

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091621\
 Data File : VL037628.D
 Acq On : 16 Sep 2021 23:23
 Operator : SY/AP
 Sample : M3780-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 17 05:29:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1606380	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4500916	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3866443	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2797868	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

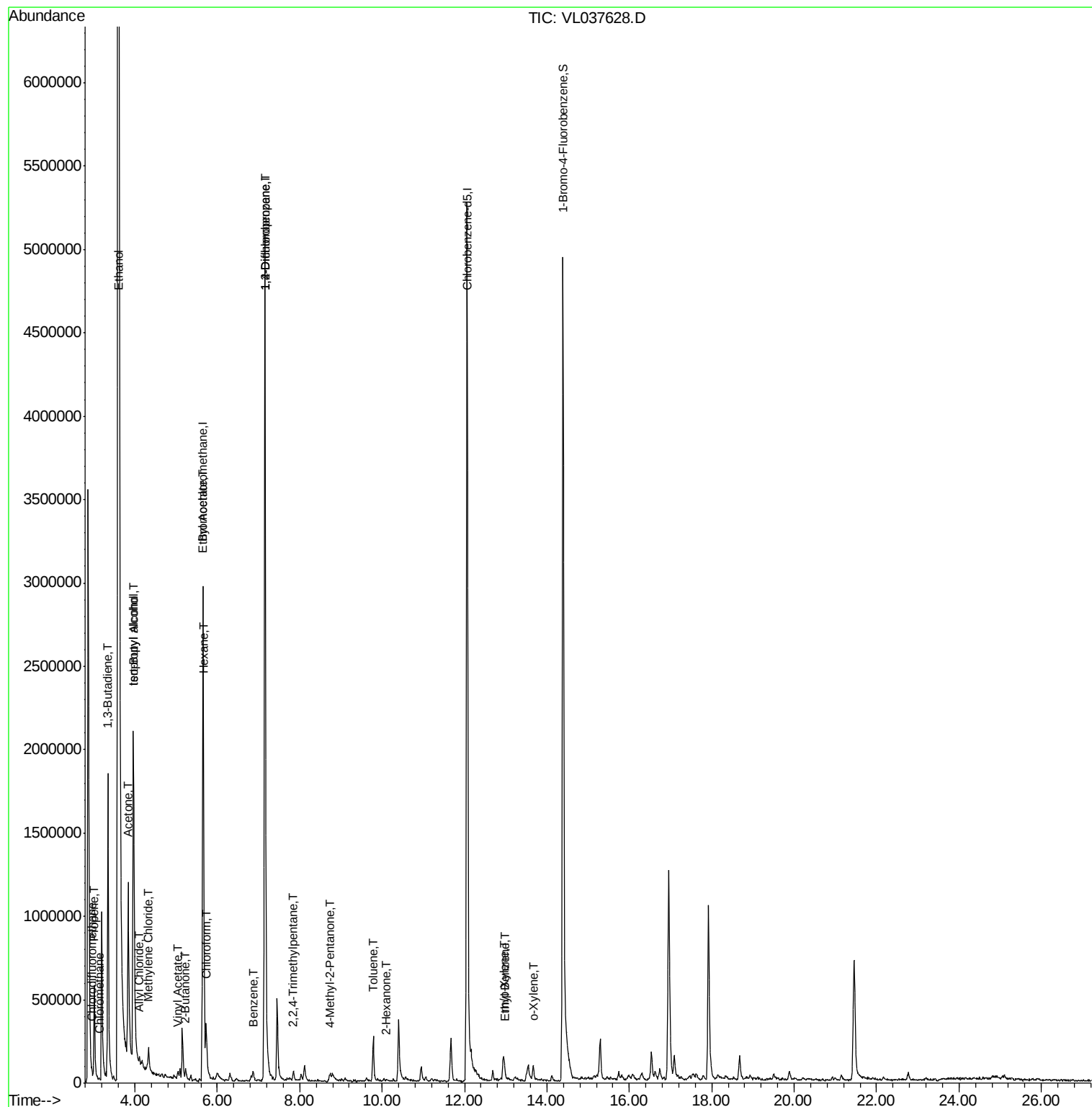
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.95	51	46740	0.154	ppbv #	74
4) Chloromethane	3.13	50	15102	0.135	ppbv	93
9) Propene	3.01	41	75235	0.704	ppbv #	14
13) Ethanol	3.60	45	18582985	1777.522	ppbv	98
15) Acetone	3.84	43	1313211	7.868	ppbv	99
16) 1,3-Butadiene	3.35	39	262350	2.516	ppbv #	14
17) tert-Butyl alcohol	3.97	59	104406	0.738	ppbv	97
19) Isopropyl Alcohol	3.96	45	2885567	31.775	ppbv #	93
20) Methylene Chloride	4.33	84	22658	0.284	ppbv	93
21) Allyl Chloride	4.11	41	5692	0.046	ppbv #	22
23) Vinyl Acetate	5.05	43	16858	0.073	ppbv #	24
25) Ethyl Acetate	5.66	43	251016	0.621	ppbv #	92
26) Hexane	5.67	57	58732	0.306	ppbv #	3
29) Chloroform	5.73	83	201116	0.717	ppbv	92
34) 2-Butanone	5.23	43	44707	0.244	ppbv #	29
36) Benzene	6.87	78	20663	0.055	ppbv #	83
39) 1,2-Dichloropropane	7.16	63	1054168	7.333	ppbv #	27
44) 2,2,4-Trimethylpentane	7.85	57	28819	0.046	ppbv #	31
50) 4-Methyl-2-Pentanone	8.73	43	13384	0.058	ppbv #	38
51) 2-Hexanone	10.10	43	3081	0.030	ppbv #	1
53) Toluene	9.78	91	188376	0.452	ppbv	92
58) Ethyl Benzene	12.99	91	20798	0.041	ppbv	99
59) m/p-Xylene	12.96	91	42943	0.096	ppbv #	31
60) o-Xylene	13.67	91	15817	0.037	ppbv #	1

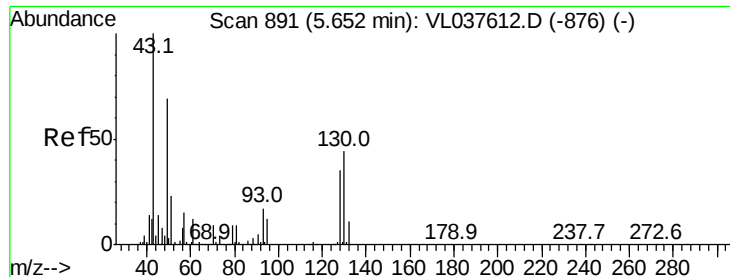
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 17 05:29:22 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
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QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :

MSVOA_L

ClientSampled :

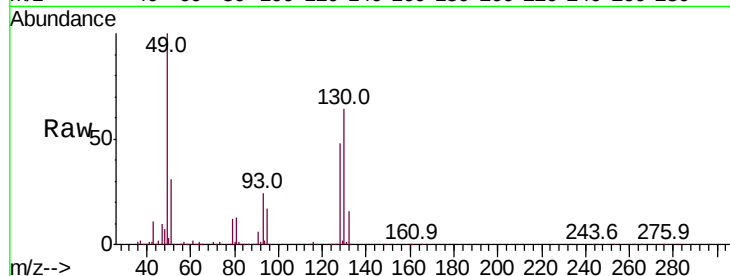
Tot Ion: 49 Resp: 1606380

Ion Ratio Lower Upper

49 100

128 51.7 27.9 83.6

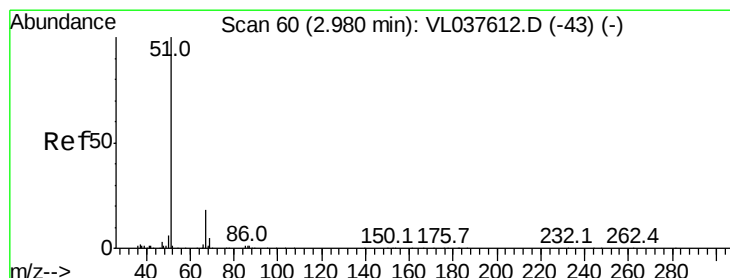
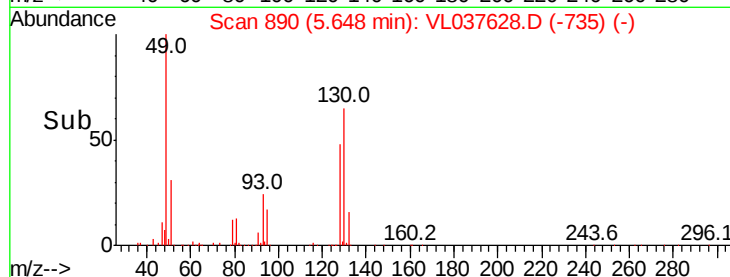
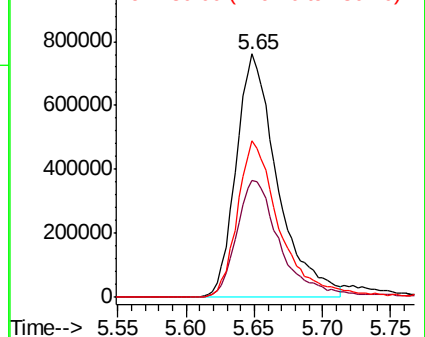
130 67.4 33.9 101.7



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



#3

Chlorodifluoromethane

Concen: 0.154 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL037628.D

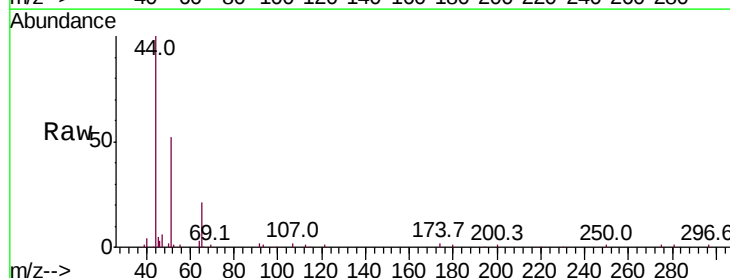
Acq: 16 Sep 2021 23:23

Tgt Ion: 51 Resp: 46740

Ion Ratio Lower Upper

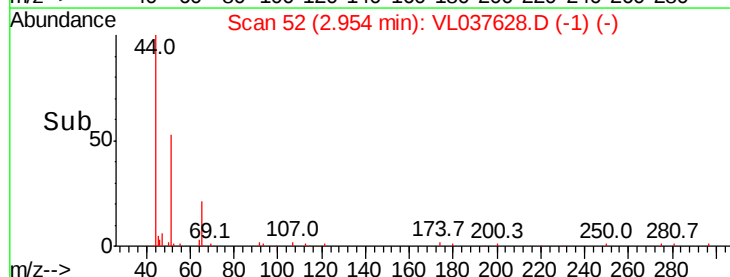
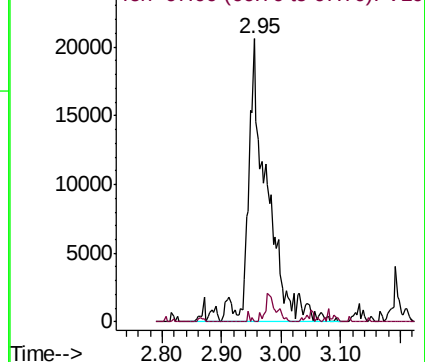
51 100

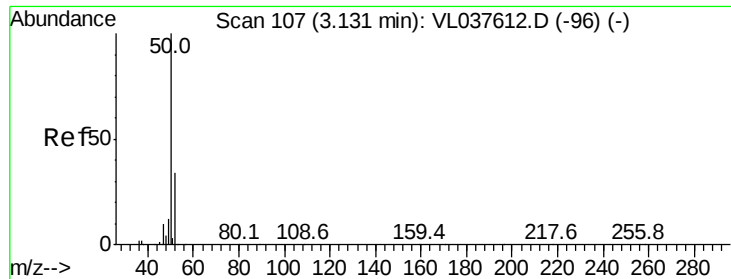
67 6.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.135 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :

MSVOA_L

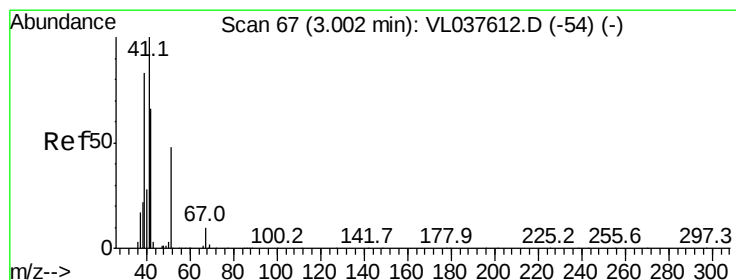
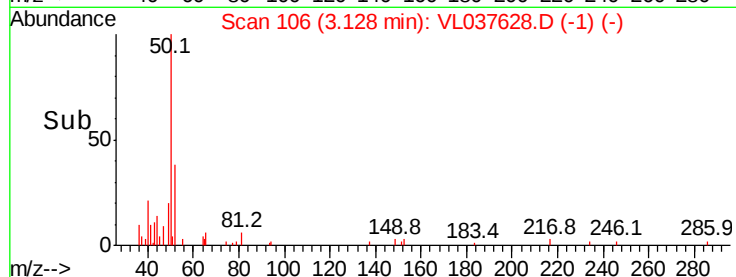
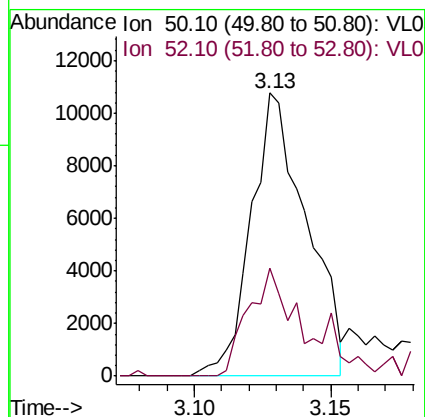
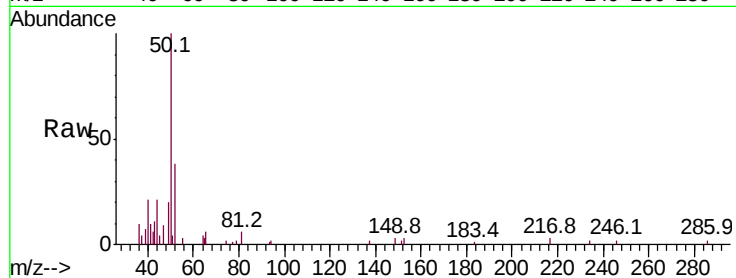
ClientSampleId :

Tot Ion: 50 Resp: 15102

Ion Ratio Lower Upper

50 100

52 38.0 27.1 40.7



#9

Propene

Concen: 0.704 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037628.D

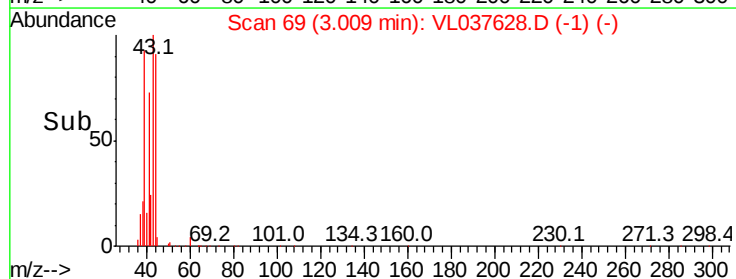
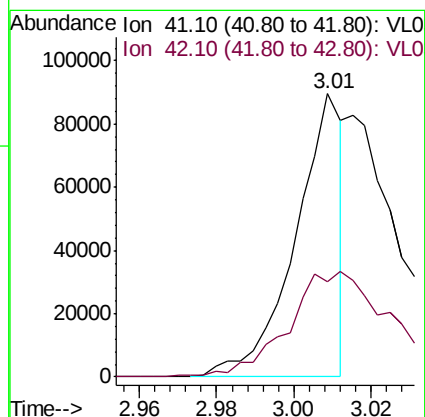
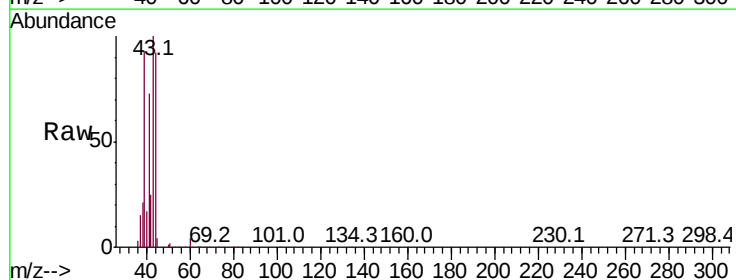
Acq: 16 Sep 2021 23:23

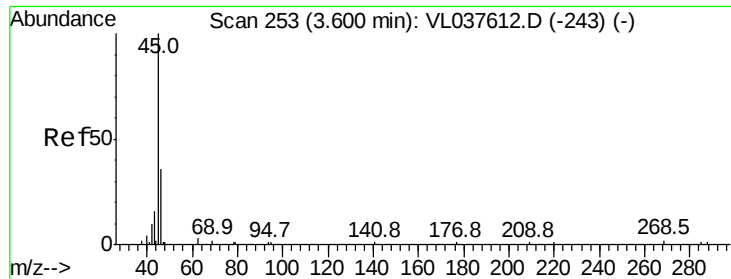
Tgt Ion: 41 Resp: 75235

Ion Ratio Lower Upper

41 100

42 0.0 57.2 85.8#

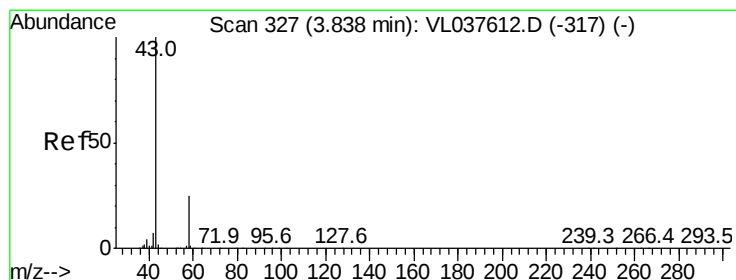
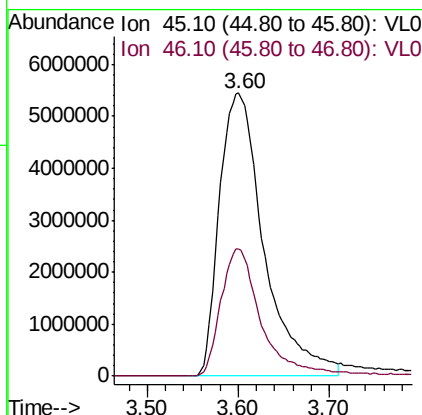
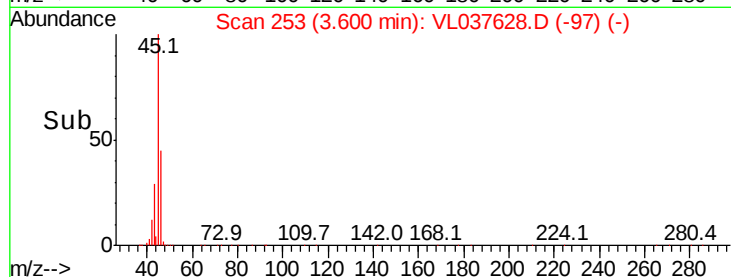
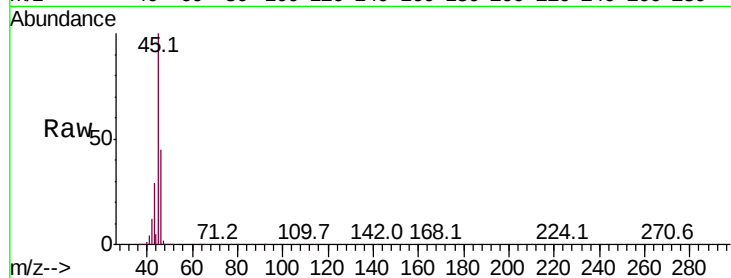




#13
Ethanol
Concen: 1777.522 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

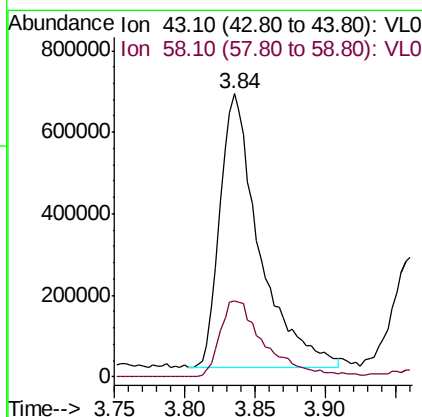
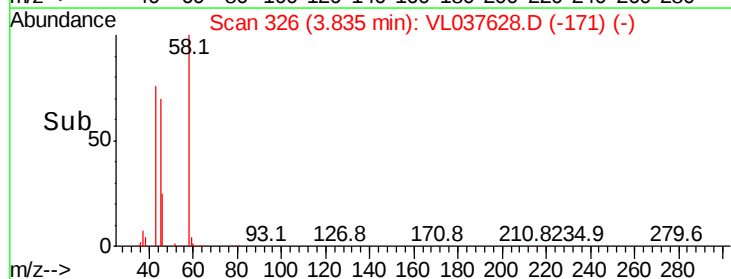
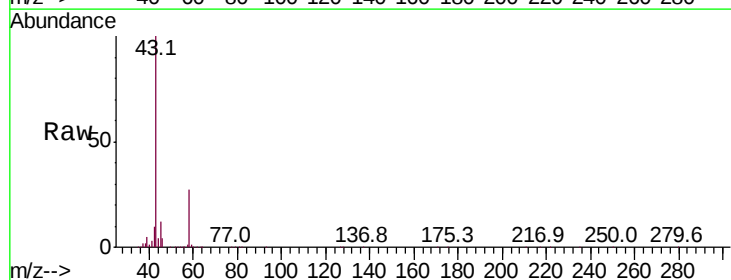
Instrument :
MSVOA_L
ClientSampleId :

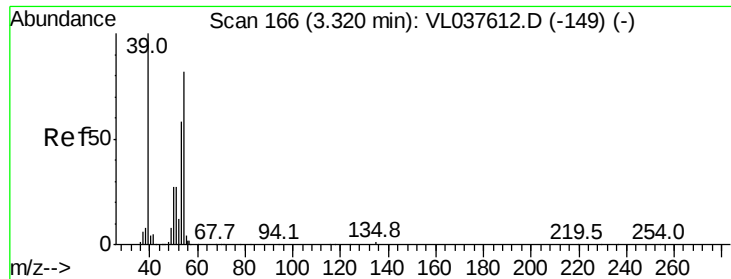
Tot Ion: 45 Resp:18582985
Ion Ratio Lower Upper
45 100
46 42.0 17.2 68.8



#15
Acetone
Concen: 7.868 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion: 43 Resp: 1313211
Ion Ratio Lower Upper
43 100
58 31.7 24.9 37.3

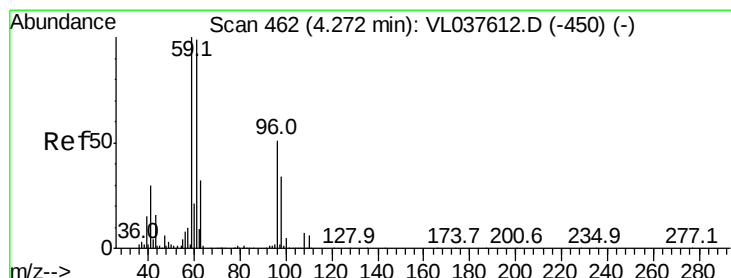
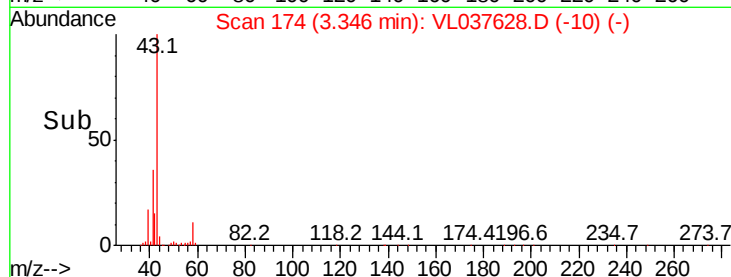
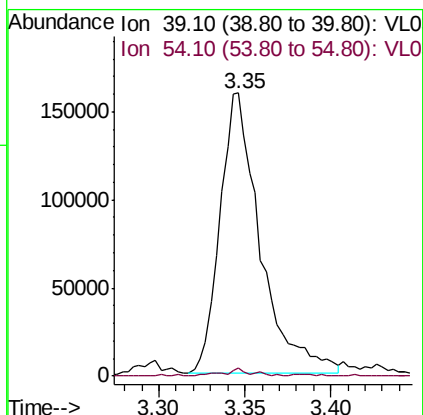
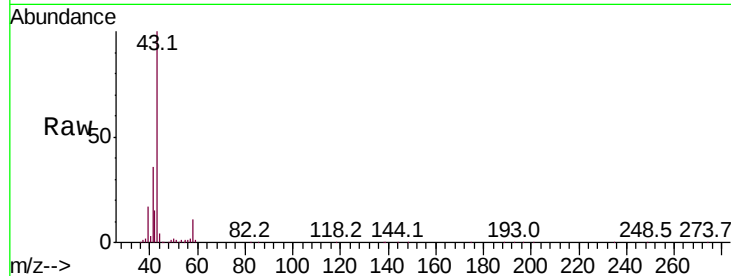




#16
1,3-Butadiene
Concen: 2.516 ppbv
RT: 3.35 min Scan# 174
Delta R.T. 0.03 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

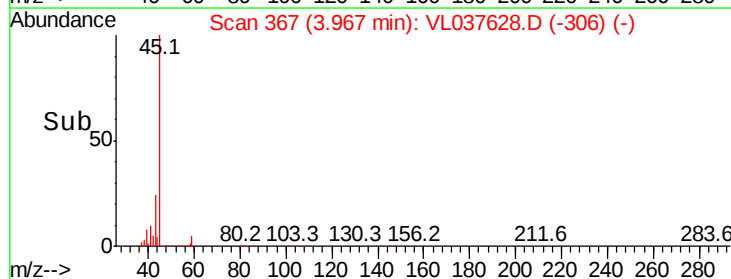
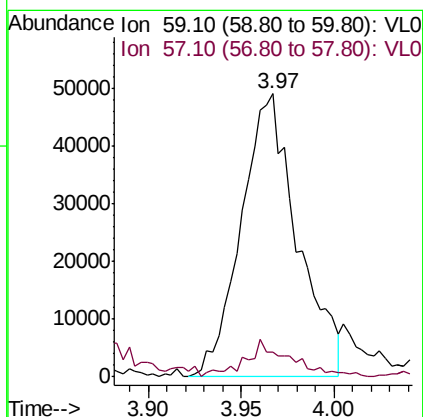
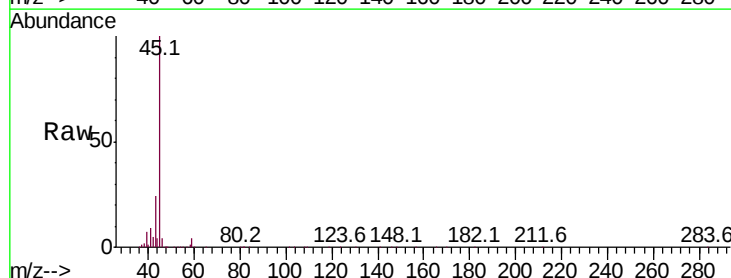
Instrument :
MSVOA_L
ClientSampleId :

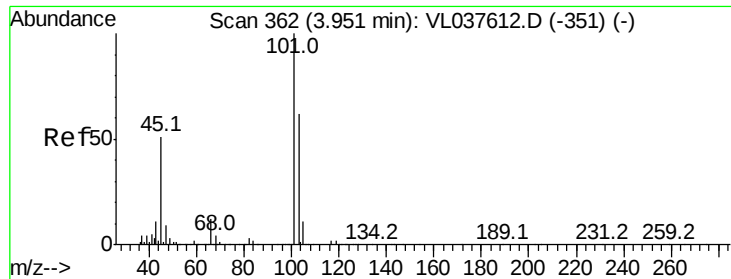
Tot Ion: 39 Resp: 262350
Ion Ratio Lower Upper
39 100
54 3.1 62.6 93.8#



#17
tert-Butyl alcohol
Concen: 0.738 ppbv
RT: 3.97 min Scan# 367
Delta R.T. -0.31 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion: 59 Resp: 104406
Ion Ratio Lower Upper
59 100
57 11.4 8.4 12.6





#19

Isopropyl Alcohol

Concen: 31.775 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :

MSVOA_L

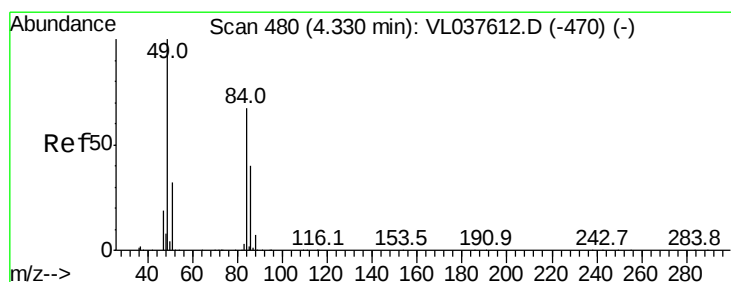
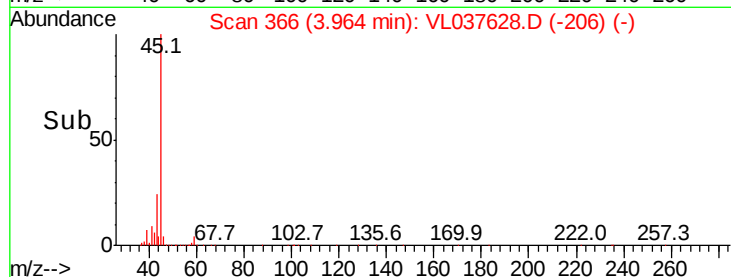
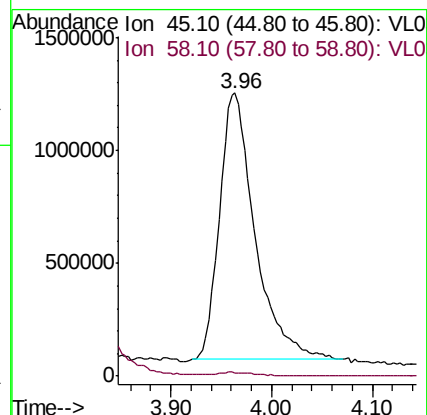
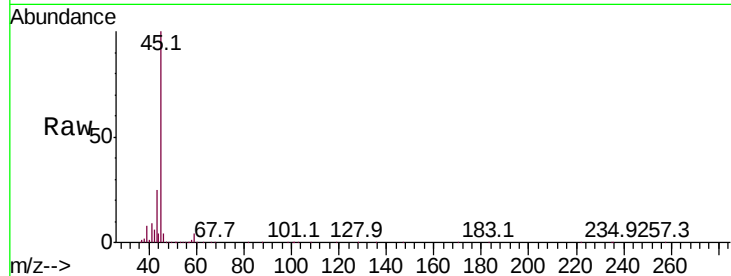
ClientSampleId :

Tot Ion: 45 Resp: 2885567

Ion Ratio Lower Upper

45 100

58 1.3 2.9 4.3#



#20

Methylene Chloride

Concen: 0.284 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Tgt Ion: 84 Resp: 22658

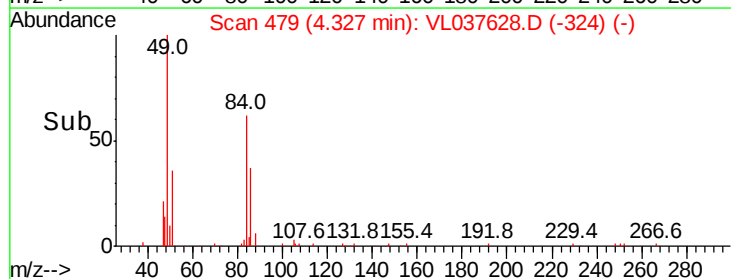
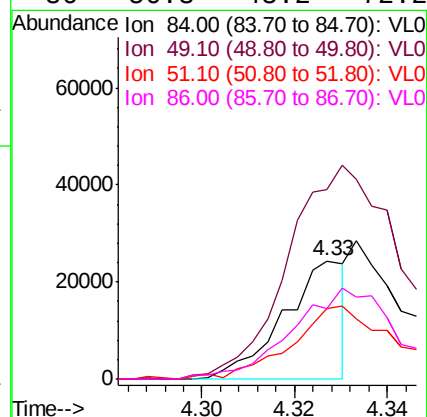
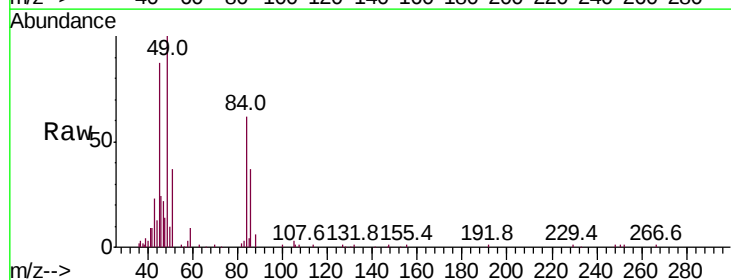
Ion Ratio Lower Upper

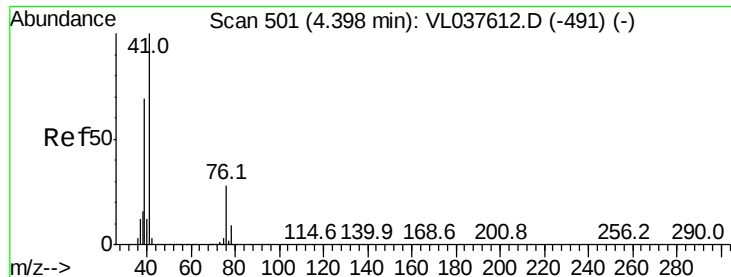
84 100

49 156.9 120.0 180.0

51 56.9 38.0 57.0

86 56.3 48.2 72.2





#21

Allvl Chloride

Concen: 0.046 ppbv

RT: 4.11 min Scan# 413

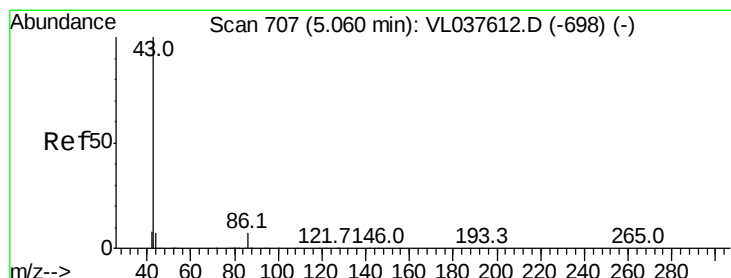
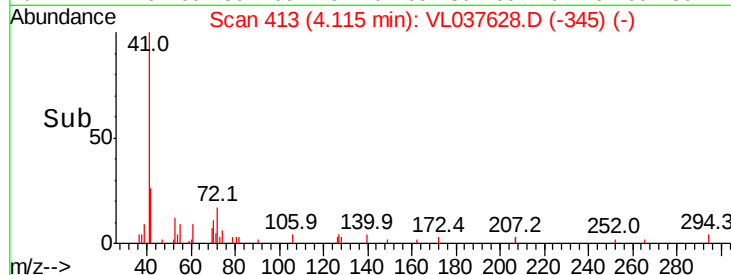
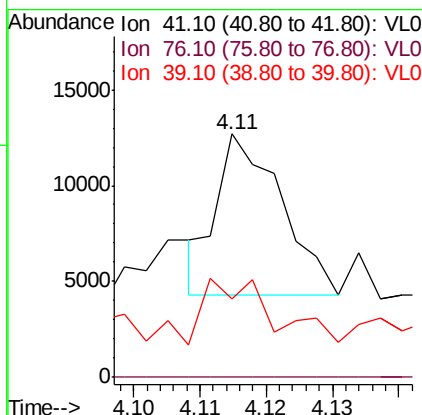
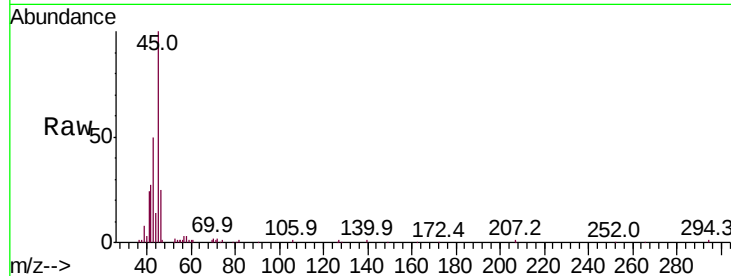
Delta R.T. -0.28 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	41	Resp:	5692
Ion	Ratio	Lower	Upper
41	100		
76	2.8	23.1	34.7#
39	0.0	61.0	91.6#



#23

Vinyl Acetate

Concen: 0.073 ppbv

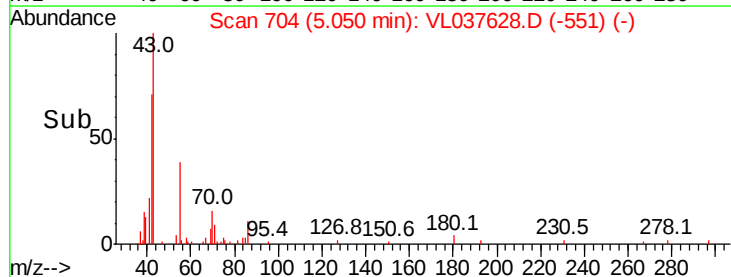
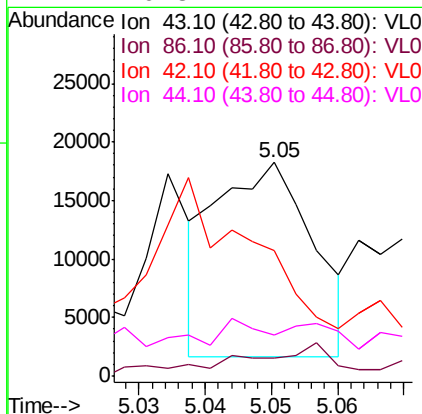
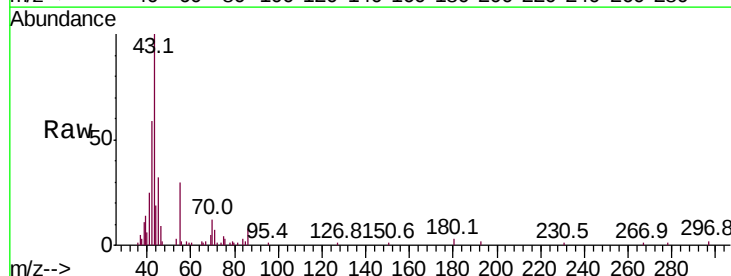
RT: 5.05 min Scan# 704

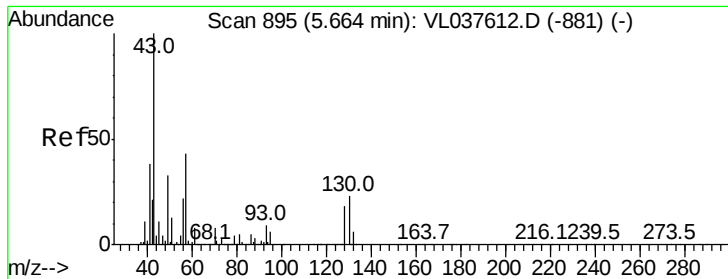
Delta R.T. -0.01 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Tgt Ion:	43	Resp:	16858
Ion	Ratio	Lower	Upper
43	100		
86	6.1	5.0	7.6
42	69.4	7.5	11.3#
44	0.8	4.7	7.1#

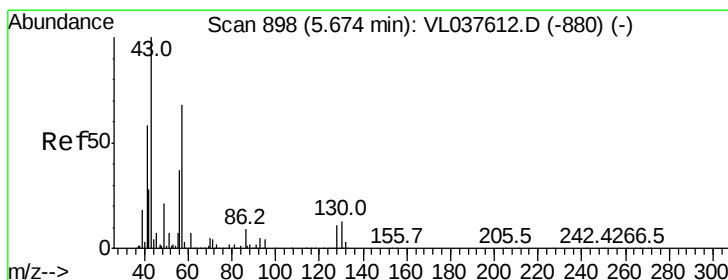
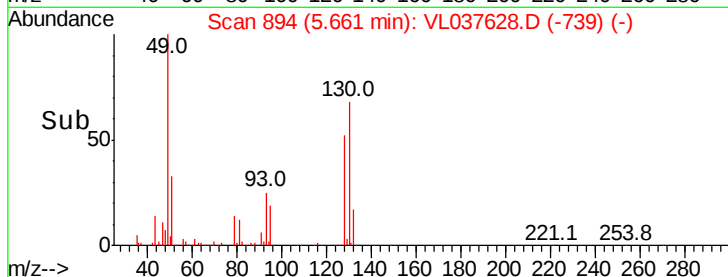
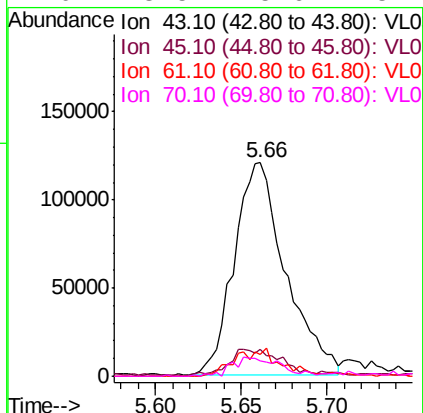
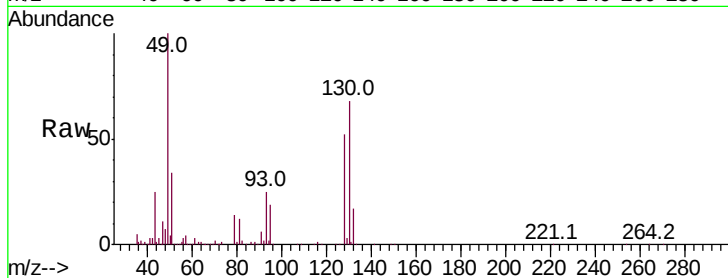




#25
Ethyl Acetate
Concen: 0.621 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

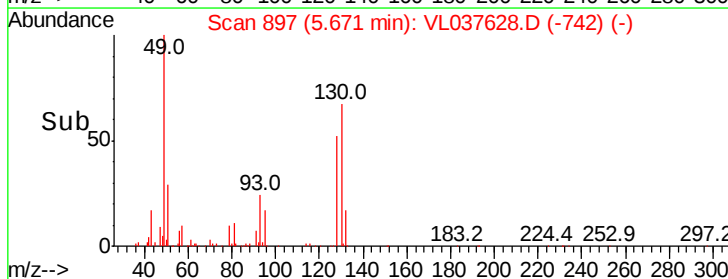
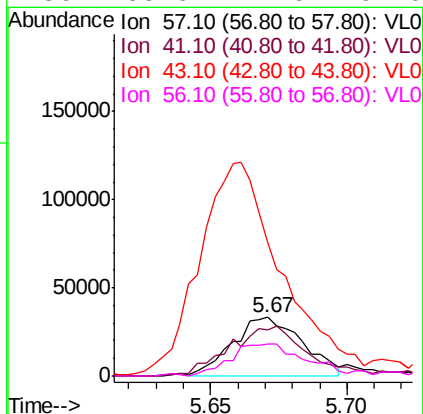
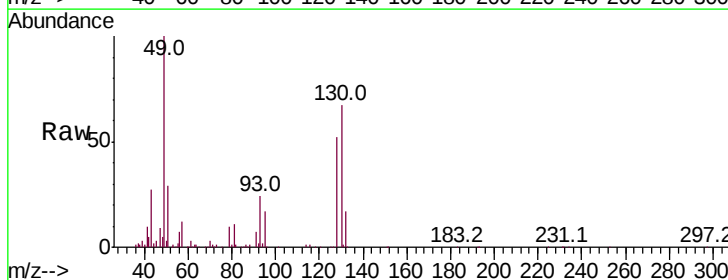
Instrument :
MSVOA_L
ClientSampleId :

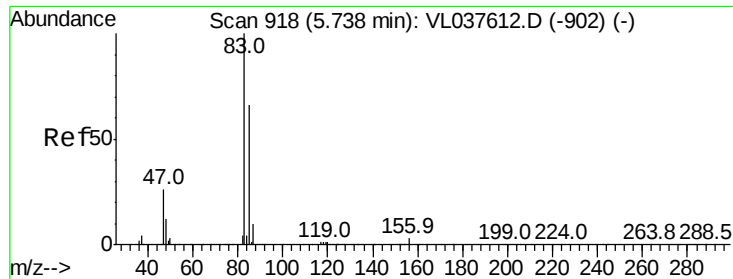
Tot Ion:	43	Resp:	251016
Ion	Ratio	Lower	Upper
43	100		
45	13.8	8.0	12.0#
61	12.4	7.5	11.3#
70	8.5	5.6	8.4#



#26
Hexane
Concen: 0.306 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion:	57	Resp:	58732
Ion	Ratio	Lower	Upper
57	100		
41	103.1	70.9	106.3
43	450.6	170.4	255.6#
56	65.6	42.6	64.0#

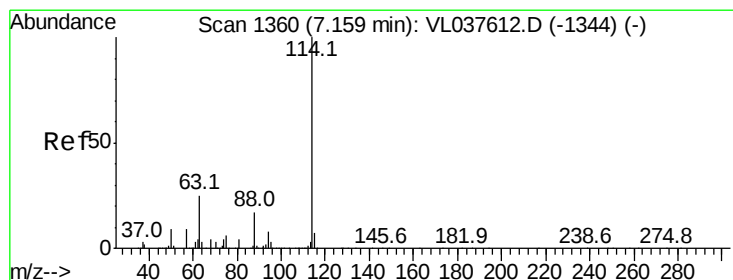
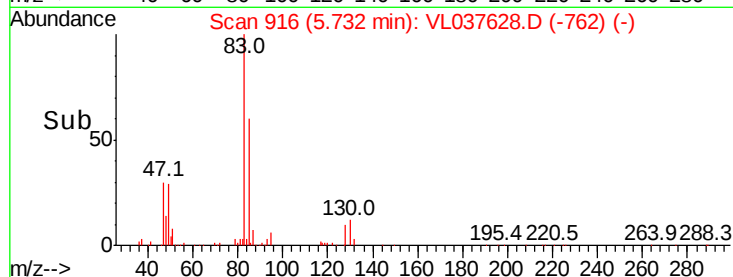
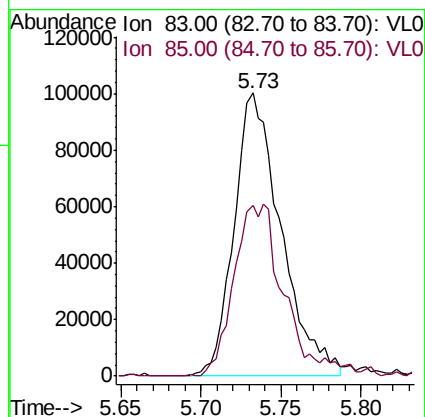
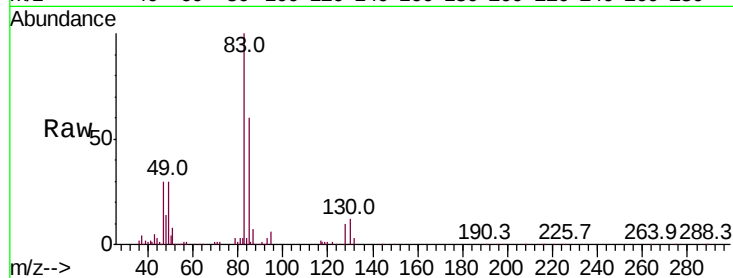




#29
Chloroform
Concen: 0.717 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

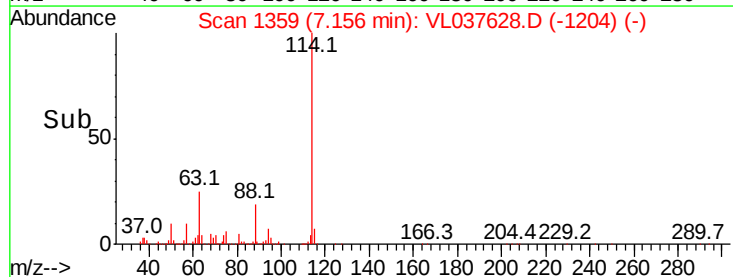
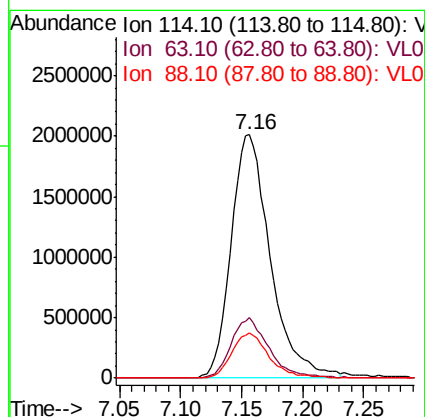
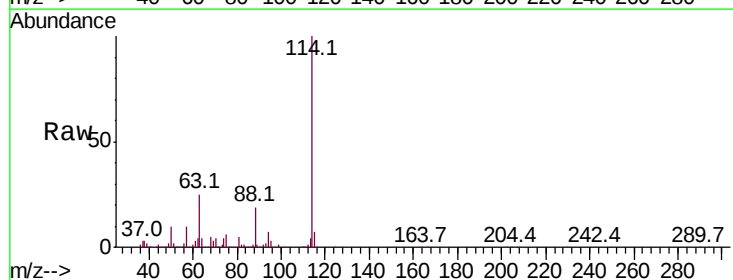
Instrument :
MSVOA_L
ClientSampled :

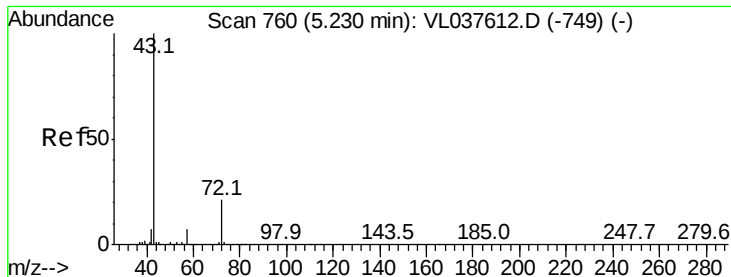
Tot Ion: 83 Resp: 201116
Ion Ratio Lower Upper
83 100
85 59.7 52.6 79.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion: 114 Resp: 4500916
Ion Ratio Lower Upper
114 100
63 24.1 19.6 29.4
88 18.1 14.2 21.4

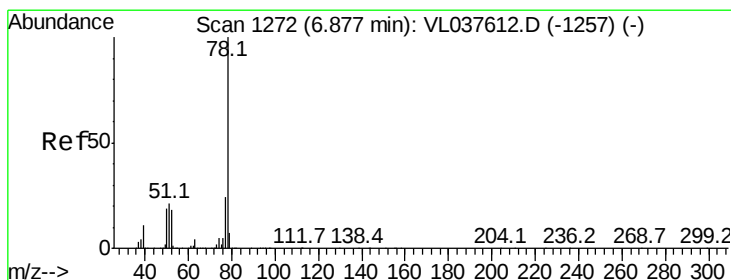
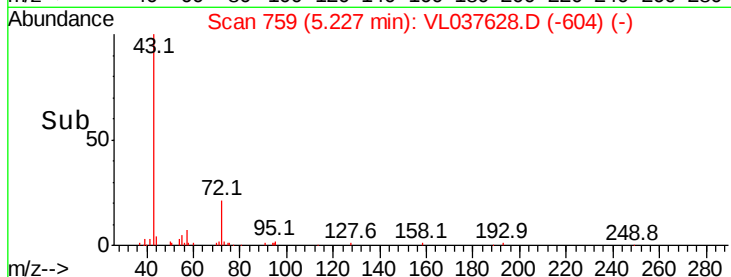
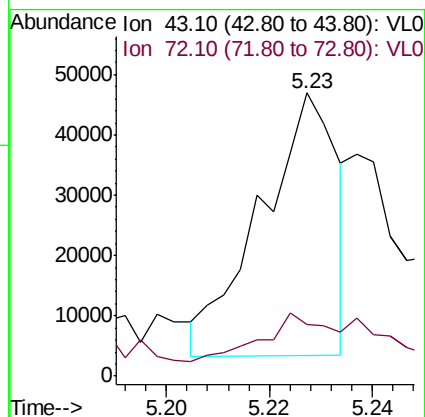
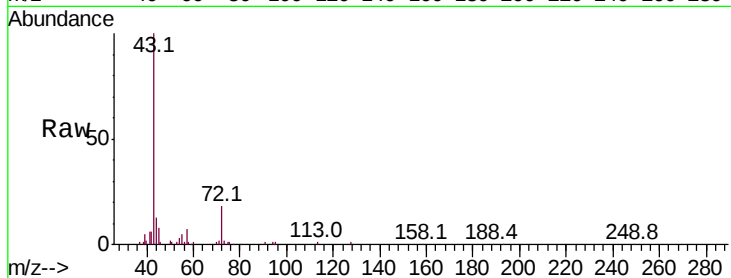




#34
2-Butanone
Concen: 0.244 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

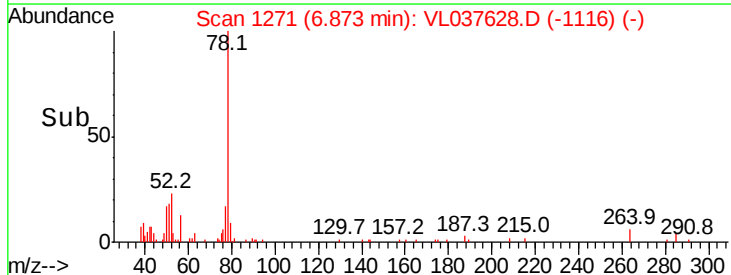
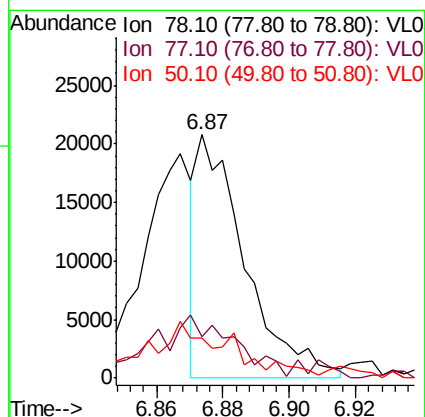
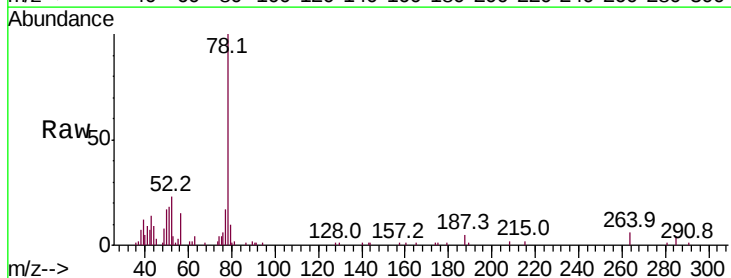
Instrument :
MSVOA_L
ClientSampleId :

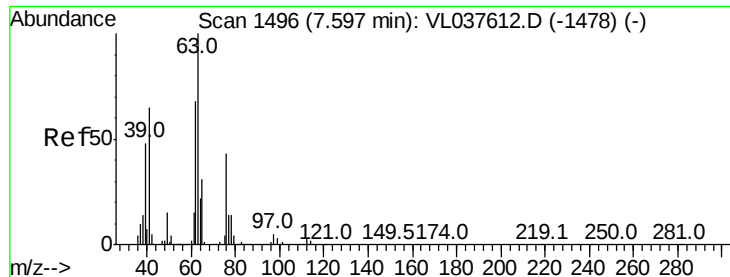
Tot Ion: 43 Resp: 44707
Ion Ratio Lower Upper
43 100
72 57.5 18.4 27.6#



#36
Benzene
Concen: 0.055 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion: 78 Resp: 20663
Ion Ratio Lower Upper
78 100
77 14.3 19.0 28.4#
50 12.3 14.8 22.2#





#39

1,2-Dichloropropane

Concen: 7.333 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :

MSVOA_L

ClientSampleId :

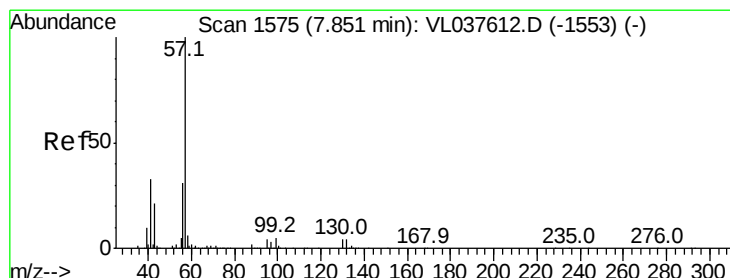
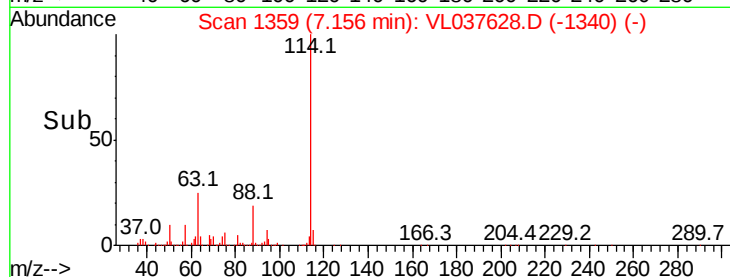
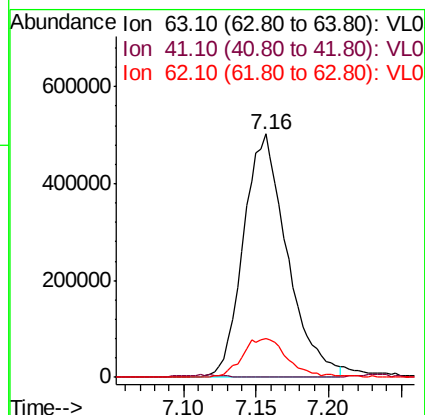
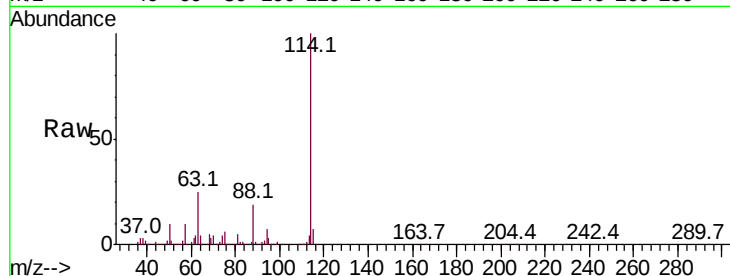
Tot Ion: 63 Resp: 1054168

Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 16.0 54.6 81.8#



#44

2,2,4-Trimethylpentane

Concen: 0.046 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

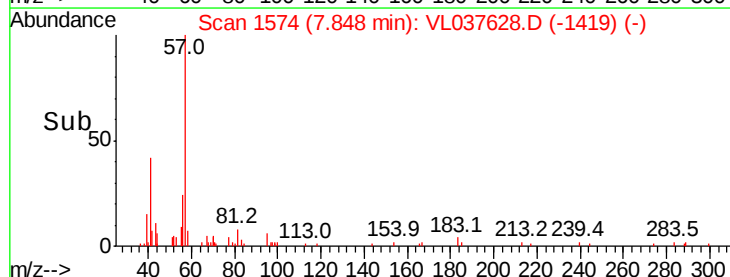
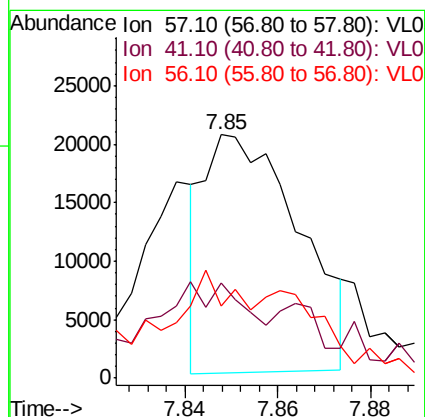
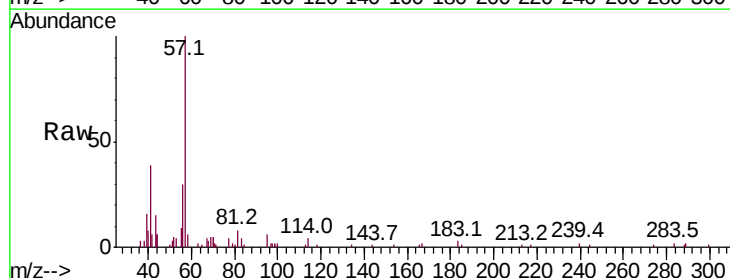
Tgt Ion: 57 Resp: 28819

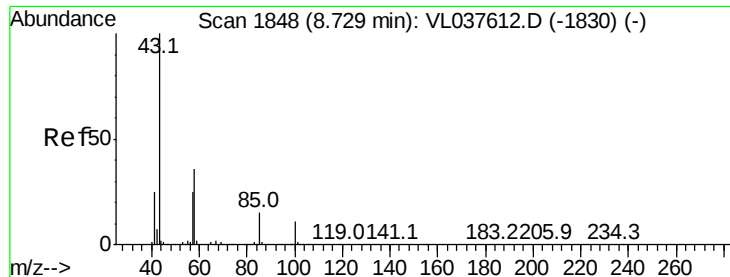
Ion Ratio Lower Upper

57 100

41 66.7 26.1 39.1#

56 75.4 25.7 38.5#

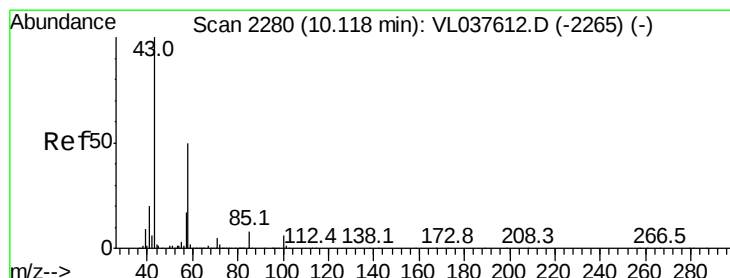
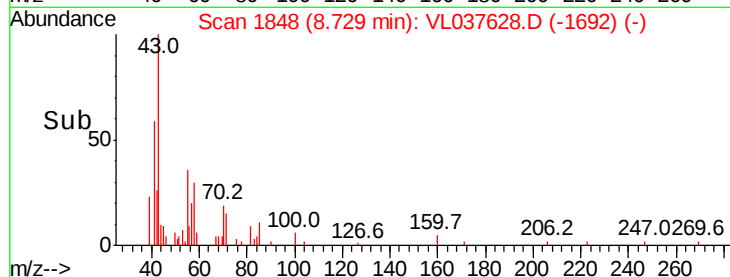
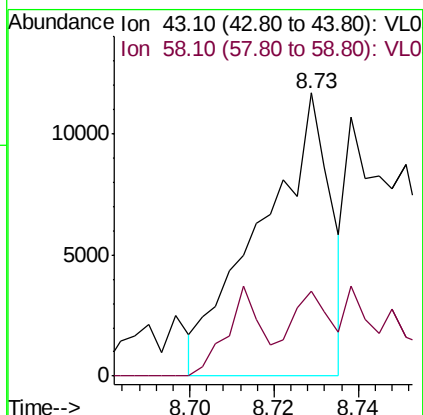
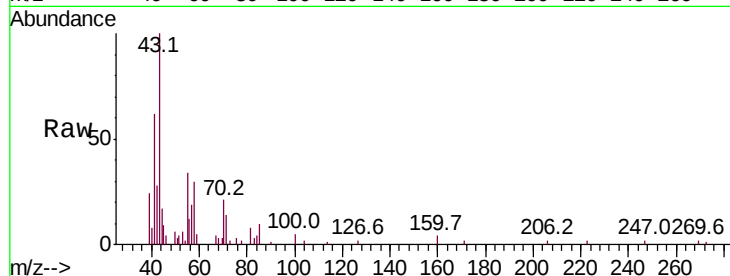




#50
4-Methyl-2-Pentanone
Concen: 0.058 ppbv
RT: 8.73 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

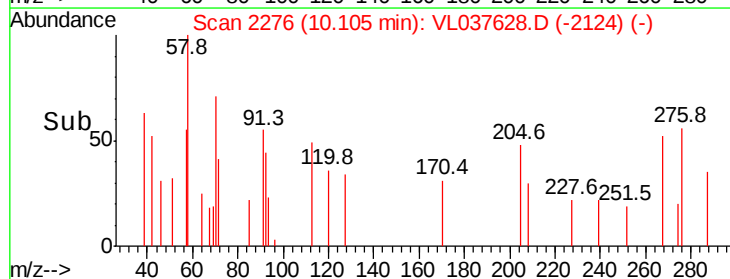
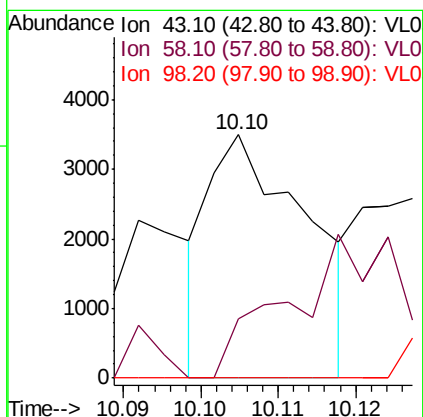
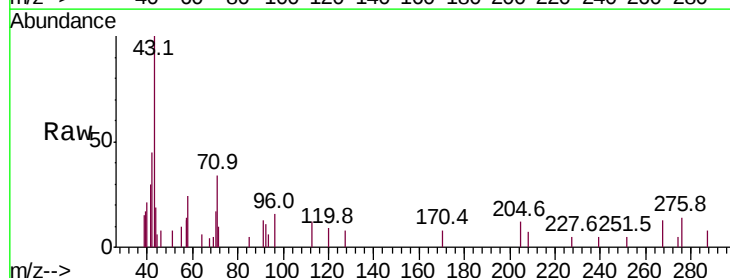
Instrument :
MSVOA_L
ClientSampled :

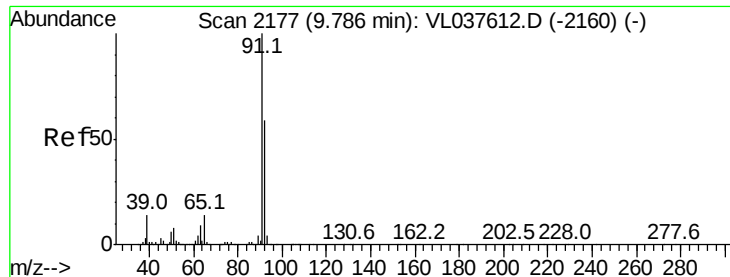
Tot Ion: 43 Resp: 13384
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.2#



#51
2-Hexanone
Concen: 0.030 ppbv
RT: 10.10 min Scan# 2276
Delta R.T. -0.01 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion: 43 Resp: 3081
Ion Ratio Lower Upper
43 100
58 144.8 39.3 58.9#
98 0.0 0.4 0.6#





#53

Toluene

Concen: 0.452 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :

MSVOA_L

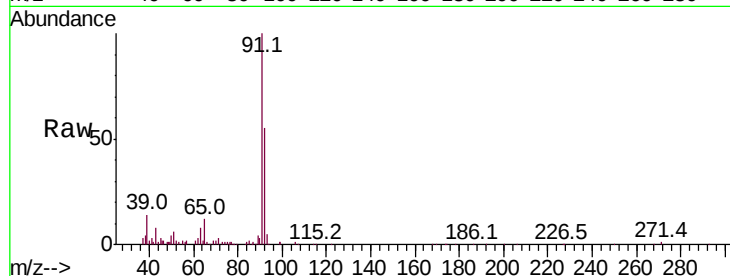
ClientSampled :

Tot Ion: 91 Resp: 188376

Ion Ratio Lower Upper

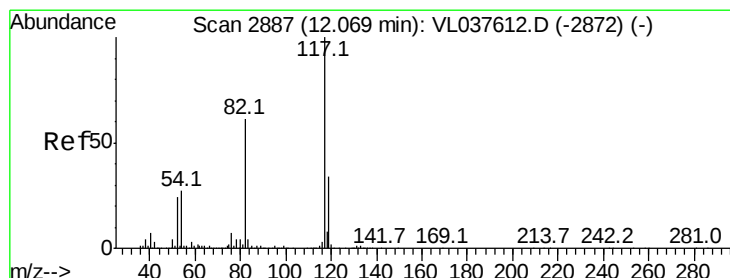
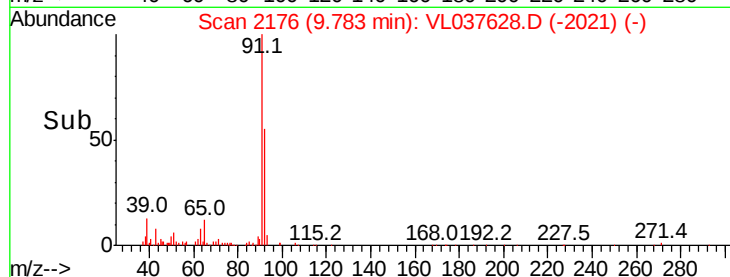
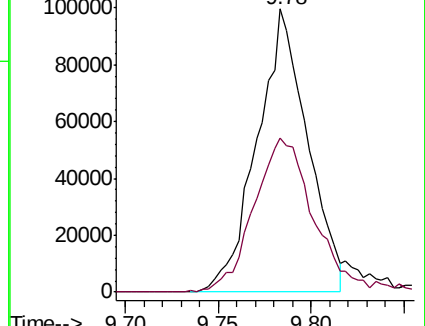
91 100

92 66.8 48.9 73.3



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: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

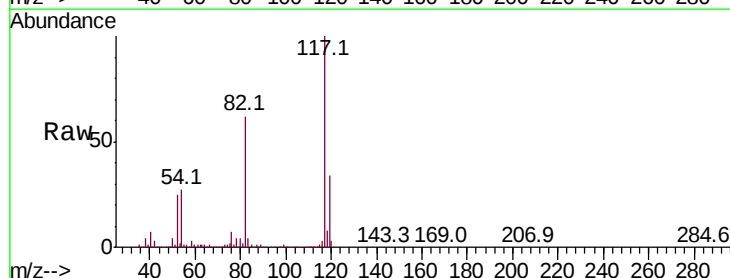
Tgt Ion: 117 Resp: 3866443

Ion Ratio Lower Upper

117 100

82 66.5 50.6 75.8

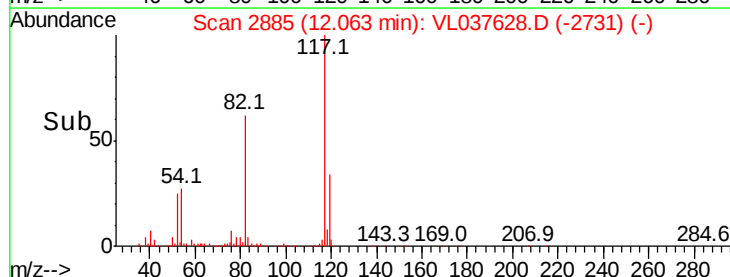
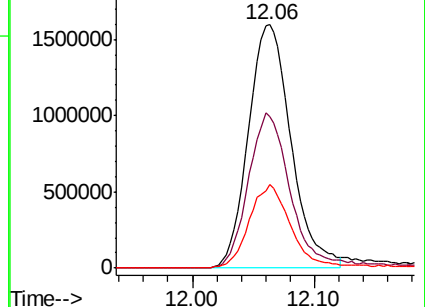
119 34.8 26.2 39.2

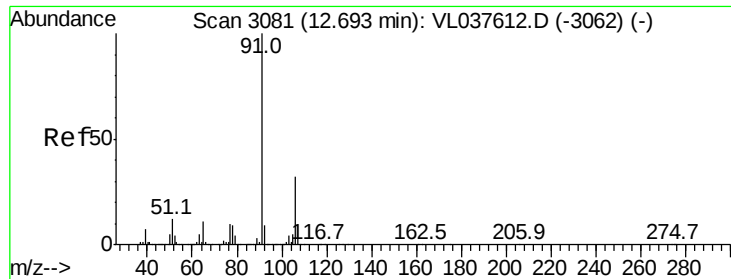


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.29 min

Lab File: VL037628.D

Acq: 16 Sep 2021 23:23

Instrument :

MSVOA_L

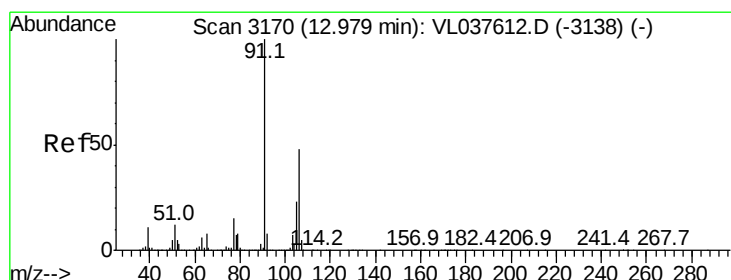
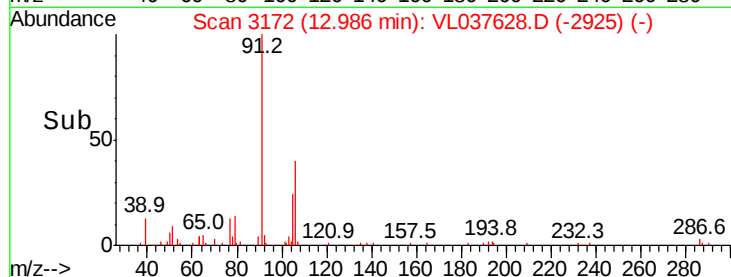
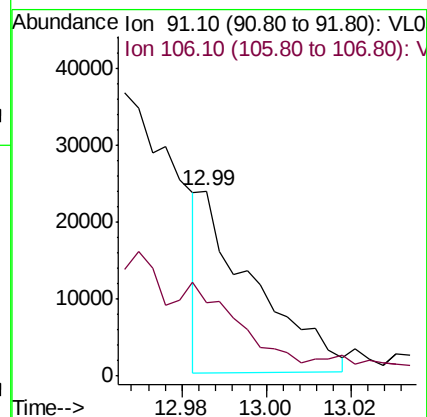
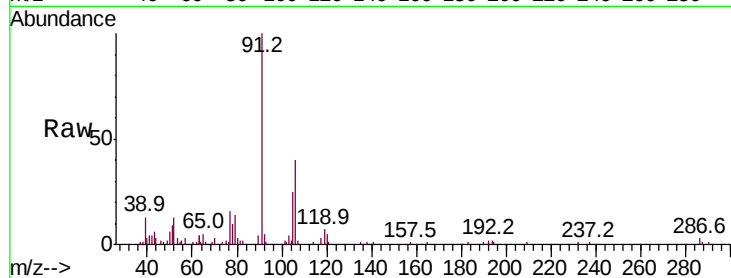
ClientSampleID :

Tot Ion: 91 Resp: 20798

Ion Ratio Lower Upper

91 100

106 32.0 25.3 37.9



#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.02 min

Lab File: VL037628.D

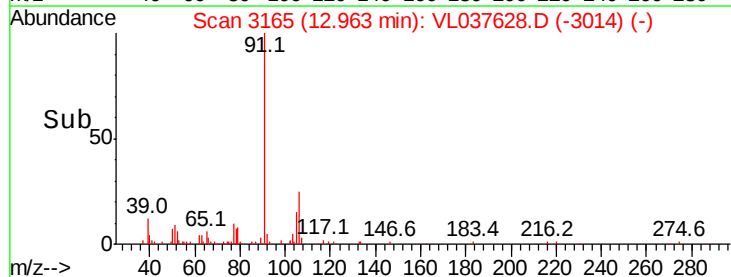
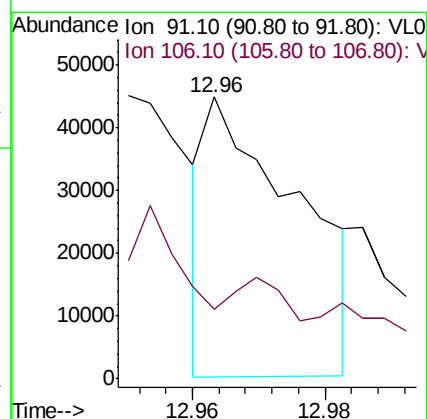
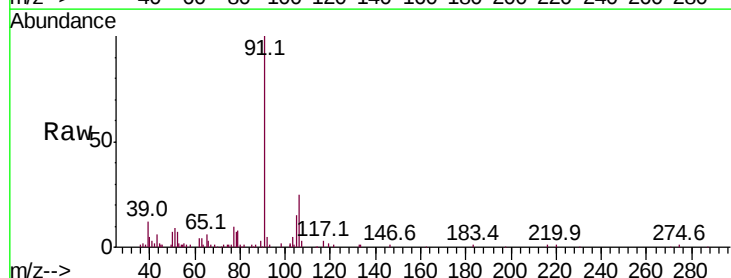
Acq: 16 Sep 2021 23:23

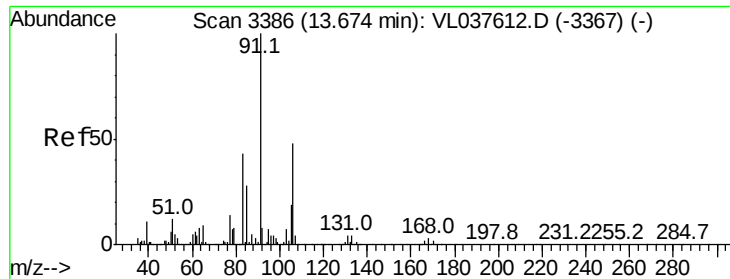
Tgt Ion: 91 Resp: 42943

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#

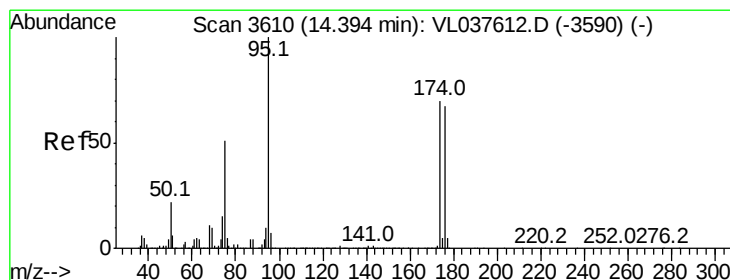
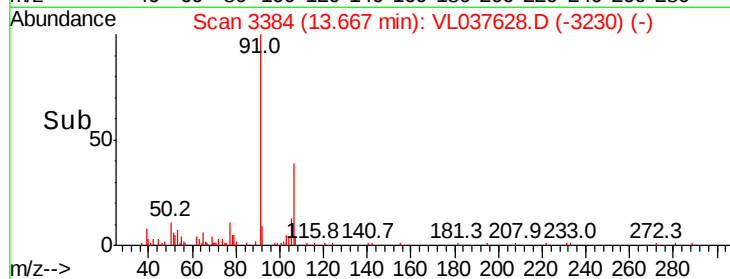
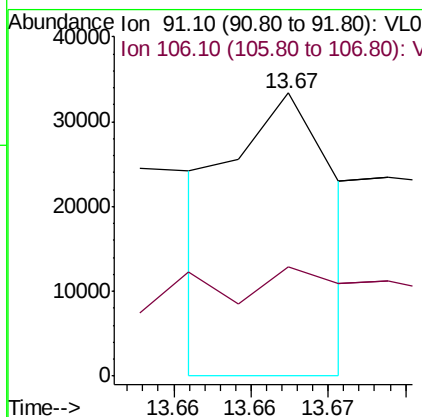
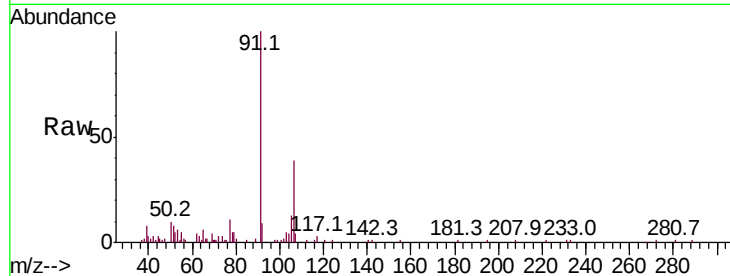




#60
o-Xylene
Concen: 0.037 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.01 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 91 Resp: 15817
Ion Ratio Lower Upper
91 100
106 177.0 23.0 69.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.013 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.00 min
Lab File: VL037628.D
Acq: 16 Sep 2021 23:23

Tgt Ion: 95 Resp: 2797868
Ion Ratio Lower Upper
95 100
174 76.2 56.3 84.5
175 5.6 4.4 6.6

