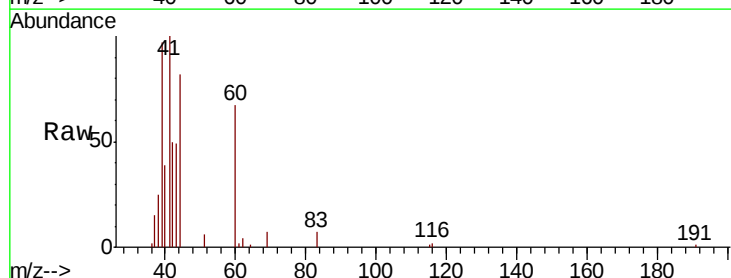
Acq: 5 Aug 2021 6:00

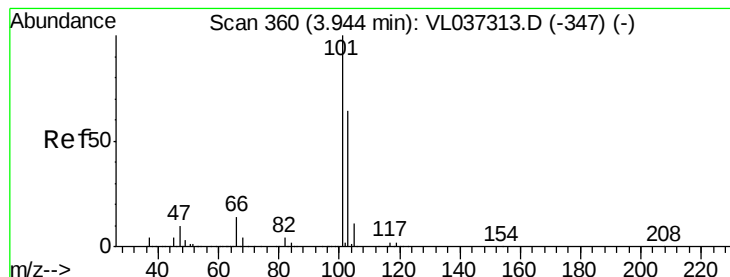
Tgt Ion: 41 Resp: 18407

Ion Ratio Lower Upper

41 100

42 76.3 53.8 80.8





#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

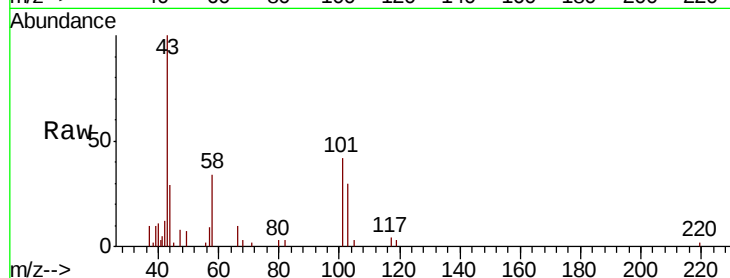
ClientSampleId :

Tot Ion:101 Resp: 6575

Ion Ratio Lower Upper

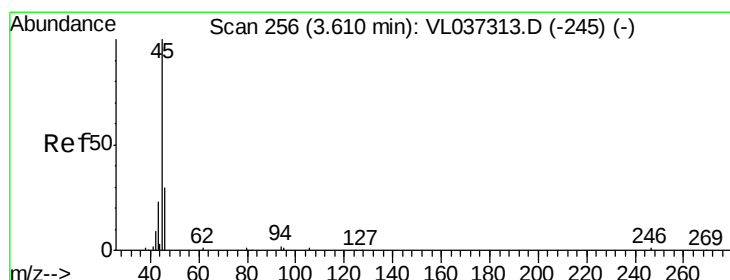
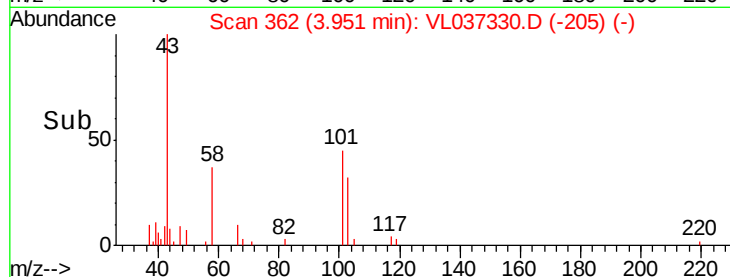
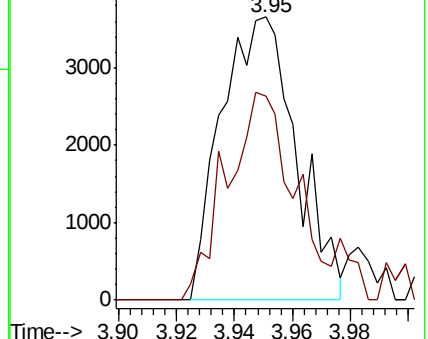
101 100

103 66.1 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 2.792 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL037330.D

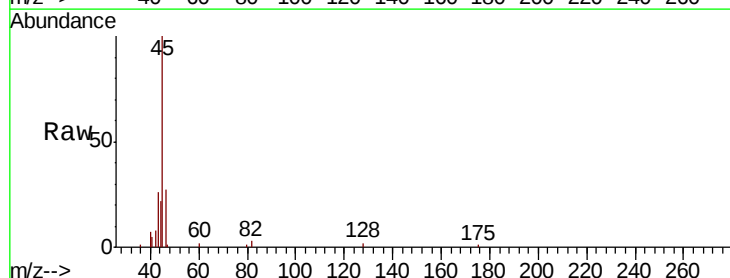
Acq: 5 Aug 2021 6:00

Tgt Ion: 45 Resp: 34652

Ion Ratio Lower Upper

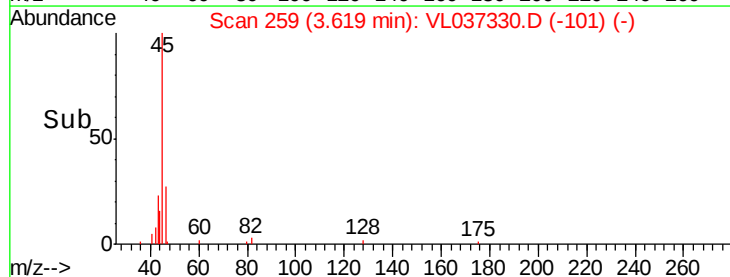
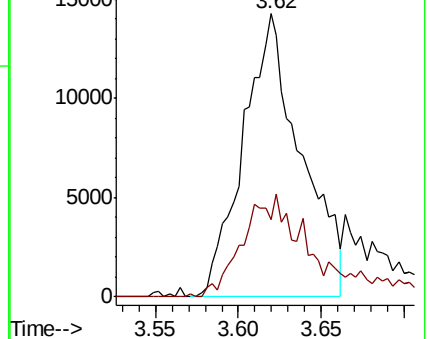
45 100

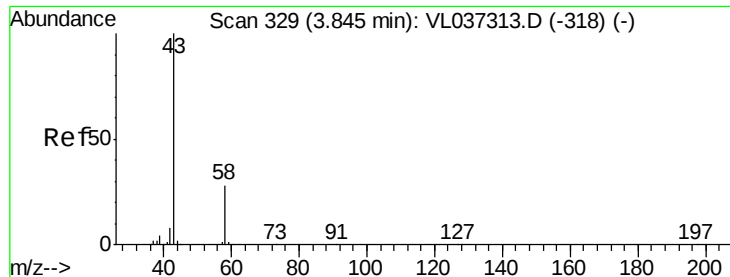
46 44.0 16.6 66.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.789 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

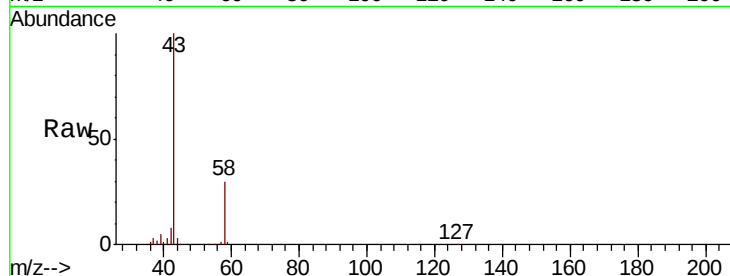
ClientSampleId :

Tot Ion: 43 Resp: 583084

Ion Ratio Lower Upper

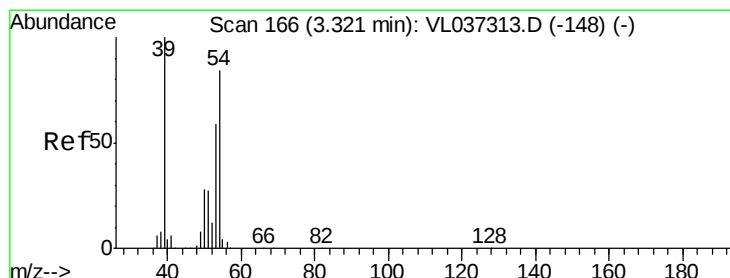
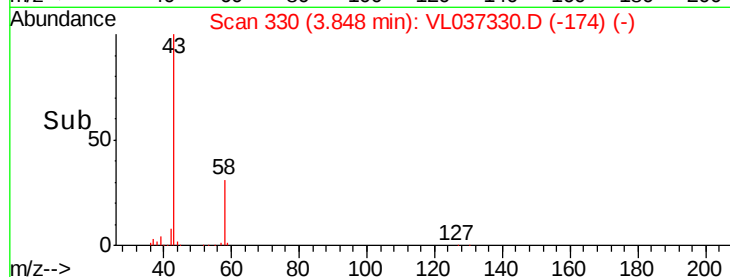
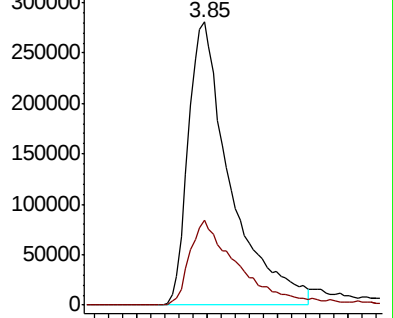
43 100

58 36.7 25.3 37.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.093 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL037330.D

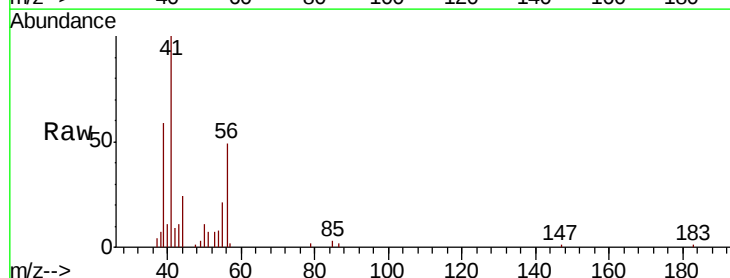
Acq: 5 Aug 2021 6:00

Tgt Ion: 39 Resp: 7287

Ion Ratio Lower Upper

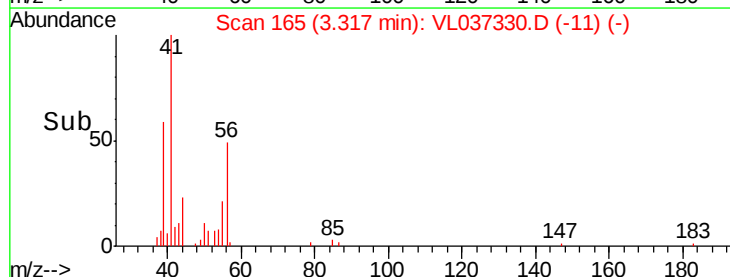
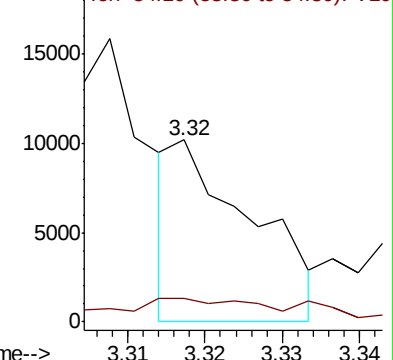
39 100

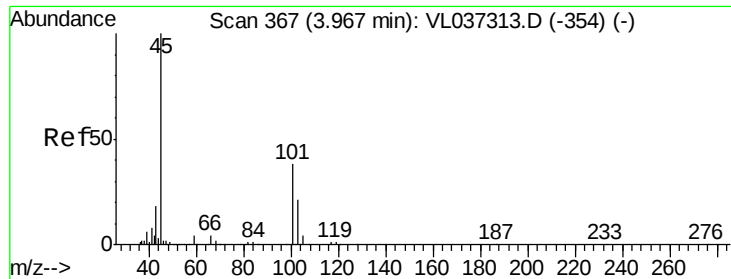
54 41.0 66.1 99.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

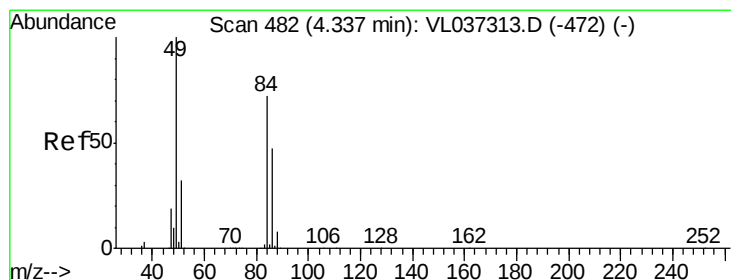
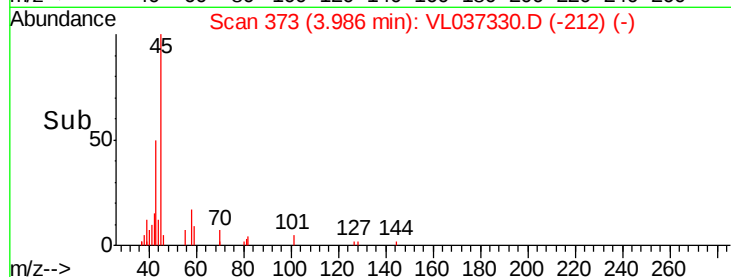
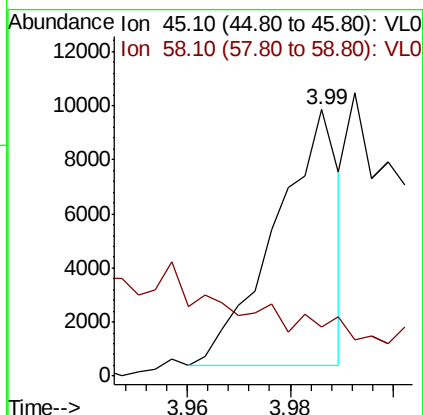
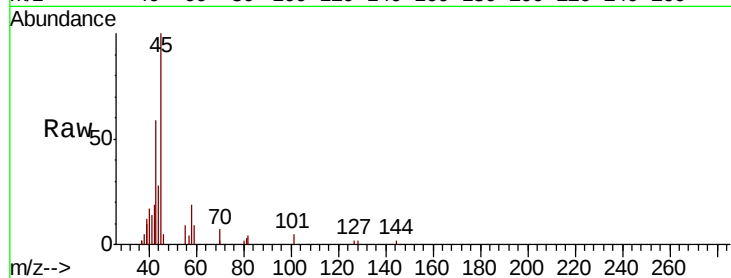




#19
Isopropyl Alcohol
Concen: 0.120 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

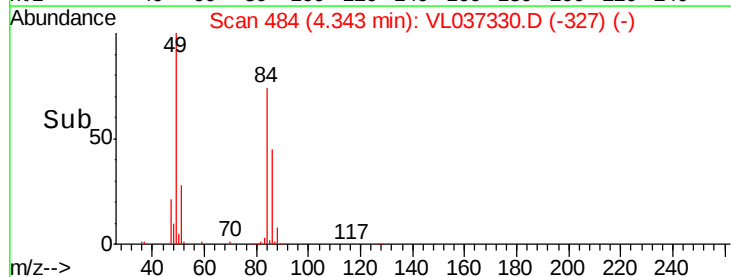
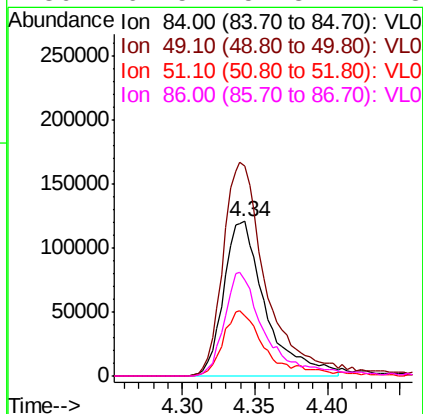
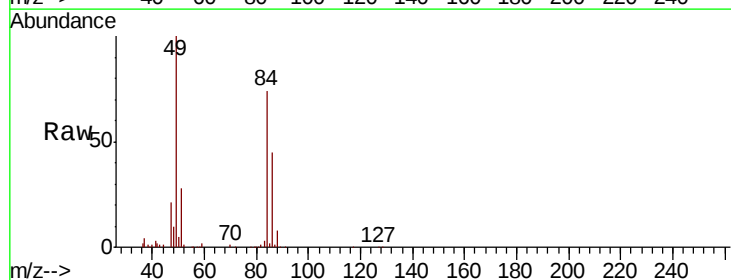
Instrument :
MSVOA_L
ClientSampled :

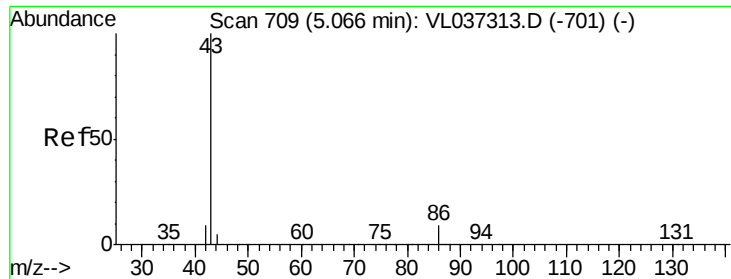
Tot Ion: 45 Resp: 8095
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8#



#20
Methylene Chloride
Concen: 2.406 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.01 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion: 84 Resp: 242534
Ion Ratio Lower Upper
84 100
49 135.7 110.4 165.6
51 38.6 35.8 53.6
86 61.5 51.8 77.8





#23

Vinyl Acetate

Concen: 0.050 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 9236

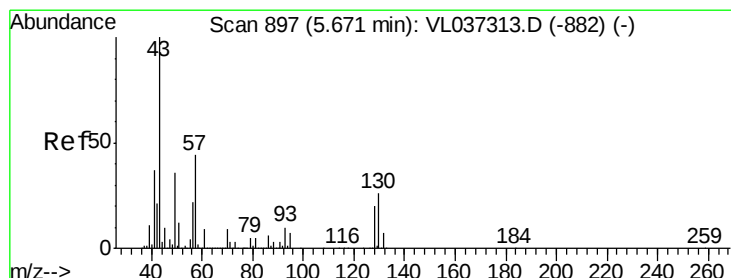
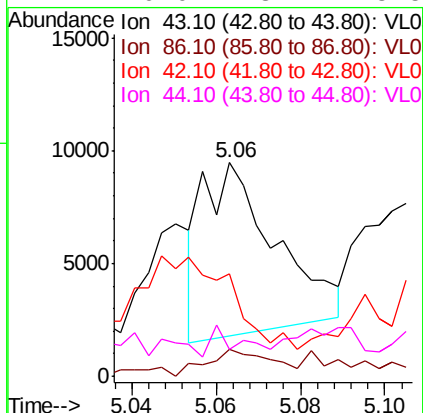
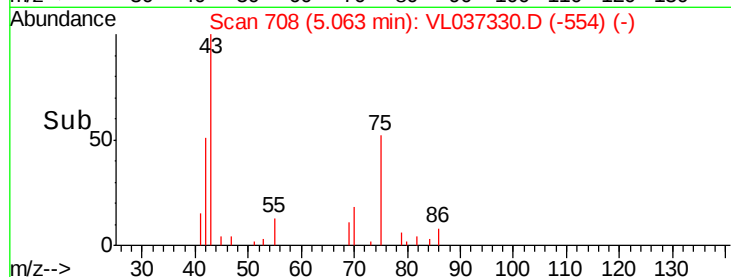
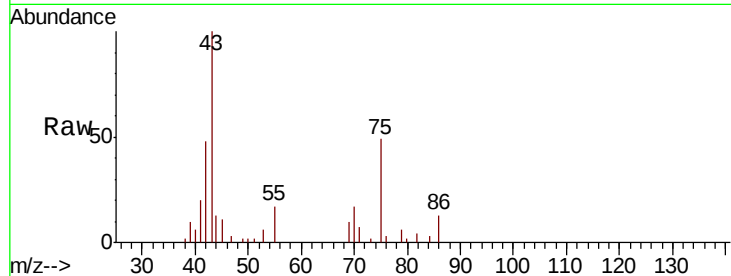
Ion Ratio Lower Upper

43 100

86 11.3 6.2 9.2#

42 50.6 7.7 11.5#

44 0.0 3.7 5.5#



#25

Ethyl Acetate

Concen: 0.316 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Tgt Ion: 43 Resp: 100004

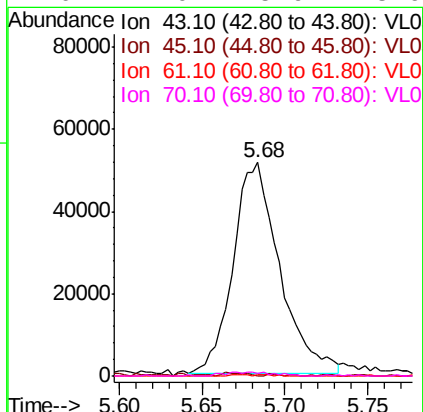
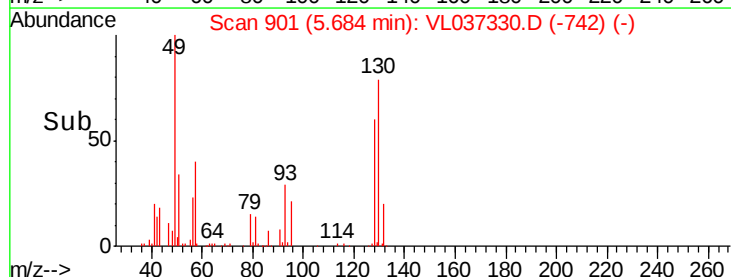
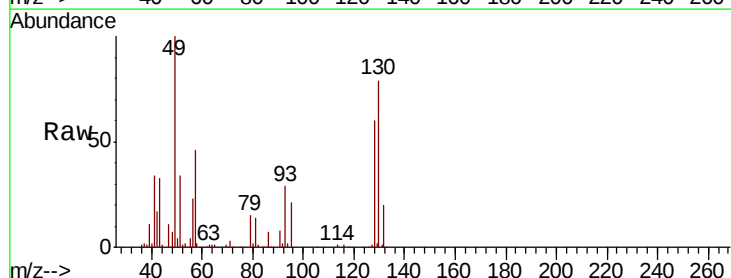
Ion Ratio Lower Upper

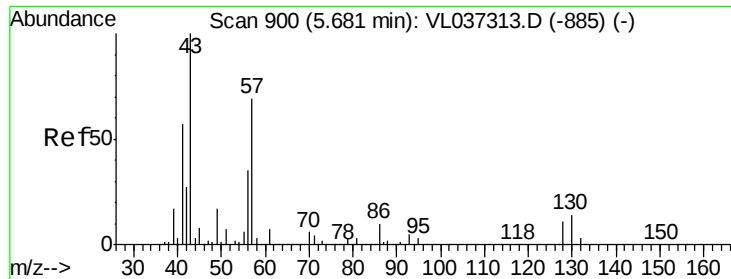
43 100

45 1.4 7.8 11.8#

61 0.5 8.6 12.8#

70 2.0 5.9 8.9#

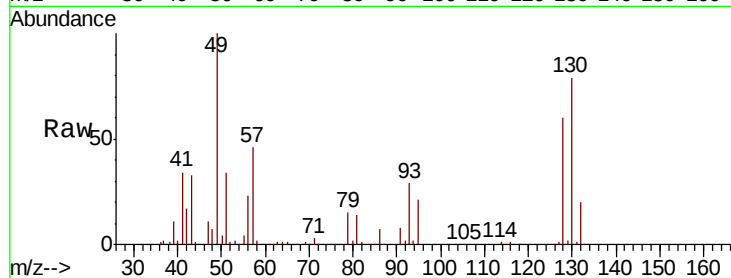




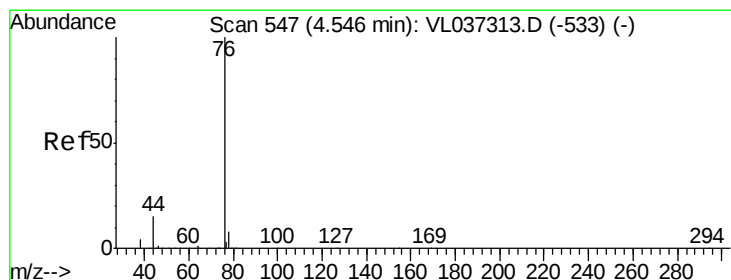
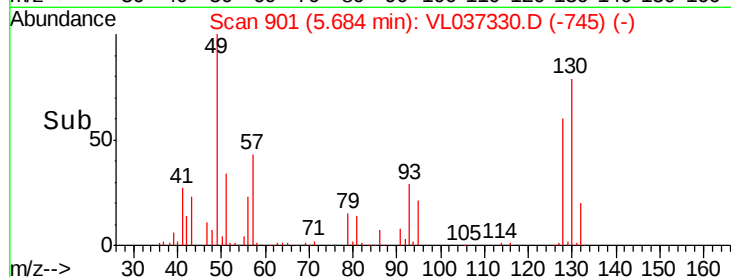
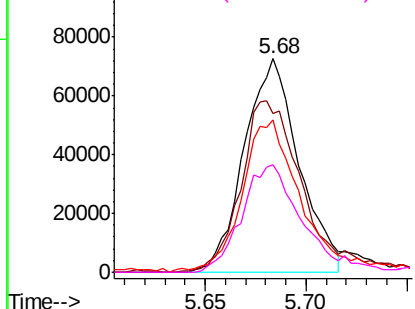
#26
Hexane
Concen: 0.778 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 137849
Ion Ratio Lower Upper
57 100
41 92.8 67.5 101.3
43 79.0 163.0 244.4#
56 57.9 41.5 62.3

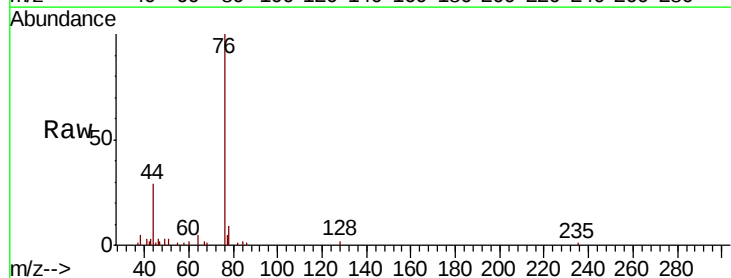


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

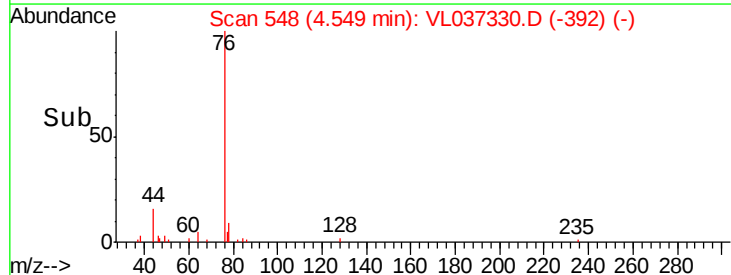
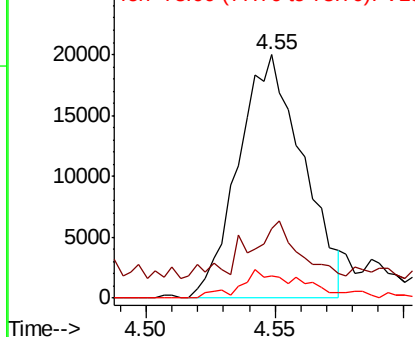


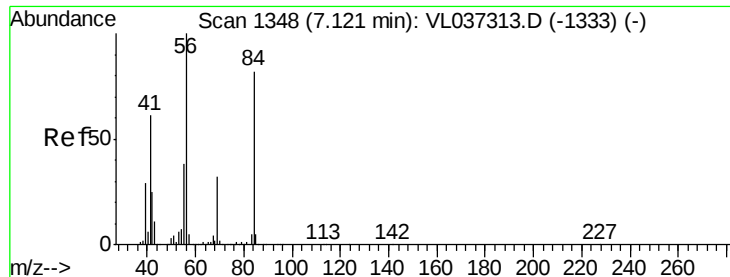
#27
Carbon Disulfide
Concen: 0.242 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion: 76 Resp: 34956
Ion Ratio Lower Upper
76 100
44 32.7 13.1 19.7#
78 11.8 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

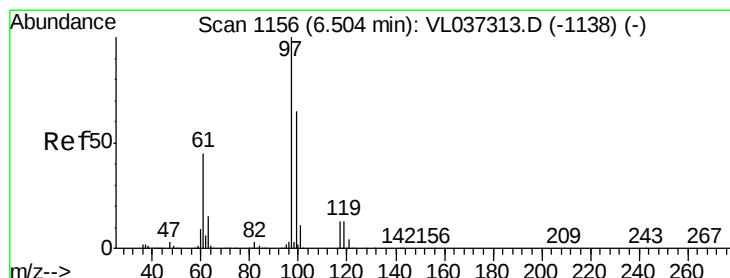
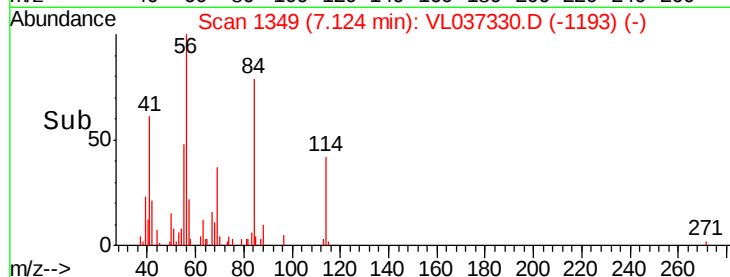
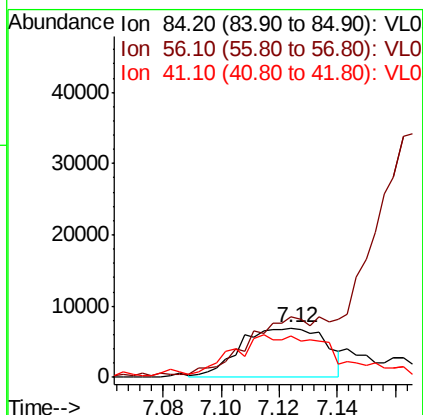
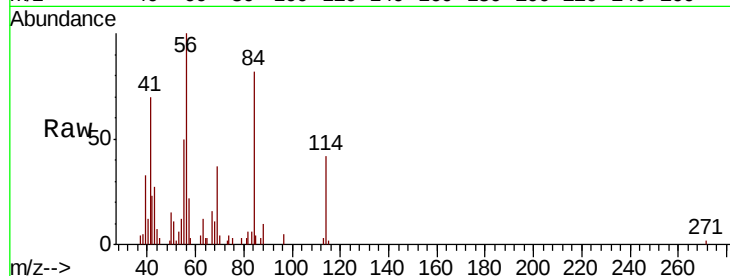




#30
Cvclohexane
Concen: 0.104 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

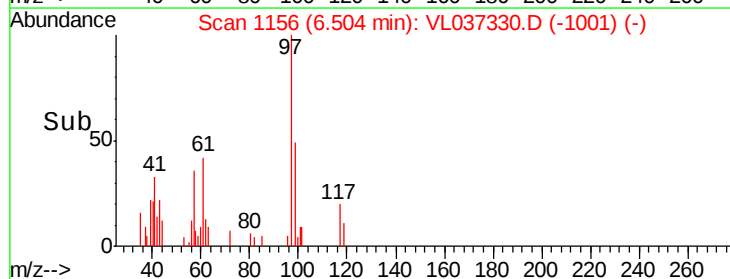
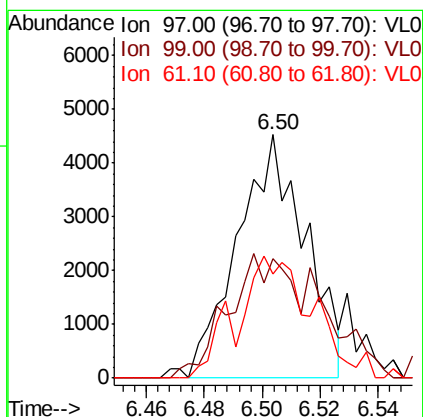
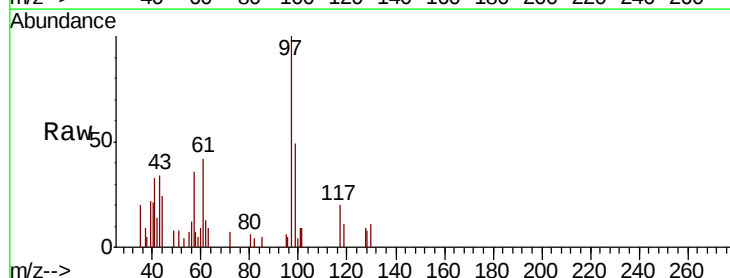
Instrument :
MSVOA_L
ClientSampleId :

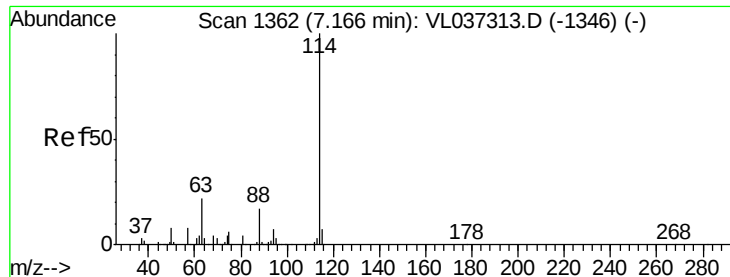
Tot Ion: 84 Resp: 14144
Ion Ratio Lower Upper
84 100
56 0.0 105.2 157.8#
41 104.2 61.3 91.9#



#32
1,1,1-Trichloroethane
Concen: 0.034 ppbv
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion: 97 Resp: 7327
Ion Ratio Lower Upper
97 100
99 72.0 52.3 78.5
61 56.1 37.2 55.8#

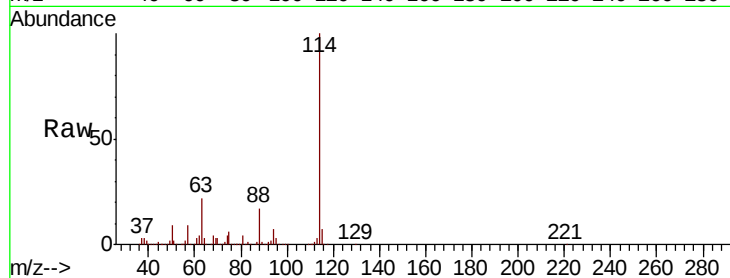




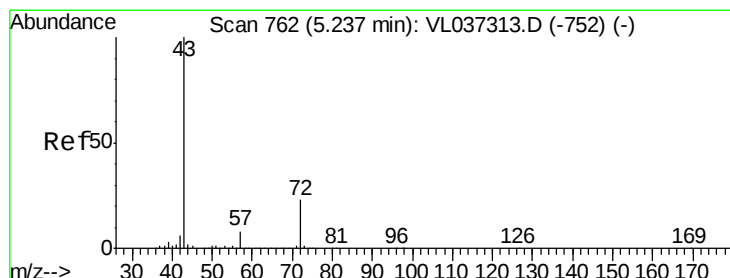
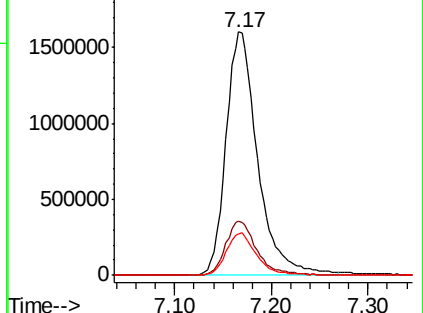
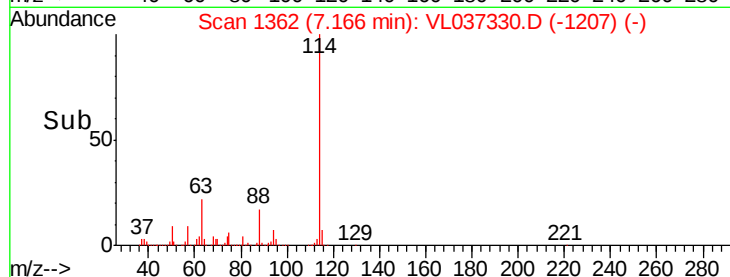
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3649672
 Ion Ratio Lower Upper
 114 100
 63 22.3 18.1 27.1
 88 17.1 13.8 20.8

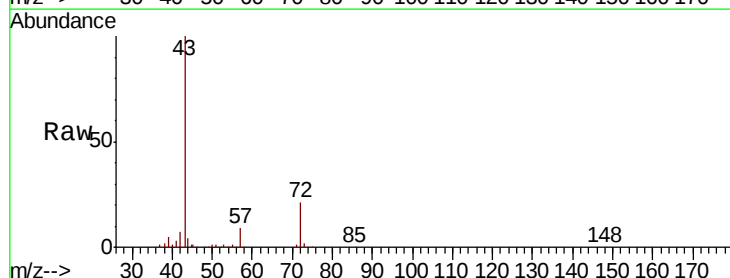


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

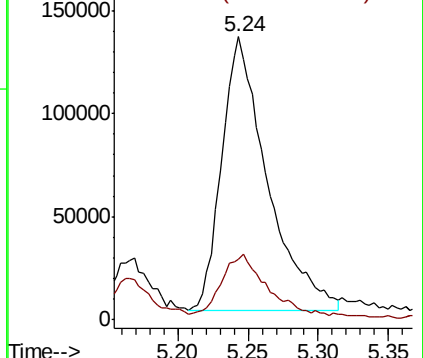
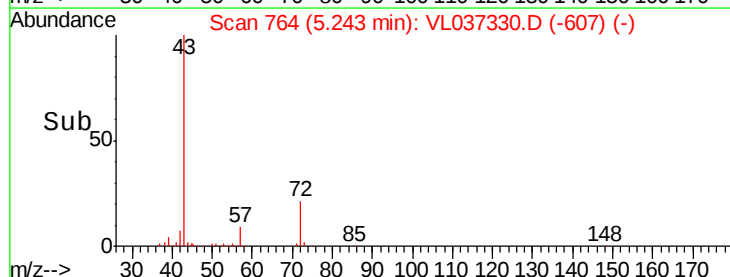


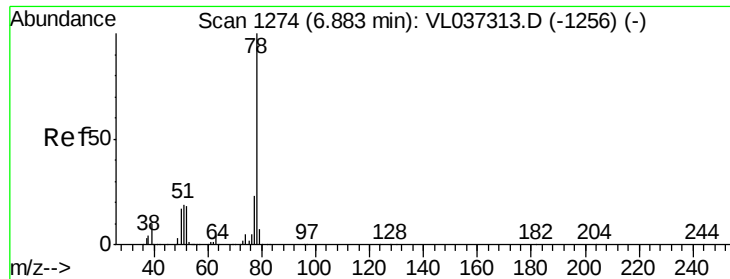
#34
 2-Butanone
 Concen: 2.354 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Tgt Ion: 43 Resp: 298113
 Ion Ratio Lower Upper
 43 100
 72 27.5 20.3 30.5



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

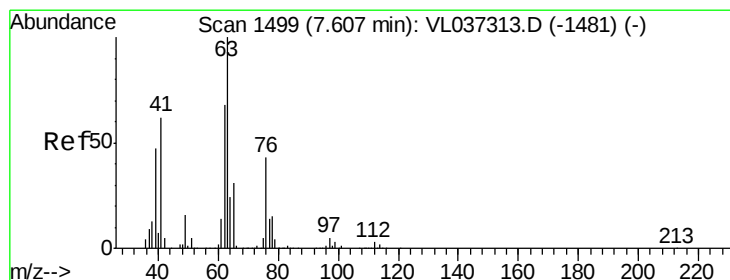
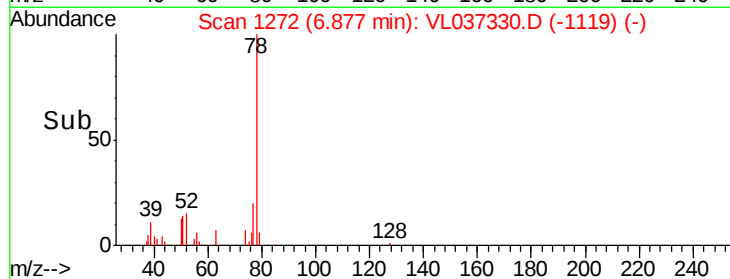
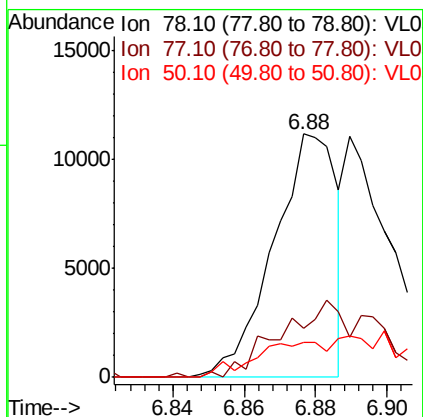
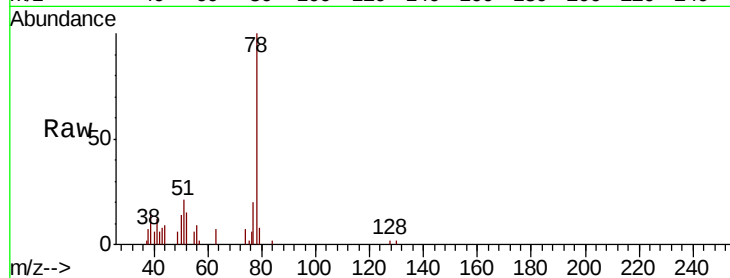




#36
Benzene
Concen: 0.041 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.01 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

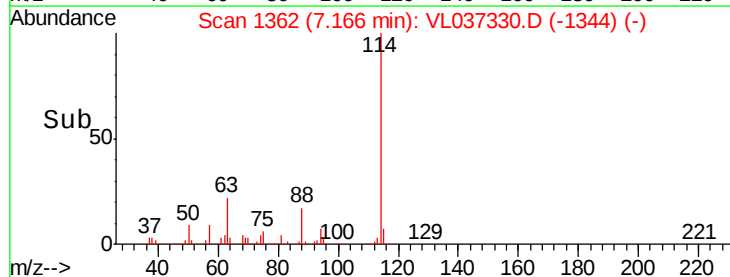
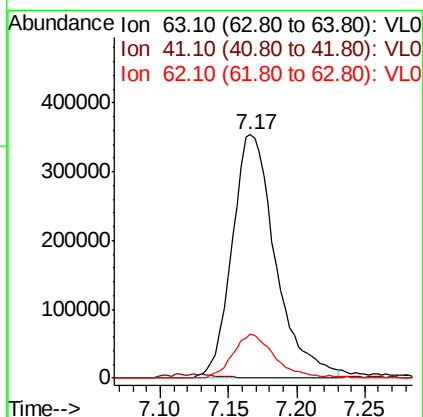
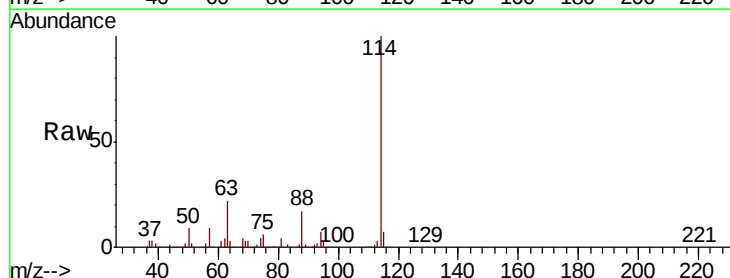
Instrument :
MSVOA_L
ClientSampled :

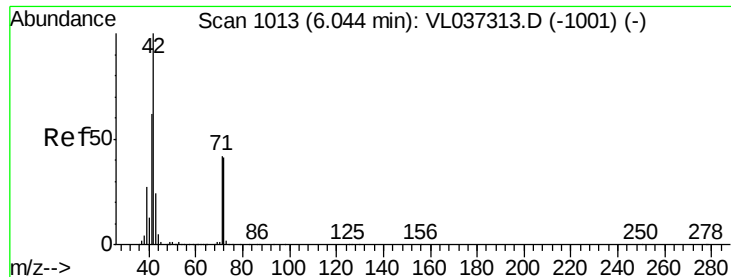
Tot Ion: 78 Resp: 13591
Ion Ratio Lower Upper
78 100
77 20.3 18.7 28.1
50 14.4 13.7 20.5



#39
1,2-Dichloropropane
Concen: 6.409 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.44 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion: 63 Resp: 783895
Ion Ratio Lower Upper
63 100
41 0.0 49.2 73.8#
62 18.1 54.2 81.4#

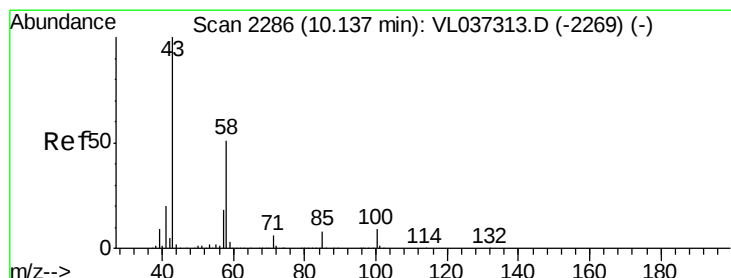
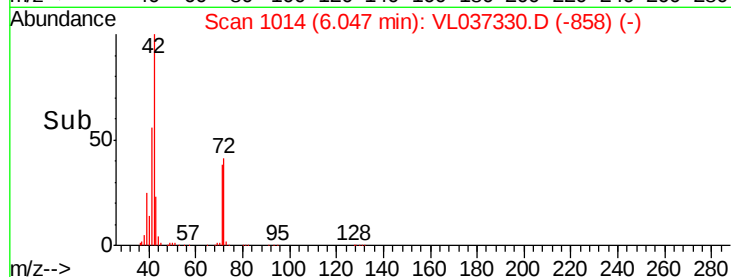
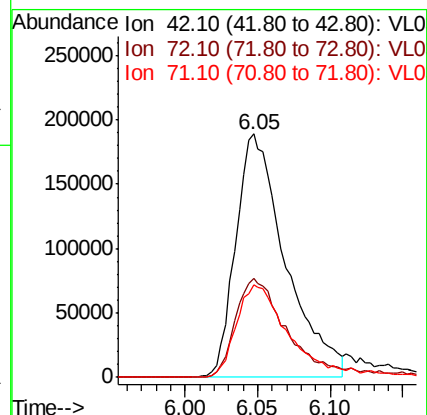
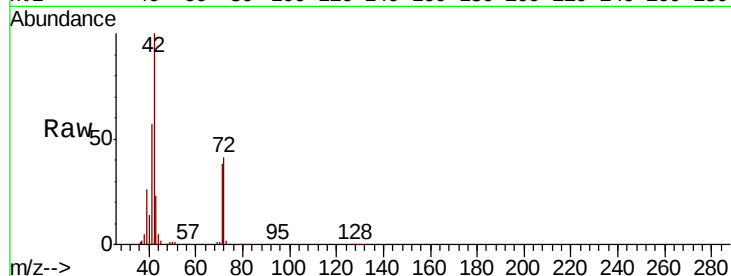




#41
Tetrahydrofuran
Concen: 6.412 ppbv
RT: 6.05 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

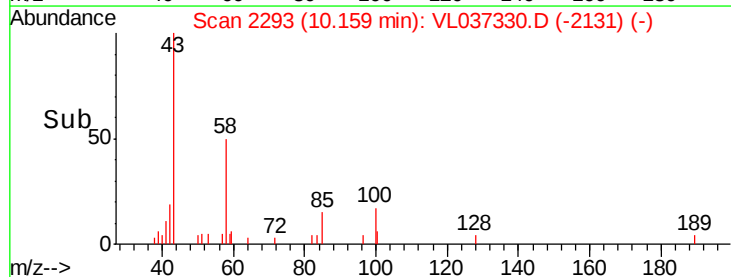
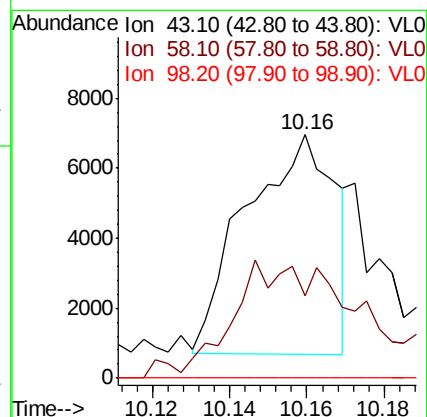
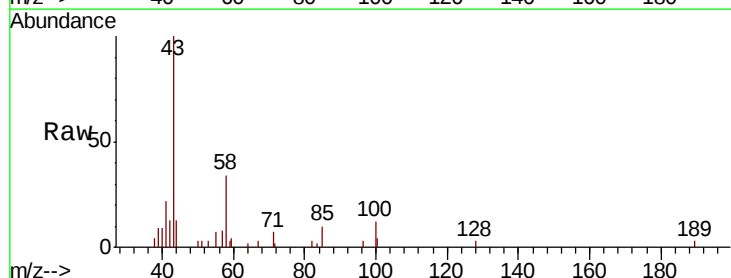
Instrument :
MSVOA_L
ClientSampleId :

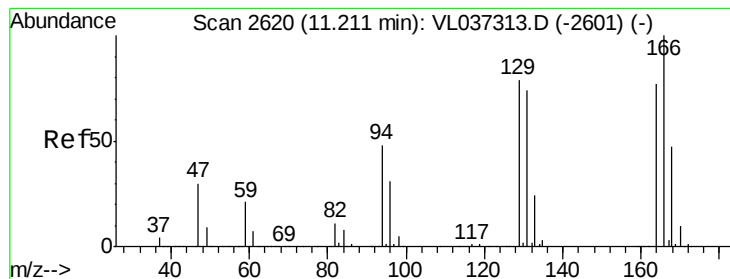
Tot Ion: 42 Resp: 451594
Ion Ratio Lower Upper
42 100
72 44.9 33.6 50.4
71 41.9 33.0 49.4



#51
2-Hexanone
Concen: 0.114 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.02 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion: 43 Resp: 10022
Ion Ratio Lower Upper
43 100
58 88.5 40.9 61.3#
98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.700 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 99012

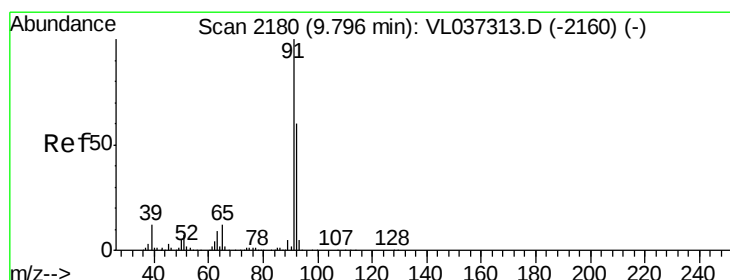
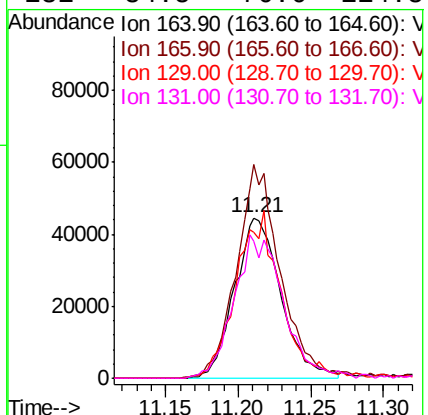
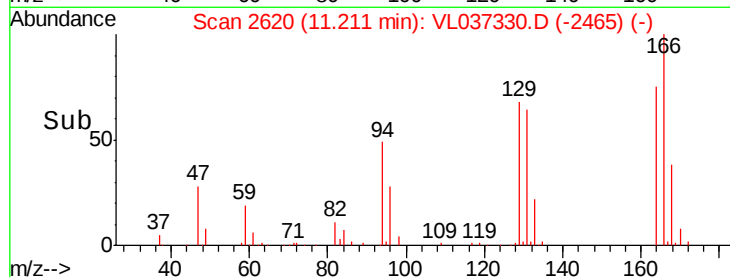
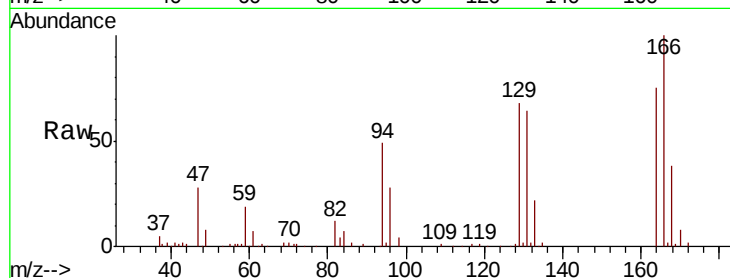
Ion Ratio Lower Upper

164 100

166 132.9 103.4 155.2

129 89.9 82.2 123.2

131 84.5 76.6 114.8



#53

Toluene

Concen: 0.157 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL037330.D

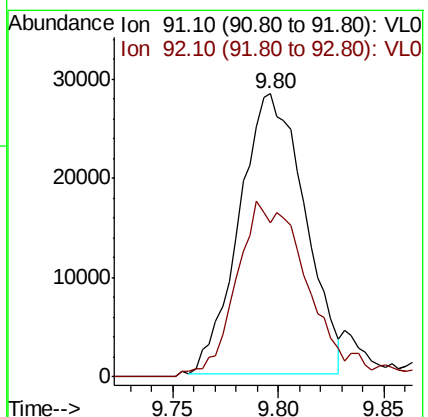
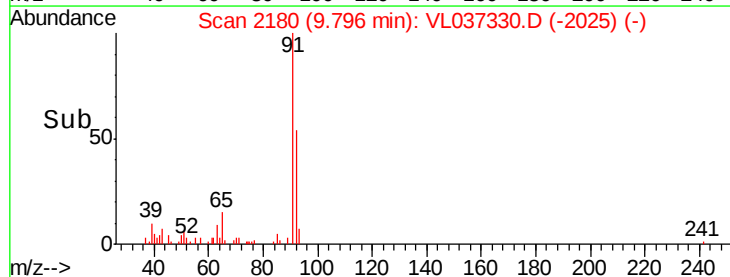
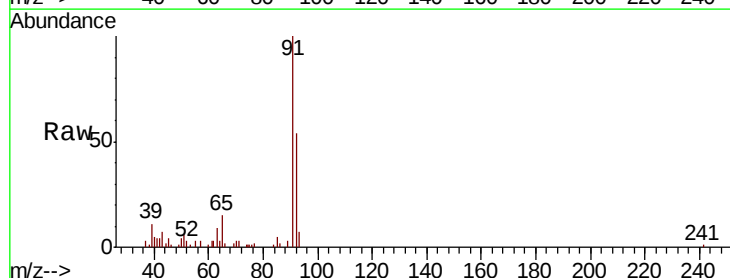
Acq: 5 Aug 2021 6:00

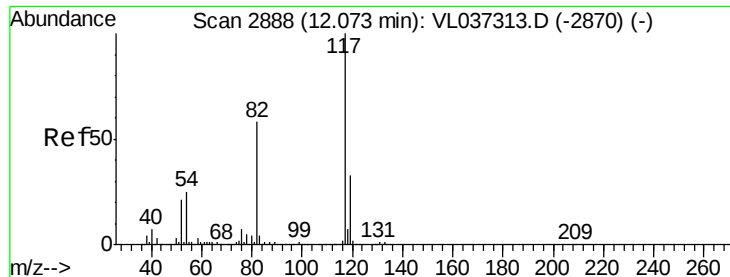
Tgt Ion: 91 Resp: 60739

Ion Ratio Lower Upper

91 100

92 71.1 48.8 73.2

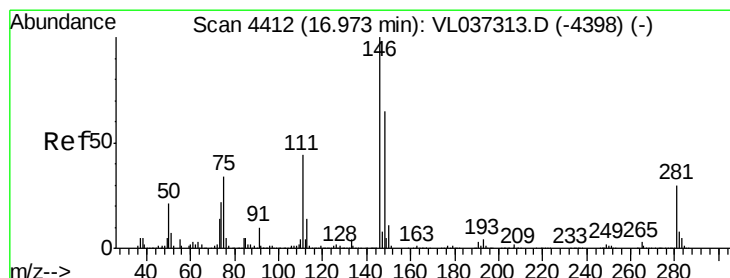
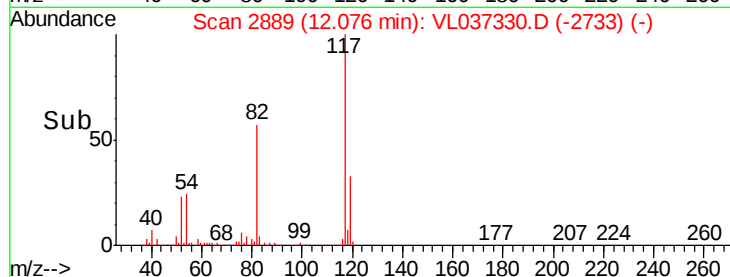
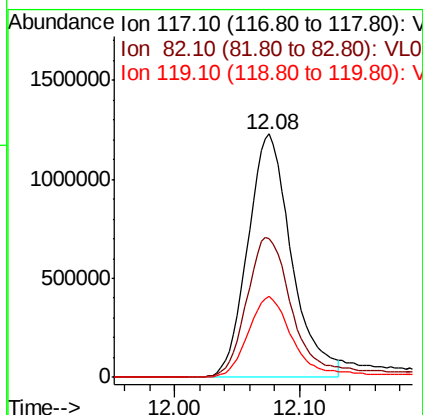
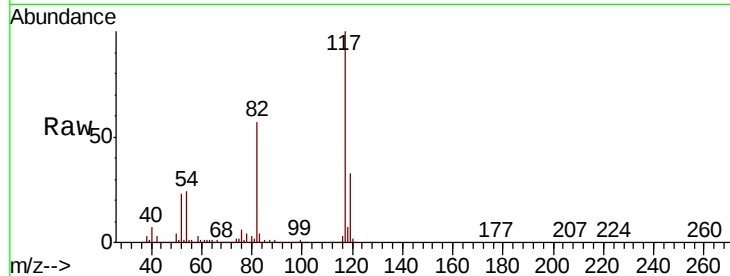




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

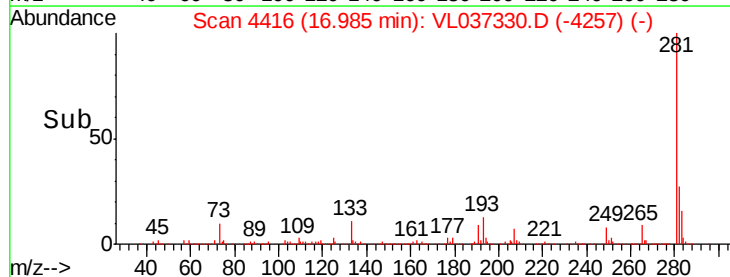
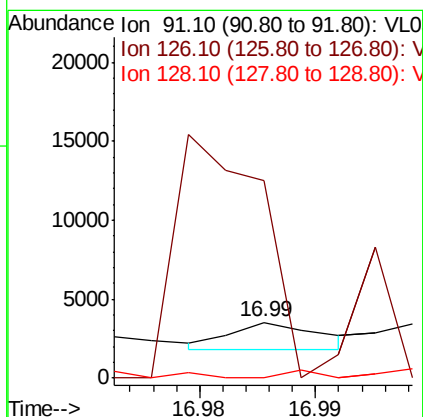
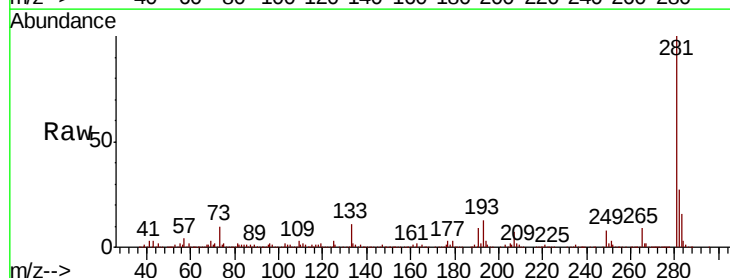
Instrument :
MSVOA_L
ClientSampleId :

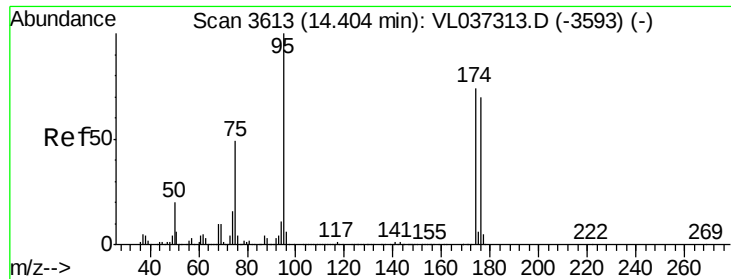
Tot Ion:117 Resp: 2979877
Ion Ratio Lower Upper
117 100
82 67.4 50.3 75.5
119 36.3 48.2 72.2#



#66
Benzyl Chloride
Concen: 0.052 ppbv
RT: 16.99 min Scan# 4416
Delta R.T. 0.01 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion: 91 Resp: 903
Ion Ratio Lower Upper
91 100
126 1087.9 17.8 26.6#
128 0.0 5.8 8.6#

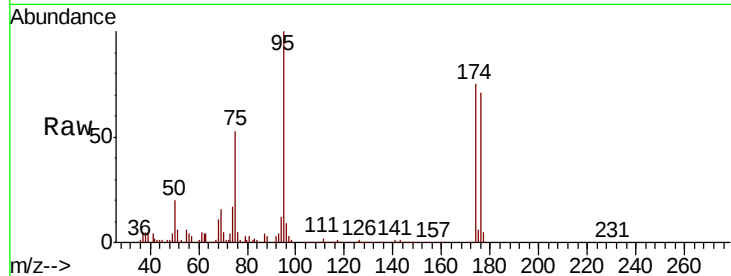




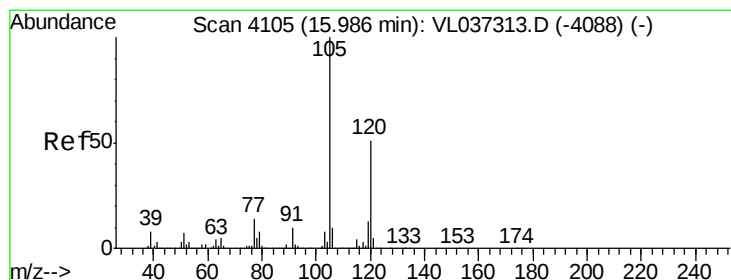
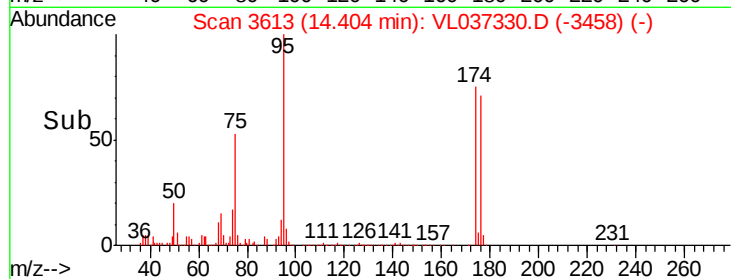
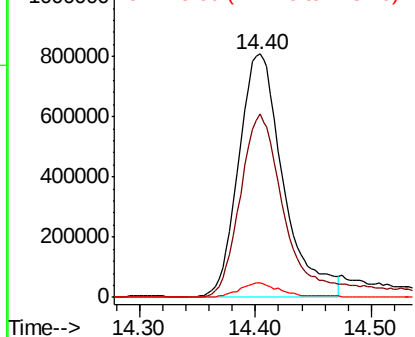
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.623 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.00 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2162285
 Ion Ratio Lower Upper
 95 100
 174 82.0 66.9 100.3
 175 5.9 5.1 7.7

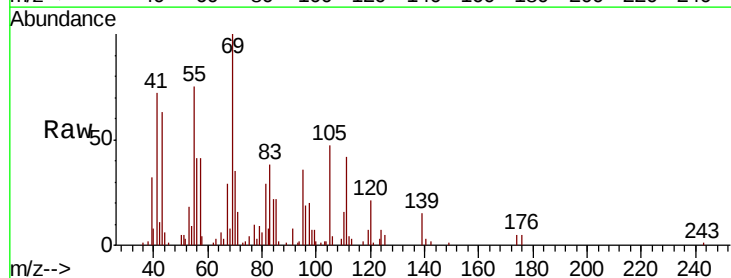


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

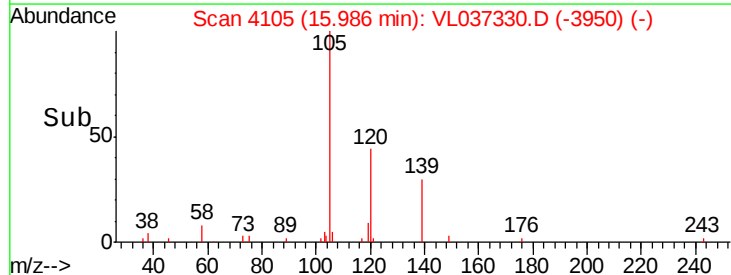
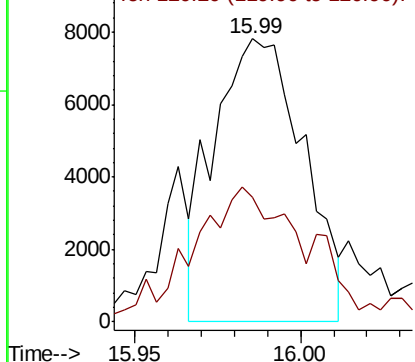


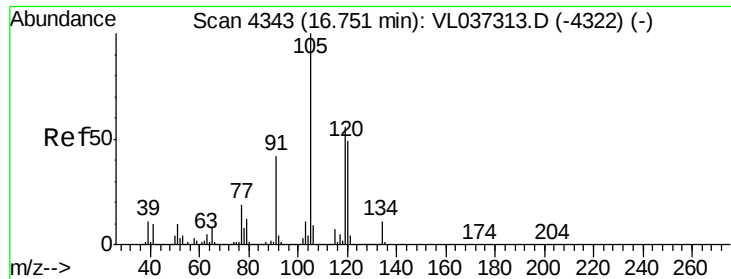
#73
 1,3,5-Trimethylbenzene
 Concen: 0.040 ppbv
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Tgt Ion:105 Resp: 14627
 Ion Ratio Lower Upper
 105 100
 120 38.0 40.4 60.6#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.040 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 15461

Ion Ratio Lower Upper

105 100

120 38.7 39.6 59.4#

91 3.6 34.5 51.7#

77 12.2 15.3 22.9#

