

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037257.D
 Acq On : 29 Jun 2021 20:11
 Operator : SY/AP
 Sample : M2887-05 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 30 05:22:42 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	5.66	49	1626107	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	4860716	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4311205	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	3282226	10.05	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

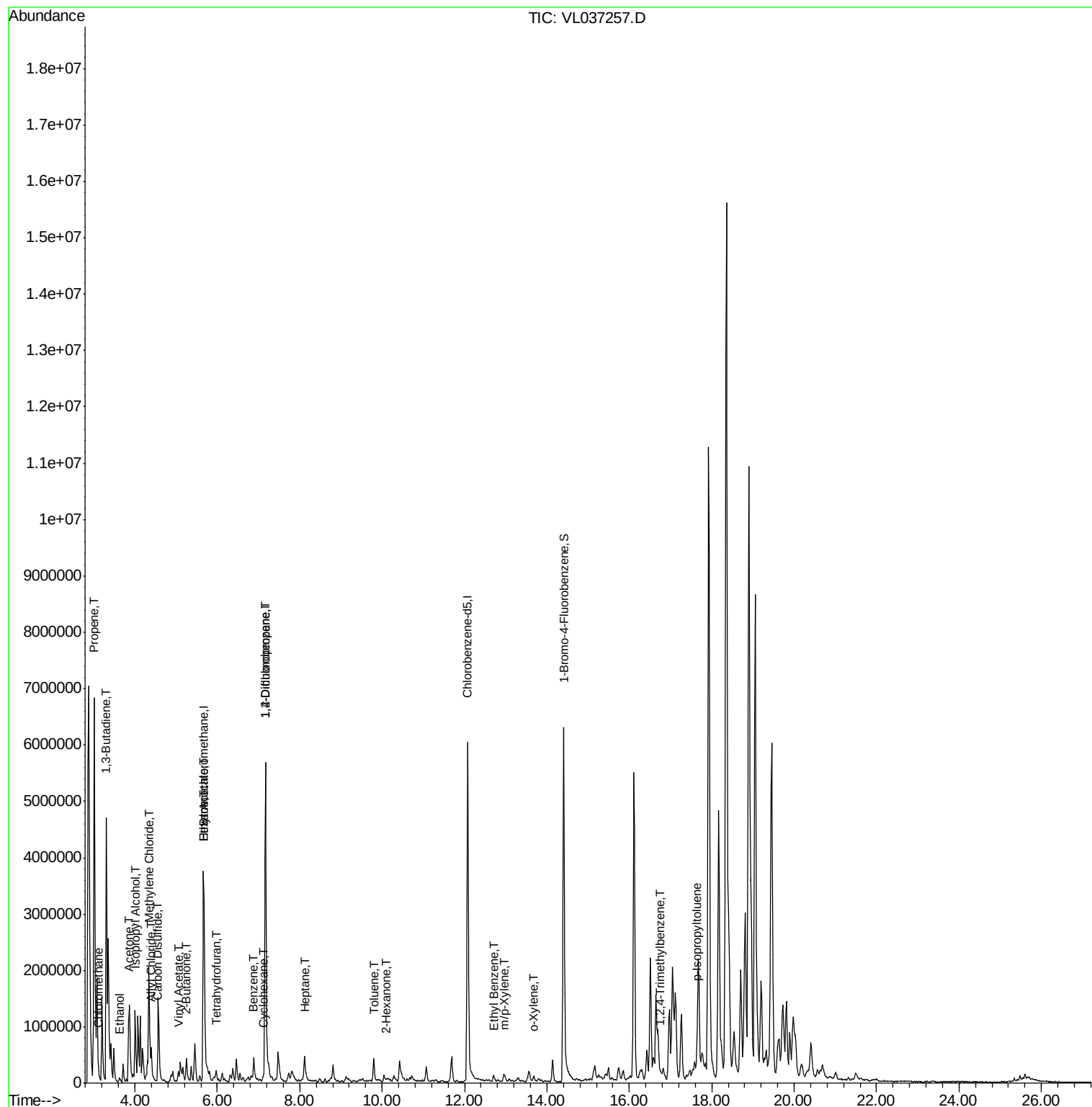
Target Compounds					Ovalue
4) Chloromethane	3.13	50	3399	0.032	ppbv 90
9) Propene	3.01	41	3938029	38.952	ppbv 93
10) Heptane	8.11	43	195562	0.799	ppbv 95
13) Ethanol	3.61	45	15544	0.994	ppbv # 7
15) Acetone	3.85	43	1827699	9.967	ppbv 92
16) 1,3-Butadiene	3.30	39	1793816	16.547	ppbv # 33
19) Isopropyl Alcohol	3.99	45	16064	0.145	ppbv # 91
20) Methylene Chloride	4.34	84	878815	8.005	ppbv 96
21) Allyl Chloride	4.39	41	53680	0.388	ppbv # 1
23) Vinyl Acetate	5.05	43	46615	0.177	ppbv # 1
25) Ethyl Acetate	5.68	43	563650	1.420	ppbv # 78
26) Hexane	5.68	57	792446	3.950	ppbv # 43
27) Carbon Disulfide	4.55	76	12159	0.062	ppbv # 54
30) Cyclohexane	7.12	84	25813	0.154	ppbv # 24
34) 2-Butanone	5.25	43	591418	3.129	ppbv 97
36) Benzene	6.88	78	386560	0.983	ppbv 94
39) 1,2-Dichloropropane	7.17	63	1186483	8.124	ppbv # 23
41) Tetrahydrofuran	5.98	42	36621	0.417	ppbv # 38
51) 2-Hexanone	10.11	43	4194	0.033	ppbv # 29
53) Toluene	9.80	91	355960	0.758	ppbv 97
58) Ethyl Benzene	12.71	91	33362	0.056	ppbv 96
59) m/p-Xylene	12.97	91	68467	0.136	ppbv # 30
60) o-Xylene	13.68	91	47410	0.099	ppbv 98
69) p-Isopropyltoluene	17.64	119	58948	0.087	ppbv 96
74) 1,2,4-Trimethylbenzene	16.75	105	64353	0.119	ppbv # 65

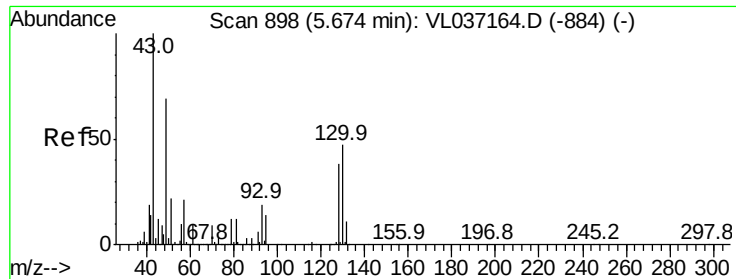
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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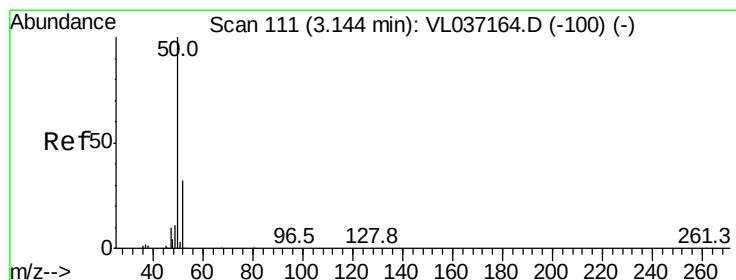
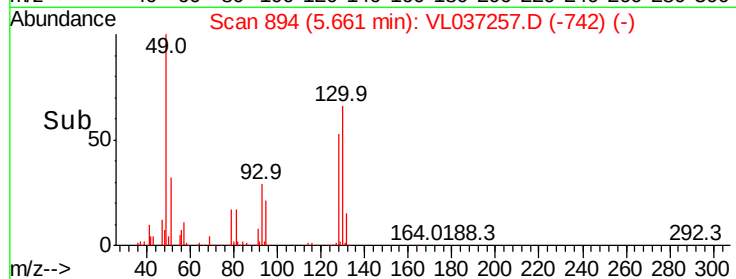
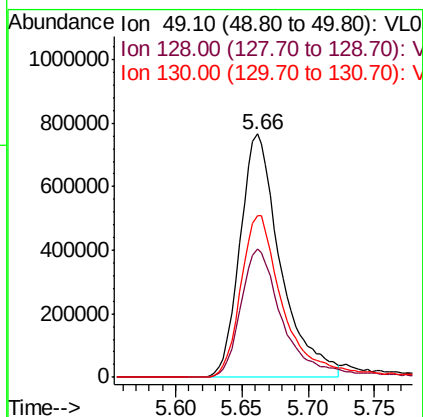
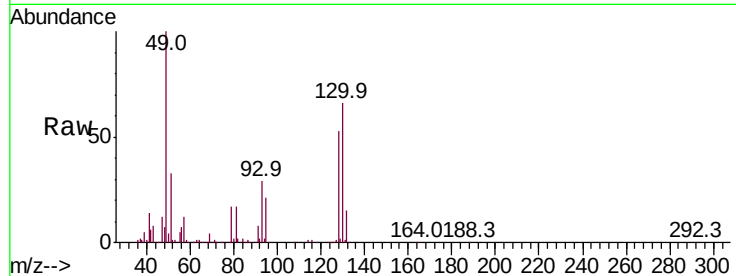




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

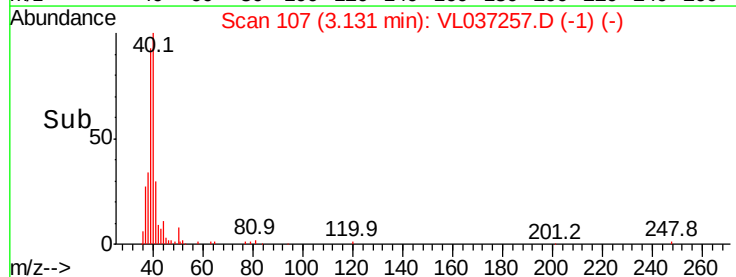
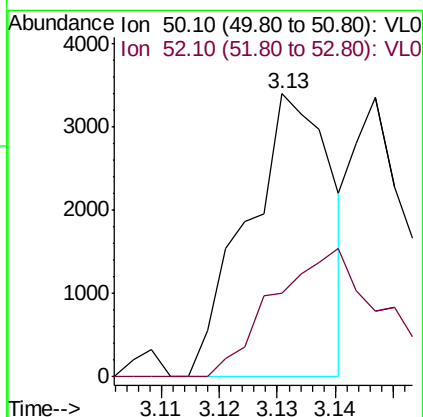
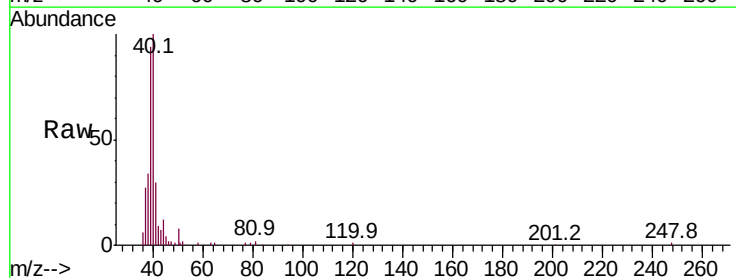
Instrument :
 MSVOA_L
 ClientSampleId :

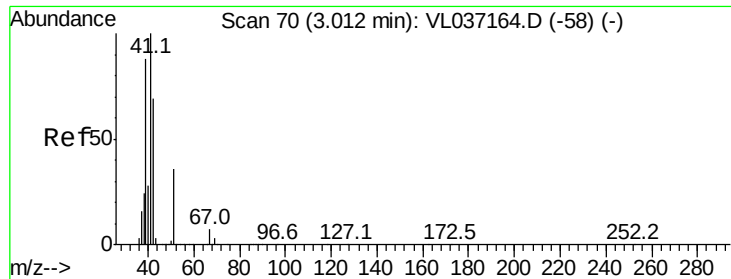
Tot Ion: 49 Resp: 1626107
 Ion Ratio Lower Upper
 49 100
 128 57.5 29.3 88.0
 130 72.1 35.9 107.8



#4
 Chloromethane
 Concen: 0.032 ppbv
 RT: 3.13 min Scan# 107
 Delta R.T. -0.01 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

Tgt Ion: 50 Resp: 3399
 Ion Ratio Lower Upper
 50 100
 52 26.9 25.8 38.8





#9

Propene

Concen: 38.952 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

Instrument :

MSVOA_L

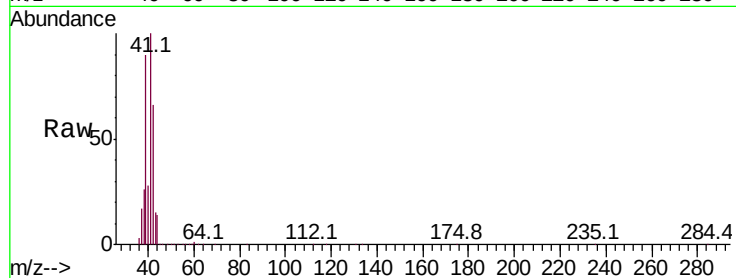
ClientSampleId :

Tot Ion: 41 Resp: 3938029

Ion Ratio Lower Upper

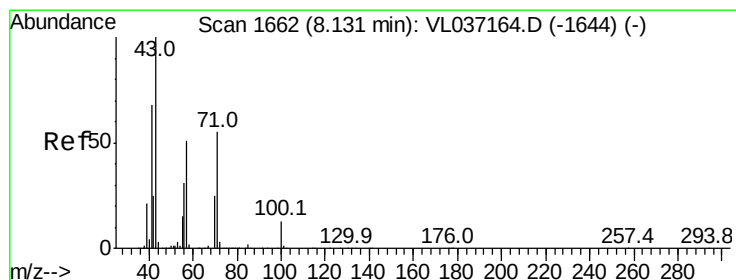
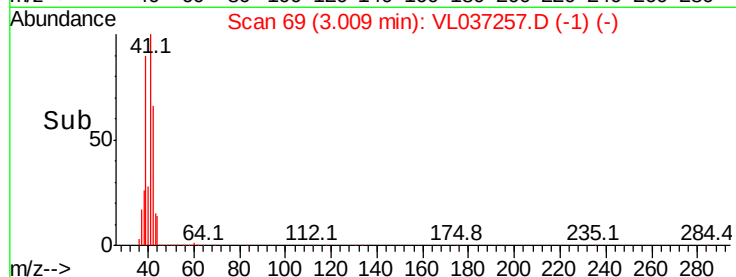
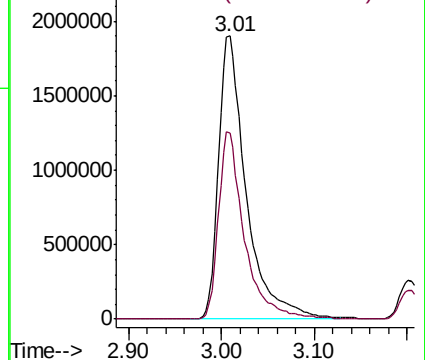
41 100

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: 0.799 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.02 min

Lab File: VL037257.D

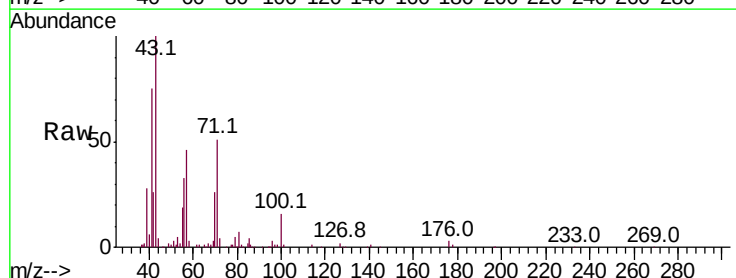
Acq: 29 Jun 2021 20:11

Tgt Ion: 43 Resp: 195562

Ion Ratio Lower Upper

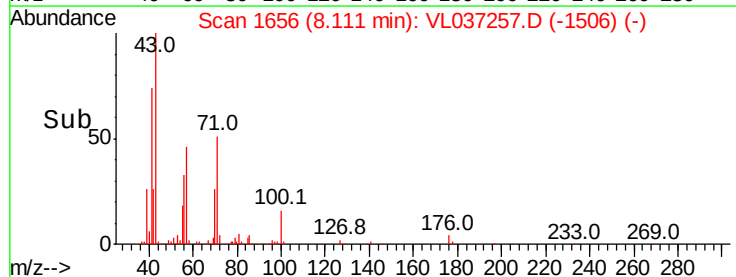
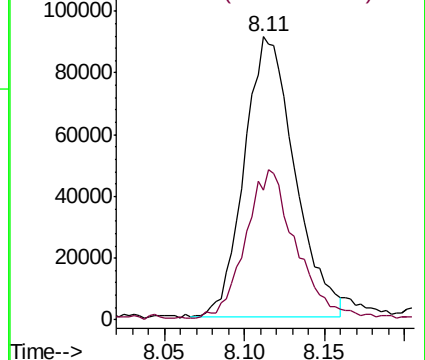
43 100

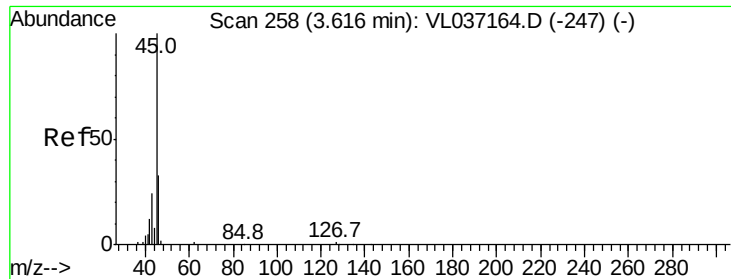
57 54.3 40.6 61.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

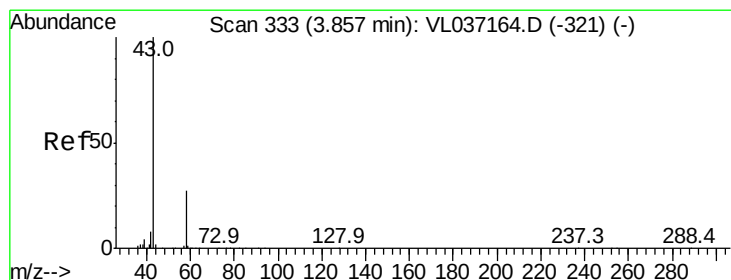
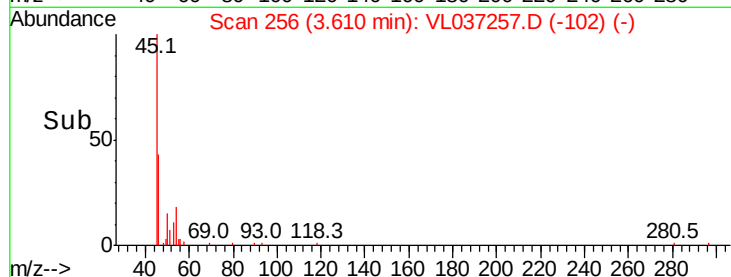
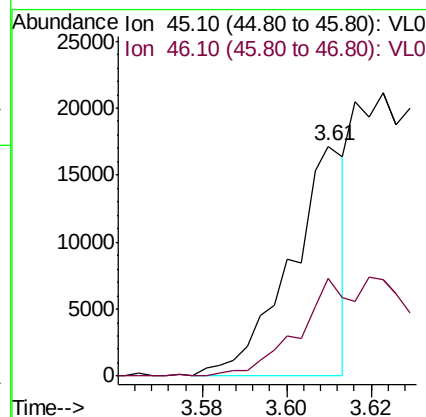
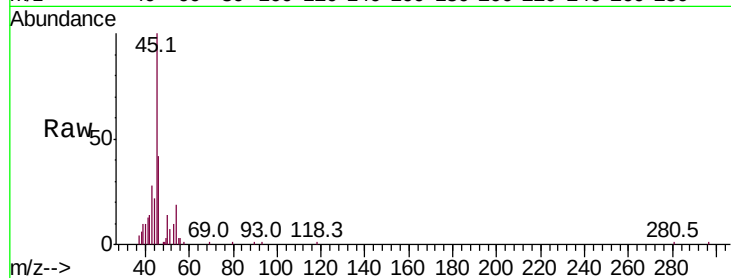




#13
Ethanol
Concen: 0.994 ppbv
RT: 3.61 min Scan# 256
Delta R.T. -0.01 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

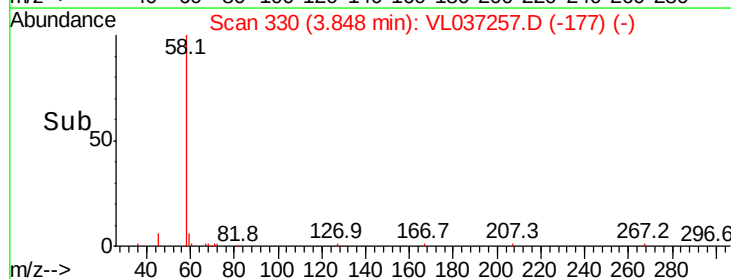
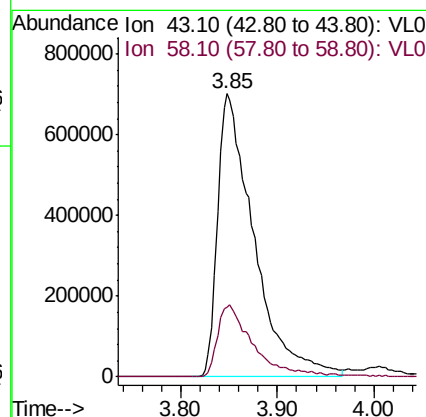
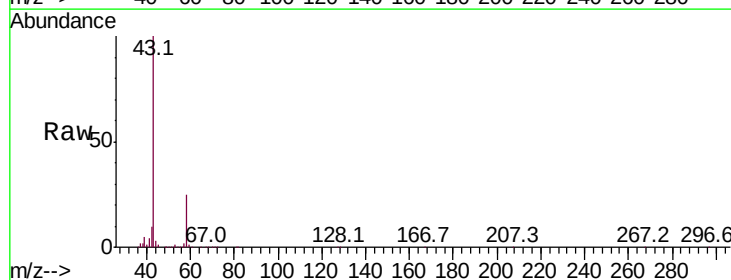
Instrument :
MSVOA_L
ClientSampleId :

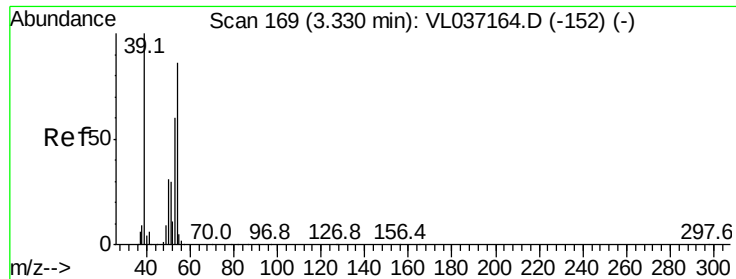
Tot Ion: 45 Resp: 15544
Ion Ratio Lower Upper
45 100
46 0.0 34.2 137.0#



#15
Acetone
Concen: 9.967 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

Tgt Ion: 43 Resp: 1827699
Ion Ratio Lower Upper
43 100
58 25.4 23.7 35.5

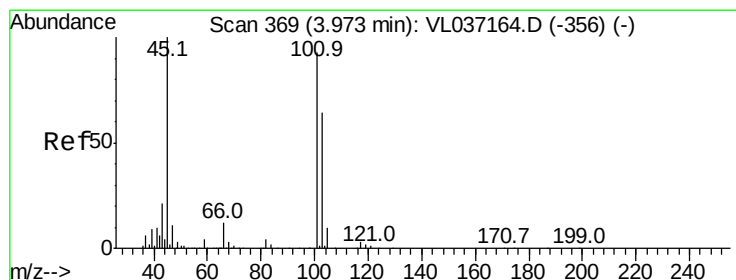
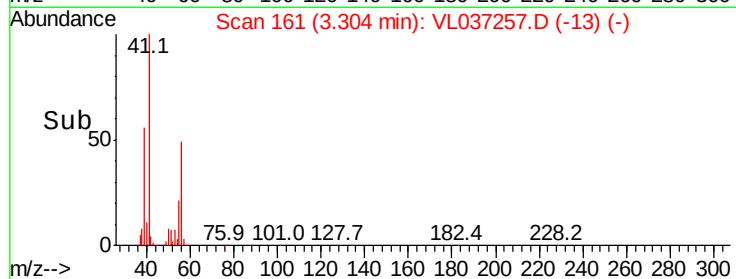
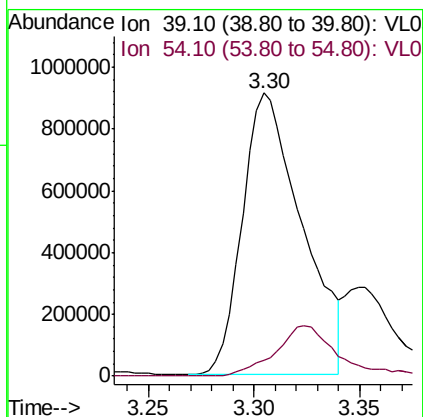
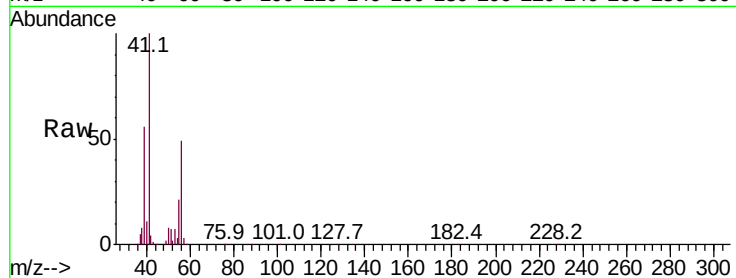




#16
 1,3-Butadiene
 Concen: 16.547 ppbv
 RT: 3.30 min Scan# 161
 Delta R.T. -0.03 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

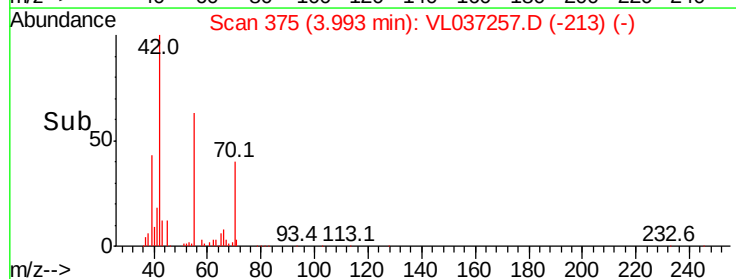
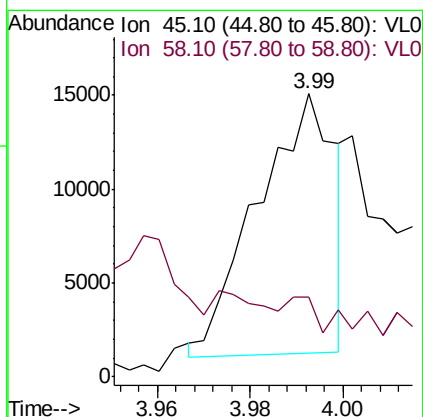
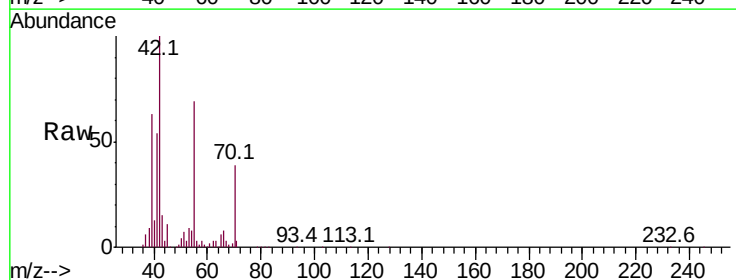
Instrument :
 MSVOA_L
 ClientSampleId :

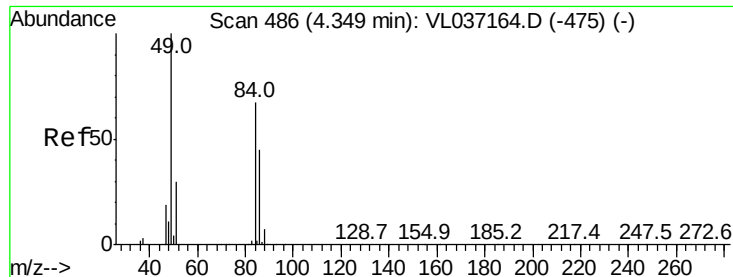
Tot Ion: 39 Resp: 1793816
 Ion Ratio Lower Upper
 39 100
 54 19.0 61.2 91.8#



#19
 Isopropyl Alcohol
 Concen: 0.145 ppbv
 RT: 3.99 min Scan# 375
 Delta R.T. 0.02 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

Tgt Ion: 45 Resp: 16064
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.4 3.6#

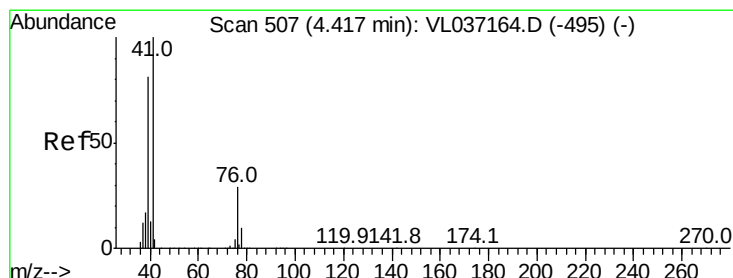
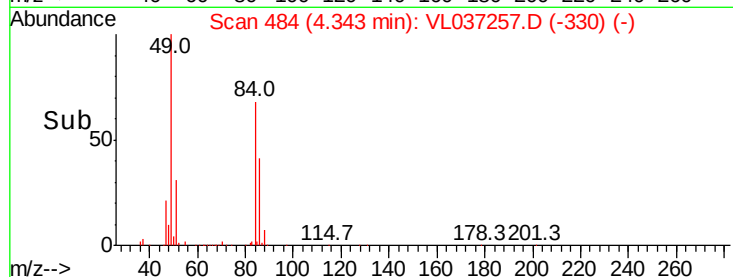
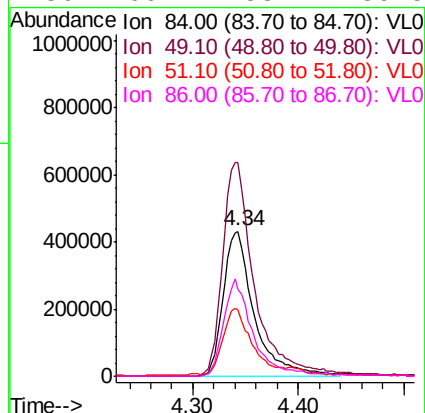
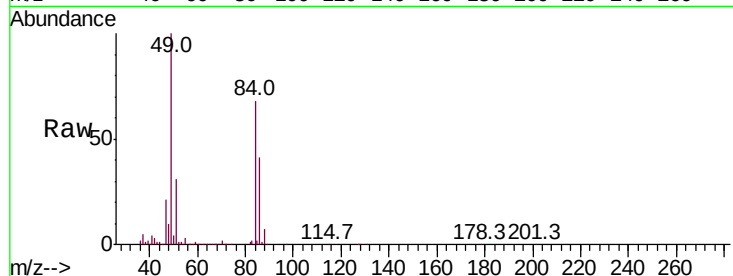




#20
Methvlene Chloride
Concen: 8.005 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

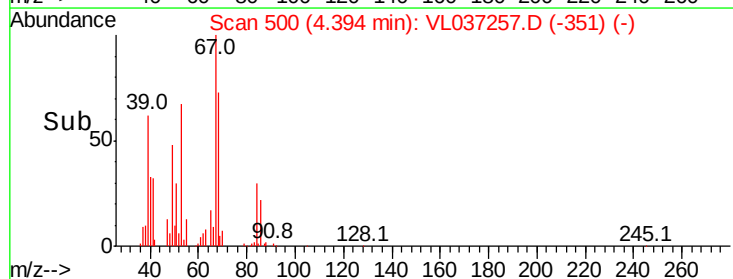
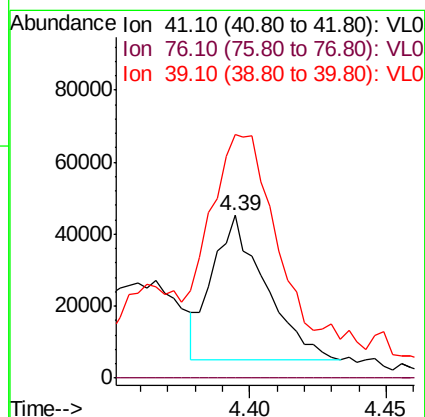
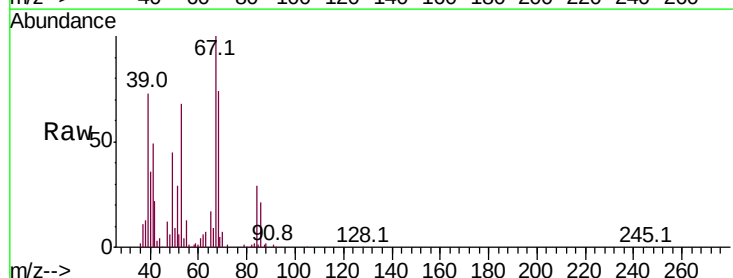
Instrument :
MSVOA_L
ClientSampleId :

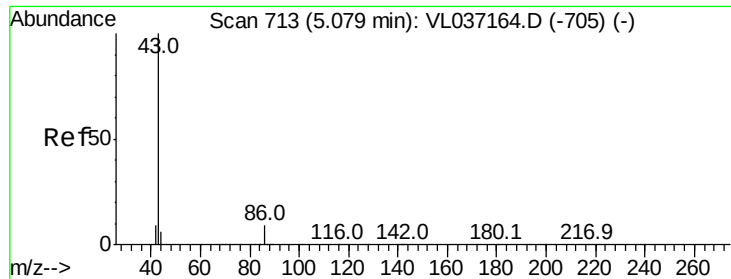
Tot Ion:	84	Resp:	878815
Ion	Ratio	Lower	Upper
84	100		
49	147.0	119.7	179.5
51	44.5	36.1	54.1
86	60.2	53.7	80.5



#21
Allyl Chloride
Concen: 0.388 ppbv
RT: 4.39 min Scan# 500
Delta R.T. -0.02 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

Tgt Ion:	41	Resp:	53680
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	37.0#
39	319.0	65.4	98.0#





#23

Vinyl Acetate

Concen: 0.177 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.03 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 46615

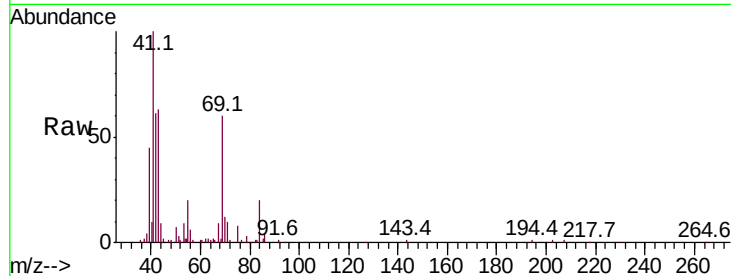
Ion Ratio Lower Upper

43 100

86 5.1 5.8 8.8#

42 93.5 8.2 12.2#

44 0.9 4.2 6.4#

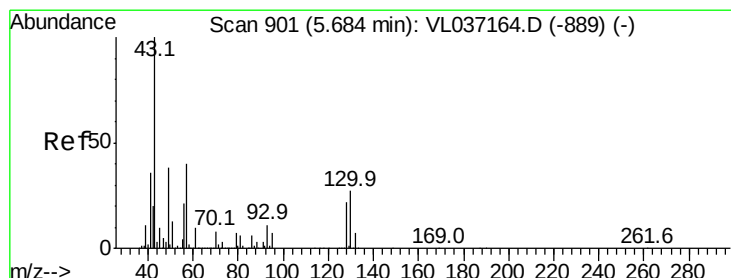
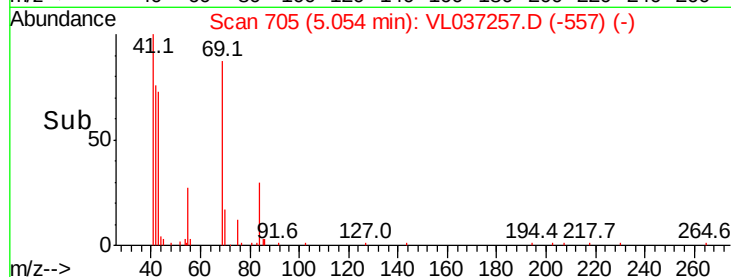
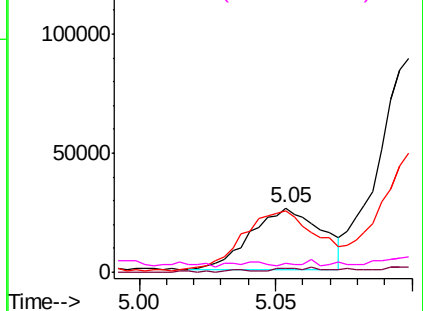


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.420 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

Tgt Ion: 43 Resp: 563650

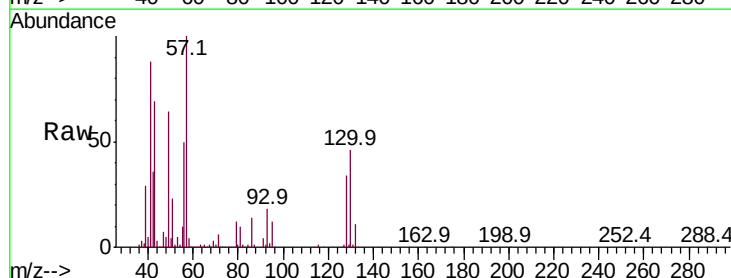
Ion Ratio Lower Upper

43 100

45 0.8 8.0 12.0#

61 0.5 8.1 12.1#

70 2.5 5.5 8.3#

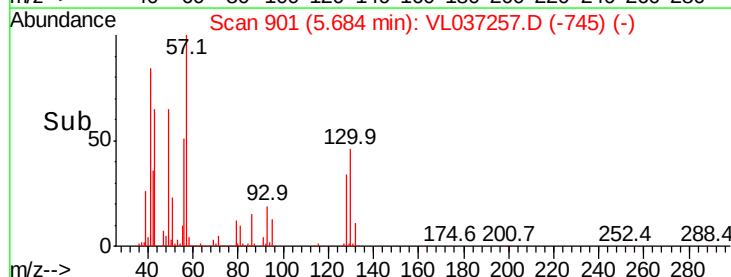
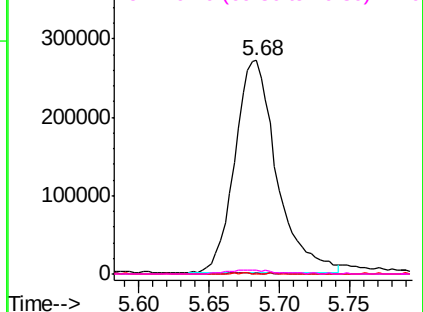


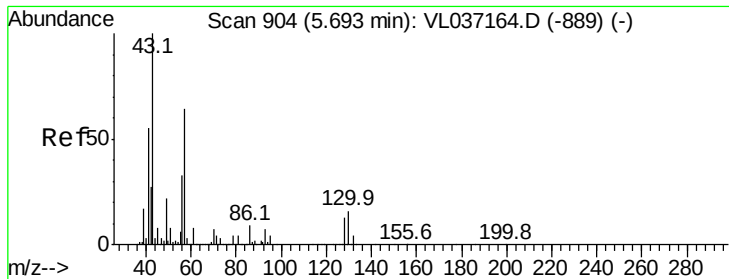
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 3.950 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 792446

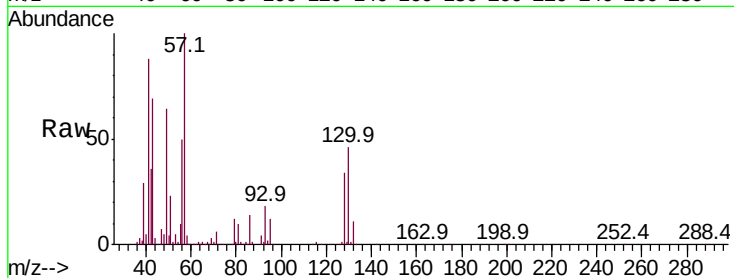
Ion Ratio Lower Upper

57 100

41 105.4 73.5 110.3

43 74.9 170.7 256.1#

56 58.3 42.4 63.6

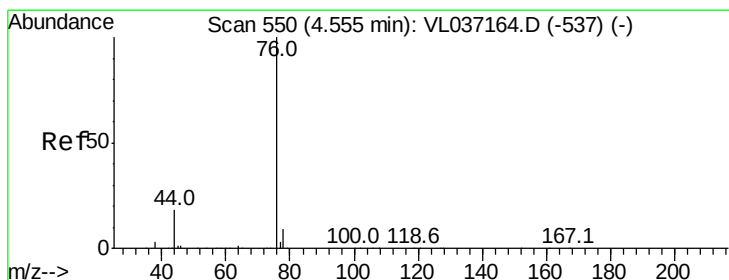
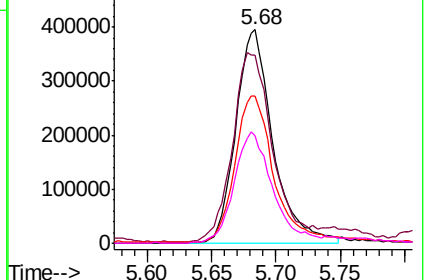
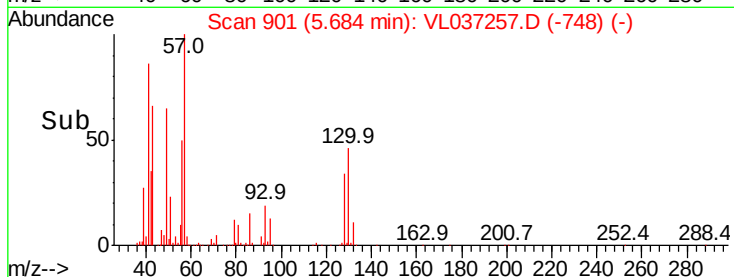


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.062 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

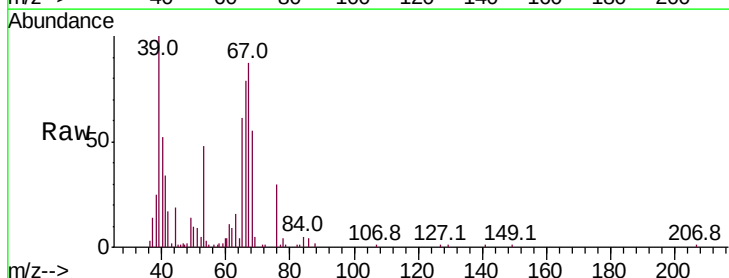
Tgt Ion: 76 Resp: 12159

Ion Ratio Lower Upper

76 100

44 45.9 15.4 23.2#

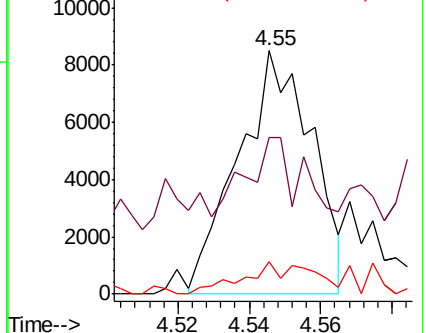
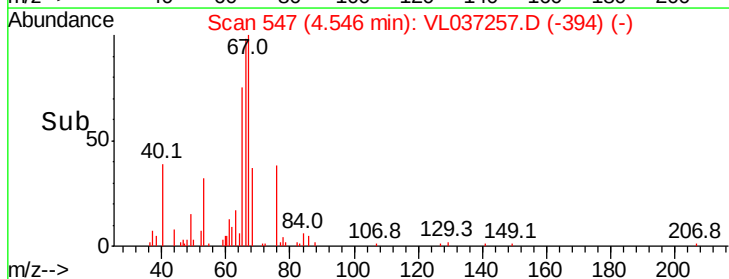
78 18.4 8.0 12.0#

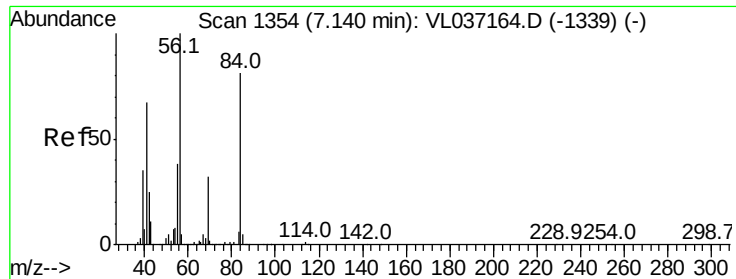


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

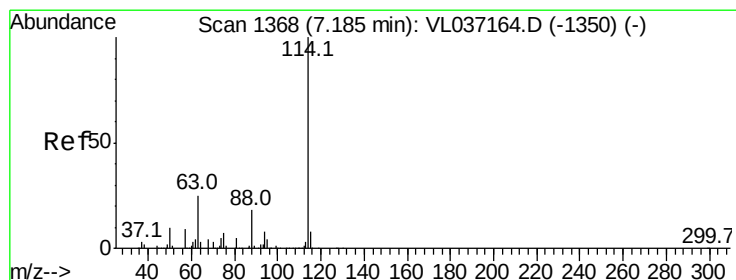
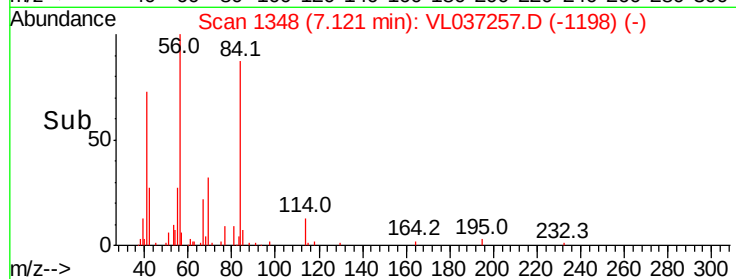
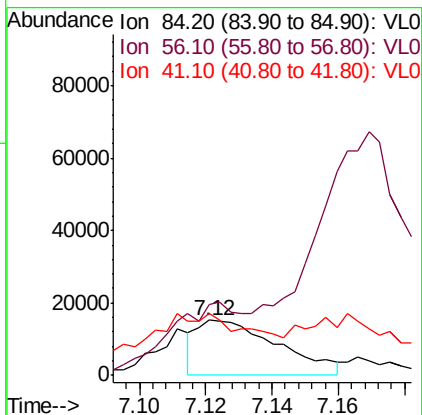
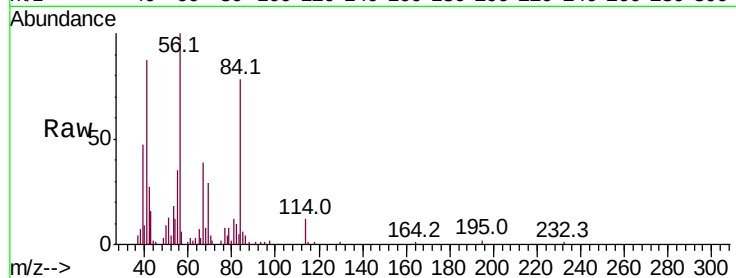




#30
Cyclohexane
Concen: 0.154 ppbv
RT: 7.12 min Scan# 1348
Delta R.T. -0.02 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

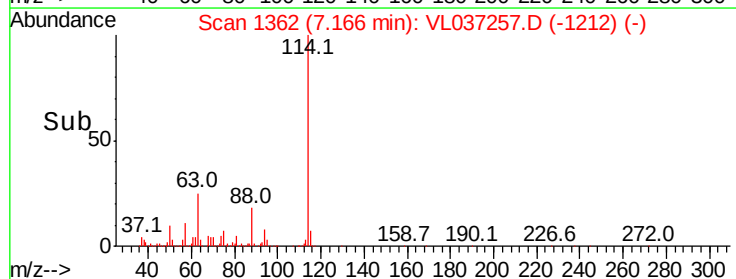
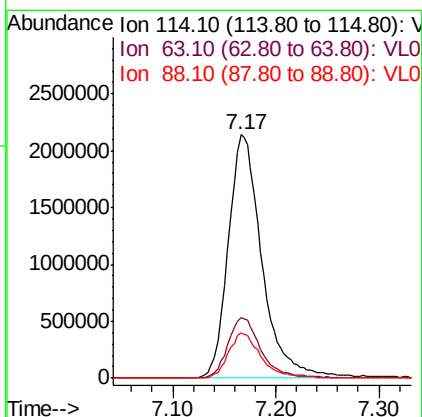
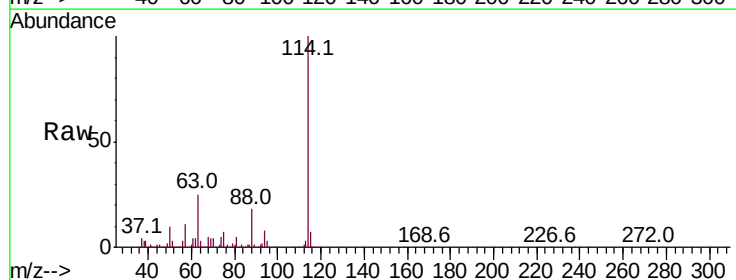
Instrument :
MSVOA_L
ClientSampled :

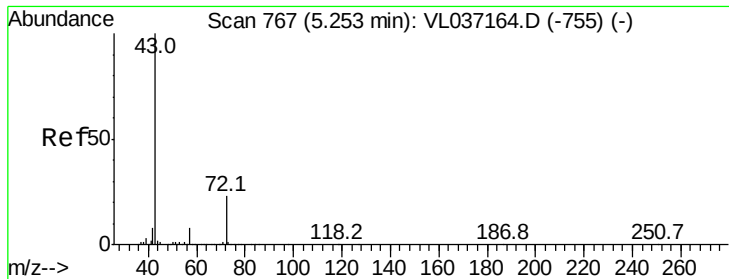
Tot Ion: 84 Resp: 25813
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 104.0 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

Tgt Ion: 114 Resp: 4860716
Ion Ratio Lower Upper
114 100
63 25.0 19.6 29.4
88 18.1 14.2 21.2

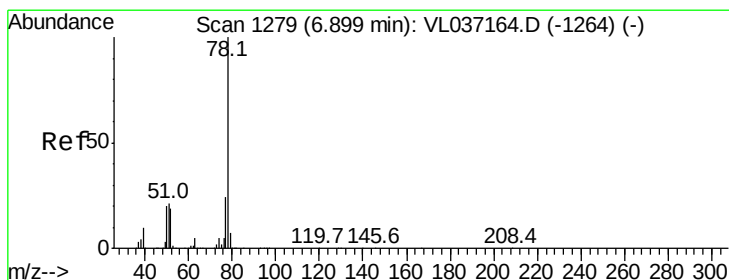
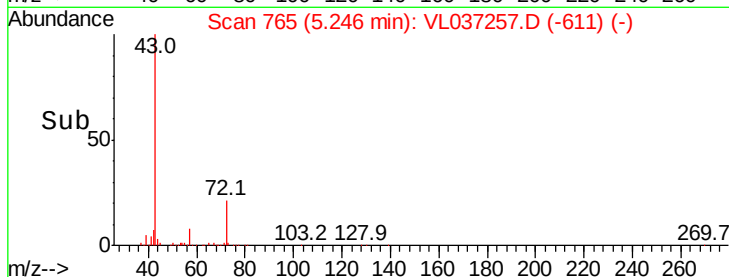
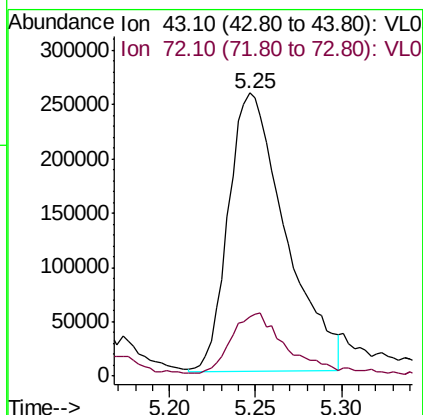
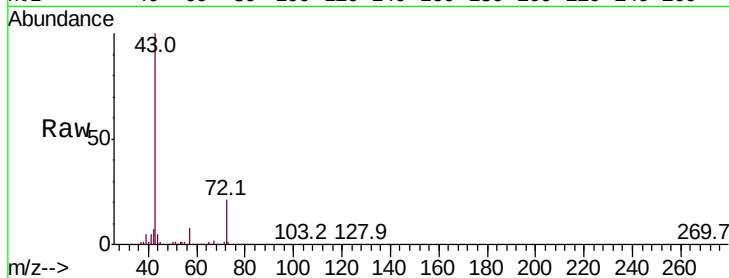




#34
 2-Butanone
 Concen: 3.129 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

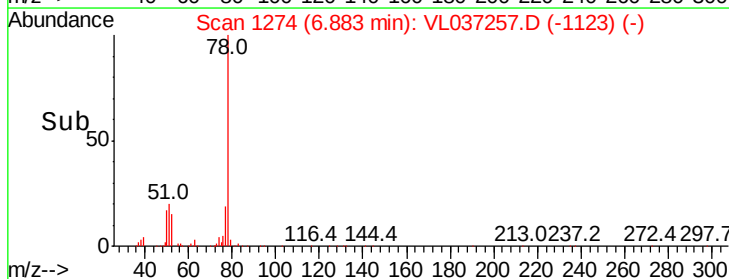
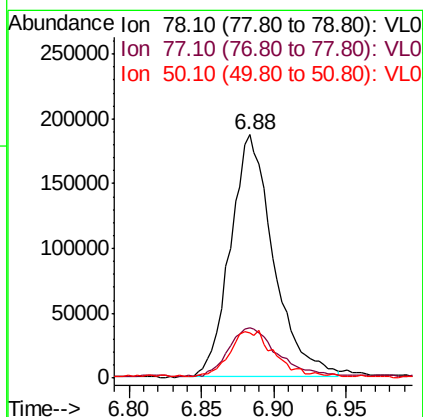
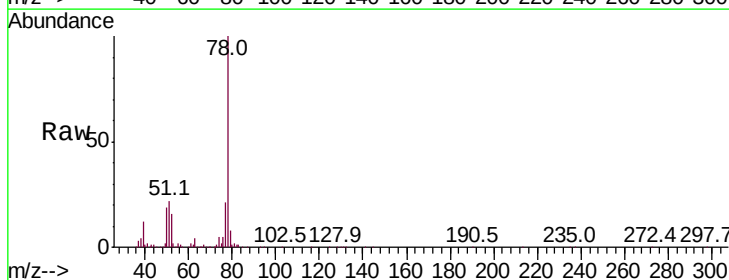
Instrument :
 MSVOA_L
 ClientSampleId :

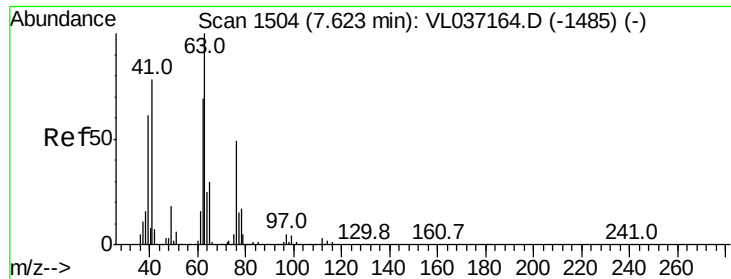
Tot Ion: 43 Resp: 591418
 Ion Ratio Lower Upper
 43 100
 72 24.9 18.9 28.3



#36
 Benzene
 Concen: 0.983 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T. -0.02 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

Tgt Ion: 78 Resp: 386560
 Ion Ratio Lower Upper
 78 100
 77 20.0 19.0 28.6
 50 18.0 15.7 23.5





#39

1,2-Dichloropropane

Concen: 8.124 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.46 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

Instrument :

MSVOA_L

ClientSampleId :

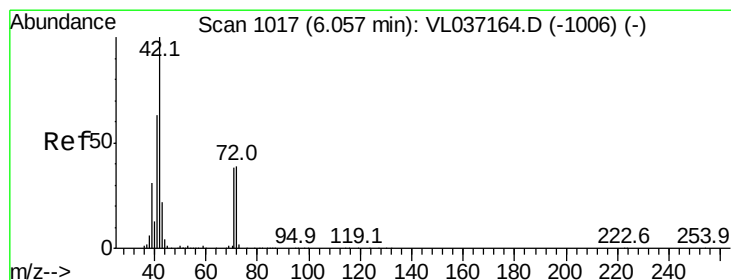
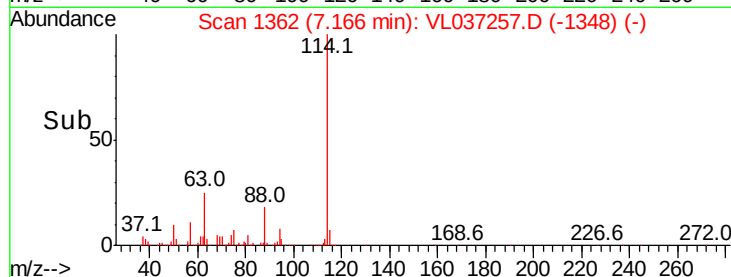
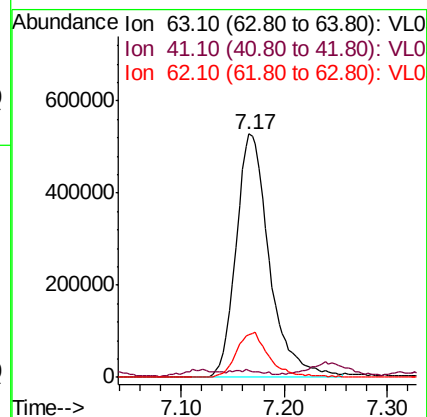
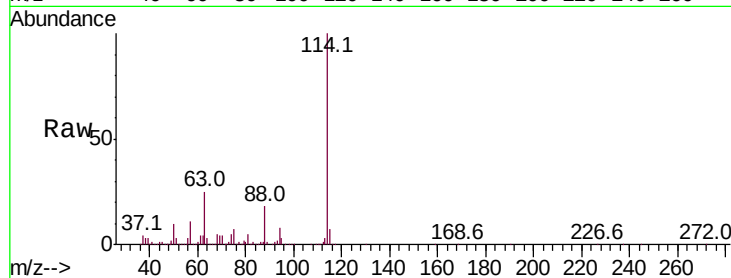
Tot Ion: 63 Resp: 1186483

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 17.2 54.9 82.3#



#41

Tetrahydrofuran

Concen: 0.417 ppbv

RT: 5.98 min Scan# 992

Delta R.T. -0.08 min

Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

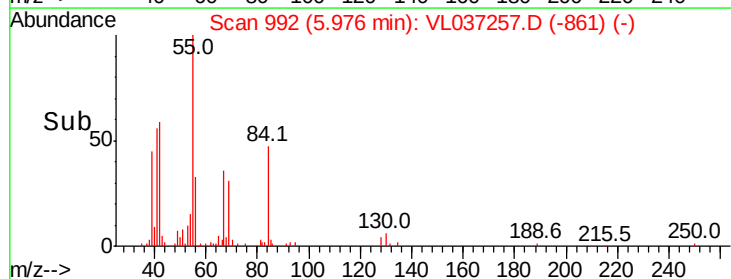
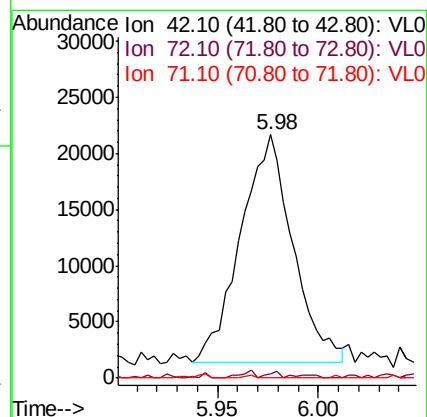
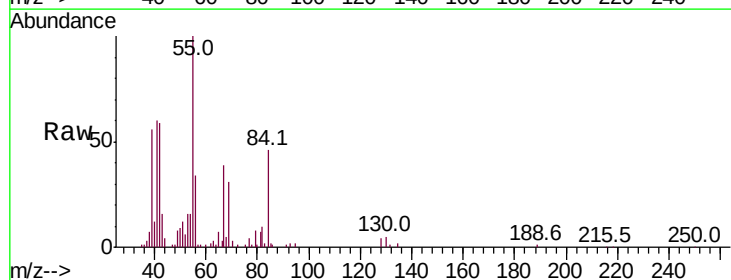
Tgt Ion: 42 Resp: 36621

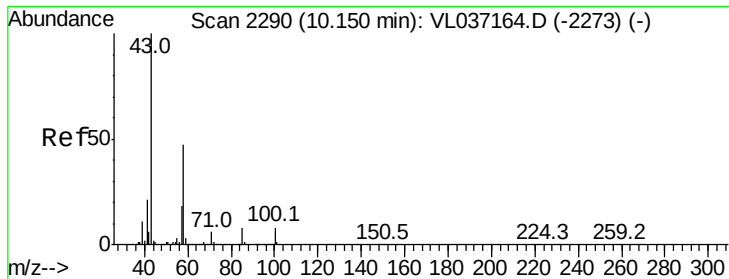
Ion Ratio Lower Upper

42 100

72 2.8 33.0 49.4#

71 0.0 31.0 46.6#

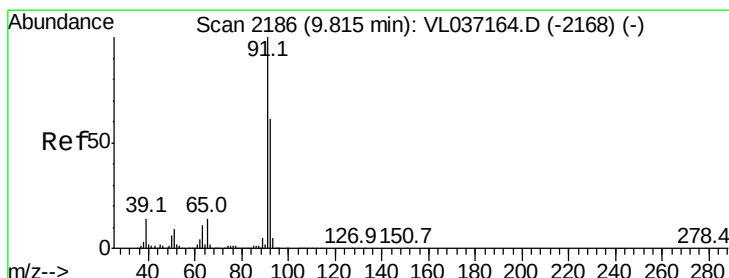
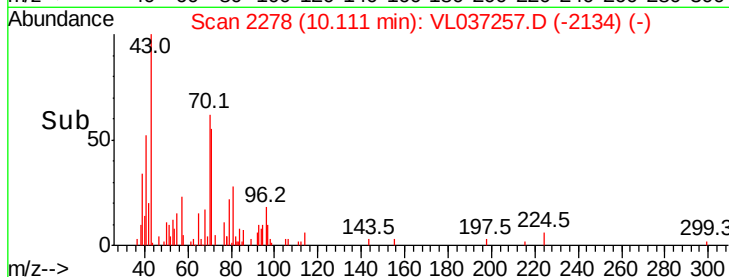
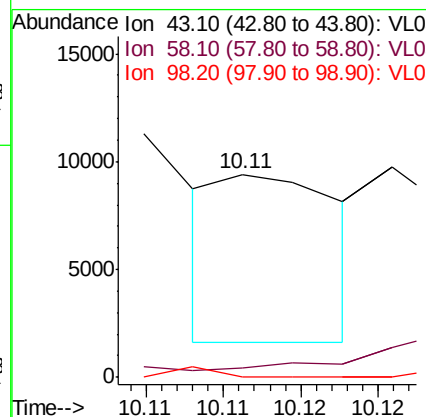
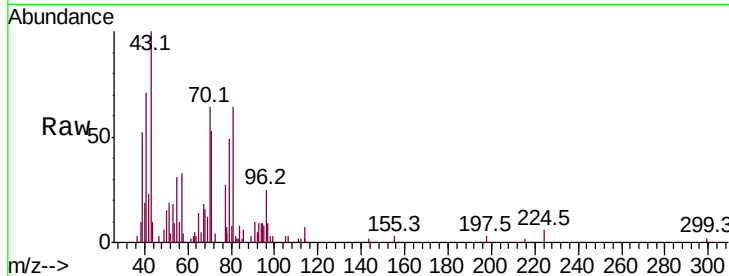




#51
2-Hexanone
Concen: 0.033 ppbv
RT: 10.11 min Scan# 2278
Delta R.T. -0.04 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

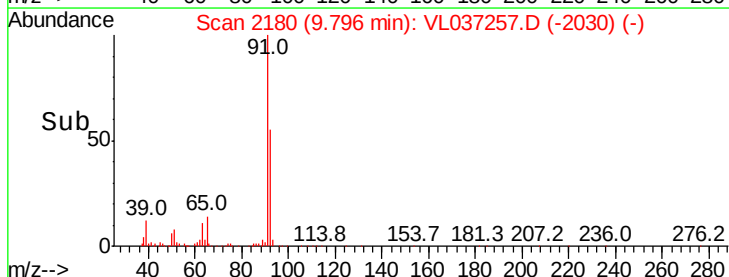
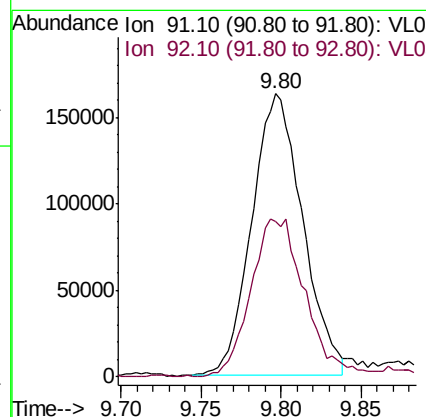
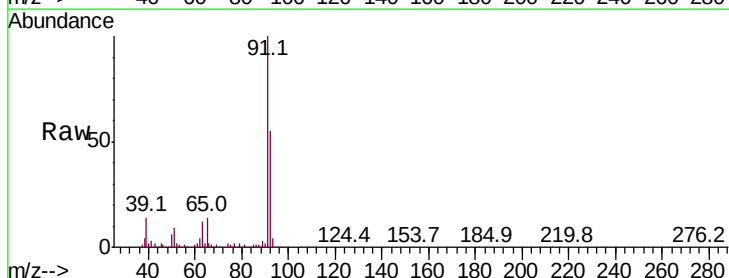
Instrument :
MSVOA_L
ClientSampled :

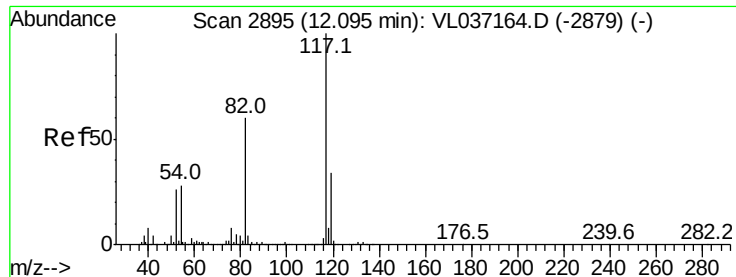
Tot Ion: 43 Resp: 4194
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.3 0.5#



#53
Toluene
Concen: 0.758 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

Tgt Ion: 91 Resp: 355960
Ion Ratio Lower Upper
91 100
92 63.0 48.3 72.5

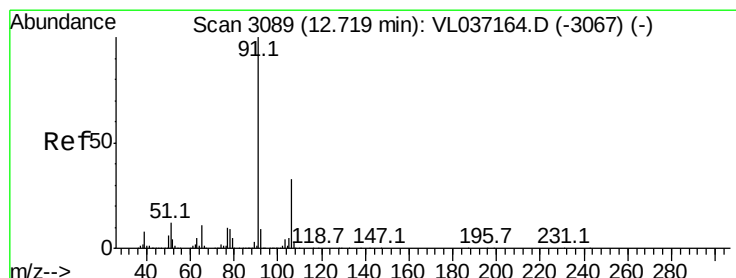
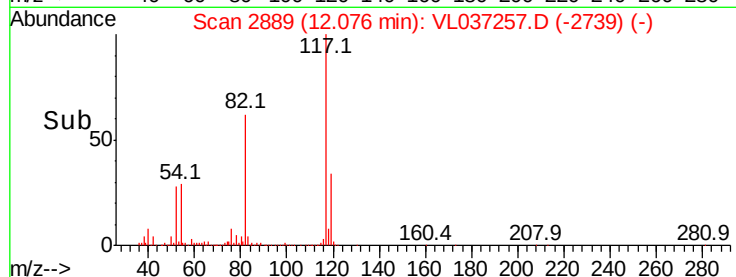
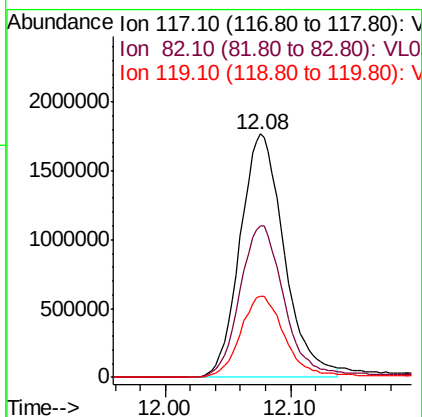
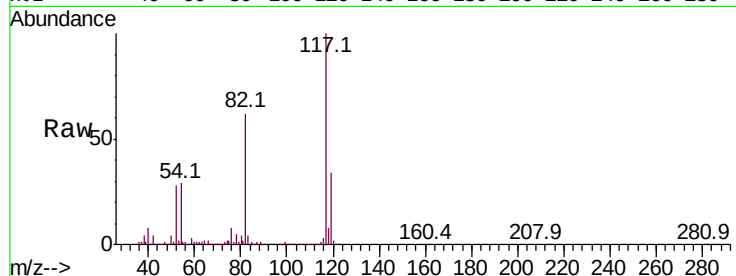




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.02 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

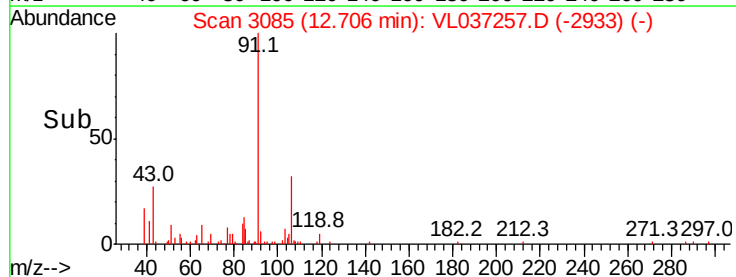
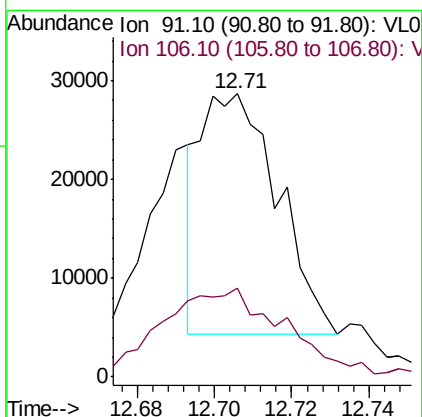
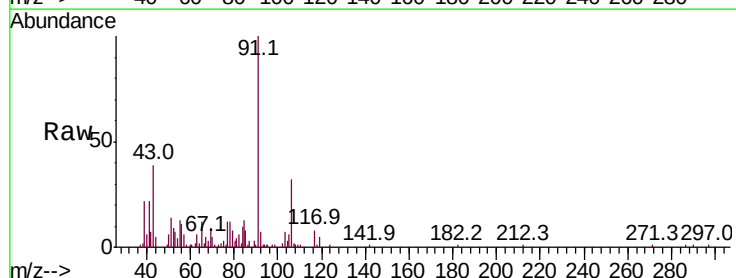
Instrument :
MSVOA_L
ClientSampleId :

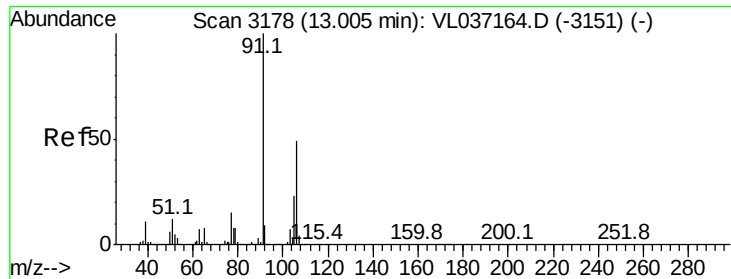
Tot Ion:117 Resp: 4311205
Ion Ratio Lower Upper
117 100
82 66.3 51.7 77.5
119 34.7 47.6 71.4#



#58
Ethyl Benzene
Concen: 0.056 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

Tgt Ion: 91 Resp: 33362
Ion Ratio Lower Upper
91 100
106 30.4 26.3 39.5

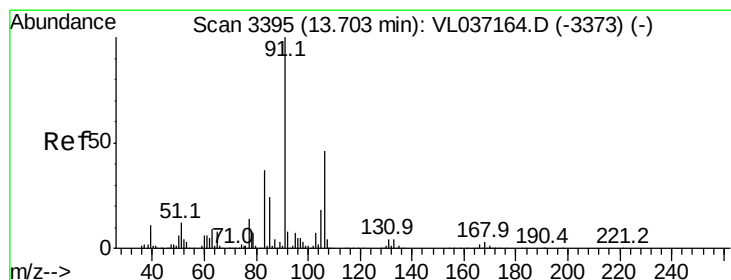
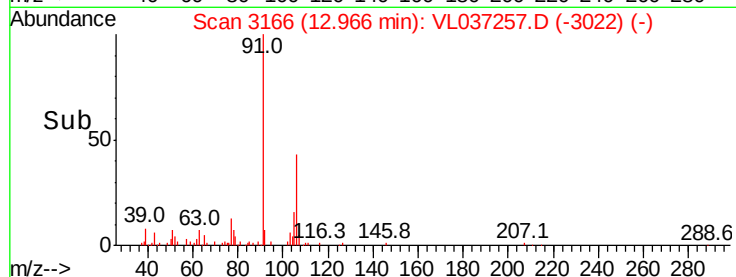
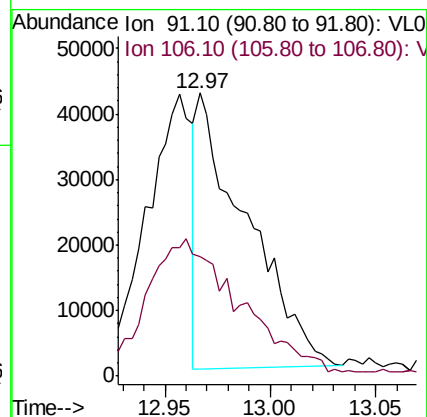
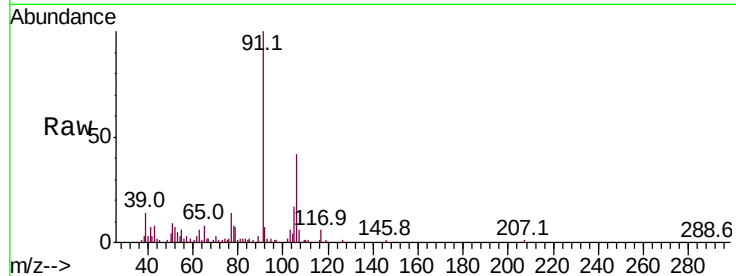




#59
m/p-Xylene
Concen: 0.136 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

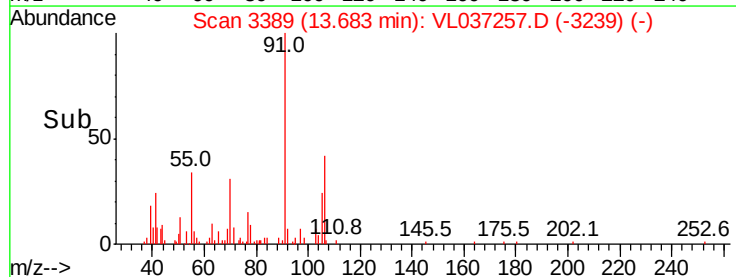
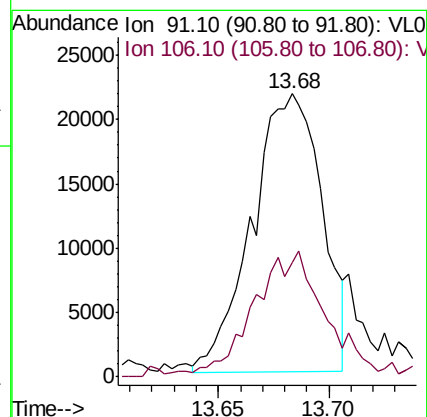
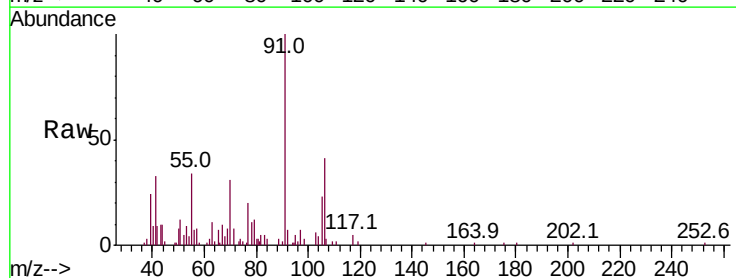
Instrument :
MSVOA_L
ClientSampleId :

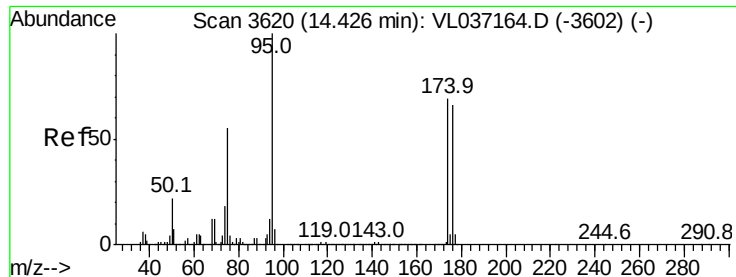
Tot Ion: 91 Resp: 68467
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#



#60
o-Xylene
Concen: 0.099 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.02 min
Lab File: VL037257.D
Acq: 29 Jun 2021 20:11

Tgt Ion: 91 Resp: 47410
Ion Ratio Lower Upper
91 100
106 47.6 23.0 69.0

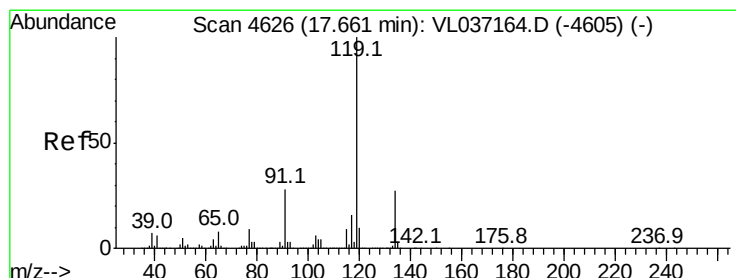
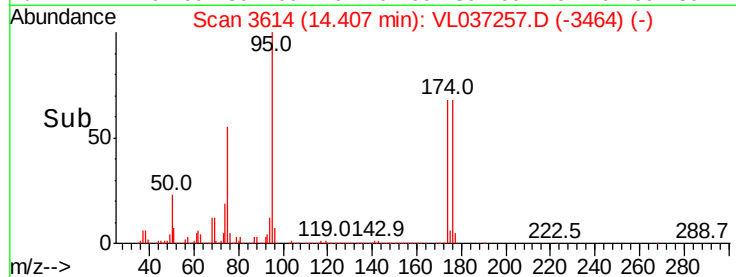
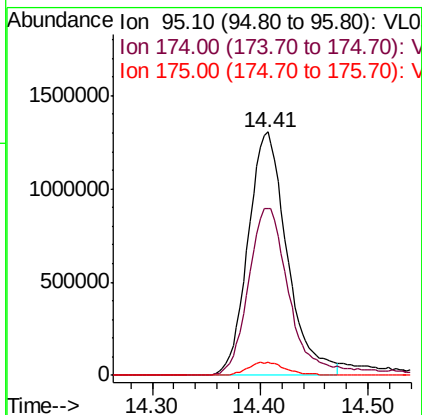
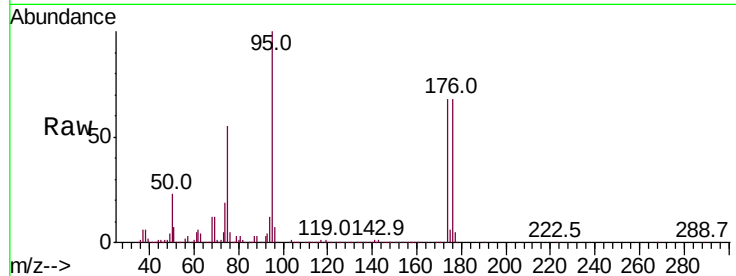




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.047 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.02 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

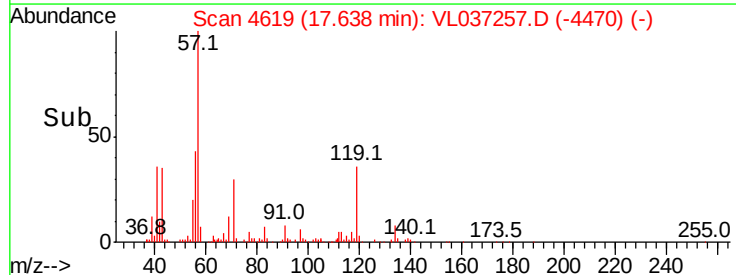
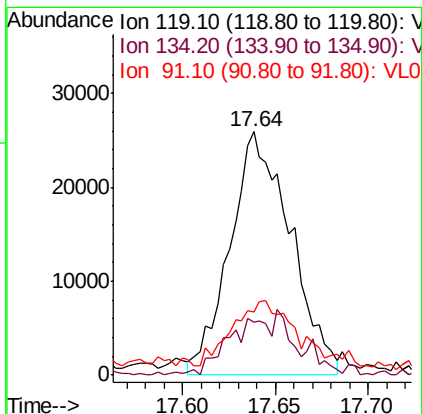
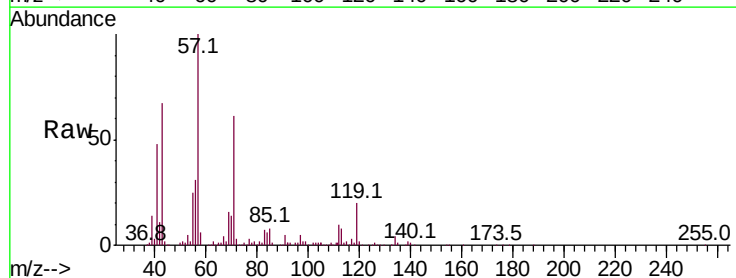
Instrument :
 MSVOA_L
 ClientSampleId :

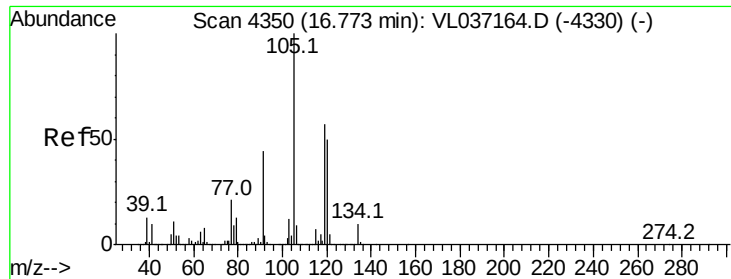
Tot Ion: 95 Resp: 3282226
 Ion Ratio Lower Upper
 95 100
 174 75.5 57.0 85.4
 175 5.4 4.4 6.6



#69
 p-Isopropyltoluene
 Concen: 0.087 ppbv
 RT: 17.64 min Scan# 4619
 Delta R.T. -0.02 min
 Lab File: VL037257.D
 Acq: 29 Jun 2021 20:11

Tgt Ion: 119 Resp: 58948
 Ion Ratio Lower Upper
 119 100
 134 28.7 20.9 31.3
 91 30.3 22.6 34.0





#74

1,2,4-Trimethylbenzene

Concen: 0.119 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.02 min

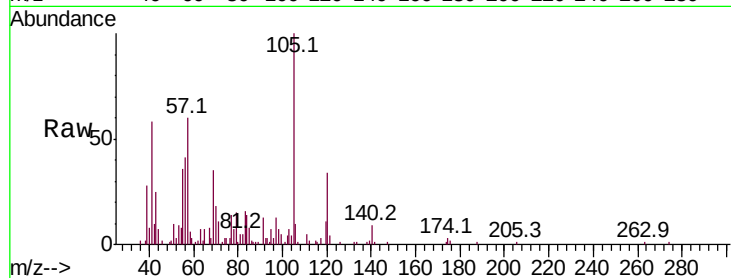
Lab File: VL037257.D

Acq: 29 Jun 2021 20:11

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion:	105	Resp:	64353
Ion	Ratio	Lower	Upper
105	100		
120	34.5	39.8	59.8#
91	9.5	37.0	55.4#
77	11.1	17.0	25.4#

